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CO-CHAIRS

Isabel Reche
Departamento de Ecología
Universidad de Granada

Michael L. Pace
Department of Environmental Sciences, University of Virginia



SCIENTIFIC COMMITTEE

Ivana Berman-Frank
Bar-Ilan University

Eva Lindström
Uppsala Universitet

Luc Brendonck
KU Leuven

Natalie Mladenov
Kansas State University

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2015 Aquatic Sciences Meeting

AQUATIC SCIENCES: GLOBAL AND REGIONAL PERSPECTIVES – NORTH MEETS SOUTH

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Jose M. Conde-Porcuña
Universidad de Granada

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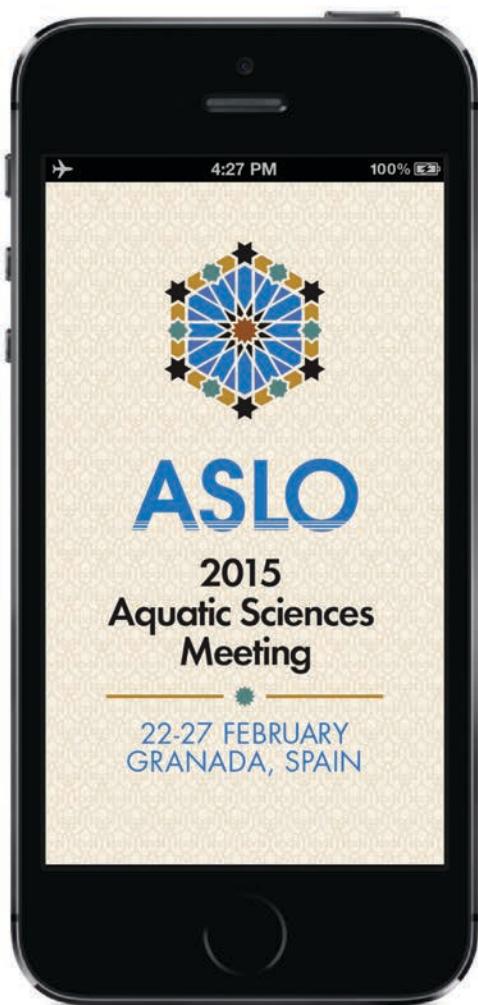
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Changes to the scientific program will also be published on an addendum that will be posted on message boards.

CONTENTS

ASLO 2015 Aquatic Sciences Meeting	2	Events, Meetings, and Receptions	22
Association for the Sciences of Limnology and Oceanography.....	2	Opening Session.....	22
Sponsors.....	2 & 4	Opening Mixer and Reception	22
Conference Committee	2	Plenary Sessions and Award Acceptance Presentations.....	22
ASLO Board of Directors.....	3	Annual ASLO Business Meeting and Membership Forum.....	23
Mobile App & Social Media	3	Poster Sessions and Receptions.....	23
Recording Policy	3		
Questions or Comments?	3	Workshops, Town Halls, and Auxiliary Meetings	23
Opening Session, Plenary Lectures, and Presentations.....	3	Workshop: East Meets West: Trans-Atlantic Aquatic Invasions of North America and Europe	23
Opening Session.....	3	Workshop: Environmental Controls on Marine Nitrogen Fixation	23
Monday Plenary Session.....	6	Workshop: CONNECTION: Make Your Science Communication More Effective through "Critical Storytelling" - Part A	23
Tuesday Plenary Session.....	7	Meeting of the Iberoamerican Limnological Societies	24
Wednesday Plenary Session	8	Workshop: Writing and Publishing a Scientific Paper	24
Thursday Plenary Session.....	8	Workshop: CONNECTION: Make Your Science Communication More Effective through "Critical Storytelling" - Part B	24
Friday Plenary Session.....	9	Workshop: Science Education	25
ASLO Society Award Presentations	10	ASLO Editors and Wiley Demonstration Forum	25
Monday Award Talk	10	Workshop: Snap It Up	25
Tuesday Award Talk.....	10	Workshop: Teaching Aquatic Science	25
Wednesday Award Talks	11	National Science Foundation Town Hall	25
Thursday Award Talks.....	11	Workshop: iMicrobe: A Cyberinfrastructure to Support Research in Microbial Ecology	25
Friday Award Talk	12	Panel Discussion: What can you do and should not do to inform the public about environmental problems	26
About the Conference Meeting Site.....	12	Town Hall: Expanding the U.S. Network of Coastal Ocean Ecosystem LTER's?	26
Congress Centre Address.....	12	Town Hall: Bioinvasions in the Mediterranean and the enlargement of the Suez Canal	26
Concessions at the Congress Centre	12		
Internet Access	12		
Transportation and Driving in Granada	12	Additional Participant and Attendee Information.....	27
Parking	12	Receipts	27
Conference Registration and Check In	12	Letters of Participation	27
Registration Desk Hours:	12	Childcare During the Meeting	27
Message Boards.....	12	Printing	27
ADA Statement/Special Needs	12		
Coffee Breaks.....	13	Instructions for Oral Presenters.....	27
Lunch and Dinner in Granada.....	13	Advance Submission	27
Exhibitors.....	13	On-Site Submission of Oral Presentations	27
Optional Events and Activities	15	Speaker/Presentation Room Hours:	27
Alhambra Night Time Tour	15	Reviewing Your Presentation	27
Dinner at La Chumbera Restaurante, Sacromonte, Granada	15	During Your Presentation	27
Closing Banquet at La Mamunia	15		
Other Optional Tours and Social Events.....	15	Instructions for Poster Presenters	28
Meeting Schedule	16-19	Poster Set Up	28
Information for Students and Early Career Participants	20	Poster Sessions	28
Student Volunteer Training Sessions	20	Poster Tear Down	28
Student Social Mixer	20		
Outstanding Student Presentation Awards.....	20	Congress Centre Maps	29-33
Student Career Development Workshops	20	Session Schedules At A Glance	34-43
ASLO Career Center	21	Monday Orals	44
Career Bulletin Board.....	21	Tuesday Orals	57
Early Career Mixer	21	Tuesday Posters	71
Early Career Workshop: Marie Curie Fellowships.....	21	Wednesday Orals	80
ASLO Meeting Mentor Program.....	21	Wednesday Posters	94
ASLO Multicultural Program 2015	21	Thursday Orals	102
ASLO 2015 Multicultural Program Training Session	21	Thursday Posters	116
Special Activities	21	Friday Orals	126
Explore Granada Jogging.....	21	Poster Map	139
Malaspina Circumnavigation Expedition Exhibit	22	Author Index	140
		Granada Map	Inside Back Cover

ASLO 2015 AQUATIC SCIENCES MEETING

AQUATIC SCIENCES: GLOBAL AND REGIONAL PERSPECTIVES — NORTH MEETS SOUTH

The 2015 meeting brings together a diverse group of participants at a site where many cultures have engaged throughout the centuries. Located in the South of Spain, Granada is anchored by the Sierra Nevada Mountains, the highest mountain range of the Iberian Peninsula and the tropical coast of the Mediterranean Sea. With a history deep in diversity to a present rich in culture, vitality, and acceptance, Granada is the perfect setting to bring together scientists, engineers, students, educators, policy makers and other stakeholders to engage in an international dialogue.

Plenary talks and sessions focus on global and regional patterns of aquatic systems in diverse northern and southern inland water biomes and oceanographic provinces emphasizing both similarities and differences. This theme is a critical scientific challenge as our discipline moves to understand and confront human accelerated environmental change. Along with ASLO members from North America and Europe, participants include Latin American, African, and Middle Eastern aquatic scientists. This meeting in Granada contributes to the ongoing international development of ASLO by bringing together a diverse group of participants at a site where many cultures have engaged through the centuries.

ASSOCIATION FOR THE SCIENCES OF LIMNOLOGY AND OCEANOGRAPHY

The purpose of ASLO is to foster a diverse, international scientific community that creates, integrates and communicates knowledge across the full spectrum of aquatic sciences, advances public awareness and education about aquatic resources and research, and promotes scientific stewardship of aquatic resources for the public interest. Its products and activities are directed toward these ends.

For more than 50 years, ASLO has been the leading professional organization for researchers and educators in the field of aquatic science. ASLO traces its roots to the Limnological Society of America (LSA), which was established in 1936 to further interest and research in limnological science. While the LSA had members working in both freshwater and marine systems, the name did not reflect this diversity until 1948 when the Oceanographic Society of the Pacific merged with the LSA to become the American Society of Limnology and Oceanography. ASLO is incorporated as a non-stock (non-profit) corporation in the State of Wisconsin. Membership in the society is presently more than 3,800 members. Members are drawn from 58 countries including the United States, and more than a quarter of the members reside outside the U.S. In 2011, ASLO members voted to change its name to the Association for the Sciences of Limnology and Oceanography, reflecting the increasingly international nature of the society.

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CONFERENCE COMMITTEE

MEETING CO-CHAIRS

Isabel Reche, Departamento de Ecología, Universidad de Granada, Granada, Spain, ireche@ugr.es

Michael L. Pace, Department of Environmental Sciences, University of Virginia, Charlottesville, Virginia, USA, mlp5fy@virginia.edu

SCIENTIFIC COMMITTEE

Ilana Berman-Frank, Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University, Ramat-Gan, Israel, ilana.berman-frank@biu.ac.il

Luc Brendonck, Ecology, Evolution and Biodiversity Conservation Section, KU Leuven, Leuven, Belgium, Luc.brendonck@bio.kuleuven.be

Amy Burgess, University of Oregon, Oregon Institute of Marine Biology, Charelston, Oregon, USA, Burgess5@uoregon.edu

Fidel Echevarria, Department of Biology, Universidad de Cádiz, Cádiz, Spain, fidel.echevarria@uca.es

Josep Gasol, Departamento de Biología Marina i Oceanografía, Institut de Ciències del Mar, Barcelona, Spain, pepgasol@icm.csic.es

Gerhard Herndl, Department of Marine Biology, University of Vienna, Vienna, Austria, gerhard.herndl@univie.ac.at

Vera Huszar, Laboratorio de Fisiología, Museu Nacional, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, vhuszar@gbl.com.br

Eva Lindström, Evolutionary Biology Centre, Uppsala Universitet, Uppsala, Sweden, eva.lindstrom@ebc.uu.se

Natalie Mladenov, Department of Civil Engineering, Kansas State University, Lawrence, Kansas, USA , mladenov@k-state.edu

Monica Orellana, Institute for System Biology, Seattle, Washington, USA, morellana@systemsbiology.org

Yves Prairie, Department of Biological Sciences, University of Quebec at Montreal, Montreal, Quebec, Canada, prairie.yves@uqam.ca

Ruben Sommaruga, Institute of Ecology, University of Innsbruck, Innsbruck, Austria, ruben.Sommaruga@uibk.ac.at

Curtis Suttle, Earth, Ocean & Atmospheric Sciences, Botany, and Microbiology & Immunology, University of British Columbia, Vancouver, BC, Canada, suttle@science.ubc.ca

James Thorp, Kansas Biological Survey and Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, Kansas, USA, thorp@ku.edu

LOCAL COMMITTEE

Antonio Camacho, Departamento de Microbiología y Ecología, Universidad de Valencia, Valencia, Spain, antonio.camacho@uv.es

Jose M. Conde-Porcuna, Departamento de Ecología, Universidad de Granada, Spain, jmconde@ugr.es

Alfonso Corzo, Facultad de Ciencias del Mar y Ambientales, Universidad de Cádiz, Puerto Real, Cádiz, Spain, alfonso.corzo@uca.es

Inmaculada de Vicente, Instituto Universitario del Agua, Universidad de Granada, Spain, ivicente@ugr.es

Jesus Garcia-Lafuente, Departamento Física Aplicada, Universidad de Málaga, Málaga, Spain, glafuente@ctima.uma.es

Andy Green, Ecología de Humedales, Estación Biológica de Doñana, Consejo Superior de Investigaciones Científicas, Sevilla, Spain, ajgreen@ebd.csic.es

Emma Huertas, Instituto de Ciencias Marinas de Andalucía, Consejo Superior de Investigaciones Científicas, Puerto Real, Cádiz, Spain, emma.huertas@icman.csic.es

Francisca Martínez-Ruiz, Instituto Andaluz de Ciencias de la Tierra, Consejo Superior de Investigaciones Científicas, Granada, Spain, fmruiz@iact.ugr-csic.es

Edward Morris, Instituto de Ciencias Marinas de Andalucía, Consejo Superior de Investigaciones Científicas, Puerto Real, Cádiz, Spain, edward.morris@csic.es

Cintia L. Ramon, Instituto Universitario del Agua, Universidad de Granada, Spain, crcasanas@ugr.es

Javier Ruiz, Instituto de Ciencias Marinas de Andalucía, Consejo Superior de Investigaciones Científicas, Puerto Real, Cádiz, Spain, javier.ruiz@icman.csic.es

Manuel Villar-Argaiz, Departamento de Ecología, Universidad de Granada, Spain, mvillar@ugr.es

Conference Management for the ASLO 2015 Aquatic Sciences Meeting is provided by sg Meeting and Marketing Services, Waco, Texas. For more information, contact:

Helen Schneider Lemay, ASLO Business Manager, helens@sgmeet.com

Lynda West, ASLO 2015 Aquatic Sciences Meeting Project Manager, lyndaw@sgmeet.com

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RECORDING POLICY

Please! No recording of individual talks or sessions (oral or poster).

Audio taping, videotaping, or photographing of presentations is not allowed at the meeting.

Thank you for your cooperation.

QUESTIONS OR COMMENTS?

Have a question about ASLO or the meeting? Members of the organizing committee along with the ASLO board members will be wearing ribbons. Please feel free to ask if you have a question.

CONFERENCE OPENING SESSION, PLENARY LECTURES, AND PRESENTATIONS**SUNDAY, 22 FEBRUARY 2015 – OPENING SESSION**

17:00 – 19:00, Auditorium Federico García Lorca (Floor 0)

WELCOME AND PRESIDENTIAL ADDRESSES

Welcome by Meeting Co-Chair - **Isabel Reche**, Departamento de Ecología, Universidad de Granada, Granada, Spain

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OPENING REMARKS

James J. Elser, ASLO President, School of Life Sciences, Arizona State University

ASLO returns: otra vez en España!

Presentation Description: The world's waters are global, and our community is an increasingly interconnected web of collaboration as we seek to unlock the secrets of Earth's oceans and continental waters

and to meet a variety of pressing issues, including climate change, eutrophication, and acidification. Our meeting in Spain represents ASLO's fifth meeting outside of North America and our second in Spain, and this week we celebrate those connections and work to grow them even further and to meet the challenges of this era of accelerating global change.

Biographical Information: James Elser is Regents' Professor and Distinguished Sustainability Scientist in the School of Life Sciences, Arizona State University. He is a Fellow of the American Association for the Advancement of Science and a foreign associate of the Norwegian Academy of Sciences and Letters. Elser holds a BS degree from the University of Notre Dame, an MS degree from the University of Tennessee, and a PhD (in Ecology) from the University of California – Davis. Recipient of ASLO's 2012 G. Evelyn Hutchinson Award for research accomplishment and its 1990 Lindeman Award, he now serves as ASLO's President. Author or co-author of more than 210 scientific articles, of the book *Eco-logical Stoichiometry*, and co-editor of the recent book *Phosphorus, Food, and Our Future*, Elser is co-founder of ASU's Sustainable Phosphorus Initiative (sustainablePasu.edu) and leader of the NSF-funded Research Coordination Network (RCN) on Phosphorus Sustainability.



REMARKS

D. Francisco González Lodeiro, Rector Magnífico de la Universidad de Granada

Biographical Information: D. Francisco González Lodeiro received his doctorate from the University of Salamanca in 1981. He has been a professor at the University of Granada in the Department of Geology for many years, where he teaches Regional Geology, Geomorphology, Structural

Geology, Fold and Fracturing, Introduction in Country Geology and Geodynamic Country Work and in the Degree of Environmental Science. His research has always been related to Regional Geology of the Alpine Nappes (Baetic-Riff Range) and the Paleozoic (Iberian massif). In addition he has lately studied more thematic things such as the seismic structure of the active Tectonic crust or the Relief Evolution.

He has been a member of the Natural Resources Committee of PAI (Plan Andaluz de Investigación), a board member of the Research National Plan, board member and president of the Nature Science Committee of the CNEAI, president of the External Committees of Evaluation of the Geology studies at the University of Salamanca and Barcelona and Geological Engineering at the University of Barcelona and the Technical College of Catalonia, board member of the Advisor Committee for Sciences of the "Agència per a la Qualitat del Sistema Universitari a Catalunya," board member of the Executive Committee

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PUBLIC LECTURE

Narcís Prat, Universitat de Barcelona, Barcelona, Spain

Knowing Ramón Margalef: Naturalist and Master of Several Generations of Spanish and Latin-American Ecologists

Presentation Description: Ramón

Margalef (1919-2004) was the founder of Spanish Ecology and had a large influence on the development of this science in the Iberian Peninsula and Latin America. He published some influential papers on Theoretical Ecology, Limnology and Oceanography. Even today some of his papers are a reference for ecologists (e.g. *Oceanologica Acta*, 1978, vol 1:4). He received many awards during his life (e.g. Huntsman's medal, Naumann-Thiemann medal). One of the ASLO awards has his name (Educational Award) and the Catalonian government has instituted an annual prize with his name. However, although Margalef's ideas and books are well known in the Iberian Peninsula and Latin America, his extensive work is only in part known among the international non-Spanish speaking community. His last book written in English ("Our Biosphere") is nearly unknown. On the occasion of the 10th anniversary of his death, we have organized a series of events to remember his memory and work and to examine the actuality of his ideas (<http://bit.ly/1I4hnRQ>). A summary of such activities and the actuality of Margalef's ideas will be presented in this plenary lecture.

Biographical Information: Narcís Prat earned his PhD. in biology at the University of Barcelona (1978) under the direction of Professor Ramon Margalef. He has been a professor at the Department of Ecology at the University of Barcelona since 1981 (full professor from 1987). His work is focused in rivers, lakes and reservoirs, including biomonitoring, the effects of forest fires on Mediterranean streams, intermittent rivers and the taxonomy and ecology of midges. He advised the regional minister of Environment of Catalonia from 2004 to 2010. During 2014 he has been the coordinator of the activities of the 10th anniversary of the death of Professor Margalef.



OPENING PLENARY PRESENTATION

Carlos M. Duarte, KAUST, Red Sea Research Center, Saudi Arabia

Malaspina Expedition: Seafaring on a New Quest

Presentation Description: On 13 December 2010, two Spanish research vessels departed on a seven-month voyage

to assess the impacts of global change on the ocean and explore its biodiversity, particularly that of the dark pelagic ocean. The Malaspina

2010 Circumnavigation Expedition completed its global sampling effort on 15 July 2011. For over three years, hundreds of scientists have been busy analyzing samples to yield, once completed, a mosaic describing the status and biodiversity of the world oceans in 2011. With less than a third of the pieces in place, the mosaic is already changing our views on the loads and fluxes of pollutants and nutrients as well as diversity of the pelagic ecosystem. This plenary talk, presented by the coordinator of the Malaspina 2010 Circumnavigation Expedition, will provide a brief outline of results thus far and reflect on how collaborative efforts can accelerate progress in understanding the ocean ecosystem.

Biographical Information: Carlos M. Duarte is the *Tarek Ahmed Jufali* Chair with the Red Sea Research Center at KAUST, Saudi Arabia, which he joined very recently. He was previously a research professor with the Spanish National Research Council (CSIC) and director of the Oceans Institute at The University of Western Australia.

Duarte's research focuses on understanding the effects of global change on aquatic ecosystems, both marine and freshwater. He has conducted research across Europe, South-East Asia, Cuba, México, USA, Australia, the Amazonia, the Arctic, the Southern Ocean, and the Atlantic, Indian and Pacific oceans, spanning most of the marine ecosystem types, from near-shore to the deep sea and tropical to polar. From 2008 to 2014 Duarte led the Malaspina 2010 Expedition, a Spanish circumnavigation expedition that sailed the world's oceans to examine the impacts of global change on ocean ecosystems and explore their biodiversity (<http://www.expedicionmalaspina.es>). He has published more than 550 scientific papers and two books reporting the outcomes of his research.

Duarte served as member-at-large and subsequently president of ASLO (2009 and 2010) and as member of the Scientific Council of the European Research Council (ERC), the highest-level scientific committee at the European Level (2009-2013). Duarte currently serves as editor-in-chief of *Frontiers in Marine Science* and was editor-in-chief of *Estuaries and Coasts*, as well as associate editor for a number of journals. He was named "Highly-cited researcher" in 2005 and 2014 by Thompson Reuters and has received many honors, including the G. Evelyn Hutchinson Award from the American Society of Limnology and Oceanography in 2001, the National Science Award of Spain (2007) and the King James I Award for Research on Environmental Protection (2009), the Silver Medal Cross of Merit from the Guardia Civil, Spain, for his service to environmental protection (2009), and the Prix d'Excellence (2011), the highest honor awarded by the International Council for the Exploration of the Seas (ICES). He has received honorary doctorates from the Université de Québec à Montréal (Canada) in 2010 and Utrecht University (The Netherlands) in 2012.

MONDAY PLENARY SESSION

12:00 – 13:30, Auditorium Federico García Lorca (Floor 0)

Jim Elser, ASLO President, School of Life Sciences, Arizona State University, Tempe, Arizona, USA

ASLO 2.0: reinventing ourselves to assure relevance, impact, and sustainability

Presentation Description: Just as aquatic ecosystems are experiencing an unprecedented period of impact and change, so is the scientific community, including its scholarly societies. Our aquatic sciences themselves are changing (becoming global, interdisciplinary, driven by

big data) while society's expectations for science and its communication and application are also undergoing radical transformation. The universe of scientific publication is also evolving in unpredictable ways (e.g. open access, journal proliferation) while traditional avenues of support for journals (e.g. library subscriptions) are eroding. To meet these demands, ASLO has undergone an extended series of external and internal reviews and assessments. Growing out of this process is a transformation of ASLO ("ASLO 2.0"). In this talk Elser will describe these exciting changes, some of which are completed, some of which are underway as we speak, and some of which will appear in the near future. ASLO 2.0: yet more powerful, more fun, more rewarding than ever before!



Roman Stocker, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

The microscale biophysics of ocean microbes

Presentation Description: Aquatic microorganisms live and interact at the microscale. Yet, our knowledge of the exceedingly important ecosystem functions they play is based mostly on human-scale

sampling approaches: rarely has their ecology been accessible at the level of single cells and their microenvironment. This barrier is due both to technical difficulties, given the minute scale and dynamic nature of many microbial processes, and to the counterintuitive physics that distinguishes the micro-scale from the macro-scale. Stocker will show how the combination of microfluidic technology to create controlled, realistic microenvironments, with real-time and high-speed microscopic imaging to capture dynamic micro-scale processes, provides a powerful approach to begin to understand the microscale biophysics of aquatic ecosystems. He will illustrate this approach by presenting our recent efforts to directly image and thereby quantify the encounters between cyanobacteria and viruses, the chemotactic clustering of heterotrophic bacteria around individual diatoms, the unexpected micro-flows on a coral surface, and the microbial degradation of oil droplets and marine snow particles.

Biographical Information: Straddling microbial ecology and fluid mechanics, Roman Stocker's research has addressed a long-standing challenge in microbial oceanography: to study marine microbes in the context of their microenvironment. He has pioneered the use of microfluidic technology in microbial oceanography, creating microscale model systems of marine processes by generating controlled nutrient landscapes and flow conditions. Combined with high-resolution dynamic imaging, a focus on fundamental physical processes (diffusion, turbulence, settling, motility), and mathematical modeling, this approach has brought an unprecedented level of resolution and thereby a new perspective to the study of marine microorganisms and their interactions (Stocker, *Science* 2012). Contributions from his group include the first experimental study of particle plume utilization by marine bacteria (Stocker et al, *PNAS* 2008), a characterization of the signaling role of DMSP within the microbial loop (Seymour et al, *Science* 2010), a mechanism for the formation of thin phytoplankton layers (Durham et al, *Science* 2009), the discovery that fluid flow causes patchiness in the distribution of phytoplankton (Durham et al, *Science*

2010 & Nat Comm 2013) and bacteria (Rusconi et al, Nat Phys 2014), the high-speed imaging of a new motility mode in marine bacteria (Son et al, Nat Phys 2013), and the direct visualization of the fascinating fluid mechanics of a coral surface (Fernandez et al, Science 2014; Shapiro et al, PNAS 2014). His research group, which hinges on interdisciplinary expertise from engineers, microbiologists, physicists and oceanographers, currently focuses on microbial motility, cell growth, viral infection, coral disease, oil degradation, particle consumption, and bacteria-phytoplankton interactions. In his spare time, Stocker has studied the biophysics of how cats lap (Reis et al, Science 2010).

TUESDAY PLENARY SESSION

12:00 – 13:30, Auditorium Federico Garcia Lorca (Floor 0)



Scott Doney, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, USA

Changing coastal and open-ocean biogeochemistry in the Southern Ocean

Presentation Description: The Antarctic continental shelf and surrounding open-ocean waters of the Southern Ocean play important roles in marine biogeochemistry and the global carbon cycle.

Seasonally ice-covered coastal waters are often highly productive, exhibiting large spring and summer drawdowns of nutrients and carbon dioxide and supporting high densities of upper trophic level organisms. Off-shore waters are typically more iron limited with lower plankton standing stock and overall productivity. The Southern Ocean as a whole also acts as a large sink from the atmospheric of anthropogenic carbon dioxide, primarily associated with the offshore upwelling of circumpolar deepwater and formation of mode, intermediate and deep waters. Climate change and ocean acidification are projected to substantially alter future sea-ice distributions, seawater chemistry, and ocean/atmosphere circulation patterns that modulate Southern Ocean marine biogeochemistry. The talk will discuss observational, remote sensing and modeling evidence for changing conditions in the Southern Ocean. A specific focus will be on the western continental shelf of the Antarctic Peninsula, which is experiencing some of the most dramatic climate change on the planet, with rapid ocean-atmosphere warming, melting of coastal glaciers, reductions in seasonal ice cover, and shifts in phytoplankton distributions.

Biographical Information: Scott Doney is a Senior Scientist at the Woods Hole Oceanographic Institution (WHOI). His expertise spans oceanography, climate and biogeochemistry, with particular emphasis on the application of numerical models and data analysis methods to global-scale questions. Much of his research focuses on how the global carbon cycle and ocean ecology respond to natural and human-driven climate change, including ocean acidification. He has been a long term contributor to the Community Earth System Model. He is also actively involved in programs, including US Global Ocean Carbon and Repeat Hydrography, the REgional Carbon Cycle Assessment and Processes (RECCAP), and the Palmer (Antarctic) Long Term Ecological Research (LTER). He graduated with a PhD from the MIT/WHOI Joint Program in 1991, and he was at the National Center for Atmospheric Research from 1991 to 2002.



Anthony Turton, University of the Free State, Bloemfontein, South Africa

The Need for Transdisciplinarity Arising from the Holocene/Anthropocene Transition – Some Ideas from Water Conflict Resolution in South Africa

Presentation Description: While there is no consensus yet on the notion of the Anthropocene, there is a growing body of evidence to suggest that such a transition

has occurred. This talk will contextualize the notion of water stress and conflict as a logical product of the transition between two geological epochs (Holocene and Anthropocene). It will thus set the scene for a strategic level discourse on the science underpinning management of water biomes and oceanographic provinces, within the context of a major transition in geological timescales that is likely to result in a fundamental shift in all of the major assumptions on which current knowledge is based. Our transition to the Anthropocene has unlocked three key elements that need to be interrogated by academia if the science, engineering and technology community is required to respond appropriately. These three elements are:

- Acceleration in the rate of change to biophysical drivers.
- Increase in the complexity and interconnectedness of previously separate systems.
- Inappropriateness of our current response to the training of science, engineering and technology professionals.

This talk will unpack these three elements using examples from the gold mining industry in South Africa, where it will be argued that Holocene thinking has shaped a new generation of wicked problems that only an Anthropocenic approach is capable of solving.

Biographical Information: Anthony Turton holds a professorship in the Centre for Environmental Management at the University of Free State and is a founding director of the Ecological Engineering Institute of Africa. His current work is in the mining sector where he specializes in the development of strategies and technologies to mitigate the risk arising from the uranium contamination of Johannesburg and acid mine drainage (AMD) as the gold industry reaches the end of its productive life. He has pioneered the concept of closure mining that makes a business case for the rehabilitation of mining-impacted landscapes.

As a Trustee of the Water Stewardship Council of Southern Africa he encourages behavioral change through positive inducement. He is co-founder of the South African Water and Energy Forum (SAWEF) that introduced the notion of the Water-Energy-Food Nexus to the public domain. He is the past Vice President of the International Water Resource Association (IWRA) and a past Deputy Governor of the World Water Council. He currently serves as Editor of the international journal "Water Policy" and sits on the editorial boards of various technical journals including "Water International," "Water Alternatives," the "International Journal of Water Governance," and the Springer Verlag textbook series on water resource management. He has recently been appointed to the American Society of Mechanical Engineers as a contributing member to the Water and Energy Group Subcommittee on Innovative Water Conservation, Reuse and Recovery Technologies for a term ending in June 2019.

WEDNESDAY PLENARY SESSION

12:00 – 13:30, Auditorium Federico Garcia Lorca (Floor 0)



Tim Lenton, University of Exeter, College of Life and Environmental Sciences, Exeter, United Kingdom

An evolutionary ecology approach to modelling the marine ecosystem and its response to global change

Presentation Description: How should we model the response of ecosystems to global change? Current approaches typically treat organisms as black boxes with no adaptive capacity, yet organisms are continually acclimating to changing environmental conditions and populations are evolving – nowhere more so than in the marine microbial ecosystem. To try and better understand and simulate this, we have developed an evolutionary ecosystem model ('EVE'), which resolves the allocation of resources within individual phytoplankton cells that in turn form populations within the grid cells of a global ocean model. Phytoplankton traits and the crucial trade-offs between them are grounded in laboratory physiological measurements. The simulated physical environment then selects for successful phytoplankton growth strategies. This produces familiar patterns of phytoplankton cell size, and makes predictions of, for example, their N:P composition (the Redfield ratio).

Using the model we have been able to test the 'growth rate hypothesis' for variations in phytoplankton cellular N:P composition and identify locations where it is falsified. The approach also enables a closer link between models and 'omics' (molecular genetics) datasets. Specifically, we have examined how the temperature dependence of ribosome activity affects cellular resource allocation and N:P composition, making predictions for how phytoplankton N:P could change in a warming ocean.

Biographical Information: Tim Lenton is Professor of Climate Change and Earth System Science at the University of Exeter. His research focuses on understanding the behavior of the Earth as a whole system, especially through the development and use of Earth system models. He is particularly interested in how life has reshaped the planet in the past, and what lessons we can draw from this as we proceed to reshape the planet now – as detailed in his book with Andrew Watson on the 'Revolutions that made the Earth' (OUP, 2011). Tim's work identifying the tipping elements in the climate system won the Times Higher Education Award for Research Project of the Year in 2008. He has also received a Philip Leverhulme Prize in 2004, a European Geosciences Union Outstanding Young Scientist Award in 2006, the British Association Charles Lyell Award Lecture in 2006, the Geological Society of London William Smith Fund in 2008, and a Royal Society Wolfson Research Merit Award in 2013. Recently Tim has taught over 20,000 people on his massive open online course "Climate Change: Challenges and Solutions."



Amanda Vincent, University of British Columbia, Vancouver, BC, Canada

Imperfect advice or none at all

Presentation Description: There is no chance of perfect advice in ocean conservation and management. The choice is between imperfect advice and none at all. This realization should free ocean scientists to engage meaningfully

in the development and implementation of public policy. My talk will address the uncomfortable but pressing need for us to apply existing knowledge immediately, rather than simply calling for more research. My story draws from the journey to develop and implement pioneering global export controls on marine fishes under the Convention on International Trade in Endangered Species (CITES). Along the way, we plunged forward with trade evaluation, establishment of marine protected areas, management recommendations, and policy change. We were often at the very edge of our technical understanding. In the best spirit of adaptive management, however, rapid application of existing knowledge helped both to effect societal change and to guide further research.

Biographical Information: Amanda Vincent (@amandavincent1) is suffering from aquafobia and needs to spend more time underwater. She is now Professor in the Fisheries Centre at the University of British Columbia, Canada, after previous stints at Cambridge, Oxford and McGill. She directs Project Seahorse, a marine conservation team committed to conservation and sustainable use of the world's shallow coastal marine ecosystems. Its work includes ecological and social research, establishment of marine protected areas, fisheries and trade management, and development of integrated policy. Vincent holds a Pew Fellowship in Marine Conservation (the top award in the field), a Rolex Award for Enterprise and a Whitley Award, among other lovely honors. She has many international roles with the IUCN and CITES, spends lots of time in Southeast Asia --- and tries to take quick and effective action for the ocean.

THURSDAY PLENARY SESSION

12:00 – 13:30, Auditorium Federico Garcia Lorca (Floor 0)



Thorsten Dittmar, University of Oldenburg, Institute for Chemistry and Biology of the Marine Environment, Oldenburg, Germany

Fire in the ocean: black carbon in aquatic environments

Presentation Description: Fire has been an integral part of global biogeochemical cycles ever since vascular plants evolved on the continents. In the more recent history of Earth, humans have used fire extensively as a tool to shape Earth's vegetation. Wildfires produce a wide suite of black carbon moieties, ranging from slightly altered biopolymers that quickly decompose in soils and waters to charcoal. Today, global biomass burning generates an approximated 40–250 million tons of charcoal every year. Due to its particular chemical and physical properties, charcoal can be preserved over centuries and millennia in soils and sediments. After years of microbial attack in soils, however, charcoal becomes partially soluble, is lost from soils by leaching, and eventually enters the aquatic environment. The global flux of soluble charcoal to the oceans accounts to about 25–28 million tonnes carbon per year, which is ~10% of the global riverine flux of dissolved organic carbon (DOC). At the ocean's surface, dissolved black carbon is susceptible to photo-bleaching, but a fraction survives transport into the dark deep ocean. In the dark ocean, dissolved black carbon is the chemically most stable form of DOC known. It is stable over tens of thousands of years, and has accumulated there to >12,000 million tonnes of carbon. Fire is now recognized as an

important player in global biogeochemical cycles, impacting even the most remote regions of the abyssal ocean.

Biographical Information: Marine dissolved organic matter (DOM) is one of the largest carbon pools on Earth's surface. The stability of DOM over millennia is enigmatic and has fascinated Thorsten Dittmar from early on in his research career. Dittmar's research has revealed an unparalleled molecular diversity of DOM, and he uses this rich molecular archive in the ocean to gain novel insights into marine biogeochemical and microbiological processes. Dittmar is professor at the University of Oldenburg (Germany) and leads the Research Group for Marine Geochemistry that bridges between his home institute (Institute for Chemistry and Biology of the Marine Environment, ICBM) and the Max Planck Institute for Marine Microbiology (MPI Bremen, Germany). Dittmar gained his PhD in Marine Chemistry from the University of Bremen in 1999. Prior to being an Assistant Professor at Florida State University (2003–2008), he was a postdoctoral researcher at the Alfred Wegener Institute for Polar and Marine Research (AWI, Germany), at the Federal University of Pará (Belém, Brazil) and at the University of Washington (Seattle, USA). He returned to Germany in 2008 to lead the Max Planck Research Group for Marine Geochemistry, and became professor at the University of Oldenburg in 2013.



Tamara Galloway, University of Exeter, College of Life and Environmental Sciences, Exeter, United Kingdom

Microscopic Plastic Debris and Its Impact on Aquatic Ecosystems

Presentation Description: Global plastic production has risen rapidly over the past sixty years, and 10% of all discarded plastic waste is thought to end up in the oceans. There it can fragment, but takes centuries

to fully degrade. As a result, microplastics (small plastic detritus <1 mm diameter) have become a widespread pollutant, and are increasingly present in aquatic ecosystems (both freshwater and marine) across the globe.

This talk will bring together the latest research documenting the distribution of microplastics in the oceans, on shorelines and in coastal sediments, and provide evidence for bioaccumulation and the biological effects of microplastics ingestion on organisms from across the food web. Finally, it will discuss the potential ecological impacts of predicted increases in marine litter on different aspects of ecosystem function and biogeochemical processes, and how these effects may be influenced by interactions between plastics and biota.

Biographical Information: Tamara Galloway is professor of ecotoxicology at the University of Exeter and also holds an honorary chair at University of Exeter Medical School. Tamara's research focus is in understanding how organisms adapt and survive in polluted environments, and she studies the health effects of some of the most pressing priority and emerging pollutants: including complex organics, plastics and their additives, metals and nanoparticles. She receives funding from a wide range of competitive sources including NERC, BBSRC, Wellcome Trust, medical charities and industry groups both in the UK and internationally. She is an expert member of several (inter)/national committees charged with environmental protection and the promotion of translational research.

FRIDAY PLENARY SESSION

12:00–13:30, Auditorium Federico García Lorca (Floor 0)



Bess Ward, Princeton University, Department of Geosciences, Princeton, New Jersey, USA

Cryptic pathways of microbial nitrogen transformations in the ocean

Presentation Description: The major pathways of microbial N transformations have been known for more than a century. However, in recent years, recognition of important new pathways

and modifications of known pathways have changed our understanding of N cycling in the ocean. These lead to new mysteries and new angles on longstanding questions. For example, nitrate is recognized as the major inorganic N source for phytoplankton, but how phytoplankton manage to obtain and utilize nitrate at the very low concentrations at which it occurs in surface waters is unclear. Using natural abundance stable isotope methods and isotope tracer incubations, we are able to trace the differential utilization of nitrate and ammonium into different fractions of the natural phytoplankton assemblage. We find that the small eukaryotic phytoplankton appear to be nitrate specialists although the mechanisms they use to obtain nitrate are unknown. Another example of a lingering mystery is the distributions of nitrite and nitrous oxide in the oxygen minimum zones of the world oceans. While the processes that produce and consume these intermediate components of the nitrogen cycle are well known, just how they operate to maintain the maxima and minima features that characterize the OMZ water column is unknown. We find using tracer incubations and simple models that even these apparently static distributions are the result of rapid, nearly cryptic, cycling by microbial transformations.

Biographical Information: Bess Ward is a biological oceanographer who works on the microbial biogeochemistry of the marine nitrogen cycle. Her Ph.D. work at the University of Washington was on nitrification, at the time a little studied part of the N cycle. As a post doc and research scientist at Scripps Institution of Oceanography, she measured nitrification rates in many regions of the ocean and began working in oxygen minimum zones. She also investigated the oxidation of methane in seawater associated with the subsurface methane maximum in oxygenated seawater, and detected anoxic methane oxidation in the Cariaco Trench and the Black Sea. At the University of California at Santa Cruz, Ward began working on the molecular ecology of denitrification and established the interdisciplinary approach of molecular biology and isotope tracer biogeochemistry that she continues to this day. In the Department of Geosciences at Princeton University since 1998, she has focused on nitrogen cycling in oxygen gradient environments (oceans, lakes, sediments) and nitrogen utilization by phytoplankton. In both endeavors, she measures rates and distributions of N transformations and links those rates to the community composition and dynamics of the microbes responsible for the rates.



Peter Raymond, Yale School of Forestry and Environmental Studies, New Haven, Connecticut, USA

Drainage Networks as Reactors

Presentation Description: Inland waters are part of a global circulatory system, delivering terrestrial elements and water to the ocean. As early as the 15th century, da Vinci noted that this delivery system has components that are predictable and

provide an opportunity for scaling. Precipitation and discharge events have frequency and distribution curves. Drainage networks have self-similar properties that can be simplified using mathematical expressions. Streams have a hydraulic geometry that can be quantified and are similar across landscapes. These relationships will be presented in the context of drainage network biogeochemistry. Specifically, utilization of these relationships will be developed to demonstrate approaches to model DOM dynamics within a basin, including DOC fluxes off the landscape, reactions during transport and coastal export.

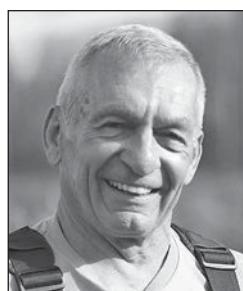
Biographical Information: Pete Raymond started studying carbon in the Hudson River as an undergrad with scientists at the Cary Institute of Ecosystem Studies. He earned a PhD from the Virginia Institute of Marine Science in 1999. He was awarded the CERF Cronin award for young scientists and an NSF CAREER grant. He has been a professor at the Yale School of Forestry and Environmental Studies for the last 12 years, where he is also the director of the Yale Analytical and Stable Isotope Center. His work focuses mainly on the controls of carbon chemistry of inland waters and estuaries. Most recently he is the lead PI on a NSF MacroSystems grant studying DOM dynamics in the Connecticut River.

ASLO SOCIETY AWARD PRESENTATIONS

ASLO 2015 society awards will be presented during the plenary sessions Monday through Friday.

Complete biographical information and award citations will be included in the May issue of the *L&O: Bulletin*.

MONDAY AWARD TALK



2015 A.C. Redfield Lifetime Achievement Award presented to David Schindler, Killam Memorial Chair and Professor of Ecology, Department of Biological Sciences, University of Alberta, Edmonton, Canada

About the Award: The Lifetime Achievement Award recognizes and honors major, long-term achievements in the fields of limnology and oceanography, including

research, education and service to the community and society. In 2004, the ASLO Board renamed the Lifetime Achievement Award in honor of Alfred C. Redfield. Emphasis in selection is given to established aquatic scientists whose work is recognized for its importance and long-term influence.

Recipient Biography: David W. Schindler received his doctorate from Oxford University, where he studied as a Rhodes Scholar. He has headed the International Joint Commission's Expert Committee on Ecology and Geochemistry and the US Academy of Sciences' Committee on the Atmosphere and the Biosphere. He has also served as the President of ASLO and as a Canadian National Representative to the International Limnology Society (SIL). Schindler has received many distinguished awards, including: Stockholm Water Prize; Rhodes Scholarship, Oxford University; G.E. Hutchinson Medal, ASLO; Naumann-Thienemann Medal, International Limnological Society; Volvo Environment Prize; Ruth Patrick Award; Tyler Prize for Environmental Achievement; Frank Rigler Award, Canadian Society of Limnologists; Romanowski Medal, Royal Society of Canada; Gerhard Herzberg Canada Gold Medal for Science and Engineering, Natural Sciences and Engineering Research Council (Canada); Killam Prize for Science, Canada Council for the Arts; and Officer of the Order of Canada. He has just recently retired from the University of Alberta where he held the Killam Memorial Professor of Ecology.

TUESDAY AWARD TALK



2015 G. Evelyn Hutchinson Award presented to Craig Carlson, Professor of Microbial Oceanography, Department of Ecology, Evolution and Marine Biology, Marine Science Institute, University of California, Santa Barbara

About the Award: The G. Evelyn Hutchinson Award has been presented annually since 1982 to recognize excellence in any aspect of limnology or oceanography. The award is intended to symbolize the quality and innovations toward which the society strives and to remind its members of these goals. In lending his name to the award, Hutchinson asked that recipients be scientists who had made considerable contributions to knowledge, and whose future work promised a continuing legacy of scientific excellence. The award is given to mid-career scientists for work accomplished during the preceding five to 10 years.

Recipient Biography: Craig Carlson was nominated based on his seminal contributions to the measurement and dynamics of dissolved organic carbon (DOC) and the roles of microbial communities in DOC cycling on short and long time-scales. This is Craig Carlson's second ASLO award, the first honoring him with the inaugural AGU Ocean Sciences Early Career award in 2002. He has developed an accurately mapped DOC variation, as well as linking it to the dynamics of microbial communities. The concepts developed by Carlson have become vital in understanding the ocean carbon cycle. His involvement in the beginning has been crucial as he observed temporal changes in DOC. Carlson started working on DOC early in his career where he began measuring temporal dynamics of DOC at the Bermuda Atlantic Time Series. These early findings for the first time made visible the contribution of DOC to the biological pump. His continued contribution to this research has stirred up invaluable data.

WEDNESDAY AWARD TALKS



2015 Ruth Patrick Award presented to James Cloern, Senior Research Scientist, U.S. Geological Survey, Menlo Park, California, USA

About the Award: The Ruth Patrick Award honors outstanding research by a scientist in the application of basic aquatic science principles to the identification, analysis and/or solution of important environmental problems. The award is given to aquatic scientists who have made either sustained contributions or a single, but critical contribution towards solving an environmental problem.

Recipient Biography: Dr. James Cloern is being acknowledged for his contributions to the scientific understanding and management of the world's estuaries. He has dedicated his career to understanding and elucidating the complexities of coastal ecosystems. His long-term analyses tracked the effects of the 1972 Federal Clean Water Act and informed dissolved oxygen standards for San Francisco Bay. A crowning achievement, Cloern and Jassby's 2012 paper illustrated the estuary's response to six primary agents of change and how detection of these trends catalyzed key policy actions. Dr. Cloern conceived of and organized the first international meeting on "Long Time-Series Observations in Coastal Ecosystems: Comparative Analyses of Phytoplankton Dynamics on Regional to Global Scales" (2007 AGU Chapman). His research has transformed our understanding of coastal ecosystem dynamics and shepherded strong management policies in San Francisco Bay and beyond.



2015 John Martin Award presented to Stephen Carpenter, Director of the Center for Limnology and Stephen Alfred Forbes Professor of Zoology, University of Wisconsin, Madison, Wisconsin, USA

For S. R. Carpenter, J.F. Kitchell, and J.R. Hodgson for transforming our view of food web regulation and making a compelling case for "top-down" regulation of primary productivity. The paper was published in *BioScience*. 1985. 35:634-639.

About the Award: The John Martin Award recognizes a paper in aquatic sciences that is judged to have had a high impact on subsequent research in the field. The model for such a paper is Martin et al (1991), which laid out the case for iron limitation of phytoplankton productivity in the ocean. The Martin Award is for papers at least 10 years old.

Recipient Biography: Stephen Carpenter transformed our views on food web regulations through designing a compelling case for "top-down" regulation of primary productivity. Carpenter's seminal paper "Cascading trophic interactions and lake productivity" is the root of this influence and has argued that top predators such as fish could regulate the biomass and productivity of lower trophic levels, cascading all the way down to phytoplankton. His paper also gave awareness to the distinction of how consumers regulate the biomass vs. the productivity of lower trophic levels. While the main focus of his paper influenced research on lakes, it would also expand research and studies in streams,

coastal and pelagic marine systems, as well as terrestrial ecosystems. The Carpenter et al paper is clearly one of the most important "triggers" responsible for this shift to a new paradigm.

THURSDAY AWARD TALKS



2015 Raymond L. Lindeman Award presented to Hilary G. Close, Assistant Researcher, Department of Geology and Geophysics, University of Hawai'i at Manoa, Honolulu, Hawai'i USA

For important and novel insights about the export of submicron particulate organic matter into the deep ocean, presented in her paper entitled, "Export of submicron particulate organic matter to mesopelagic depth in an oligotrophic gyre" - *Proceedings of the National Academy of Sciences* (2013)

About the Award: This annual award in honor of Raymond L. Lindeman (1915-1942) was first presented in 1987 to recognize an outstanding paper written by a young aquatic scientist 35 years of age or less.

Recipient Biography: This award recognizes the work Hilary conducted in the North Pacific subtropical gyre that was presented in the paper entitled, "Export of submicron particulate organic matter to mesopelagic depth in an oligotrophic gyre," published in *Proceedings of the National Academy of Sciences* in 2013. This paper makes an important and unique contribution to aquatic sciences for the novel insights it provides about the export of the "extra-small" fraction of particulate organic matter. Hilary has become an emerging intellectual leader in efforts to understand the transformation of POM in the marine carbon and nitrogen cycles. Insights from the study she participated in could have significant implications for the responsiveness of the global carbon cycle to climate change, especially as the ecosystems dominated by picoplankton are expected to expand with warming ocean temperatures.



2015 Ramón Margalef Award for Excellence in Education to Marianne V. Moore, Frost Professor in Environmental Science and Professor of Biological Sciences, Wellesley College, Wellesley, Massachusetts, USA

About the Award: This award is targeted toward ASLO members at any stage in their careers and is presented to the ASLO member who best exemplifies the highest standards of excellence in education. The Ramón Margalef Award for Excellence in Education was first presented in 2009 and is presented annually.

Recipient Biography: Marianne Moore received her Ph.D. in aquatic ecology from Dartmouth and moved to Wellesley College as assistant professor of biological sciences in 1988. At Wellesley, she has taught courses at all levels of the curriculum. Marianne has offered her students the opportunity to gain experience in independent inquiry. She has been the recipient of both of Wellesley's major teaching awards. Moore's research focuses on the effects of abiotic factors altered by humans on communities in freshwater lakes. Her goal for this work is to determine whether the genetic and phenotypic diversity of endemic

plankton species in Lake Baikal will allow them to adapt and persist as climate changes, or whether they will be replaced by warm water cosmopolitan species. Results from this project should help predict the ways in which climate change is likely to affect ecosystems with many endemic species.

FRIDAY AWARD TALK



2015 Yentsch-Schindler Early Career Award presented to Matthew Church, Associate Professor, Department of Oceanography, University of Hawai'i at Manoa, Honolulu, Hawai'i, USA

About the Award: In 2012, the ASLO Board initiated a new annual award in honor of early career scientists. The Yentsch-Schindler Early Career Award honors an aquatic scientist within 12 years

of the completion of their terminal degree, for outstanding and balanced contributions to research, science training, and broader societal issues such as resource management, conservation, policy, and public education. The award was presented for the first time in 2013.

Recipient Biography: Matthew Church received his M.S. and Ph.D. degrees from the College of William and Mary. Much of Church's Ph.D. research was conducted at the University of Hawaii in collaboration with the JGOFS-Hawaii Ocean Time-series (HOT) program. In 2004, he joined the HOT program as a staff scientist and a few years later he earned a tenure-track position as Assistant Professor of Oceanography. In 2011, he was promoted to Associate Professor. Since 2009 he has served as lead P.I. of the HOT program. He is also a senior investigator in the Center for Microbial Oceanography: Research and Education (C-MORE) and an inaugural investigator in the recently established Simons Collaboration on Ocean Processes and Ecology (SCOPE).

ABOUT THE CONFERENCE MEETING SITE

All activities will take place at the Granada Congress and Exhibition Centre (*Palacios de Exposiciones y Congresos de Granada*) unless otherwise noted.

CONGRESS CENTRE ADDRESS

The destination address for GPS or online mapping is as follows:

Granada Congress and Exhibition Centre (*Palacios de Exposiciones y Congresos de Granada*)
Paseo del Violón, S/N
18006 - Granada

CONCESSIONS AT THE CONGRESS CENTRE

Food items will be available for cash purchase at the Congress Centre. Cash bars also will be open.

Sunday:	Open at 20:00
Monday:	09:00 to 22:00
Tuesday, Wednesday, Thursday:	09:00 to 20:00
Friday:	09:00 to 19:00

INTERNET ACCESS

Complimentary wireless Internet access is limited but is available at the Congress Centre in all public areas. To connect to Wi-Fi at the convention center you should enable your wireless access on your device. You will connect to the network using the following:

SSID: Aslo2015
Password: Aslo2015

TRANSPORTATION AND DRIVING IN GRANADA

The following web site includes good information on transportation options in Granada. This site has maps of Granada, city bus information, tickets and fares, travel cards, timetables, telephone numbers, related web pages, notes on parking, taxis, trains and air travel.

<http://www.lovegranada.com/granada-transport/>

PARKING

A parking facility is located next door to the Congress Centre. It has a capacity of 350 cars, and the rates are 17 euros per day and 45 euros for a week. One hour of parking is 1,2 euros.

CONFERENCE REGISTRATION AND CHECK IN

Registration and check in for the meeting will be available all week in the foyer area outside the Auditorium Federico Garcia Lorca on Floor 0. Please check in upon your arrival at the meeting in order to receive your name badge and other important materials and information.

In order to facilitate easier check in at the meeting, it is very important that you bring a copy of the email confirmation that you received when you registered and a copy of the email message that you received in February with your name badge information. This will allow us to locate your name badge quickly and efficiently. Badges are filed alphabetically under the last name (family name) as entered and included on those messages.

REGISTRATION DESK HOURS:

Sunday, 22 February 2015 15:00 to 20:00
Monday, 23 February through Friday, 27 February 2015 08:00 to 18:00

MESSAGE BOARDS

There will be a message board located near the conference registration desk area where you may post or check for messages throughout the conference.

ADA STATEMENT/SPECIAL NEEDS

If you have a disability or limitation that may require special consideration in order to ensure your full participation in this meeting, please see a staff person at the conference registration desk. You also may send an email to business@aslo.org prior to your arrival at the meeting.

COFFEE BREAKS

Coffee breaks are planned Monday through Friday from 10:00 to 10:30 and in the afternoon from 16:30 to 17:00. Complimentary coffee and tea will be served. Water will be provided in coolers, and attendees are encouraged to bring their own water bottles. Breaks will be set on different floors and various locations.

LUNCH AND DINNER IN GRANADA

Restaurants tend to start serving their lunch menu about 13:00 and most close for lunch diners between 15:00 and 16:00. In the evenings, no one in Spain goes out to dinner any earlier than 21:00. Most restaurants will continue serving until approaching midnight, some later. Plan your evening meals to arrive before 23:00 if you want to be sure of not going to bed hungry. The meeting schedule has been planned around the meal times observed by the Spanish culture.

EXHIBITORS

Exhibitors will set up Tuesday, 24 February, from 08:00 to 12:00. The exhibits will be open over the following days and times:

Tuesday, 24 February	12:00 to 20:00
Wednesday, 25 February	12:00 to 20:00
Thursday, 26 February	12:00 to 20:00

Attendees will have access to the exhibit area during the hours listed above. Additionally, morning and afternoon coffee breaks and poster sessions will be set in the area, as well.

Exhibitors will need to tear down on Friday, 27 February, from 08:00 to 12:00.

ASLO 2015 EXHIBITOR ROSTER

(as of 27 January 2015)

ASLO (Stand E1)

5400 Bosque Blvd., Suite 680
Waco, Texas 76710
USA
Contact: Helen Schneider Lemay
Phone: 1-254-776-3550
Fax: 1-254-776-3767
Email Address: business@aslo.org

Wiley/L&O (Stand E3 & E5)

9600 Garsington Road
Oxford, OX4 2DQ
United Kingdom
Contact: Anne Weston
Phone: +44 (0)1865 476380
Email Address: aweston@wiley.com

AIL (Stand E14)

Associación Ibérica de Limnología
Contact: Antonio Camacho
Email Address: antonio.camacho@uv.es

Alpha Mach Inc. (Stand E11)

101-2205 Bombardier
Sainte-Julie, Quebec J3E 2J9

Canada

Contact: Uranian Valcéanu
Phone: 450-446-3153 ext.101
Fax: 450-649-0303
Email Address: uval@alphamach.com
URL: <http://www.alphamach.com>

CEI-MAR (Stand E4)

Campus de Excelencia International del Mar
Contact: Fidel Echevarria
Email Address: fidel.echevarria@uca.es

DHI (Stand E17)

Agern Alle 5
Hoersholm AE 2970
Denmark
Contact: Merete Allerup
Phone: 45169558
Email Address: mea@dhigroup.com
URL: <http://www.labproducts.dhigroup.com>

Elsevier (Stand E7 & E8)

Radarweg 29
Amsterdam, GA North-Holland 1043- NX
Netherlands
Contact: Luaine Bandounas
Phone: 31 20 4853003
Fax: 31 20 4852521
Email Address: a.olfers@elsevier.com
URL: <http://www.elsevier.com>

Fluid Imaging Technologies (Stand E15)

200 Enterprise Drive
Scarborough, Maine 04074
USA
Contact: Harry Nelson
Phone: 207-289-3200
Email Address: harry@fluidimaging.com
URL: <http://www.fluidimaging.com/index.htm>

Frontiers (Stand E27)

EPFL Innovation Park, Building I
Lausanne, AE 1015
Switzerland
Contact: Kevin Baumer
Phone: +41 (21) 510 1700
Email Address: kevin.baumer@frontiersin.org
URL: <http://www.frontiersin.org>

Heinz Walz GmbH (Stand E18)

Department: Support & Development
Eichenring 6
Effeltrich, AEBavaria 91090
Germany
Contact: Oliver Meyerhoff
Phone: +49-(0)9133 7765-0
Fax: +49-(0)9133 5395
E-Mail Address: omeyerhoff@walz.com
URL: <http://www.walz.com/>

Hydroptic (Stand E26)

8 Avenue du Commandant Taillefer
Isle-en-Dodon 31230
France
Contact: Jerome Coindat
Phone: +0033 6739 95790
Fax: +0033 5618 93788
Email Address: jerome.coindat@hydroptic.com
URL: <http://www.hydroptic.com/>

JFE Advantech Co., Ltd (Stand E16)

3-48, Takahata-cho,
Nishinomiya, Hyogo 663-8202
Japan
Contact: Hua Li
Phone: 81-798-661783
Fax: 81-798-661654
Email Address: lihua@jfe-advantech.co.jp
URL: <http://www.jfe-advantech.co.jp/eng/ocean/index.html>

McLane Research Laboratories, Inc. (Stand E24)

121 Bernard E Saint Jean Drive
East Falmouth, MA 02536
USA
Contact: Kelso Riddell
Phone: 1-508-495-4000
Email Address: mclane@mclanelabs.com
URL: <http://www.mclanelabs.com>

Oxford University Press (Stand E23 & E25)

Great Clarendon Street
Oxford, BCN/A OX2 6DP
United Kingdom
Contact: Alistair Shand
Phone: +44 (0)1865 353117
Email: jnls.mkt@oup.com
Email: gab.exhibitions.uk@oup.com
URL: <http://www.oup.com>

Picarro, Inc. (Stand E13)

3105 Patrick Henry Drive
Santa Clara, CA 95054
USA
Contact: Kate Dennis
Phone: 408-962-3965
E-Mail Address: kdennis@picarro.com
URL: <http://www.picarro.com>

Pyro Science GmbH (Stand E19)

Hubertusstr, 35
Aachen AE 52064
Germany
Contact: Dr. Andrea Wieland
Phone: +49 (0)241 4004 555
Email Address: info@pyro-science.com
URL: <http://www.pyro-science.com/>

Rockland Scientific (Stand E10)

520 Dupplin Road
Victoria, British Columbia V8Z1C1
Canada
Contact: Jeremy Hancyk
Phone: 250-370-1688
Email Address: jeremy@rocklandsscientific.com
URL: <http://www.rocklandsscientific.com>

SIDMAR, Estudios y Servicios Oceanográficos, S.L. (Stand E20 & E22)

c/Watt, n°9, Polígono Industrial La Pedrera
Benissa, Alicante 03720
Spain
Contact: José María Cortés
Phone: +34 965731073
Fax: +34 965733982
Email Address: jcortes@sidmar.es
URL: <http://www.sidmara.es>

SIL (Stand E6)

International Society of Limnology
Contact: Roberto Bertoni
Email Address: r.bertoni@ise.cnr.it
Contact: Yves Prairie
Email Address: prairie.yves@uqam.ca
URL: <http://www.limnology.org/>

Springer SBM (Stand E9)

Van Godewijkstraat 30
Dordrecht
ALZuid Holland 3311GX
Neatherlands
Contact: Alexandrine Cheronet
Phone: 0627024156
Email Address: alexandrine.cheronet@springer.com
URL: <http://www.springer.com/>

The Royal Society (Stand E21)

6-9 Carlton House Terrace
AE SW1Y 5AG
United Kingdom
Contact: Emilie Aimé
Phone: 00442074512623
E-Mail Address: emilie.aime@royalsociety.org
URL: <http://royalsocietypublishing.org/>

Unisense A/S (Stand E12)

Tueager 1
Aarhus, AE DK-8200
Denmark
Contact: Dr. Thomas Rattenborg
Phone: +45 89449500
Email Address: tr@unisense.com
URL: <http://www.unisense.com>

Universidad de Granada (Stand E2)

Contact: Isabel Reche Cañabate
Phone: +34 958 241000 Ext 20018
Email Address: ireche@ugr.es

OPTIONAL EVENTS AND ACTIVITIES

ALHAMBRA NIGHT TIME TOUR

Date: Tuesday, 24 February

Departure Information: Buses will be located between the Congress Centre and the Saray Hotel. Attendees will board buses from this location.

Departure Time: 20:00

Return: Buses will return to Congress Centre at the conclusion of the event.

The Alhambra will be open exclusively to ASLO guests for this very special evening. A walk around the Alhambra, declared a World Heritage by UNESCO, is a required activity for every visitor of the city of Granada. Furthermore, it's a work of art, complete with elaborate rooms, by its monumental and historic position on the landscape or by the special charm of its exquisitely detailed Islamic art and architecture. Visiting the Alhambra at night is truly a unique and memorable experience. There really is something magical about viewing its magnificent architecture fully lit up under a peaceful Andalusian night sky. Walk by the Nasrid Palaces and the Palace of Charles V in the quiet and relaxed atmosphere of the night. With our guided-tour of Alhambra, you'll have at your disposal official tourist guides and expert interpreters of Granada's heritage. You will be guided through the "red fortress," and they will answer any questions that you may have about this spectacular monument. The fee includes transportation to and from the Congress Centre, entrance fees, and tour guides. No food or beverage is included. Price: \$40 USD per person. **Advance registration is required.**

Plan to dress warmly for the tour of the Alhambra. Evenings are very cool. We also recommend that you wear comfortable walking shoes.

DINNER AT LA CHUMBERA RESTAURANTE, SACROMONTE, GRANADA

Dates: Wednesday, 25 February, and Thursday, 26 February

Departure Information: Buses will be located between the Congress Centre and the Saray Hotel. Attendees will board buses from this location.

Departure Time: 20:00

Return: Buses will return to Congress Centre at the conclusion of the event.

Each evening is limited. We are not able to offer a refund if you sign up and then later determine that you cannot participate in this activity.

The Sacromonte is a legendary hill with beautiful caves and breathtaking views of the Alhambra. La Chumbera is a large restaurant and offers exquisite Arabo-Andalusian cuisine. You also will experience the talents of Zambra (the flamenco dancers). This dinner outing will include transportation from the conference center in Granada and return, wine and soft drinks plus a lovely dinner menu. Attendance is very limited, therefore two evenings are offered. Price: \$90 USD per person. **Advance registration is required.**

CLOSING BANQUET AT LA MAMUNIA

Date: Friday, 27 February

Departure Information: Buses will be located between the Congress Centre and the Saray Hotel. Attendees will board buses from this location.

Departure Time: 19:45

Return: Buses will return to Congress Centre at the conclusion of the event.

ASLO will close out the 2015 meeting in Granada, Spain, in grand style with a closing banquet at La Mamunia. Once you enter the main gate of La Mamunia you will be transported to the Nazarí Universe where the Galan and Jasmine aroma will mix with a shower of petals accompanied by the charming movements of the Sultan's belly Dancers. Guests will pass through the fire of the torches for tasting the most varied and exotic flavors of Al - Andalus. Beautifully tented in a garden setting, the venue has been reserved for this optional event. We are sure you will want to join fellow attendees in a wonderful dinner, wine, beer and soft drinks and, of course, a warm welcome by local belly dancers. Transportation to and from the venue from the Congress Centre is included. Price: Professionals: \$70 USD per person. Students and children: \$40 USD per person. **Advance registration is required.**

OTHER OPTIONAL TOURS AND SOCIAL EVENTS

OPTIONAL TOUR - WINE TASTING AT OLEUM RESTAURANT

Dates: Monday, 23 February, and Wednesday, 25 February, and Thursday, 26 February

Time: 20:30 to 22:00

Location: Off-site

Have a taste of Spanish wines from the most outstanding quality wine regions of Spain. Experience and taste hand-sliced Iberian ham with a cool sherry wine. Three other wine glasses from Granada, Ribera del Duero and Rioja will be served with a high quality tapa by a knowledgeable friendly sommelier. Oleum restaurant is a pleasant place with a lovely atmosphere nearby the Congress Centre. **Each evening is limited to the first 70 requests, and advance sign up was required.**

This is a non-seated event that will start by 20:30 and last for an hour and a half. Participants will meet at the restaurant. A map is available at: http://sgmeet.com/aslo/granada2015/social_events.asp

OPTIONAL TOUR – TAPAS TOUR

Dates: Wednesday, 25 February, and Thursday, 26 February

Time: 20:00

Location: Meet at Registration Desk. Tour participants will talk together to spots listed.

Discover the best places in town for tapas while you experience the essence of this enchanting Andalusian city. Students and staff from the University of Granada will guide you to local spots with great character in the coziest neighborhoods of the city. Share tapas and interact with other attendees in a relaxed atmosphere.

Tours both evenings will start at 20:30 in front of the Registration Desk.

- Tour 1-Albaizín. The ancient Moorish quarter, a World Heritage Site by the UNESCO
- Tour 2-Realejo. The Jewish district
- Tour 3-Center. The Arab bazaar and cathedral district
- Tour 4-City hall. Trendy places at the congress surrounding.
- Tour 5-Congress surrounding.

Each tour is limited to a maximum of 10 persons. **Advance sign up was required.**

MEETING SCHEDULE

All events are at the Granada Congress and Exhibition Centre (*Palacios de Exposiciones y Congresos de Granada*) unless otherwise noted.

SATURDAY, 21 FEBRUARY 2015

08:00 to 17:00	ASLO Board Meeting	Saray Hotel-Lindaraja Room
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SUNDAY, 22 FEBRUARY 2015

08:00 to 16:00	ASLO Board Meeting	Saray Hotel-Lindaraja Room
08:00 to 17:00	Workshop: East meets West: Trans-Atlantic Aquatic Invasions of North America and Europe (Invitation only)	Andalucia 3 (Floor 1)
09:30 to 17:00	Workshop: Environmental Controls on Marine Nitrogen Fixation (Invitation only)	Seminario 3-4-5 (Floor 1)
09:30 to 14:00	Meeting of the Iberoamerican Limnological Societies	Seminario 6-7 (Floor 1)
10:00 to 13:00	Workshop: CONNECTION: Make Your Science Communication More Effective through "Critical Storytelling" - Part A	Andalucia 2 (Floor 1)
12:00 to 16:00	Workshop: Writing and Publishing a Scientific Paper (Organized by the Youth of the Iberian Limnological Society (J-AIL)	Machado (Floor -2)
14:00 to 17:00	Workshop: CONNECTION: Make Your Science Communication More Effective through "Critical Storytelling" - Part B	Andalucia 2 (Floor 1)
14:00 to 17:00	Workshop: Science Education	Picasso (Floor -2)
12:00 to 17:00	Day Care Room	Seminario 8 (Floor 1)
12:00 to 20:00	Mentor Room	VIP Restaurant (Floor 2)
12:00 to 20:00	Malaspina Circumnavigation Expedition Exhibit	Foyer (Floor -3)
12:00 to 22:30	Literature Tables	Floor 1
15:00 to 21:00	Speaker / Presentation Room	Seminario 1-2 (Floor 1)
15:00 to 20:00	Registration Open	Auditorium Federico Garcia Lorca Foyer (Floor 0)
16:00 to 17:00	ASLO MP Mentor Meeting	Room B (Floor -3)
16:00 to 17:00	Student Volunteer Training #1	Meet at registration desk, Lorca Foyer
17:00 to 19:00	Opening Session Opening Remarks by James J. Elser, ASLO President Welcome Remarks by D. Francisco González Lodeiro, UGR President Public Lecture by Narcis Prat Opening Keynote Address by Carlos M. Duarte	Auditorium Federico Garcia Lorca (Floor 0)
17:00 to 19:00	Plenary Overflow	Auditorium Manuel de Falla (Floor 1)
19:00 to 19:30	Student Volunteer Training #2	Meet at registration desk, Lorca Foyer
19:00 to 20:30	Opening Reception	Foyer Area (Floor 0)

MONDAY, 23 FEBRUARY 2015

07:00 to 19:00	Speaker/Presentation Room	Seminario 1-2 (Floor 1)
07:00 to 20:30	Literature Tables	Floor 1
08:00 to 18:00	Registration Open	Auditorium Federico Garcia Lorca Foyer (Floor 0)
08:00 to 20:00	Mentor Room	VIP Restaurant (Floor 2)
08:00 to 20:00	Day Care Room	Seminario 8 (Floor 1)
08:00 to 20:00	Malaspina Circumnavigation Expedition Exhibit	Foyer (Floor -3)
08:30 to 10:00	Concurrent Sessions	Various Locations
10:00 to 10:30	Coffee Break	Various Locations
10:30 to 12:00	Concurrent Sessions	Various Locations

12:00 to 13:30	ASLO Award Talk and Plenary Speakers Plenary Presentation: Jim Elser Redfield Lifetime Achievement Award: David Schindler Plenary Presentation: Roman Stocker	Auditorium Federico Garcia Lorca (Floor 0)
12:00 to 13:30	Plenary Overflow	Auditorium Manuel de Falla (Floor 1)
12:00 to 18:00	Posters Set Up	Floors 1 & 2
13:30 to 15:00	Lunch (On your own)	
13:30 to 15:00	L&O Editors & Publishers Forum	Auditorium Manuel de Falla (Floor 1)
14:30 to 15:00	Guided Tour of Malaspina Exhibit	Foyer (Floor -3)
15:00 to 16:30	Concurrent Sessions	Various Locations
16:30 to 17:00	Coffee Break	Various Locations
17:00 to 18:30	Concurrent Sessions	Various Locations
18:30 to 20:00	ASLO Business Meeting / ASLO Membership Forum	Auditorium Manuel de Falla (Floor 1) / Foyer
20:00 to 22:00	ASLO Student Mixer	Restaurant Area 1 (Floor 0)
20:00 to 22:00	ASLO Early Career Mixer	Restaurant Area 2 (Floor 0)

TUESDAY, 24 FEBRUARY 2015

06:45 to 07:30	Sunrise Jog Around Granada	Teatro Isabel La Catolicat
07:00 to 19:00	Speaker / Presentation Room	Seminario 1-2 (Floor 1)
07:00 to 20:30	Literature Tables	Floor 1
08:00 to 12:00	Exhibit Set Up	Floor 1
08:00 to 12:00	Poster Set Up	Floors 1 & 2
08:00 to 18:00	Registration Open	Auditorium Federico Garcia Lorca Foyer (Floor 0)
08:00 to 20:00	Mentor Room	VIP Restaurant (Floor 2)
08:00 to 20:00	Day Care Room	Seminario 8 (Floor 1)
08:00 to 20:00	Malaspina Circumnavigation Expedition Exhibit	Foyer (Floor -3)
08:30 to 10:00	Concurrent Sessions	Various Locations
10:00 to 10:30	Coffee Break	Various Locations
10:30 to 12:00	Concurrent Sessions	Various Locations
12:00 to 20:00	Exhibits and Posters Open	Floors 1 & 2
12:00 to 13:30	ASLO Award Talk and Plenary Speakers G. Evelyn Hutchinson Award: Craig Carlson Plenary Presentation: Scott Doney Plenary Presentation: Anthony Turton	Auditorium Federico Garcia Lorca (Floor 0)
12:00 to 13:30	Plenary Overflow	Auditorium Manuel de Falla (Floor 1)
13:30 to 15:00	Lunch (On your own)	
13:30 to 15:00	Workshop: Snap It Up	Albeniz (Floor -2)
13:30 to 15:00	Workshop: Teaching Aquatic Science	Room C (Floor -3)
	<i>(Snap It Up & Teaching Aquatic Science: All attendees invited. These are also Student Career Development Workshops - students encouraged to attend)</i>	
14:00 to 15:00	National Science Foundation Town Hall	Picasso (Floor -2)
14:30 to 15:00	Guided Tour of Malaspina Exhibit	Foyer (Floor -3)
15:00 to 16:30	Concurrent Sessions	Various Locations
16:30 to 17:00	Coffee Break	Various Locations
17:00 to 18:30	Concurrent Sessions	Various Locations

18:30 to 20:00	Poster Session and Reception	Floors 1 & 2
20:00 to 21:00	Workshop: iMicrobe: A Cyberinfrastructure to Support Research in Microbial Ecology	Machado (Floor -2)
20:00 to 22:30	Tour of Alhambra (Optional) (Board buses between Congress Centre and Saray Hotel)	Off-site (Buses depart at 20:00)

WEDNESDAY, 25 FEBRUARY 2015

06:45 to 07:30	Sunrise Jog around Granada	Teatro Isabel La Catolicat
07:00 to 19:00	Speaker / Presentation Room	Seminario 1-2 (Floor 1)
07:00 to 20:30	Literature Tables	Floor 1
08:00 to 18:00	Registration Open	Auditorium Federico Garcia Lorca Foyer (Floor 0)
08:00 to 20:00	Mentor Room	VIP Restaurant (Floor 2)
08:00 to 20:00	Day Care Room	Seminario 8 (Floor 1)
08:00 to 20:00	Malaspina Circumnavigation Expedition Exhibit	Foyer (Floor -3)
08:30 to 10:00	Concurrent Sessions	Various Locations
10:00 to 10:30	Coffee Break	Various Locations
10:30 to 12:00	Concurrent Sessions	Various Locations
12:00 to 20:00	Exhibits and Posters Open	Floors 1 & 2
12:00 to 13:30	ASLO Award Talks and Plenary Speakers Ruth Patrick Award: James Cloern John Martin Award: Stephen Carpenter Plenary Presentation: Tim Lenton Plenary Presentation: Amanda Vincent	Auditorium Federico Garcia Lorca (Floor 0)
12:00 to 13:30	Plenary Overflow	Auditorium Manuel de Falla (Floor 1)
13:30 to 15:00	Lunch (On your own)	
13:30 to 15:00	Early Career Workshop: Marie Curie Fellowships	Room B (Floor -3)
13:30 to 15:00	Panel Discussion: What can you do and should not do to inform the public about environmental problems	Auditorium Manuel de Falla (Floor 1)
14:30 to 15:00	Guided Tour of Malaspina Exhibit	Foyer (Floor -3)
15:00 to 16:30	Concurrent Sessions	Various Locations
16:30 to 17:00	Coffee Break	Various Locations
17:00 to 18:30	Concurrent Sessions	Various Locations
18:30 to 20:00	Poster Session and Reception	Floors 1 & 2
20:00 to 22:00	Town Hall: Expanding the U.S. Network of Coastal Ocean Ecosystem LTER's ?	Andalucia 3 (Floor 1)
20:00 to 23:00	Dinner at La Chumbera (Optional) (Board buses between Congress Centre and Saray Hotel. Return time is approximate.)	Off-site (Buses depart at 20:00)

THURSDAY, 26 FEBRUARY 2015

06:45 to 07:30	Sunrise Jog around Granada	Teatro Isabel La Catolica
07:00 to 19:00	Speaker/Presentation Room	Seminario 1-2 (Floor 1)
07:00 to 20:30	Literature Table	Floor 1
08:00 to 18:00	Registration Open	Auditorium Federico Garcia Lorca Foyer (Floor 0)
08:00 to 20:00	Mentor Room	VIP Restaurant (Floor 2)
08:00 to 20:00	Day Care Room	Seminario 8 (Floor 1)
08:00 to 20:00	Malaspina Circumnavigation Expedition Exhibit	Foyer (Floor -3)
08:30 to 10:00	Concurrent Sessions	Various Locations

10:00 to 10:30	Coffee Break	Various Locations
10:30 to 12:00	Concurrent Sessions	Various Locations
12:00 to 20:00	Exhibits and Posters Open	Floors 1 & 2
12:00 to 13:30	ASLO Award Talks and Plenary Speakers Raymond L. Lindeman Award: Hilary G. Close Ramón Margalef Award for Excellence in Education: Marianne V. Moore Plenary Presentation: Thorsten Dittmar Plenary Presentation: Tamara Galloway	Auditorium Federico Garcia Lorca (Floor 0)
12:00 to 13:30	Plenary Overflow	Auditorium Manuel de Falla (Floor 1)
13:30 to 15:00	Lunch (On your own)	
13:30 to 15:00	Student Workshop: Scientific Speed Networking	Restaurant Area 2 (Floor 0)
14:00 to 15:00	Town Hall: Bioinvasions in the Mediterranean and the Enlargement of the Suez Canal	Andalucia 1 (Floor 1)
14:30 to 15:00	Guided Tour of Malaspina Exhibit	Foyer (Floor -3)
15:00 to 16:30	Concurrent Sessions	Various Locations
16:30 to 17:00	Coffee Break	Various Locations
17:00 to 18:30	Concurrent Sessions	Various Locations
18:30 to 20:00	Poster Session and Reception	Floors 1 & 2
20:00 to 23:00	Dinner at La Chumbera (Optional) (Board buses between Congress Centre and Saray Hotel. Return time is approximate.)	Off-site (Buses depart at 20:00)

FRIDAY, 27 FEBRUARY 2015

07:00 to 19:00	Speaker / Presentation Room	Seminario 1-2 (Floor 1)
07:00 to 20:30	Literature Tables	Floor 1
08:00 to 12:00	Poster and Exhibit Teardown	Floors 1 & 2
08:00 to 18:00	Registration Open	Auditorium Federico Garcia Lorca Foyer (Floor 0)
08:00 to 20:00	Mentor Room	VIP Restaurant (Floor 2)
08:00 to 20:00	Day Care Room	Seminario 8 (Floor 1)
08:00 to 20:00	Malaspina Circumnavigation Expedition Exhibit	Foyer (Floor -3)
08:30 to 10:00	Concurrent Sessions	Various Locations
10:00 to 10:30	Coffee Break	Various Locations
10:30 to 12:00	Concurrent Sessions	Various Locations
12:00 to 13:30	ASLO Award Talk and Plenary Speakers Yentsch-Schindler Early Career Award: Matthew Church Plenary Presentation: Bess Ward Plenary Presentation: Peter Raymond	Auditorium Federico Garcia Lorca (Floor 0)
12:00 to 13:30	Plenary Overflow	Auditorium Manuel de Falla (Floor 1)
13:30 to 15:00	Lunch (On your own)	
14:30 to 15:00	Guided Tour of Malaspina Exhibit	Foyer (Floor -3)
15:00 to 16:30	Concurrent Sessions	Various Locations
16:30 to 17:00	Coffee Break	Various Locations
17:00 to 18:30	Concurrent Sessions	Various Locations
19:45 to 23:00	Closing Banquet at La Mamunia (Optional) (Board buses between Congress Centre and Saray Hotel. Return time is approximate.)	Off-site (Buses depart at 19:45.)

SATURDAY, 28 FEBRUARY 2015

08:00 to 09:00	Sunrise Jog Around Granada	Teatro Isabel La Catolica
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OPTIONAL TOUR - VEGETARIAN TASTING AT HICURI ART VEGAN CAFÉ-RESTAURANT

Dates: Wednesday, 25 February, and Thursday, 26 February

Time: 20:30

Location: Off-site

Have a taste of the Spanish gastronomy adapted to the vegan and vegetarian style in the café-restaurant Hicuri (<http://www.restaurantehicuriartvegan.com>), located in the Realejo neighborhood, very near to the Alhambra and Gran Via Street. This place has a charming and delightful atmosphere where, at the time you enjoy the tapas degustation, you can take a look at the art exhibition that decorate the site walls. The tasting will be composed by a selection of “vegan and vegetarian tapas” at the Spanish style made up by national, local and ecological ingredients. We encourage you to try the “star” dishes with tasty national seaweeds, dried tomatoes and the crunchy vegan desserts.

The restaurant holds 40 people, and the dinner event will start at 20:30 at the restaurant. **Each evening is limited to the first requests received, and advance sign up was required.** A map is available at: <http://bit.ly/1CTvxav>

INFORMATION FOR STUDENTS AND EARLY CAREER PARTICIPANTS

STUDENT VOLUNTEER TRAINING SESSIONS

Date: Sunday, 22 February

Times: 16:00 to 17:00 or 19:00 to 19:30

Students who have signed up to serve as student volunteers must attend one of two training sessions being offered. Attendance of a training session is mandatory. Meet at the registration area in the foyer of the Auditorium Federico Garcia Lorca (Level 0). Please contact Sue Rulla at suer@sgmeet.com for more information or if you have a travel conflict and will not be available to attend either session on Sunday.

STUDENT SOCIAL MIXER

Date: Monday, 23 February

Time: 20:00 to 22:00

Location: Restaurant Area 1 (Floor 0)

An informal student social mixer will be held on Monday evening following the ASLO Membership Meeting. Senior scientists will be invited to attend and meet with students on an informal basis. Beverages and snacks will be available. All students, whether ASLO members or non-members, are invited to attend.

OUTSTANDING STUDENT PRESENTATION AWARDS

Recognition and awards will be provided to the most outstanding posters and talks presented by students at the 2015 Aquatic Sciences Meeting. Presentations will be judged on the basis of innovation/scientific insight, quality of experimental design/methods, and clarity/effectiveness of presentation. Eligible presentations will be evaluated in consideration for the awards. Award winners will be notified via email, and a list will be included in an upcoming issue of the *L&O: Bulletin*.

STUDENT CAREER DEVELOPMENT WORKSHOPS

Students are encouraged to participate in the following workshops.

The Connection, Snap It Up, and Teaching Aquatic Science workshops are open to all attendees in addition to students and are informal events led by senior scientists on a variety of topics relating to careers in the aquatic sciences. A range of topics will be covered to address different career paths in the aquatic sciences, skills or expertise important for these careers, and strategies for successfully competing for jobs, grants, or fellowships – all of which are particularly applicable to students. Scientific Speed Networking was first organized for the meeting in Japan. A huge success in New Orleans as well, the student organizers are bringing it back in Granada!

A limited number of box lunches will be provided for students who participate in the workshops.

WORKSHOP: CONNECTION: MAKE YOUR SCIENCE COMMUNICATION MORE EFFECTIVE THROUGH "CRITICAL STORYTELLING" - PART A AND PART B

Date: Sunday, 22 February

Time: 10:00 to 13:00 and 14:00 to 17:00

Location: Andalucia 2 (Floor 1)

For complete information on this workshop, please see Pages 23-24.

WORKSHOP: SNAP IT UP

Date: Tuesday, 24 February 2015

Time: 13:30 to 15:00

Location: Albeniz (Floor -2)

For complete information on this workshop, please see Page 25.

WORKSHOP: TEACHING AQUATIC SCIENCE

Date: Tuesday, 24 February

Time: 13:30 to 15:00

Location: Room C (Floor -3)

For complete information on this workshop, please see Page 25.

WORKSHOP: SCIENTIFIC SPEED NETWORKING

Date: Thursday, 26 February

Time: 13:30 to 15:00

Location: Restaurant 2 (Floor 0)

It can be daunting for a student to try to introduce himself/herself to someone at a large scientific meeting, but given the right opportunity, a quality exchange can have a lasting impression. Scientific speed networking is a twist on the popular singles speed dating phenomenon, but the goal here is to foster an interactive environment between small groups of advanced scientists and students in hopes of creating some short, high-impact exchanges. It's amazing what can be accomplished in five minutes! We hope that participation in this workshop will be a catalyst for improved student engagement throughout the meeting and beyond. The workshop is a structured, though informal meet and greet and is intended to be fun. Please contact Amy Burgess at burgess5@uoregon.edu for more information.

ASLO CAREER CENTER

There will be a Career Center set up near the exhibit area and posters, where students and early career professionals can meet each other and the ASLO Board members in a fun, relaxed setting. This center will host the Career Bulletin Board, where prospective employers are invited to post job announcements, and students and early career professionals are invited to post a one-page CV. Students should also stop by for information on career development workshops, social events, and how to become more involved in ASLO.

CAREER BULLETIN BOARD

There will be a Career Bulletin Board set up at the meeting where prospective employers are invited to post job announcements, and students and early career professionals can post a one-page CV.

EARLY CAREER MIXER

Date: Monday, 23 February

Time: 20:00 to 22:00

Location: Restaurant Area 2 (Floor 0)

A “meet and mix” reception is planned and organized by members of the ASLO Early Career (EC) committee to give early career members an opportunity to provide feedback on various topics relevant to them, including any concerns or expectations as an early career member. This is a social gathering for early career members to get to know each other and to network. Refreshments will be served. Come and meet the ASLO Board and members of the EC committee!

EARLY CAREER WORKSHOP: MARIE CURIE FELLOWSHIPS

Date: Wednesday, 25 February

Time: 13:30 to 15:00

Location: Room B (Floor -3)

The ASLO Early Career committee will convene a workshop planned to benefit “early career” scientists - that is, non-student members of ASLO who have received their highest degree within the last 10 years - all attendees are invited to participate. A limited number of boxed lunches will be served. This year’s workshop will provide an overview of Marie Curie Fellowships, grants available to researchers regardless of their nationality and open to all fields of scientific research. Individual fellowships are available for researchers to come to Europe or European researchers to continue their research within another European country or internationally. In this workshop you will be able to learn about the opportunities available to you within the Marie Curie program, find out how and when to apply and pick up tips from a national contact at Marie Curie, grant evaluators and recipients of these fellowships. We will also briefly touch on European Research Council Starting Grants, as another source of funding for early career scientists. Main Speaker: Cristina Gomez Corchete, NCP Marie S. Curie.

ASLO MEETING MENTOR PROGRAM

The ASLO Meeting Mentor Program is open to any participant looking for guidance on navigating the meeting and making new connections. Mentees will be grouped with experienced scientists (mentors) who will provide guidance on navigating the meeting and introduce them to other scientists. The Meeting Mentor Program debuted at the 2013 Aquatic

Sciences Meeting in New Orleans. If you would like more information on the Meeting Mentor Program, please contact Adrienne Sponberg (sponberg@aslo.org), ASLO Director of Communications and Science.

Please wear your badge ribbon that identifies you as a participant in the ASLO Meeting Mentor Program. Ribbons will be available at registration when you pick up your badge and meeting materials.

ASLO MULTICULTURAL PROGRAM 2015

Starting in 1990 the ASLO Multicultural Program has brought over 900 diverse undergraduate and graduate students to the annual ASLO meetings. The program features pre-conference dinner and field trip, meeting-mentors to help guide the students, a student-symposium, and various other activities. The goal of the program is to increase the human diversity of aquatic scientists. Please recommend appropriate students to apply for the program. This NSF sponsored effort is designed for US citizens and permanent residents, and does not include international students. The program supports the full cost of participation including travel, hotel, food, and meeting registration. This year’s program will feature a special field trip taking advantage of the local environment around Granada, Spain. If you have any questions about the program or the requirements for the next meeting, please contact Benjamin Cuker (benjamin.cuker@hamptonu.edu), ASLO Multicultural Program Director.

ASLO 2015 MULTICULTURAL PROGRAM TRAINING SESSION

Date: Sunday, 22 February

Time: 16:00 to 17:00

Location: Room B (Floor -3)

The success of this program attributes to the many ASLO members who volunteered to be meeting-mentors over the years. By serving as meeting-mentors, ASLO members share themselves with the next generation of ocean and aquatic scientists. Meeting-mentors first meet their charges at 16:00 on Sunday, 22 February.

SPECIAL ACTIVITIES

EXPLORE GRANADA JOGGING

Dates and Times: Tuesday, 24 February, Wednesday, 25 February, and Thursday, 26 February: 06:45 to 07:30; Saturday, 28 February: 08:00 to 09:30

Get to know the city a different way than usual tourists do. Four times per week a group of joggers from Granada go jogging for about one hour in the early morning. They have offered to guide ASLO meeting participants who would like to jog with them by the historical places of Granada.

- Starting/ending point: Teatro Isabel La Católica, Acera del Casino Street
- Number of participants per day: 20
- Registration is on a first-come, first-served basis.
- The final list of participants will be published once the registration period expires.
- Participants may, if they wish, purchase an event T-shirt for 10 Euros. Payment will be accepted at the conference.

For any special requirements or information on this event, please contact Carmen Perez-Martinez at cperezm@ugr.es.

MALASPINA CIRCUMNAVIGATION EXPEDITION EXHIBIT

Dates and Times: Exhibit open throughout the meeting

Guided Tours: Monday, 23 February, through Friday, 27 February

Guided Tour Times: 14:30 to 15:00

Location: Foyer Area (Floor -3 of the Congress Centre)

The Malaspina Circumnavigation Expedition ocean (cf. www.expedicionmalaspina.es) is a large collaborative program conceived and led from Spain, but with a global scope, both in goals and participation. The program was set with the goals to provide an assessment of the state of the oceans in 2011 and to explore, using advanced next-generation sequencing tools, the diversity of life in the ocean with a particular emphasis in the dark ocean. In addition, the project aimed at shifting the interactions among Spanish marine research groups from an excessive focus on competition to a balance between competition and cooperation by demonstrating the power of a cooperative approach and, through this approach, build critical mass and leadership capacity. Furthermore, it aimed at prompting the interest for science by the Spanish public and to foster scientific vocations among its youth. The project involved 35 research groups from Spain and a total of 25 international partners from a total of 18 nations across the world, which continue to grow, with an estimated total of about 400 scientists and a total of 700 persons involved in various capacities, including logistics, outreach and administrative support.

The six-year project, funded by Spanish Ministry of Science and Technology, with additional funds from many other contributors including universities, governmental research organization and private foundations, was provided with a total of 10 months of ship time, distributed between 7 months on board R/V *Hespérides*, operated by the Spanish navy, which circumnavigated the ocean; and 3 months on board R/V *Sarmiento de Gamboa*, operated by the Spanish National Research Council (CSIC), the institution organizing the expedition, which conducted a detailed study of a section, along 24.5 N, of the Atlantic Ocean and served as a platform for a floating university in her return to Spain.

The Malaspina Expedition sailed the ocean from December 13, 2010 to July 14, 2011, sampling the tropical and subtropical Atlantic, Indian and Pacific Ocean. The cruise track was designed to sample ocean gyres and poorly sampled areas of the ocean, particularly in the Southern Hemisphere and the Indian Ocean down to about 4,000 m depth, while avoiding adverse weather, all within the boundary conditions imposed by the total seven months of ship time allotted to the circumnavigation.

An update on the key results thus far delivered by the Malaspina 2010 Circumnavigation Expedition will be advanced at the forthcoming ASLO conference in Granada, Spain (22-27 February, 2015, <http://sg-meet.com/aslo/granada2015/>). Most of the results will be presented in the special session "*The Global Ocean Ecosystem: Patterns, Drivers and Change*" (special session #8), with an overview provided at a plenary talk, opening the conference, on Sunday 22, 2015, delivered by Carlos M. Duarte, coordinator of the expeditions and past ASLO President. In addition, the exhibition "Un mar de datos" with informative panels on the key topics will be displayed during the meeting.

The results published thus far represent, however, only 10% of the total output of the project, which will deliver 70 Ph.D and 35 M.Sc. thesis by the time it be completed. Hence, the mosaic of the state of the ocean in the 21st century the project is depicting only contains 10% of the pieces

so far. The rate of publication is accelerating as the results of this great effort emerge from the labs and I anticipate that by the end of 2015 about half of the results would have been submitted for publication. Accordingly, it is difficult as yet to foresee what will be the final aspect of this canvas. Hopefully, these findings will portray a healthier and more resilient ocean than we would have been anticipated.

We have kept one in every ten samples of plankton, genome, gases and water collected in five different sample repositories. These samples will remain in custody to be analyzed only 20 to 30 years after sampling. The Malaspina Collection will, thereby, hand over sample of the ocean in 2010/2011 to a new generation of marine scientists that will use them to quantify ocean change using technology that we cannot yet anticipate and to resolve questions we cannot imagine today.

EVENTS, MEETINGS, AND RECEPTIONS

OPENING SESSION

Date: Sunday, 22 February

Time: 17:00 to 19:00

Location: Auditorium Federico Garcia Lorca (Floor 0)

The meeting will begin Sunday evening, 22 February, with the opening session. This is planned to include a welcome by ASLO president, Jim Elser, School of Life Sciences, Arizona State University, welcome remarks by D. Francisco González Lodeiro, Rector Magnífico de la Universidad de Granada, a public lecture by Narcís Prat, Universitat de Barcelona, Barcelona, Spain, entitled, **Knowing Ramón Margalef: Naturalist, and master of several generations of Spanish and Latin-American ecologists**, and a talk by Carlos M. Duarte, Tarek Ahmed Juffali Chair in Marine Biology, KAUST, Red Sea Research Center, Saudi Arabia.

His talk is entitled, **Malaspina Expedition: Seafaring on a New Quest**. An opening mixer and reception will follow.

OPENING MIXER AND RECEPTION

Date: Sunday, 22 February

Times: 19:00 to 20:30

Location: Foyer Area (Floor 0)

Enjoy this time following the opening session to get caught up with friends and colleagues! This will be a welcome to Granada and great start to the 2015 Aquatic Sciences Meeting.

PLENARY SESSIONS AND AWARD ACCEPTANCE PRESENTATIONS

Dates: Monday, 23 February, through Friday, 27 February

Times: 12:00 to 13:30

Location: Auditorium Federico Garcia Lorca (Floor 0)

Plenary Sessions will be held each day of the meeting and will include brief opening announcements and remarks by committee members, plenary presentations, and award acceptance presentations. Plenary presentations and awardee information is listed in this program. Due to the limited seating in the Auditorium Federico Garcia Lorca, overflow will be accommodated via live streaming in Auditorium Manuel de Falla (Floor 1).

ANNUAL ASLO BUSINESS MEETING AND MEMBERSHIP FORUM

Date: Monday, 23 February

Time: 18:30 to 20:00

Location: Auditorium Manuel de Falla (Floor 1)

The annual ASLO Business Meeting for the membership will be held during the conference on Monday, 23 February 2015, from 18:30 to 20:00 in the Auditorium Manuel de Falla at the Granada Congress and Exhibition Centre (*Palacios de Exposiciones y Congresos de Granada*) in Granada, Spain. A membership forum will follow the business meeting where you can meet and talk to officers and board members. Food and drinks will be served.

We encourage everyone to attend the business meeting and membership forum—especially our new members, early career and student members (before you head over to the student or early career mixer!).

POSTER SESSIONS AND RECEPTIONS

Dates: Tuesday, Wednesday, and Thursday, 24–26 February

Times: 18:30 to 20:00

Location: Posters and exhibit areas are located on Floors 1 and 2 of the Congress Centre. See Diagrams on Pages 31–32.

Though posters will be on display and available for viewing throughout the day, poster presentations will take place during evening sessions. Those who are presenting their research will do so during the receptions on Tuesday, Wednesday, and Thursday evenings. A cash bar will be available, and light reception foods will be served during the poster sessions.

WORKSHOPS, TOWN HALLS, AND AUXILIARY MEETINGS

WORKSHOP: EAST MEETS WEST: TRANS-ATLANTIC AQUATIC INVASIONS OF NORTH AMERICA AND EUROPE

Date: Sunday, 22 February

Time: 08:00 to 17:00

Location: Andalucia 3 (Floor 1)

By Invitation Only. This international workshop of experts and students will address the issue of trans-Atlantic aquatic invasions.

WORKSHOP: ENVIRONMENTAL CONTROLS ON MARINE NITROGEN FIXATION

Date: Sunday, 22 February

Time: 09:30 to 17:00

Location: Seminario 3-4-5 (Floor 1)

Participation is by invitation only. Refreshments will be provided. This one-day, round-table workshop will bring together marine scientists from different disciplines linking to biology, chemistry and physics, and combining expertise in culture and mesocosm studies, ecophysiology, microbiology, molecular biology, hydrography, remote sensing and numerical modeling from cell- to global scales. We plan to have short overview presentations on the current knowledge and open questions, all in plenary and followed by an open discussion about research priori-

ties and strategies for collaborative efforts. The workshop will start at 9:30 a.m. Overview presentations will cover the following issues:

- Current estimates of global ocean N₂ fixation rates from observations and numerical models - Angela Landolfi, GEOMAR, Kiel
- What do we know about the global distribution of diazotrophs and the main groups/physiologies - Jonathan Zehr, UCSC, USA
- What do we know about limiting factors (light, iron, various phosphorus forms, temperature...) - C. Mark Moore, University of Southampton, UK
- How is N₂ fixation represented in cell-scale and global-scale models?
– Sophie Rabouille, LOV, France & Andreas Oschlies, GEOMAR, Germany

A general discussion session (structure to be finalized) will follow to address overarching questions. These include 1) Identify the major obstacles and challenges that limit our understanding of N₂ fixation 2) Discuss which are the multidisciplinary actions/strategies needed to make progress. Exchanges on possible ways of organizing efficient collaboration and attracting funding will end the 1-day workshop. A report will be written and iterated with all participants in the following weeks, with the aim to eventually use this for putting together a collaborative research proposal, e.g. in the Horizon2020 framework, in which non-EU partnerships are encouraged. Contact Sophie Rabouille - LOV (CNRS-UPMC), Villefranche sur Mer, France at srabouille@obs-vlfr.fr for more information.

Download the workshop's flyer: <http://bit.ly/1zyNVEX>

WORKSHOP: CONNECTION: MAKE YOUR SCIENCE COMMUNICATION MORE EFFECTIVE THROUGH “CRITICAL STORYTELLING” - PART A

Date: Sunday, 22 February

Time: 10:00 to 13:00

Location: Andalucia 2 (Floor 1)

Organized by: Jonathan H. Sharp (University of Delaware) jsharp@udel.edu and Adrienne Sponberg (ASLO) Sponberg@aslo.org

Why is it that Much of the Public Does Not Believe in Climate Change and then Another Faction Avoids Vaccinations? Whether interacting with the lay public, local policymakers, or fellow researchers, relaying technical information accurately while keeping an audience engaged is a critical skill. An all too common perception about scientists is that they are tedious, boring, and unlikeable. Since we are experts on societally-important issues, often we assume audiences await our gems of knowledge. In the words of Mark Twain: “with parted lips and bated breath the audience hung upon his words”. However, lay public audiences do not hang upon our words, local policy makers are often unimpressed, and even our science peers will tune us out if the presentation is not interesting.

Effective Communication is Needed. For many scientists, presentations are sometimes seen as requirements to suffer through. This is often because you are required to communicate your work, but never taught how to effectively do so.

Sadly, if you cannot impart the results and recommendations of your work in a way that will yield action, your work will have little impact in the world outside of your own lab.

This workshop will help you improve communications skills so you can present your work more effectively. Storytelling/narrative structure is

at the core of virtually all effective broad communication. For obvious commercial reasons, the Hollywood entertainment industry has traditionally been the source of both innovation and perfection of narrative elements, yet their basic approach is equally applicable to the communication of science to all audiences, from the general public to academics. For the past five years, scientist-turned-filmmaker Randy Olson has been developing an approach he calls “critical storytelling,” bringing together the broadly creative energy of Hollywood with the rigorous discipline and commitment to accuracy of the science world. He has come to ASLO meetings and brought others from Hollywood to help us develop more interesting and effective communication skills.

The Connection Workshop in Granada. Interested meeting attendees will participate in one of two three-hour workshops scheduled for Sunday before the formal opening of the 2015 Aquatics Sciences Meeting. The format will be similar to workshops held at the 2013 Aquatic Sciences Meeting and the 2014 Ocean Sciences Meeting. The workshop will feature the experienced communication specialist, Brian Palermo. In addition to acting in many Hollywood movies and TV series, he is an instructor at the premier Improv theater in Los Angeles, The Groundlings. Working with Randy Olson and actress/screenwriting consultant, Dorie Barton, he has helped us in 2012 and 2013 with video workshops as well as helping create and then presenting the 2013 Connection workshop. Participation in one of the Connection workshop sessions will be limited and prior registration will be required (no fee).

Brian will facilitate this through a hands-on, experiential workshop where you will participate in exercises designed to help improve your presentational abilities. We will focus on how to “act” throughout your presentation so that your audience remains engaged and how to create a recognizable structure for each presentation so that it tells a relatable story.

Your science does *not* have to be “dumbed down” to be effectively communicated to others outside of your specific discipline. However, there are communication tools—learned through improvisational theatre games—that can be employed as a syringe with which to inject the more challenging aspects of your work into the hearts and minds of your audience. (That is not a mistake. Having your message reach the hearts of your audience is how you will spread your message more effectively. Think of the anti-vaccination movement in America. That is misinformation distributed widely by evoking emotion in the audience. Science communicators could learn much from this paradigm and use it to spread factual information.)

And the workshop has been empirically proven to be fun!

Why Participate? It is our hope that improved communication skills will assist the aquatic science community in reaching out to explain the results of our research. These skills are needed to better reach lay audiences, elected officials, and resource managers. Unless we can learn how to better connect to these groups, the benefits of our research are lost to society. The workshop registration is open to anyone interested; we hope to attract graduate students, early career scientists, and also established scientists. While not everyone can become a super star speaker, almost everyone can improve his/her skills. Financial support for this workshop has been received from the Ocean Sciences Division of the US National Science Foundation.

To Register: There will be two sessions on Sunday, February 22; one from 10:00-13:00 and the other from 14:00-17:00, both in Andalucia 2 (Floor 1) at the Granada Congress Centre. Please

register directly using the following (<https://www.surveymonkey.com/s/2015Connection>). Participation in the workshop is limited, so, please be committed to attend if you register. For more information and updates, periodically check: <http://sites.udel.edu/aquaticsconf/>

MEETING OF THE IBEROAMERICAN LIMNOLOGICAL SOCIETIES

Date: Sunday, 22 February

Time: 09:30 to 14:00

Location: Seminario 6-7 (Floor 1)

The meeting will have two parts, one institutional and one interpersonal. In the institutional part (9:30-11:30), representatives of the Iberoamerican Limnological Societies and other Iberoamerican limnologists will discuss proposals for future collaboration, based on a document agreed between the Chilean, Iberian and Brasilian societies (SOCHILIM, AIL and ABlimno, respectively).

The interpersonal part will consist on two parallel sessions.

- Session A will consist of a marketplace-style meeting to establish links and promote interaction between research groups. Participating groups will be given 3 to 5 minute slots to show their work, what they do, what they offer and what they need. Interested groups must contact Arturo Elosegi (arturo.elosegi@ehu.es) or Julia Toja (jtoja@us.es) before 31 January.
- Session B (11:45-14:00) will consist of a workshop on scientific writing organised by AIL young. People willing to participate must contact Verónica Ferreira (veronica@ci.uc.pt) or Núria Catalán (nurcatalga@gmail.com) before 31 January.

More information can be found at <http://www.limnetica.com/ail/>

WORKSHOP: WRITING AND PUBLISHING A SCIENTIFIC PAPER

Organized by the Youth of the Iberian Limnological Association (J-AIL)

Date: Sunday, 22 February

Time: 12:00 to 16:00

Location: Machado (Floor -2)

This workshop aims to provide students and young researchers key guidelines that will help them to successfully publish their papers. Three selected researchers working in different fields of Aquatic Ecology and with wide experience in writing and reviewing papers, as well as editorial roles, will talk about successful paper writing, publishing and reviewing. Lunch will be included. There also will be time for questions and discussion. The meeting is organized by the young researchers of the Iberian Limnological Society (J-AIL) and has a symbolic fee of 15 euros. Inscriptions can be made to juvenesail@gmail.com.

WORKSHOP: CONNECTION: MAKE YOUR SCIENCE COMMUNICATION MORE EFFECTIVE THROUGH “CRITICAL STORYTELLING” - PART B

Date: Sunday, 22 February

Time: 14:00 to 17:00

Location: Andalucia 2 (Floor 1)

See Workshop: CONNECTION: Make Your Science Communication More Effective through “Critical Storytelling” - Part A for a complete description of Parts A and B.

WORKSHOP: SCIENCE EDUCATION

Date: Sunday, 22 February

Time: 14:00 to 17:00

Location: Picasso (Floor -2)

Recently, an increased demand around the world for students interested in pursuing careers in science, technology, engineering, and mathematics (STEM) fields has focused attention on science education in and out of the classroom, and across all age groups. At the same time, funding agencies often require scientists to include a broader impacts section in their research proposals. This workshop will focus on helping participants develop ideas for effective education and outreach activities and broaden the impacts of scientific research. This workshop will feature active, hands-on learning, small group discussions, and guided inquiry and will include short presentations on exemplary projects in formal and informal education designed for K-12, undergraduate, graduate, and public audiences to stimulate ideas. Discussions of how people learn, how to assess the effectiveness of outreach activities, and how to develop projects that meet specific goals will help support project development. Participants are welcome to bring ideas that they would like to develop and share, and for which they would like to receive feedback. Please join us for a lively, productive, thought-provoking, and fun afternoon.

Organized by: Bob Chen, University of Massachusetts Boston (bob.chen@umb.edu). Open to all attendees; walk-ins are welcome. While there is no need to register for this workshop, if you have any questions, please do not hesitate to email bob.chen@umb.edu.

ASLO EDITORS AND WILEY DEMONSTRATION FORUM

Date: Monday, 23 February

Time: 13:30 to 15:00

Location: Auditorium Manuel de Falla (Floor 1)

Join President Jim Elser and all the ASLO Publication Editors for an open forum on new developments within their respective publications, and a discussion of editorial objectives and future plans. An open question and answer session will follow. Representatives of Wiley, ASLO's publishing partner, will demonstrate and discuss the enhancements and benefits from the migration of journal content to Wiley Online Library. Refreshments and boxed lunches will be available on a first-come, first-served basis. Contact Teresa Curto (execdir@aslo.org) for more information.

WORKSHOP: SNAP IT UP

Date: Tuesday, 24 February

Time: 13:30 to 15:00

Location: Albeniz (Floor -2)

If you can't explain it simply, you don't understand it well enough – Albert Einstein, 1951

Limnology and Oceanography are very much multi-disciplinary sciences, combining aspects of physics, chemistry, biology, and geology; and often including socio-economics. You can make a presentation at a meeting with very narrow scope, using specialized terminology, not explaining the relevance of your results, and presenting in a boring fashion. This is fine for a small number of specialty peers who will listen raptly for fear of being scooped by your work, or wishing to scoop you. However, if you want to reach and appeal to a broader interdisciplinary

audience, you need another approach. Most of us probably know of individuals in our field who give fascinating talks from which a generalist can learn a lot. This workshop will address techniques and approaches that you can use to make presentations that are more exciting and appealing to those outside your specialty as well as more effective in explaining results of your research to those within your specialty. In doing so, you often develop a better understanding of your own work.

This workshop is open to all. It will be held during the lunch break (13:30-15:00) on Tuesday, February 24 in Albeniz (Floor -2) at the Granada Congress Centre. The workshop will run by Jonathan Sharp (Professor Emeritus at the University of Delaware), Adrienne Sponberg (ASLO Director of Communications and Science), and Brian Palermo (Hollywood actor and instructor at the Groundlings Improv Theater in Los Angeles). For more information and updates, periodically check: <http://sites.udel.edu/aquaticsconf/>

WORKSHOP: TEACHING AQUATIC SCIENCE

Date: Tuesday, 24 February

Time: 13:30 to 15:00

Location: Room C (Floor -3)

Introductory environmental, ocean, and aquatic science courses provide an excellent opportunity to prepare both majors and non-majors for thinking about some of the largest issues facing society such as climate change and energy needs. Introductory courses can also serve to recruit students into the field. However, students attracted to introductory aquatic science courses often come from highly diverse backgrounds spanning from those that are afraid of mathematics to those that want to become science majors. Sometimes these courses are very large. This workshop will provide strategies to overcome some of the challenges of these introductory courses while making your teaching engaging, relevant, and effective. Come ready to share ideas, to think actively about teaching and learning, and to discuss what works and why. Organized by: Bob Chen (University of Massachusetts Boston) bob.chen@umb.edu

Open to all attendees.

NATIONAL SCIENCE FOUNDATION TOWN HALL

Date: Tuesday, 24 February

Time: 14:00 to 15:00

Location: Picasso (Floor -2)

A town hall to update the community on recent news from the National Science Foundation including the recently released Decadal Survey of Ocean Sciences. Contact Richard Murray (rwmurray@nsf.gov) for more information.

WORKSHOP: IMICROBE: A CYBERINFRASTRUCTURE TO SUPPORT RESEARCH IN MICROBIAL ECOLOGY

Date: Tuesday, 24 February

Time: 20:00 to 21:00

Location: Machado (Floor -2)

Workshop Overview: The iMicrobe workshop provides a comprehensive look at platforms, tools, and services for large-scale data analysis provided by the *iPlant Collaborative*, a cyberinfrastructure project of the National

Science Foundation. The workshop focuses on data and tools for microbial ecology developed in the iPlant cyberinfrastructure through the *iMicrobe* project. Through several hands-on demos and guided exercises, workshop participants will get a comprehensive look at the *iMicrobe Data Commons* and tools for large-scale data analysis in the *iPlant* Cyberinfrastructure. Use cases will draw on topics in microbial ecology, and will enable participants to use tools in *iPlant* ranging from microbial genome assembly and annotation to metagenomics analysis pipelines.

Workshop Description: Participants will get hands-on experience with the following *iPlant* cyberinfrastructure:

Discovery Environment: Simple web portal for managing data, analyses, and workflows. Complex bioinformatics applications can be run without knowing command line programming; users can also integrate their own tools.

Data Store: Scalable, secure, and reliable storage for terabyte-scale data (and community data/metadata in the *iMicrobe Data Commons*).

Atmosphere: 1-click, on-demand cloud computing for accessing microbial analysis tool suites such as QIIME.

Who Should Attend? Any investigator (PIs, post-docs, grad students, industry users) who are or will be working with large datasets and computation-intensive research questions in microbial oceanography.

What will we do at the workshop? We will cover a variety of hands-on computer demos designed to familiarize you with the major tools and resources freely available to you. The workshop starts with an introduction to *iPlant*'s tools to manage, analyze, and share data – then apply these resources to structured use cases in microbial oceanography. The focus will be on tools for microbial genome analysis and metagenomics (developed through the *iMicrobe* project). All tools and data are freely accessible with an *iPlant* account.

What Should I Bring? This workshop is hands-on so please bring a Wi-Fi enabled laptop.

Contact: Bonnie Hurwitz, PhD, Assistant Professor, Biosystems Engineering, University of Arizona (bhurwitz@email.arizona.edu)

Sign up for the workshop via the following: <http://bit.ly/1F0qhl5>

PANEL DISCUSSION: WHAT CAN YOU DO AND SHOULD NOT DO TO INFORM THE PUBLIC ABOUT ENVIRONMENTAL PROBLEMS

Date: Wednesday, 25 February

Time: 13:30 to 15:00

Location: Auditorium Manuel de Falla (Floor 1)

We are upset that the public does not better understand environmental problems and become involved with fixing them, yet we do a very poor job of communicating with the public. Sometimes, the wrong approach will actually decrease public interest in the issue being addressed. There is growing awareness in our aquatic science community that we should be doing more, yet most scientists do not know what or how to effectively communicate.

We have organized a panel discussion with a media expert as moderator and three of your colleagues as panelists. All of us have struggled in recent years with ways in which we can more effectively attract the attention of the public and get them involved. We also recognize that some activities to get public interest tend to be alarmist and do the opposite of

getting public involvement. In this panel discussion, the focus will be on both successful approaches with warnings about the wrong approaches.

The panel will be moderated by Montserrat Dominguez, Editor of the Spanish Edition of the Huffington Post. The panelists will be Daniel Conley (Professor of Biogeochemistry, Lund University, Sweden), Carlos Duarte (Tarek Ahmed Juffali Chair in Marine Biology, KAUST, Red Sea Research Center, Saudi Arabia, and Jonathan Sharp (Oceanography Professor Emeritus, University of Delaware). The panel will take place in the mid-day break on Wednesday, February 25, in Auditorium Manuel de Falla (Floor 1) at the Granada Congress Centre. For more information and updates, periodically check: <http://bit.ly/16ChzxW>

TOWN HALL: EXPANDING THE U.S. NETWORK OF COASTAL OCEAN ECOSYSTEM LTER'S?

Date: Wednesday, 25 February

Time: 20:00 to 22:00

Location: Andalucia 3 (Floor 1)

This open town hall will introduce interested people in the ASLO community to the U.S. LTER network of 25 sites, which currently includes 8 coastal marine sites and a number of continental sites where aquatic research is a primary focus. A discussion is currently underway at the U.S. National Science Foundation to add two more coastal marine sites to the LTER network. If resources are available, a competition is expected in late 2015/early 2016 to identify and fund new sites that would be supported by the Ocean Sciences Division. Representatives of NSF and existing LTER's will be present to answer questions about the research, education, and outreach activities at LTER sites; the organization of sites and their relationship to the network; and opportunities for cross-site synthetic science. Contact Mark Ohman (mohman@ucsd.edu) for more information.

TOWN HALL: BIOINVASIONS IN THE MEDITERRANEAN AND THE ENLARGEMENT OF THE SUEZ CANAL

Date: Thursday, 25 February

Time: 14:00 - 15:00

Location: Andalucia 1 (Floor 1)

In August 2014, the Egyptian government announced the enlargement of the Suez Canal, dispensing with environmental impact assessment, risk analysis, and control and mitigation management. On learning this, a group of concerned scientists mobilized and, in September 2014, published a "Letter to the Editor" in the journal "Biological Invasions" expressing their shared concern over Egypt's plan, its potential amplification of an already critical environmental problem, and the apparent lack of any risk assessment (Galil et al. 2014, doi: 10.1007/s10530-014-0778-y). Since then, news outlets with global reach, such as the New York Times and the Guardian, picked up the news and editorialized about it, prompting the drafting of an open letter, signed by concerned scientists, that has been distributed to relevant intergovernmental organizations (UNEP/MAP, IMO, CBD) and bodies/agencies of the European Union. This town hall meeting aims to provide a forum at which to exchange information on the proposed expansion of the Suez canal, the current status of non-indigenous species (NIS) introduced through the canal, their spatial spread and impact across the Mediterranean, and the future of the coastal ecosystems under the influx of thermophilic NIS in a warming sea. Our intention is to follow the insights from this meeting to approach the relevant intergovernmental organizations with a call for action. Anyone

interested in giving a short presentation may contact Angelos Hannides at hannides@hawaii.edu or Bella Galil at bella@ocean.org.il.

ADDITIONAL PARTICIPANT AND ATTENDEE INFORMATION

RECEIPTS

Your registration confirmation that was emailed to you when you registered for the meeting will serve as your receipt. In keeping with our conservation efforts, we will not provide printed receipts to attendees on site at the meeting. If you have misplaced your original receipt and need another copy, you may print your own receipt by going to: <https://www.sgmeet.com/aslo/granada2015/userlogon.asp>. Select the option to *Re-print/Re-send Your Receipt and Confirmations*. Your username is your email address, and your password is your registration ID number which is printed on your conference name badge.

LETTERS OF PARTICIPATION

Likewise, letters of participation only will be provided to those who are registered for the meeting, and copies cannot be provided on site. If you need a letter of participation, please go to <https://www.sgmeet.com/aslo/granada2015/userlogon.asp>.

CHILDCARE DURING THE MEETING

ASLO is not able to provide licensed childcare at this meeting. However, we do have several local students who have offered their services for babysitting. Arrangements should have been made in advance between the parents and these students. We suggest you bring whatever your child or children may require for a short stay while you are participating in the meeting. Children may not be left unattended in the room.

Ignacio Peralta: nperalta@correo.ugr.es

Elizabeth Leon Palmero: elileon@correo.ugr.es

Jesus Veiga: veiga.ew@gmail.com

If you have any questions, please feel free to contact Helen Schneider Lemay, ASLO Business Manager, at business@aslo.org.

PRINTING

Printing is not available at the Congress Centre. If you would like to print your poster or have other printing needs while you are in Granada, there is a print shop located very close to the Congress Centre. They can handle a range of printing needs and can do large format printing of posters. The poster size 95 x 125 cm and would be full color on 135 grs. paper. Estimate cost is 14 € per poster (tax included). The preferred format would be a pdf format. Depending on the number of other orders, they normally require to print 1 to 2 days.

Please contact them directly if you are interested in finding out more details. Their contact information is:

Ecoprint, S.L.
Callejón del Angel, 5 Bajo
18006 Granada
958 53 53 44/606 212
Contact: Patricia Velazquez
Web: www.ecoprint.es
Email: ecoprint@ecoprint.es

INSTRUCTIONS FOR ORAL PRESENTERS

ADVANCE SUBMISSION

There will be no advance submission of presentations via an FTP site for this meeting.

ON-SITE SUBMISSION OF ORAL PRESENTATIONS

All oral presentations will need to be submitted to the Speaker/Presentation Room in Seminario 1 & 2 (Floor 1) at the Congress Centre. This room will be staffed and run by the Congress Centre technicians. Presenters may submit their presentations beginning at 15:00 on Sunday, 22 February.

SPEAKER/PRESENTATION ROOM HOURS:

Sunday, 22 February	15:00 to 21:00
Monday, 23 February	07:00 to 19:00
Tuesday, 24 February	07:00 to 19:00
Wednesday, 25 February	07:00 to 19:00
Thursday, 26 February	07:00 to 19:00
Friday, 27 February	07:00 to 19:00

All presenters are required to check in to the Speaker/Presentation Room, Seminario 1-2 (Floor 1) at least **24 hours before your assigned presentation day** to submit your talk. An A/V technician will be available in the room to assist you. Please note: **If your presentation is on Monday**, please plan to go to the presentation room on Sunday during the hours specified to submit your talk.

REVIEWING YOUR PRESENTATION

When reviewing your presentation in the Speaker/Presentation Room, Seminario 1-2 (Floor 1), make sure all fonts, images, and animations appear as expected and that all audio or video clips are working properly.

IF THE PRESENTATION DOES NOT PLAY PROPERLY IN THE SPEAKER/PRESENTATION ROOM, IT WILL NOT PLAY PROPERLY IN THE MEETING ROOM. PERSONAL LAPTOPS CANNOT BE USED IN THE SESSION ROOMS.

When you are finished submitting, reviewing and/or making changes to your presentation, you must tell the A/V technician you have finalized your presentation file before you leave the Speaker/Presentation Room. Be sure to bring a backup copy of your presentation with you to the meeting. USB/Flash drives are preferred. Internet access will not be available in the session rooms. Please make sure you have all power, video, and networking adapters with you.

DURING YOUR PRESENTATION

Each meeting room will have a data projector, screen, laptop computer, audio, lectern, hardwired lectern microphone, timer computer, and laser pointer.

For more information on preparing your presentation, go to: <http://bit.ly/18Iww2f>

INSTRUCTIONS FOR POSTER PRESENTERS

There will be one (1) poster per side of each panel-board. Therefore posters must be no larger than a maximum 95 cm-wide by a maximum 122 cm-high (37 inches wide by 48 inches high). If your poster exceeds these specifications, it may be subject to removal. Posters will be affixed to the panel-boards using non-residue adhesive foam squares (1 inch x 1 inch). It is suggested that you apply at least one (1) foam square in each of the four corners of your poster. (*Note: An adequate supply of foam squares will be available throughout the poster hall.*)

Please place your poster in the spot designated by the poster ID number assigned to you. Posters will be displayed in session groupings for the entire meeting to maximize opportunities for viewing. Specific times for interaction between the presenters and attendees have been assigned in order not to conflict with oral presentations.

POSTER SET UP

Posters should be put up on Monday, 23 February, from 12:00 to 18:00 or on Tuesday, 24 February, between 08:00 and 12:00 on Floor 1 in the area outside the Auditorium Manuel de Falla and on Floor 2.

POSTER SESSIONS

The poster sessions are on Tuesday, Wednesday, and Thursday, 24-26 February 2015, from 18:30 to 20:00 Refreshments and snacks will be available during the poster sessions.

POSTER TEAR DOWN

Posters must be removed on Friday, 27 February 2015, between 08:00 and 12:00 or following the conclusion of the poster session on Thursday evening.

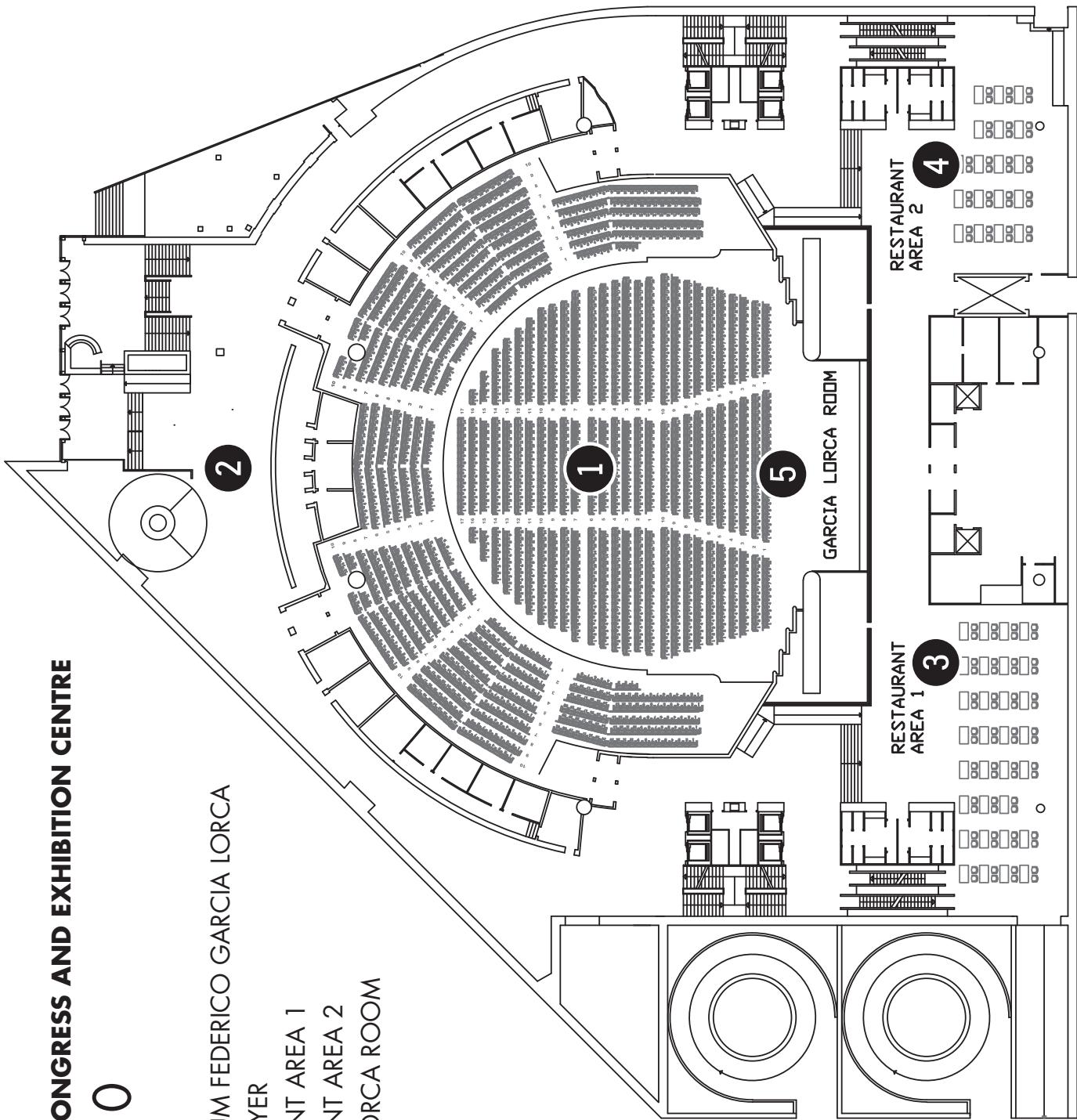


Aquatic Sciences

GLOBAL AND REGIONAL PERSPECTIVES:
NORTH MEETS SOUTH

GRANADA CONGRESS AND EXHIBITION CENTRE FLOOR 0

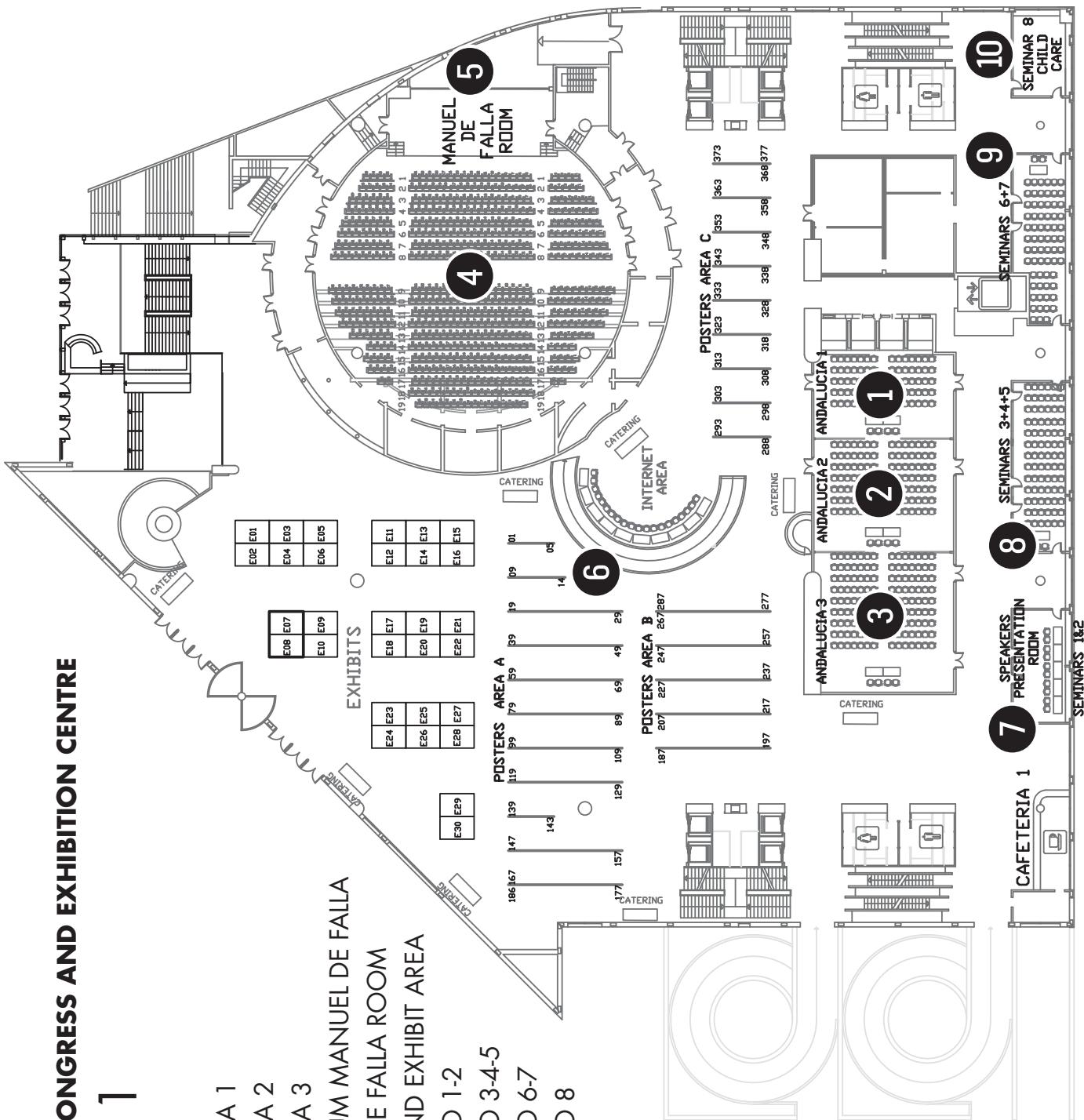
- 1 AUDITORIUM FEDERICO GARCIA LORCA
- 2 LORCA FOYER
- 3 RESTAURANT AREA 1
- 4 RESTAURANT AREA 2
- 5 GARCIA LORCA ROOM



GRANADA CONGRESS AND EXHIBITION CENTRE

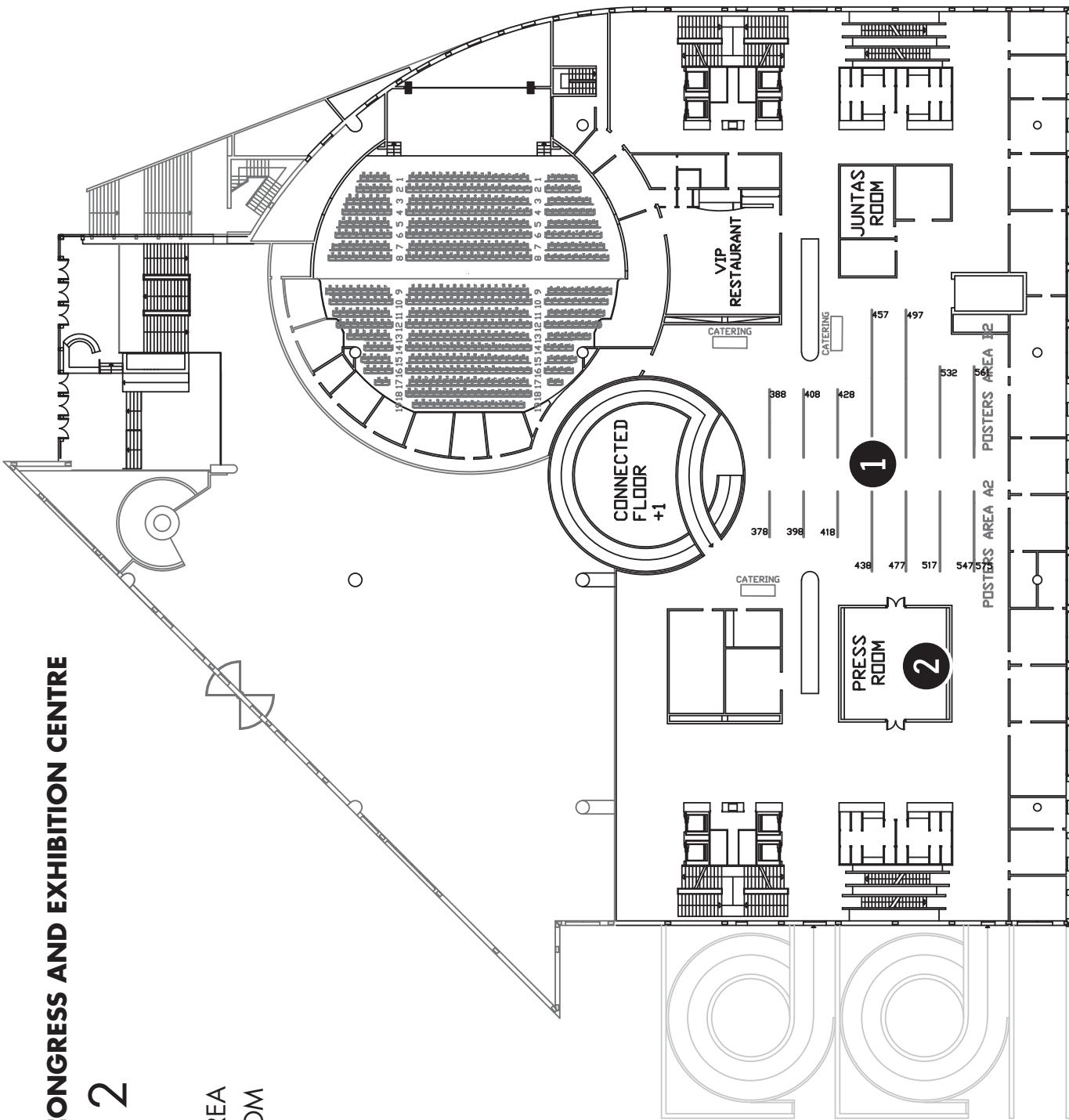
FLOOR 1

- 1 ANDALUCIA 1
- 2 ANDALUCIA 2
- 3 ANDALUCIA 3
- 4 AUDITORIUM MANUEL DE FALLA
- 5 MANUEL DE FALLA ROOM
- 6 POSTER AND EXHIBIT AREA
- 7 SEMINARIO 1-2
- 8 SEMINARIO 3-4-5
- 9 SEMINARIO 6-7
- 10 SEMINARIO 8



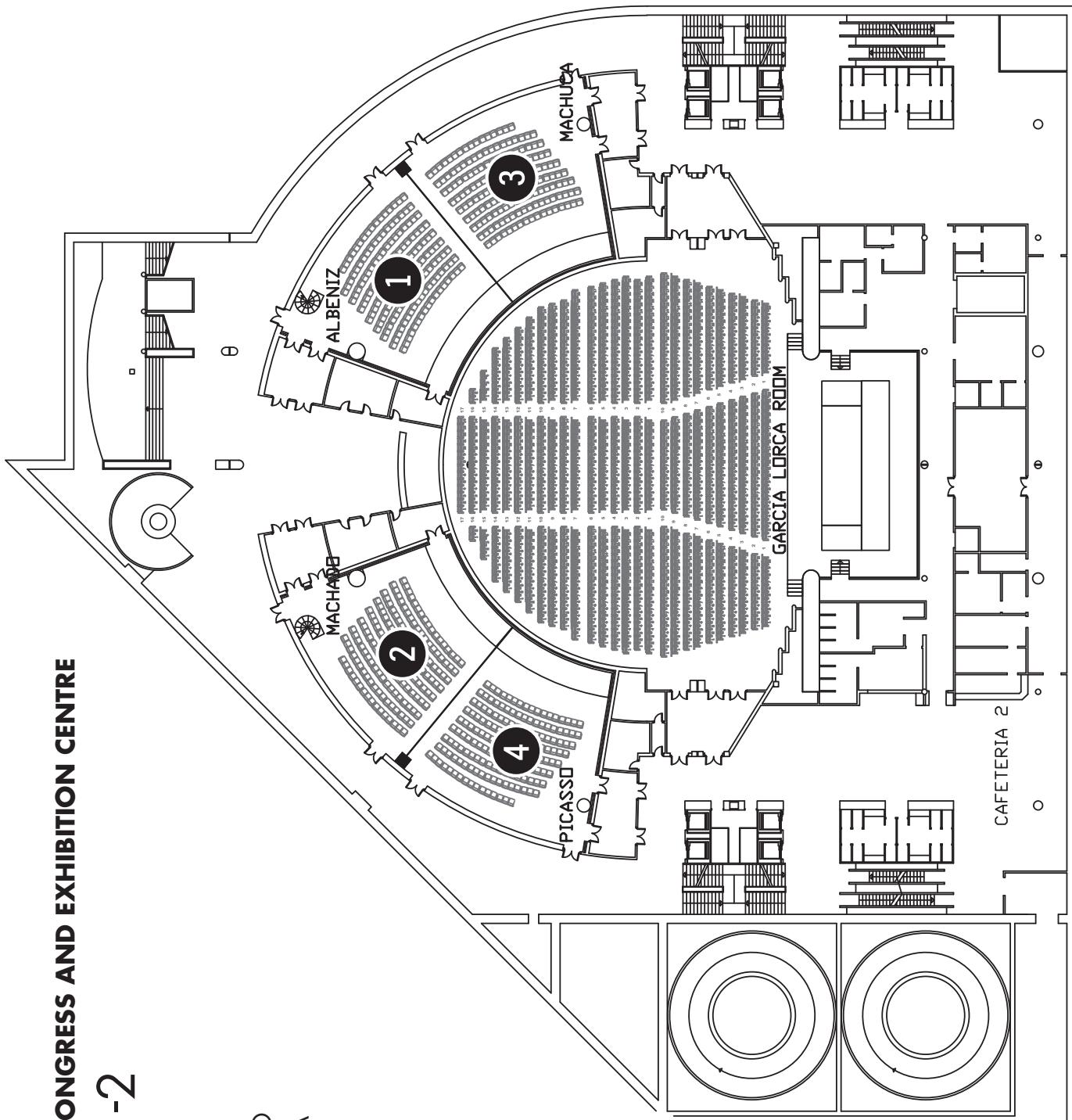
**GRANADA CONGRESS AND EXHIBITION CENTRE
FLOOR 2**

- ① POSTER AREA
- ② PRESS ROOM



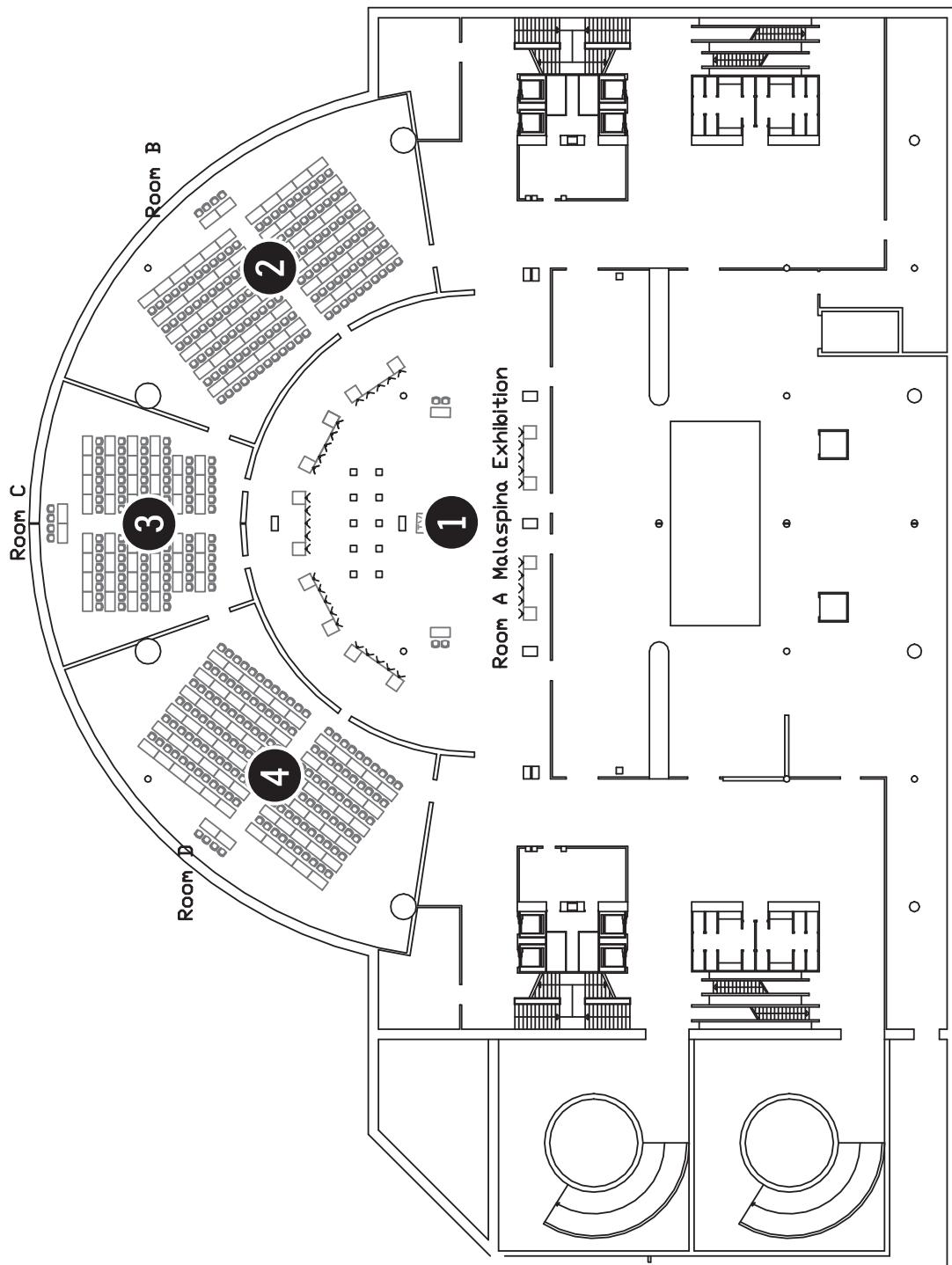
**GRANADA CONGRESS AND EXHIBITION CENTRE
FLOOR -2**

- ① ALBENIZ
- ② MACHADO
- ③ MACHUCA
- ④ PICASSO



GRANADA CONGRESS AND EXHIBITION CENTRE
FLOOR -3

- ① FOYER
- ② ROOM B
- ③ ROOM C
- ④ ROOM D



SCHEDULE AT A GLANCE - MONDAY

Room	MACHADO	ALBENIZ	PICASSO	MACHUCA	ROOM B	ROOM C	ROOM D	MANUEL DE FALLA AUDIT.
Floor	-2	-2	-2	-2	-3	-3	-3	+1
Session #	131	001	059	037	090	076	034	024
08:30 - 10:00	Frontiers in Invasion Ecology Research	ASLO Multi-cultural Program (ASLO MP) Student Symposium	Chemical fluxes across the sediment-water interface:....	The Molecular Ecology of Metal-Microbe Interactions	Aquatic gas fluxes: measurements, drivers and implications for ecosystem processes	Novel Microbial metabolisms and interactions in aquatic systems	Occurrence, impacts and management of cyanobacterial blooms	Small bugs, big impact: linking plankton ecology with ecosystem processes
10:00	Coffee Break							
Session #	131	001	059	037	090	076	034	024
10:30 - 12:00	Frontiers in Invasion Ecology Research	ASLO Multi-cultural Program (ASLO MP) Student Symposium	Chemical fluxes across the sediment-water interface:....	The Molecular Ecology of Metal-Microbe Interactions	Aquatic gas fluxes: measurements, drivers and implications for ecosystem processes	Novel Microbial metabolisms and interactions in aquatic systems	Occurrence, impacts and management of cyanobacterial blooms	Small bugs, big impact: linking plankton ecology with ecosystem processes
12:00 - 13:30	ASLO Award Talks and Plenary Session Auditorium Federico Garcia Lorca (Floor 0)							
13:30 - 15:00	Workshops, Town Halls, Auxiliary Meetings (Includes L&O/Wiley Forum). Details beginning on Page 23.							
Session #	131	001	059	112	090	076	034	024
15:00 - 16:30	Frontiers in Invasion Ecology Research	ASLO Multi-cultural Program (ASLO MP) Student Symposium	Chemical fluxes across the sediment-water interface:....	Are there freshwater biomes?	Aquatic gas fluxes: measurements, drivers and implications for ecosystem processes	Novel Microbial metabolisms and interactions in aquatic systems	Occurrence, impacts and management of cyanobacterial blooms	Small bugs, big impact: linking plankton ecology with ecosystem processes
16:30	Coffee Break							
Session #	131	001	059	087	090	076	034	024
17:00 - 18:30	Frontiers in Invasion Ecology Research	ASLO Multi-cultural Program (ASLO MP) Student Symposium	Chemical fluxes across the sediment-water interface:....	Transbiome impacts of tropical land-use change	Aquatic gas fluxes: measurements, drivers and implications for ecosystem processes	Novel Microbial metabolisms and interactions in aquatic systems	Occurrence, impacts and management of cyanobacterial blooms	Small bugs, big impact: linking plankton ecology with ecosystem processes
18:30 - 20:00	ASLO Business Meeting / ASLO Membership Forum - Auditorium Manuel de Falla (Floor 1) / Foyer (Floor 1)							
20:00 - 22:00	ASLO Student Mixer- Restaurant Area 1 (Floor 0)							

LORCA AUDITORIUM	ANDALUCIA I	ANDALUCIA II	ANDALUCIA III	SEMINARIO 3,4,5	SEMINARIO 6,7	PRESS ROOM	Room
0	+1	+1	+1	+1	+1	+2	Floor
032	114	138	067	099	039	073	Session #
Responses of marine organisms to ocean acidification	Multiple stressors in river ecosystems: challenges for conservation and management	Food Web Interactions and Trophic Linkages	Climate Change in the Baltic Sea: ...	Deep Sea Carbon Flux Dynamics: biological, physical and chemical drivers	Beyond the mean: integrating the effect of variance in aquatic ecology	Coastal Ocean Biological Patterns and Processes at Regional Scales	08:30 - 10:00
Various Locations							10:00
032	114	138	067	099	039	073	Session #
Responses of marine organisms to ocean acidification	Multiple stressors in river ecosystems: challenges for conservation and management	Food Web Interactions and Trophic Linkages	Climate Change in the Baltic Sea: ...	Deep Sea Carbon Flux Dynamics: biological, physical and chemical drivers	Beyond the mean: integrating the effect of variance in aquatic ecology	Coastal Ocean Biological Patterns and Processes at Regional Scales	10:30 - 12:00
Jim Elser - ASLO 2.0: reinventing ourselves to assure relevance, impact, and sustainability Roman Stocker - <i>The Microscale Biophysics of Ocean Microbes</i> A.C. Redfield Lifetime Achievement Award - David Schindler							12:00 - 13:30
Lunch (On your own)							13:30 - 15:00
032	062	138	067	099	004	073	Session #
Responses of marine organisms to ocean acidification	Integrated modelling of lakes in the climate system	Food Web Interactions and Trophic Linkages	Climate Change in the Baltic Sea: ...	Deep Sea Carbon Flux Dynamics: biological, physical and chemical drivers	Advances in Coastal Hypoxia Modeling: From Physics to Fish	Coastal Ocean Biological Patterns and Processes at Regional Scales	15:00 - 16:30
Various Locations							16:30
032	062	109	067	092	004	012	Session #
Responses of marine organisms to ocean acidification	Integrated modelling of lakes in the climate system	Urban coastal Systems in a Changing Climate	Climate Change in the Baltic Sea: ...	Geochemical and Biological Insight into Sulfate-Methane coupling...	Advances in Coastal Hypoxia Modeling: From Physics to Fish	Biogeochemical Processes of Antarctic Shelf Systems	17:00 - 18:30
ASLO Business Meeting / ASLO Membership Forum - Auditorium Manuel de Falla (Floor 1) / Foyer (Floor 1)							18:30 - 20:00
ASLO Early Career Mixer - Restaurant Area 2 (Floor 0)							20:00 - 22:00

SCHEDULE AT A GLANCE - TUESDAY

Room	MACHADO	ALBENIZ	PICASSO	MACHUCA	ROOM B	ROOM C	ROOM D	MANUEL DE FALLA AUDIT.
Floor	-2	-2	-2	-2	-3	-3	-3	+1
Session #	014	002	065	085	090	116	017	024
08:30 - 10:00	Atmospheric deposition effects in aquatic ecosystems	Composition and reactivity of dissolved organic matter (DOM) across landscapes	Biogeochem., physics, and socioecon of groundwater-surface water interactions	Current advances ...approaches for measuring phytoplankton dynamics...	Aquatic gas fluxes: measurements, drivers and implications for ecosystem processes	Impact of microbial biodiversity on aquatic ecosystem functioning & biogeo-chem...	From "Catching the Algae" to the Role of Zooplankton ... Homage to Miquel Alcaraz	Small bugs, big impact: linking plankton ecology with ecosystem processes
10:00	Coffee Break							
Session #	014	002	065	085	090	116	017	024
10:30 - 12:00	Atmospheric deposition effects in aquatic ecosystems	Composition and reactivity of dissolved organic matter (DOM) across landscapes	Biogeochem., physics, and socioecon of groundwater-surface water interactions	Current advances ...approaches for measuring phytoplankton dynamics...	Aquatic gas fluxes: measurements, drivers and implications for ecosystem processes	Impact of microbial biodiversity on aquatic ecosystem functioning & biogeo-chem...	From "Catching the Algae" to the Role of Zooplankton ... Homage to Miquel Alcaraz	Small bugs, big impact: linking plankton ecology with ecosystem processes
12:00 - 13:30	ASLO Award Talks and Plenary Session Auditorium Federico Garcia Lorca (Floor 0)							
13:30 - 15:00	Workshops, Town Halls, Auxiliary Meetings (Includes Student Workshops). Details beginning on Page 23.							
Session #	014	002	065	085	045	116	017	024
15:00 - 16:30	Atmospheric deposition effects in aquatic ecosystems	Composition and reactivity of dissolved organic matter (DOM) across landscapes	Biogeochem., physics, and socioecon of groundwater-surface water interactions	Current advances ...approaches for measuring phytoplankton dynamics...	Addressing regional or global questions about trophic ecology	Impact of microbial biodiversity on aquatic ecosystem functioning & biogeo-chem...	From "Catching the Algae" to the Role of Zooplankton ... Homage to Miquel Alcaraz	Small bugs, big impact: linking plankton ecology with ecosystem processes
16:30	Coffee Break							
Session #	081	002	053	085	045	116	017	024
17:00 - 18:30	Bivalves as nutrient transformers: ...	Composition and reactivity of dissolved organic matter (DOM) across landscapes	Biodiversity and ecosystem services in freshwater ecosystems...	Current advances ...approaches for measuring phytoplankton dynamics...	Addressing regional or global questions about trophic ecology	Impact of microbial biodiversity on aquatic ecosystem functioning & biogeo-chem...	From "Catching the Algae" to the Role of Zooplankton ... Homage to Miquel Alcaraz	Small bugs, big impact: linking plankton ecology with ecosystem processes
18:30 - 20:00	Poster Session and Reception							
20:00 - 21:00	Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							
20:00 - 22:30	Alhambra Night Time Tour (Optional) - Off-site							

LORCA AUDITORIUM	ANDALUCIA I	ANDALUCIA II	ANDALUCIA III	SEMINARIO 3,4,5	SEMINARIO 6,7	PRESS ROOM	Room
0	+1	+1	+1	+1	+1	+2	Floor
032	027	121	133	084	049	120	Session #
Responses of marine organisms to ocean acidification	Mercury Biogeochemistry from Headwaters to the Ocean	Natural and anthropogenic disturbances on deep-sea ecosystems	Aquatic Science Ed and Outreach	Interactive effects of Global Change Environmental Drivers ...	Freshwater ecosystems and the carbon cycle:...	Key players in benthic processes: Micro vs. Macro	08:30 - 10:00
Various Locations							10:00
032	027	121	133	084	049	120	Session #
Responses of marine organisms to ocean acidification	Mercury Biogeochemistry from Headwaters to the Ocean	Natural and anthropogenic disturbances on deep-sea ecosystems	Aquatic Science Ed and Outreach	Interactive effects of Global Change Environmental Drivers ...	Freshwater ecosystems and the carbon cycle:...	Key players in benthic processes: Micro vs. Macro	10:30 - 12:00
Scott Doney - <i>Changing coastal and open-ocean biogeochemistry in the Southern Ocean</i> Anthony Turton - <i>The Need for Transdisciplinarity Arising from the Holocene/Anthropocene Transition – Some Ideas from Water Conflict Resolution in South Africa</i> G. Evelyn Hutchinson Award - Craig Carlson							12:00 - 13:30
Lunch (On your own)							13:30 - 15:00
032	051	020	133	094	044	120	Session #
Responses of marine organisms to ocean acidification	Biogeochemical interactions between riparian and stream ecosystems...	Integrated Temporal Perspectives on Climate Effects on Lake Ecosystems	Aquatic Science Ed and Outreach	Policy Impacts of Aquatic Science: Communicating science to policymakers	Approaches to Regional and Global Lake Monitoring	Key players in benthic processes: Micro vs. Macro	15:00 - 16:30
Various Locations							16:30
032	051	020	133	094	044	113	Session #
Responses of marine organisms to ocean acidification	Biogeochemical interactions between riparian and stream ecosystems...	Integrated Temporal Perspectives on Climate Effects on Lake Ecosystems	Aquatic Science Ed and Outreach	Policy Impacts of Aquatic Science: Communicating science to policymakers	Approaches to Regional and Global Lake Monitoring	Bridging the gap between ecosystem modeling and ecosystem services' assessment...	17:00 - 18:30
Various Locations							18:30 - 20:00
Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							20:00 - 21:00
Alhambra Night Time Tour (Optional) - Off-site							20:00 - 22:30

SCHEDULE AT A GLANCE - WEDNESDAY

Room	MACHADO	ALBENIZ	PICASSO	MACHUCA	ROOM B	ROOM C	ROOM D	MANUEL DE FALLA AUDT.
Floor	-2	-2	-2	-2	-3	-3	-3	+1
Session #	068	007	035	085	045	118	013	008
08:30 - 10:00	Evolutionary effects of ocean warming and acidification	Biological connectivity and its importance within the context of global change	From Past to Present: Ocean Productivity and Biogeochemistry	Current advances ...approaches for measuring phytoplankton dynamics...	Addressing regional or global questions about trophic ecology	Life at small scale: Microscale insights into aquatic systems	Assessing marine ecosystems health in an integrative way	The Global Ocean Ecosystem: Patterns, Drivers and Change
10:00	Coffee Break							
Session #	068	007	035	126	045	118	013	008
10:30 - 12:00	Evolutionary effects of ocean warming and acidification	Biological connectivity and its importance within the context of global change	From Past to Present: Ocean Productivity and Biogeochemistry	Scales of variability in sources and sinks of methane in lakes	Addressing regional or global questions about trophic ecology	Life at small scale: Microscale insights into aquatic systems	Assessing marine ecosystems health in an integrative way	The Global Ocean Ecosystem: Patterns, Drivers and Change
12:00 - 13:30	ASLO Award Talks and Plenary Session Auditorium Federico Garcia Lorca (Floor 0)							
13:30 - 15:00	Workshops, Town Halls, Auxiliary Meetings (Includes Early Career Workshop). Details beginning on Page 23.							
Session #	019	007	035	126	045	118	013	008
15:00 - 16:30	Lakes in the cryosphere: from pole to pole	Biological connectivity and its importance within the context of global	From Past to Present: Ocean Productivity and Biogeochemistry	Scales of variability in sources and sinks of methane in lakes	Addressing regional or global questions about trophic ecology	Life at small scale: Microscale insights into aquatic systems	Assessing marine ecosystems health in an integrative way	The Global Ocean Ecosystem: Patterns, Drivers and Change
16:30	Coffee Break							
Session #	019	007	035	126	082	118	013	008
17:00 - 18:30	Lakes in the cryosphere: from pole to pole	Biological connectivity and its importance within the context of global change	From Past to Present: Ocean Productivity and Biogeochemistry	Scales of variability in sources and sinks of methane in lakes	Aquatic microbial communities across geographic and trophic gradients	Life at small scale: Microscale insights into aquatic systems	Assessing marine ecosystems health in an integrative way	The Global Ocean Ecosystem: Patterns, Drivers and Change
18:30 - 20:00	Poster Session and Reception							
20:00 - 22:00	Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							
20:00 - 23:00	Dinner at La Chumbera Restaurante (Optional) - Off-site							

LORCA AUDITORIUM	ANDALUCIA I	ANDALUCIA II	ANDALUCIA III	SEMINARIO 3,4,5	SEMINARIO 6,7	PRESS ROOM	ROOM
0	+1	+1	+1	+1	+1	+2	Floor
022	054	080	143	036	046	010	Session #
The biogeo-chemistry of dissolved organic matter (DOM)	Advances in our Global Understanding of Ocean Acidification	Diapause strategies in aquatic organisms:...	Community Ecology	Human and jellyfish interactions	Recent ecological change in ancient lakes	Aquaculture & the environment - synergy or antagonism?	08:30 - 10:00
Various Locations							10:00
022	054	080	143	036	046	010	Session #
The biogeo-chemistry of dissolved organic matter (DOM)	Advances in our Global Understanding of Ocean Acidification	Diapause strategies in aquatic organisms:...	Community Ecology	Human and jellyfish interactions	Recent ecological change in ancient lakes	Aquaculture & the environment - synergy or antagonism?	10:30 - 12:00
Tim Lenton - <i>An evolutionary ecology approach to modelling the marine ecosystem and its response to global change</i> Amanda Vincent - <i>Imperfect advice or none at all</i> Ruth Patrick Award - James Cloern John Martin Award - Stephen Carpenter							12:00 - 13:30
Lunch (On your own)							13:30 - 15:00
022	054	080	143	036	040	056	Session #
The biogeo-chemistry of dissolved organic matter (DOM)	Advances in our Global Understanding of Ocean Acidification	Diapause strategies in aquatic organisms:...	Community Ecology	Human and jellyfish interactions	High throughput molecular tools in aquatic ecology	Aquatic microbes in a drop of water: from single cells to community interactions	15:00 - 16:30
Various Locations							16:30
022	130	023	123	100	040	056	Session #
The biogeo-chemistry of dissolved organic matter (DOM)	In situ studies of the impacts of ocean acidification: ...	Biogeochemistry and ecology of African inland waters	Multi-Methods Connectivity Estimates to Improve Marine Protection Design	Microbial biogeochemistry of tidal flats and shallow sediments:...	High throughput molecular tools in aquatic ecology	Aquatic microbes in a drop of water: from single cells to community interactions	17:00 - 18:30
Various Locations							18:30 - 20:00
Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							20:00 - 22:00
Dinner at La Chumbera Restaurante (Optional) - Off-site							20:00 - 23:00

SCHEDULE AT A GLANCE - THURSDAY

Room	MACHADO	ALBENIZ	PICASSO	MACHUCA	ROOM B	ROOM C	ROOM D	MANUEL DE FALLA AUDIT.
Floor	-2	-2	-2	-2	-3	-3	-3	+1
Session #	139	066	035	098	058	005	013	008
08:30 - 10:00	Plankton Ecology - Phytoplankton	Strengthening the palaeo-limnological contribution to global change	From Past to Present: Ocean Productivity and Biogeochemistry	Ecosystem-Scale Approaches to Ecosystem-Scale Questions	Microbial interactions across the domains of life	Protist-omics: a multi-disciplinary exploration of the aquatic micro-eukaryotic world	Assessing marine ecosystems health in an integrative way	The Global Ocean Ecosystem: Patterns, Drivers and Change
10:00	Coffee Break							
Session #	042	066	016	098	058	005	095	008
10:30 - 12:00	Competition within planktonic communities: ...	Strengthening the palaeo-limnological contribution to global change	Meta-communities	Ecosystem-Scale Approaches to Ecosystem-Scale Questions	Microbial interactions across the domains of life	Protist-omics: a multi-disciplinary exploration of the aquatic micro-eukaryotic	Nitrogen limitation in freshwater - is nitrogen reduction ecologically meaningful?	The Global Ocean Ecosystem: Patterns, Drivers and Change
12:00 - 13:30	ASLO Award Talks and Plenary Session Auditorium Federico Garcia Lorca (Floor 0)							
13:30 - 15:00	Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							
Session #	042	066	016	098	058	005	089	008
15:00 - 16:30	Competition within planktonic communities: ...	Strengthening the palaeo-limnological contribution to global change	Meta-communities	Ecosystem-Scale Approaches to Ecosystem-Scale Questions	Microbial interactions across the domains of life	Protist-omics: a multi-disciplinary exploration of the aquatic micro-eukaryotic world	Infochemical controls on biogeochemical processes in aquatic and marine ecosystems	The Global Ocean Ecosystem: Patterns, Drivers and Change
16:30	Coffee Break							
Session #	042	132	016	098	058	005	089	105
17:00 - 18:30	Competition within planktonic communities: ...	Microbial diversity and dynamics in extreme environments	Meta-communities	Ecosystem-Scale Approaches to Ecosystem-Scale Questions	Microbial interactions across the domains of life	Protist-omics: a multi-disciplinary exploration of the aquatic micro-eukaryotic world	Infochemical controls on biogeochemical processes in aquatic and marine ecosystems	Viruses and viral mediated processes in aquatic systems
18:30 - 20:00	Poster Session and Reception							
20:00 - 22:00	Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							
20:00 - 23:00	Dinner at La Chumbera Restaurante (Optional) - Off-site							

LORCA AUDITORIUM	ANDALUCIA I	ANDALUCIA II	ANDALUCIA III	SEMINARIO 3,4,5	SEMINARIO 6,7	PRESS ROOM	Room
0	+1	+1	+1	+1	+1	+2	Floor
022		057	009	071	003	110	Session #
The biogeochemistry of dissolved organic matter (DOM)		The oligotrophic Levantine Sea: state, challenges, and management	Reservoir Limnology	Physiological responses of phytoplankton to resource availability	People Power: The role of Citizen Scientists in aquatic science...	Canyons and Their Deep-sea Fans: When geology meets biology	08:30 - 10:00
Various Locations							10:00
022	075	057	009	071	003	110	Session #
The biogeochemistry of dissolved organic matter (DOM)	Marine Microbial Biodiversity, Bioinformatics, and Biotechnology	The oligotrophic Levantine Sea: state, challenges, and management	Reservoir Limnology	Physiological responses of phytoplankton to resource availability	People Power: The role of Citizen Scientists in aquatic science...	Canyons and Their Deep-sea Fans: When geology meets biology	10:30 - 12:00
Thorsten Dittmar - <i>Fire in the ocean: black carbon in aquatic environments</i> Tamara Galloway - <i>Microscopic plastic debris in aquatic ecosystems</i> Raymond L. Lindeman Award - Hilary G. Close Ramón Margalef Award for Excellence in Education- Marianne V. Moore							12:00 - 13:30
Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							13:30 - 15:00
022	075	086	038	071	140	072	Session #
The biogeochemistry of dissolved organic matter (DOM)	Marine Microbial Biodiversity, Bioinformatics, and Biotechnology	A meeting point for freshwater biogeochemistry and microbial biodiversity: ...	Advances in flux measurements in aquatic environments	Physiological responses of phytoplankton to resource availability	Plankton Ecology - Zooplankton	Physical and biological processes associated with the exchange through Straits: ...	15:00 - 16:30
Various Locations							16:30
142	075	086	038	015	140	072	Session #
Chemical Oceanography/ GEOTRACES	Marine Microbial Biodiversity, Bioinformatics, and Biotechnology	A meeting point for freshwater biogeochemistry and microbial biodiversity: ...	Advances in flux measurements in aquatic environments	Long-term studies of environmental stressors on lake ecosystems	Plankton Ecology - Zooplankton	Physical and biological processes associated with the exchange through Straits: ...	17:00 - 18:30
Various Locations							18:30 - 20:00
Workshops, Town Halls, and Auxiliary Meetings. Details beginning on Page 23.							20:00 - 22:00
Dinner at La Chumbera Restaurante (Optional) - Off-site							20:00 - 23:00

SCHEDULE AT A GLANCE - FRIDAY

Room	MACHADO	ALBENIZ	PICASSO	MACHUCA	ROOM B	ROOM C	ROOM D	MANUEL DE FALLA AUDIT.
Floor	-2	-2	-2	-2	-3	-3	-3	+1
Session #	101	060	011	098	026	137	047	105
08:30 - 10:00	Microscopic plastic debris and its impact on aquatic ecosystems	New insights and perspectives in ecological stoichiometry	The impact of global change on toxic phytoplankton	Ecosystem-Scale Approaches to Ecosystem-Scale Questions	Regime shifts in lakes, rivers, and oceans	Next Generation In Situ Sensors for Aquatic Systems	Aquatic Chemical Ecology - ...organic compounds regulate trophic interactions	Viruses and viral mediated processes in aquatic systems
10:00	Coffee Break							
Session #	101	060	011	028	026	137	047	105
10:30 - 12:00	Microscopic plastic debris and its impact on aquatic ecosystems	New insights and perspectives in ecological stoichiometry	The impact of global change on toxic phytoplankton	Linking organic matter composition and microbial diversity	Regime shifts in lakes, rivers, and oceans	Next Generation In Situ Sensors for Aquatic Systems	Aquatic Chemical Ecology - ...organic compounds regulate trophic interactions	Viruses and viral mediated processes in aquatic systems
12:00 - 13:30	ASLO Award Talks and Plenary Session Auditorium Federico Garcia Lorca (Floor 0)							
13:30 - 15:00	Workshops, Town Halls, Auxiliary Meetings. Details beginning on Page 23.							
Session #	101	060	091	028	026	137	047	105
15:00 - 16:30	Microscopic plastic debris and its impact on aquatic ecosystems	New insights and perspectives in ecological stoichiometry	Bio-optics, optical biogeochemistry, and remote sensing of optically complex waters	Linking organic matter composition and microbial diversity	Regime shifts in lakes, rivers, and oceans	Next Generation In Situ Sensors for Aquatic Systems	Aquatic Chemical Ecology - ...organic compounds regulate trophic interactions	Viruses and viral mediated processes in aquatic systems
16:30	Coffee Break							
Session #	063	060	091	028	026	137	047	105
17:00 - 18:30	Respiration and the oceanic de-oxygenation problem	New insights and perspectives in ecological stoichiometry	Bio-optics, optical biogeochemistry, and remote sensing of optically complex waters	Linking organic matter composition and microbial diversity	Regime shifts in lakes, rivers, and oceans	Next Generation In Situ Sensors for Aquatic Systems	Aquatic Chemical Ecology - ...organic compounds regulate trophic interactions	Viruses and viral mediated processes in aquatic systems
19:45 - 23:00	Closing Banquet at La Mamunia (Optional) - Off-site							

LORCA AUDITORIUM	ANDALUCIA I	ANDALUCIA II	ANDALUCIA III	SEMINARIO 3,4,5	SEMINARIO 6,7	PRESS ROOM	Room
0	+1	+1	+1	+1	+1	+2	Floor
061	050	128	136	033	029	119	Session #
Global climate change: ocean acidification experiments at CO2 vents	Nitrogen-cycle feedbacks: drivers of change?	Planktonic Biodiversity: Spatial & Temporal Components	Advances in Blue Carbon Research	The role of natural ecosystems in coastal protection	Phenology and evolutionary adaptations to seasonality in aquatic ecosystems	Integrated perspectives of Eastern Boundary Upwelling Systems	08:30 - 10:00
Various Locations							10:00
061	050	128	136	033	029	119	Session #
Global climate change: ocean acidification experiments at CO2 vents	Nitrogen-cycle feedbacks: drivers of change?	Planktonic Biodiversity: Spatial & Temporal Components	Advances in Blue Carbon Research	The role of natural ecosystems in coastal protection	Phenology and evolutionary adaptations to seasonality in aquatic ecosystems	Integrated perspectives of Eastern Boundary Upwelling Systems	10:30 - 12:00
Bess Ward - <i>Cryptic pathways of microbial nitrogen transformations in the ocean</i> Peter Raymond - <i>Drainage Networks as Reactors</i> Yentsch-Schindler Early Career Award - Matthew Church							12:00 - 13:30
Lunch (On your own)							13:30 - 15:00
061	050	006	136	033	031	041	Session #
Global climate change: ocean acidification experiments at CO2 vents	Nitrogen-cycle feedbacks: drivers of change?	Ecological impacts of droughts on freshwater ecosystems	Advances in Blue Carbon Research	The role of natural ecosystems in coastal protection	Restoration of lakes, reservoirs, and coastal ecosystems by reducing internal nutrient recycling	Lake Ice Dynamics: Hydrology of Cold Water Bodies	15:00 - 16:30
Various Locations							16:30
061	011	006	083		031	041	Session #
Global climate change: ocean acidification experiments at CO2 vents	The impact of global change on toxic phytoplankton	Ecological impacts of droughts on freshwater ecosystems	Environmental Consequences of Anthropogenic Structure in the Offshore Environment: ...		Restoration of lakes, reservoirs, and coastal ecosystems by reducing internal nutrient recycling	Lake Ice Dynamics: Hydrology of Cold Water Bodies	17:00 - 18:30
Closing Banquet at La Mamunia (Optional) - Off-site							19:45 - 23:00

MONDAY ORALS

001 ASLO MULTICULTURAL PROGRAM (ASLO MP) STUDENT SYMPOSIUM

- Chair(s): Benjamin Cuker, benjamin.cuker@hamptonu.edu
Deidre Gibson, deidre.gibson@hamptonu.edu
- Location: Albeniz (Floor -2)
- 08:30 **Wallace, E. J.**; Gong, D.: INTERANNUAL AND DECADAL VARIABILITY IN TEMPERATURE, SALINITY, AND SHELF WATER VOLUME IN THE MID-ATLANTIC BIGHT FROM 1977 TO 2013 (ID: 25659)
- 08:45 **Ramos, A. N.**: VALIDATION OF MODEL OUTPUT VS ADCP OBSERVATIONS ON THE LA PARGUERA SHELF, SOUTHWEST PUERTO RICO (ID: 25719)
- 09:00 **Maldonado, D. A.**; Keepler, C.; Benitez-Nelson, C.; Greenfield, D. I.: PHYSIOLOGICAL RESPONSES OF THREE HARMFUL ALGAL BLOOM SPECIES TO NITROGEN AND PHOSPHORUS FORMS AND RATIOS IN SOUTH CAROLINA ESTUARIES, USA (ID: 25642)
- 09:15 **Williamson, S. C.**; Rheuban, J. E.; Costa, J. E.; Glover, D. M.; Jakuba, R. W.; Kavanaugh, M. T.; Neill, C.; Doney, S. C.: LONG TERM TRENDS IN WATER QUALITY IN BUZZARDS BAY, MASSACHUSETTS (ID: 26397)
- 09:30 **Castro, P.**; Jauzein, C.; Baker, B. J.; Erdner, D.: BACTERIA-DINOFLAGELLATE INTERACTIONS AND THE DIFFERENTIAL EFFECTS ON THE DINOFLAGELLATE *ALEXANDRIUM* (ID: 25589)
- 09:45 **Perry, D. C.**; Jeppesen, R. K.; Wasson, K.: MACROALGAL BLOOMS OVER TIME AND THE EFFECTS OF WRACK ON SALT MARSH IN ELKHORN SLOUGH ESTUARY (ID: 25743)
- 10:30 **Migliolo, F. X.**; Deheyn, D. D.: RELATIONSHIP BETWEEN REDOX POTENTIAL AND LIGHT PRODUCTION IN THE MUCUS OF THE MARINE TUBEWORM *CHAETOPTERUS SP.* (ID: 26464)
- 10:45 **Emerson, A. N.**; Wheeler, J. D.; Mullineaux, L. S.: EXPLORING THE EFFECTS OF TURBULENT SPIN UP ON LARVAL SWIMMING BEHAVIOR IN THE EASTERN OYSTER (*CRASSOSTREA VIRGINICA*) (ID: 25960)
- 11:00 **Plummer, A.**; Plough, L.; Pierson, J.: CONSEQUENCES OF DIVERSIFICATION AMONG ACARTIA TONSA IN THE CHESAPEAKE BAY (ID: 25582)
- 11:15 **Padilla, A. M.**; Michel, A. P.; Gschwend, M.; Sonnichsen, F.: INVESTIGATING THE USE OF LASER INDUCED BREAKDOWN SPECTROSCOPY FOR IN SITU HEAVY METAL ANALYSIS IN OCEAN SEDIMENTS (ID: 25627)
- 11:30 **Wimberley, A. S.**; DeLorenzo, M.; Chung, K.; Graham, E.; Calvert, M.: EFFECTS OF OIL SPILL DISPERSANTS ON THE GRASS SHRIMP, *PALAEMONETES PUGIO* (ID: 25949)
- 11:45 **Holloway, D. L.**; Kearns, P. J.; Feinman, S. G.; Angell, J. A.; Bowen, J. L.: DIEL CHANGES IN THE ACTIVE MICROBIAL COMMUNITY OF A SALT MARSH TIDE POOL (ID: 26238)
- 15:00 **Taylor, S.**; Cramer, K.; Dooley, K.; Lourie, W.; Mincer, T. J.; Amaral-Zettler, L. A.; Zettler, E. R.: SHORT-TERM MICROBIAL COMMUNITY ASSEMBLY ON PLASTIC MARINE DEBRIS: EVIDENCE FROM EXPERIMENTAL COLONIZATION STUDIES IN THE WATERS OF WOODS HOLE, MA, USA (ID: 26254)
- 15:15 **Cordoba, G. C.**; Arellano, S.: FACTORS THAT AFFECT THE VERTICAL DISTRIBUTION OF OLYMPIA OYSTER LARVAE IN FIDALGO BAY, WA (ID: 26375)

- 15:30 **Luis, K.**; Hetzinger, S.; Von Reumont, J.; Manfrino, C.; Degregori, S.: COMPARATIVE ANALYSIS OF MODERN AND FOSSIL CORAL COMMUNITY STRUCTURE AT LITTLE CAYMAN, CENTRAL CARIBBEAN (ID: 26451)
- 15:45 **Rice, J. A.**: DETERMINATION OF MINERAL COMPOSITION OF BLUE CRAB CARAPACE: ASSESSMENT OF SPATIAL VARIABILITY AND RESPONSE TO ACIDIFICATION IN PATUXENT RIVER, CHESAPEAKE BAY (ID: 26460)
- 16:00 **Nieves, M. A.**; Siuda, A. N.: FACTORS THAT INFLUENCE THE COMPOSITION OF THE RESIDENT MACROFAUNA COMMUNITY ON FREE-FLOATING SARGASSUM (ID: 27669)
- 16:15 **Armengol, L.**; Hernández-León, S.: MICROZOOPLANKTON GRAZING EXPERIMENTS IN SUBTROPICAL WATERS: WHAT IS GOING ON DURING INCUBATION (ID: 26572)
- 17:00 **Abaya, L. M.**; Wiegner, T.; Colbert, S.; Aiwohi, M.; Braun, E.; Tabandera, R.: SPATIAL DISTRIBUTION AND EFFECTS OF SEWAGE IN COASTAL HAWAIIAN WATERS (ID: 27381)
- 17:15 **Givens, K. F.**; Biondo, P.; Watson, A.; Yost, J.: EFFECTS OF SOYBEAN MEAL DIETARY INCLUSION ON INTESTINAL MORPHOLOGY AND GROWTH OF RED DRUM, *SCIAENOPS OCCELLATUS* (ID: 26441)
- 17:30 **Redd, L.**; Schwarz, M. H.; Urick, S.; Breland, M.; Horodysky, A. Z.: EFFECTS OF TEMPERATURE AND FEED TYPE ON GASTRIC EVACUATION OF AQUACULTURED POMPANO (*TRACHINOTUS CAROLINUS*) (ID: 26459)
- 17:45 **King, E. E.**; Laurel, B. J.; Copeman, L. A.: THE ROLE OF CONDITION AND LIPID STORAGE ON SETTLEMENT TIMING IN A PACIFIC FLATFISH SPECIES (ID: 27308)

004 ADVANCES IN COASTAL HYPOXIA MODELING: FROM PHYSICS TO FISH

- Chair(s): Katja Fennel, katja.fennel@dal.ca
Robert Hetland, hetland@tamu.edu
Dubravko Justic, djusti1@lsu.edu
- Location: Seminario 6-7 (Floor 1)
- 15:00 **Lehrter, J.**; Ko, D.; Lowe, L.; Jarvis, B.; Le, C.: APPLICATION OF THE COASTAL GENERAL ECOSYSTEM MODEL (CGEM) TO ASSESS THE IMPACTS OF A FUTURE CLIMATE SCENARIO ON NORTHERN GULF OF MEXICO HYPOXIA (ID: 26938)
- 15:15 **Hetland, R. D.**; Zhang, W.; Fennel, K.; DiMarco, S. F.: SEASONAL HYPOXIA IN THE CONTEXT OF BOTTOM BOUNDARY LAYER DYNAMICS (ID: 26871)
- 15:30 **Yu, L.**; Fennel, K.; Laurent, A.: A MODELLING STUDY OF PHYSICAL CONTROLS ON HYPOXIA GENERATION IN THE NORTHERN GULF OF MEXICO (ID: 25422)
- 15:45 **Laurent, A.**; Fennel, K.; Cai, W.; Huang, W.; Barbero, L.; Wanninkhof, R.: PROCESSES CONTROLLING EUTROPHICATION-INDUCED ACIDIFICATION IN THE NORTHERN GULF OF MEXICO: RESULTS FROM A COUPLED PHYSICAL-BIOGEOCHEMICAL MODEL (ID: 25904)
- 16:00 **Justic, D.**; Wang, L.; Ayyala, I.: EVALUATING THE EFFECTIVENESS OF NUTRIENT MANAGEMENT STRATEGIES FOR REDUCING HYPOXIA IN THE NORTHERN GULF OF MEXICO: LESSONS FROM SIMPLE AND COMPLEX MODELS (ID: 25910)

- 16:15 **Fennel, K.**; Hetland, R.; Justic, D.; Ko, D.; Laurent, A.; Lehrter, J.; Murrell, M.; Wang, L.; Yu, L.; Zhang, W.: INTERCOMPARISON OF HYPOXIA MODELS FOR THE NORTHERN GULF OF MEXICO (ID: 25917)
- 17:00 **Harrison, C. S.**; Hales, B.; Samelson, R. M.; Siedlecki, S.: PHYSICAL-BIOGEOCHEMICAL INTERACTIONS AND OXYGEN DRAWDOWN IN UPWELLING SYSTEMS (ID: 25941)
- 17:15 **Pozo Buil, M.**; Di Lorenzo, E.; Bograd, S. J.: DECADAL PREDICTION OF HYPOXIA ALONG THE US WEST COAST (ID: 26404)
- 17:30 **Schwefel, R.**; Bouffard, D.; Wüest, A. J.: IMPACT OF DEEPWATER MIXING ON HYPOXIA IN LAKE GENEVA (ID: 26979)
- 17:45 **Klump, J. V.**; LaBuhn, S. L.; Koopmans, D.; Waples, J. T.; Hamidi, S.; Bravo, H. R.: MECHANISMS CONTROLLING THE DEVELOPMENT OF HYPOXIA IN GREEN BAY, LAKE MICHIGAN (ID: 27486)
- 18:00 **Bravo, H. R.**; Hamidi, S. A.; Klump, J. V.: STRATIFICATION INDUCED BY CIRCULATION AND HEAT FLUXES LEADS TO HYPOXIA IN GREEN BAY, LAKE MICHIGAN (ID: 27502)
- 18:15 **Roman, M. R.**; Elliott, D. T.; Pierson, J. J.: OVERHEATED AND OUT OF BREATH: TEMPERATURE REGULATION OF RESPIRATION AND OXYGEN SUPPLY IN COASTAL ZOOPLANKTON (ID: 25897)

012 BIOGEOCHEMICAL PROCESSES OF ANTARCTIC SHELF SYSTEMS

Chair(s): Dennis A. Hansell, dhansell@rsmas.miami.edu
 Giacomo DiTullio, DitullioJ@cofc.edu
 Robert B. Dunbar, dunbar@stanford.edu
 Alexander B. Bochdansky, ABochdan@odu.edu
 Monica Orellana, Monica.Orellana@systemsbiology.org
 Roberta L. Hansman, rhansman@gmail.com

Location: Press Room (Floor 2)

- 17:00 Lee, A.; **Orellana, M. V.**; Lopez Garcia de Lomana, A. V.; Jennings, M.; Bercovici, S.; Baliga, N. S.; Hansell, D. A.: PROGRAMMED CELL DEATH IN THE ROSS SEA (ID: 25964)
- 17:15 **Bercovici, S.**; Hansell, D.: BIOGEOCHEMICAL TRANSFORMATIONS OF DENSE SHELF WATERS IN THE ROSS SEA (ID: 25889)
- 17:30 **Hansman, R. L.**; Herndl, G. J.: MICROBIAL CHEMOAUTOTROPHY IN THE WESTERN ROSS SEA (ID: 26080)
- 17:45 **Tortell, P. D.**; Bittig, H. C.; Körtzinger, A.; Jones, E. M.; Hoppema, M.: BIOLOGICAL AND PHYSICAL CONTROLS ON SURFACE GAS DISTRIBUTIONS ALONG THE ANTARCTIC CONTINENTAL SHELF (ID: 27394)
- 18:00 **DeJong, H. B.**; Dunbar, R. B.; Mucciarone, D.; Kowek, D.: CARBON CHEMISTRY OF THE ROSS SEA, ANTARCTICA DURING EARLY AUTUMN: IMPLICATIONS FOR CARBON EXPORT AND CO₂ FLUX (ID: 27680)
- 18:15 **Dunbar, R.**; Riesselman, C.; DeJong, H.; DiTullio, G.; Orellana, M.; Lee, P.; Lee, A.; Hansell, D.: LATE SUMMER ALGAL BLOOMS IN FRAZIL AND PANCAKE ICE OF THE ROSS SEA: ORIGINS, BIOPHYSICAL LINKAGES AND IMPLICATIONS FOR THE C CYCLE (ID: 27659)

024 SMALL BUGS WITH A BIG IMPACT: LINKING PLANKTON ECOLOGY WITH ECOSYSTEM PROCESSES

- Chair(s): Susanne Menden-Deuer, smenden@gso.uri.edu
 Thomas Kiørboe, tk@aqua.dtu.dk
- Location: Auditorium Manuel de Falla (Floor 1)
- 08:30 **Sichlau, M. H.**; Kiørboe, T.; Nielsen, E. E.; Thygesen, U. H.: MATING SUCCESS AND SEXUAL SELECTION IN A PELAGIC COPEPOD, *TEMORA LONGICORNIS* – EVIDENCE FROM PATERNITY ANALYSES (ID: 25421)
- 08:45 **Wollrab, S.**; Diehl, S.: BOTTOM-UP RESPONSES OF THE LOWER OCEANIC FOOD WEB ARE SENSITIVE TO COPEPOD MORTALITY AND FEEDING BEHAVIOUR (ID: 27289)
- 09:00 **Dufour, K.**; Maps , E.; Plourde, S.; Joly, P.; Fortier, L.; Turgeon, J.: INTRAGUILD PREDATION IN ARCTIC AND SUBARCTIC COPEPOD COMMUNITIES (ID: 27170)
- 09:15 **Meunier, C. L.**; Boersma, M.; Wiltshire, K. H.; Malzahn, A. M.: ZOOPLANKTON EATS WHAT IT NEEDS: COPEPOD SELECTIVE FEEDING AND POTENTIAL CONSEQUENCES FOR MARINE SYSTEMS (ID: 25418)
- 09:30 **Uszko, W.**; Diehl, S.: TYPE III FUNCTIONAL RESPONSE IN *DAPHNIA* - IS IT REAL AND DOES IT STABILIZE? (ID: 26119)
- 09:45 **Michalec, F. G.**; Souissi, S.; Holzner, M.: SWIMMING DYNAMICS OF THE CALANOID COPEPOD *EURYTEMORA AFFINIS* IN TURBULENT FLOW (ID: 25687)
- 10:30 Nihongi, A.; Ziarek, J. J.; Nagai, T.; **Uttieri, M.**; Sandulli, R.; Zambianchi, E.; Strickler, J. R.: KAIROMONE-INDUCED CHANGES IN THE INTERSEASONAL SWIMMING BEHAVIOUR OF *DAPHNIA PULICARIA* (CRUSTACEA: CLADOCERA) (ID: 25776)
- 10:45 **Mayor, D. J.**; Sanders, R.; Giering, S. L.; Anderson, T. R.: MICROBIAL GARDENING IN THE OCEAN'S TWILIGHT ZONE: DETRITIVOROUS METAZOANS BENEFIT FROM FRAGMENTING, RATHER THAN INGESTING, SINKING DETRITUS (ID: 27622)
- 11:00 **Gutierrez Rodriguez, A.**; Pillet, L.; Biard, T.; Simo, R.; Not, F.: THE ROLE OF DIMETHYL SULFUR COMPOUNDS AS ANTIOXIDANT IN PLANKTONIC PHOTOSYMBIOSIS AND ITS ECOLOGICAL IMPLICATIONS (ID: 26748)
- 11:15 **Amato, A.**; Kooistra, W.; Peters, F.; Ribera d'Alcalà, M.; Sangès, R.; Iudicone, D.; Ferrante, M. I.: ISOTROPIC MARINE MICROTURBULENCE AFFECTS DIATOM CHAIN COMPOSITION (ID: 26955)
- 11:30 **Berman-Frank, I. R.**; Bar-Zeev, E.; Spungin, D.; Bidle, K.: MECHANISM OF DEATH DETERMINES FATE OF BIOMASS - COUPLING EXPORT PRODUCTION AND PROGRAMMED CELL DEATH IN THE BLOOM FORMING TRICHODESMIUM (ID: 26548)
- 11:45 Grossowicz, M.; Roth-Rosenberg, D.; Aharonovich, D.; Follows, M. J.; **Sher, D.**: THE CHALLENGE OF MODELING A "SIMPLE" ORGANISM WITH A "SIMPLE" MODEL: WHAT DO WE NEED TO KNOW IN ORDER TO MODEL PROCHLOROCOCCUS GROWTH AND DEATH? (ID: 26694)
- 15:00 **Bondoc, K. V.**; Heuschele, J.; Gillard, J.; Vyverman, W.; Pohnert, G.: HUNGRY FOR SILICIC ACID: CHEMOKINETIC MOVEMENT OF THE DIATOM *SEMINAVIS ROBUSTA* TOWARDS SI SOURCES (ID: 27567)

MONDAY

15:15	Kenitz, K. M. ; Andersen, K. H.; Mariani , P.; Visser, A. W.: VERTICAL DISTRIBUTION OF MOTILE AND NON-MOTILE PHYTOPLANKTON AND IMPLICATIONS FOR OPTIMAL FEEDING MODE OF ZOOPLANKTON (ID: 26966)	10:45	Leblud, J.; Moulin, L.; Batigny, A.; Dubois, P.; Grosjean, P. : ECOPHYSIOLOGICAL CHANGES OF A SIMPLIFIED CORAL REEF COMMUNITY FACING OCEAN ACIDIFICATION: A ONE YEAR STUDY IN ARTIFICIAL REEF MESOCOSMS (ID: 26997)
15:30	Cunliffe, M. ; Taylor, J. D.: DNA STABLE ISOTOPE PROBING REVEALS ASSIMILATION OF TRANSPARENT EXOPOLYMER PARTICLES INTO THE COASTAL PLANKTONIC FOOD WEB. (ID: 26011)	11:00	Dungan, A. M. ; Hall, E. R.; Blackwelder, P.; Fogarty, N. D.: EFFECTS OF OCEAN ACIDIFICATION ON GROWTH AND MICROCALCIFICATION DURING CORAL LIFE HISTORY STAGES IN REEF BUILDING CARIBBEAN SPECIES (ID: 27227)
15:45	Polimene, L. ; Mitra, A.; Sailley, S. F.; Ciavatta, S.; Widdicombe, C. E.; Atkinson, A.; Allen, J. I.: DECREASE IN DIATOM PALATABILITY CONTRIBUTES TO BLOOM FORMATION IN THE WESTERN ENGLISH CHANNEL (ID: 25882)	11:15	Camp, E. F. ; Smith, D. J.; Suggett, D.: PHYSIOLOGICAL RESPONSE OF MARGINAL CORALS PROVIDE INSIGHTS TO THE BIOLOGICAL COST OF FUTURE OCEAN ACIDIFICATION (ID: 25565)
16:00	Burian, A. ; Grosse, J.; Boschker, E.; Winder, M.: PHYSIOLOGICAL ADAPTATION AND COMPOUND-SPECIFIC RATES OF BIOLOGICAL PROCESSES IN COPEPODS (ID: 25720)	11:30	Santiago-Vazquez, L. Z. ; Donepudi, S. R.; Kodali, B. K.; Pereira, R. W.; Ramamurthy, S. H.; Sharma, S. R.; Boothe, G. C.; Rivera, S.; Tidwell, I. T.: DOES STRESS CAUSES MICROBIOME AND SECONDARY METABOLITE CHANGES IN THE SOFT CORAL PLEXAURA HOMOMALLA? 16S rDNA AND PROSTAGLANDIN ANALYSIS (ID: 27240)
16:15	Barton, A. D. ; Ward, B. A.; Williams, R. G.; Follows , M. J.: THE ROLES OF TURBULENCE AND ZOOPLANKTON GRAZING IN SHAPING PHYTOPLANKTON COMMUNITY STRUCTURE AND CARBON EXPORT* (ID: 25417)	11:45	Silbiger, N. J. ; Donahue, M. J.: SECONDARY CALCIFICATION AND DISSOLUTION RESPOND DIFFERENTLY TO FUTURE OCEAN CONDITIONS (ID: 25756)
17:15	Luecke, C. M. : LINKAGES BETWEEN COMMUNITY STRUCTURE AND ECOSYSTEM PROCESSES IN LAKES (ID: 25546)	15:00	Jewett, E. B. ; Newton, J. A.; Williamson, P.; Gledhill, D. K.; Busch, S.: MONITORING ECOSYSTEM IMPACTS OF OCEAN ACIDIFICATION: CAN WE DO THIS? (ID: 26874)
17:30	Serret, P. ; Robinson, C.; Aranguren-Gassis, M.; Garcia-Martin, E. E.; Kaiser, N.; Kitidis, V.; Lozano, J.; Stephens, J.; Harris, C.; Thomas, R.: PLANKTON RESPIRATION CAUSES REGIONAL CHANGES IN METABOLIC STATE IN THE OLIGOTROPHIC OCEAN (ID: 27173)	15:15	Taylor, P. J. ; Stahl, H.; Hicks, N.; Vik, U.; Jakobsen, K.: CHANGES IN SEDIMENT BIOGEOCHEMISTRY WHEN EXPOSED TO CARBON DIOXIDE IN A SIMULATED LEAK FROM A SUB- SEABED CARBON CAPTURE AND STORAGE RESERVOIR (ID: 26813)
17:45	Hirst, A. G. ; Horne, C. R.; Atkinson, D.; Kiorboe, T.: UPSCALING PHENOTYPIC PLASTICITY AND PHYSIOLOGICAL RESPONSES* (ID: 27154)	15:45	Bunse, C. ; Lundin, D.; Dopson, M.; Karlsson , C.; Palovaara, J.; Vila-Costa , M.; Calvo, E.; Marrasé , C.; Gasol, J. M.; Pinhassi, J.: OCEAN ACIDIFICATION CAUSES A COMMUNITY-WIDE BACTERIAL PH STRESS RESPONSE (ID: 26708)
18:00	Aldebert, C. ; Nerini, D.; Poggiale, J. C.: IS AN ECOSYSTEM MODEL MORE SENSITIVE TO ITS COMPLEXITY OR ITS FORMULATION? (ID: 25706)	16:00	Ribes, M. ; Calvo, E.; Movilla, J.; Logares, R.; Coma, R.; Pelejero, C.: RESPONSE OF MEDITERRANEAN SPONGES TO OCEAN ACIDIFICATION (ID: 26294)

032 RESPONSES OF MARINE ORGANISMS TO OCEAN ACIDIFICATION, INTERACTIONS WITH OTHER STRESSORS AND BIOGEOCHEMISTRY

Chair(s): Carles Pelejero, carles.pelejero@icrea.cat
Heidi Burdett, hb57@st-andrews.ac.uk

Location: Auditorium Federico Garcia Lorca (Floor 0)

08:30	Widdicombe, S. ; Queirós, A. M.; Fernandes, J. A.; Papathanasiou, E.; Hattam, C.: DEVELOPING METHODS TO ASSESS AND PROJECT SCENARIOS OF OCEAN ACIDIFICATION ON TO POPULATIONS, COMMUNITIES AND ECOSYSTEM SERVICES ^t (ID: 26172)	16:15	Maas, A. E. ; Tarrant, A. M.; Thabet, A. A.; Bergan, A. J.; Lawson, G. L.: AN INTEGRATIVE ASSESSMENT OF SEASONALITY IN THE RESPONSE OF THE THECOSOME PTEROPOD <i>LIMACINA RETROVERSA</i> TO CO ₂ (ID: 25926)
09:00	Roberts, M. : OCEAN ACIDIFICATION: A GLOBAL ISSUE REQUIRING A GLOBAL RESPONSE* (ID: 26231)	17:00	Tarling, G. A. ; Bednarsek, N.; Fielding, S.; Bakker, D.: CAN PTEROPODS BUILD THEIR WAY OUT OF DISSOLUTION? (ID: 27172)
09:15	Mass, T. ; Drake, J. L.; Falkowski, P. G.: THE MECHANISM OF ARAGONITE PRECIPITATION IN CORALS* (ID: 25588)	17:30	Bouquet, J. M. ; Troedsson, C.; Mrutyunjaya, P.; Reeve, M.; Dupont , S.; Novac, A.; Sandnes Skaar, K.; Massart, W.; Manak, J. R.; Thompson, E. M.: GELATINOUS ZOOPLANKTON IN CHANGING OCEANS: THE UROCHORDATE, <i>OIKOPLLEURA DIOICA</i> , IN THE CONTEXT OF OCEANIC WARMING AND PH VARIATION. (ID: 25544)
09:45	Wicks, L. C.; Hennige, S. J.; Kamenos, N. A.; Findlay, H.; Roberts, J. M. : HIDDEN COSTS OF CORAL ACCLIMATION TO OCEAN ACIDIFICATION (ID: 26242)	17:45	Algueró-Muñiz, M. ; Ecker, U.; Malzahn, A. M.; Boersma, M.: MESOZOOPLANKTON COMMUNITY DEVELOPMENT AFFECTED BY OCEAN ACIDIFICATION: RESULTS FROM A LONG-TERM NEAR-NATURAL CONDITIONS EXPERIMENT (ID: 26908)
10:30	Comeau, S. ; Carpenter, R. C.; Lantz, C. A.; Edmunds, P. J.: RESPONSE OF FORE REEF CORAL COMMUNITIES TO OCEAN ACIDIFICATION AND FLOW SPEED (ID: 26457)		

^t REPRESENTS TUTORIAL PRESENTATIONS

18:00	Isari, S. ; Zervoudaki, S.; Pelejero, C.; Peters, J.; Papantoniu, G.; Saiz, E.: VITAL RATES OF MARINE COPEPODS UNDER OCEAN ACIDIFICATION SCENARIOS (ID: 25603)	15:00	Méjean, A. ; Ploux, O.: BIOSYNTHESIS OF THE CYANOBACTERIAL TOXINS, ANATOXINS AND CYLINDROSPERMOPSINS: FROM THE GENES TO THE METABOLITES ^t (ID: 25699)
18:15	Zervoudaki, S. ; Strogloudi, E.; Krasakopoulou, E.; Olsson, H.; Van der Jagt, H.; Dupont, S.: COPEPOD RESPONSE TO THE SYNERGISTIC EFFECT OF ACIDIFICATION AND METAL EXPOSURE (ID: 25980)	15:30	Agha, R. ; Quesada, A.: OLIGOPEPTIDE DIVERSITY IN CYANOBACTERIA. A SCENARIO ON THEIR BIOLOGICAL ROLE. (ID: 25676)
034 OCCURRENCE, IMPACTS AND MANAGEMENT OF CYANOBACTERIAL BLOOMS			
Chair(s):	Nico Salmaso, nico.salmaso@fmach.it Antonio Quesada, antonio.quesada@uam.es Myriam Bormans, myriam.bormans@univ-rennes1.fr	Location:	Room D (Floor -3)
08:30	Ibelings, B. W.; Mantzouki, E.; Bormans, M.; Visser, P. M.; Venail, P. : UNDERSTANDING THE KEY ECOLOGICAL TRAITS OF CYANOBACTERIA AS A BASIS FOR THEIR MANAGEMENT AND CONTROL UNDER EXPECTED ENVIRONMENTAL CHANGE ^t (ID: 26824)	16:00	Casero, M. C. ; Velázquez, D.; Cirés, S.; Quesada, A.: UNRAVELLING THE DIVERSITY OF POTENTIALLY TOXIC CYANOBACTERIA IN RESERVOIRS BY NEXT GENERATION SEQUENCING TECHNIQUES. (ID: 26165)
09:00	Tromas, N. ; Fortin, N.; Greer, C. W.; De Longchamp, D.; Shapiro, B. J.: ECOLOGICAL AND EVOLUTIONARY FORCES SHAPING MICROBIAL DIVERSITY IN FRESHWATER BLOOMS (ID: 25872)	16:15	Cerasino, L. ; Shams, S.; Boscaini, A.; Salmaso, N.: EVOLUTION OF THE TOXIN DIVERSITY IN THE OLIGO-MESOTROPHIC ENVIRONMENT OF LAKE GARDA (ITALY) (ID: 26646)
09:15	Knie, M. ; Rücker, J.; Nixdorf, B.: DOES HIGH RESOURCE USE EFFICIENCY EXPLAIN THE DOMINANCE OF FILAMENTOUS CYANOBACTERIA IN LAKES? (ID: 27536)	17:00	Briand, E. ; Bormans, M.; Gugger, M.; Gerwick, W. H.: CHANGES IN <i>MICROCYSTIS</i> METABOLIC PROFILES IN RESPONSE TO INTRA-SPECIFIC INTERACTIONS EVIDENCED BY A CO-CULTURING/MOLECULAR NETWORKING APPROACH (ID: 26174)
09:30	Yema, L.; Litchman, E.; De Tezanos Pinto, P. : THE ROLE OF THE HETEROZYSTE IN THE ECOLOGY OF TWO BLOOM FORMING NITROGEN FIXING CYANOBACTERIA. (ID: 27454)	17:15	Hartnell, D. M. ; Franklin, D. J.: AUTOINHIBITION OF THE GROWTH IN <i>MICROCYSTIS</i> : A PROCESS THAT COULD YIELD NOVEL ANTIMICROBIALS? (ID: 27382)
09:45	Fadel, A. ; Lemaire, B. J.; Atoui, A. K.; Slim, K.; Vinçon-Leite, B.: MODELLING THE SEASONAL SUCCESSION BETWEEN TOXIC CYANOBACTERIA <i>M. AERUGINOSA</i> AND <i>A. OVALISPORUM</i> IN A MIDDLE-EAST RESERVOIR USING A SIMPLIFIED MODEL (ID: 26642)	17:30	Harke, M. J. ; Gobler, C. J.: CHOREOGRAPHY OF GENE EXPRESSION, NITROGEN UPTAKE, AND <i>MICROCYSTIN</i> SYNTHETASE IN THE HARMFUL CYANOBACTERIUM, <i>MICROCYSTIS</i> , GROWN WITH VARYING NITROGEN SOURCES (ID: 27311)
10:30	Bertos-Fortis, M. ; Farnelid, H.; Lindh, M. V.; Casini, M.; Andersson, A.; Pinhassi, J.; Legrand, C.: CYANOBACTERIA SEASONAL DYNAMICS IN A COASTAL-OFFSHORE TRANSECT IN THE BALTIC PROPER (ID: 26763)	17:45	de Senerpont Domis, L. N. ; Lürling, M.; Van de Waal, D. B.: SOMETHING OLD, SOMETHING NEW, SOMETHING BORROWED, SOMETHING BLUE? PULSING NITROGEN TO COMBAT CYANOBACTERIAL DOMINANCE (ID: 26820)
10:45	Zakrisson, A. ; Larsson, U.; Höglander, U.: BALTIC SEA CYANOBACTERIA ADD SIGNIFICANT AMOUNTS OF FIXED NITROGEN TO THE COASTAL SESTON AND ZOOPLANKTON NITROGEN POOLS ALSO WHEN COMBINED NITROGEN IS SUPPLIED (ID: 26660)	18:00	Matthijs, H. C. ; Antoniou, M. G.; Brient, L.; Edwards, C.; Gurbuz, F.; Jasser, I.; Koker, L.; Luimstra , V. M.; Meriluoto, J.; Schurmans, J. M.; Simeunović, J.; Stoica, E.; Svircev, Z.; Vasas, G.; Visser, P. M.; Vitonyte, I.; Weenink, E. F.J.: SURVEY OF HYDROGEN PEROXIDE EFFECTIVENESS FOR MITIGATION OF CYANOBACTERIA IN A RANGE OF LAKES ACROSS EUROPE (ID: 26973)
11:00	Louati, I. ; Pascault, N.; Debroas, D.; Maloufi, S.; Humbert, J. F.; Leloup, J.: HOST-SPECIFICITY OF BACTERIAL COMMUNITIES ASSOCIATED WITH DIFFERENT BLOOM-FORMING FRESHWATER CYANOBACTERIA (ID: 26964)	18:15	Mendes e Mello, M. ; Faassen, E.; Oosterhout, F.; Senerpont Domis , L. N.; Lürling, M.: THE EFFECT OF HYDROGEN PEROXIDE ON DIFFERENT MORPHOTYPES OF THE CYANOBACTERIUM <i>MICROCYSTIS AERUGINOSA</i> (ID: 27175)
11:15	Salmaso, N. ; Capelli, C.; Shams, S.; Boscaini, A.; Tolotti, M.; Cerasino, L.: INVASION OF <i>DOLICHOSPERMUM LEMMERMANNII</i> (CYANOBACTERIA) TO THE DEEP LAKES SOUTH OF THE ALPS: AN UNUSUAL COLONIZATION FROM NORTH TO SOUTH? (ID: 26177)	037 THE MOLECULAR ECOLOGY OF METAL-MICROBE INTERACTIONS IN THE OCEAN ENVIRONMENT	
11:30	Sabart, M.; Legrand, B.; Miras, Y.; Latour, D. : RECURRENCE OF CYANOBACTERIAL BLOOMS SINCE SIX THOUSAND YEARS IN THE FRENCH LAKE AYDAT (ID: 26546)	Chair(s):	Robert Strzepek, robert.strzepek@anu.edu.au Maria Maldonado, mmaldona@eos.ubc.ca Yeala Shaked, yeala.shaked@mail.huji.ac.il
11:45	Marinho, M. M. ; de Araujo Torres, C.; Lürling, M.: ASSESSMENT OF THE EFFECTS OF LIGHT AVAILABILITY ON GROWTH AND COMPETITION BETWEEN STRAINS OF PLANKTOTHRIX AGARDHII AND <i>MICROCYSTIS AERUGINOSA</i> (ID: 25539)	Location:	Machuca (Floor -2)
		08:30	Saito, M. A. ; McIlvin, M. R.; Moran, D. M.; Santoro, A.; Dupont, C.; Goepfert, T. J.; Rafter, P.; Sigman, D. M.; Waterbury, J. W.; Lamborg, C. H.: DISTRIBUTIONS OF OCEANIC MICROBIAL METALLOENZYMES AND THEIR POTENTIAL ROLE IN NITROGEN BIOGEOCHEMICAL CYCLING AS MEASURED BY TARGETED METAPROTEOMICS* (ID: 27386)

* REPRESENTS INVITED PRESENTATIONS

- 08:45 **Gledhill, M.**: FROM IRON TO HEMES: MICROBIAL UTILISATION OF IRON IN THE MARINE ENVIRONMENT* (ID: 26830)
- 09:00 **Shaked, Y.**; Lis, H.; Kranzler, C.; Keren, N.; Morel, F. M.: IRON BIOAVAILABILITY TO PHYTOPLANKTON - AN EMPIRICAL APPROACH (ID: 25518)
- 09:15 **Hogle, S. L.**; Dupont, C. L.; Brahamsha, B.; Barbeau, K. A.: EVOLUTION, ECOLOGY, AND MECHANISMS OF HEME UPTAKE IN THE MARINE ROSEOBACTER LINEAGE (ID: 27584)
- 09:30 **Paz-Yepes, J.**; Morrissey, J.; Sutak, R.; Tanaka, A.; Moustafa, A.; Veluchamy, A.; Thomas, Y.; Botebol, H.; Bouget, F.; McQuaid, J. B.; Tirichine, L.; Allen, A. E.; Lesuisse, E.; Bowler, C.: A NOVEL PROTEIN, UBIQUITOUS IN MARINE PHYTOPLANKTON, CONCENTRATES IRON AT THE CELL SURFACE AND FACILITATES FERRIC IRON UPTAKE (ID: 26076)
- 09:45 Cohen, N. R.; **Burns, W. G.**; Benjamin, J.; Loftus, S.; Johnson, Z.; Sanudo-Wilhelmy, S.; Marchetti, A.: DIATOM AND BACTERIAL INTERACTIONS ALONG A NATURAL IRON GRADIENT AND WITHIN AN IRON/VITAMIN MICROCOISM ENRICHMENT EXPERIMENT (ID: 27238)
- 10:30 **Gauglitz, J. M.**; McIlvin, M. R.; Waterbury, J. B.; Saito, M. A.: INFLUENCE OF IRON ON THE PROTEOME OF THE UNICELLULAR DIAZOTROPH *CROCOSPHAERA WATSONII* WH8501 (ID: 26348)
- 10:45 **Hutchins, D. A.**; Fu, F. X.; Sedwick, P. N.; Garcia, N. S.: IRON LIMITATION INCREASES THE GROWTH AND N₂ FIXATION RATES OF PHOSPHORUS-LIMITED TRICHOODESMIUM AND CROCOSPHAERA (ID: 26151)
- 11:00 **Semeniuk, D. M.**; Maldonado, M. T.: ACQUISITION OF ORGANICALLY COMPLEXED COPPER (CU) BY A HIGH-AFFINITY CU TRANSPORT SYSTEM IN MARINE PHYTOPLANKTON (ID: 26391)
- 11:15 **Godrant, A.**; Bucciarelli, E.; Sarthou, G.; Le Grand, F.; Long, M.; Soudant, P.; Pichereau, V.; Otero-Ferrer, J. L.; Scharek, R.: IRON LIMITATION AND FE/CU CO-LIMITATION DRIVING PHOTOSYNTHESIS AND LIPID STRATEGIES OF THE MARINE DIATOM *T. PSEUDONANA*: A PLURIDISCIPLINARY APPROACH (ID: 26229)
- 11:30 **Samanta, M.**; Ellwood, M.; Strzepek, R.; Mortimer, G.: ZINC ISOTOPES AS A TOOL TO INVESTIGATE ZINC BIOGEOCHEMICAL CYCLING (ID: 26436)
- 11:45 **Bender, S. J.**; Moran, D.; McIlvin, M.; Allen, A. E.; Saito, M.: UNFOLDING COLONY FORMATION MECHANISMS IN *PHAEOCYSTIS ANTARCTICA* (ID: 27320)

039 BEYOND THE MEAN: INTEGRATING THE EFFECT OF VARIANCE IN AQUATIC ECOLOGY

- Chair(s): Alexander Wacker, alexander.wacker@uni-potsdam.de
Apostolos-Manuel Koussoroplis, apostolos.koussoroplis@uni-potsdam.de
- Location: Seminario 6-7 (Floor 1)
- 08:30 **Whitt, D. B.**: PHYSICAL AND BIOGEOCHEMICAL DYNAMICS IN A SUBMESOSCALE FRONT FORCED BY HIGH FREQUENCY WINDS (ID: 27575)
- 08:45 **Gallegos, C. L.**; Neale, P. J.: EVENT-SCALE VARIANCE OF PRIMARY PRODUCTION IN A EUTROPHIC ESTUARY: CONTROLS AND IMPORTANCE (ID: 25874)
- 09:00 **Iglesias-Rodriguez, M. D.**; Matson, P. G.: LOCAL COOLING IN A WARMING OCEAN - PHYSIOLOGICAL IMPACTS ON MARINE PHYTOPLANKTON (ID: 27648)

- 09:15 **Piera, J.**; Campbell, L.; Sosik, H. M.; Anglès, S.; Torrecilla, E.; Sánchez, A. M.: SAMPLING REQUIREMENTS TO CHARACTERIZE THE VARIANCE ON MULTISCALE PROCESSES IN AQUATIC ECOLOGY (ID: 26681)
- 09:30 **Benedetti-Cecchi, L.**: MEANS, VARIANCES AND EXTREMES: FROM FIRST TO HIGHER MOMENTS OF ECOLOGICAL UNDERSTANDING^T (ID: 25535)
- 10:30 **Robson, B. J.**; Geoffroy, L.; Brebion, J.; Mongin, M.; Jones, E.: EVIDENCE-BASED PARAMETER DISTRIBUTIONS FOR ECOLOGICAL MODELS (ID: 26492)
- 10:45 **Guy-Haim, T.**; Raddatz, S.; Silverman, J.; Wahl, M.; Rilov, G.: ENVIRONMENTAL VARIABILITY MAY DETERMINE SPECIES SENSITIVITY TO CLIMATE CHANGE (ID: 25765)
- 11:00 **Downing, A. L.**; Brown, B. L.; Leibold, M. A.: TEMPORAL STABILITY IN AQUATIC FOOD WEBS: THE ROLE OF ENVIRONMENTAL VARIABILITY AND BIODIVERSITY (ID: 26311)
- 11:30 **Koussoroplis, A. M.**; Wacker, A.: COLIMITED IN HETEROGENEOUS ENVIRONMENTS: WHEN AND HOW COVARIANCE MATTERS (ID: 25506)
- 11:45 **Wacker, A.**; Koussoroplis, A. M.: COLIMITED IN HETEROGENEOUS ENVIRONMENTS: ECTOTHERM PERFORMANCE DEPENDS ON TEMPERATURE AND FOOD COVARIANCE (ID: 25433)

059 CHEMICAL FLUXES ACROSS THE SEDIMENT-WATER INTERFACE: PROCESSES, DISTURBANCES AND TECHNIQUES

- Chair(s): Gary Fones, gary.fones@port.ac.uk
Kai Ziervogel, ziervoge@email.unc.edu
- Location: Picasso (Floor -2)
- 08:30 **Cornwell, J. C.**; Owens, M. S.: ENVIRONMENTAL CONTROLS ON SEDIMENT-EXCHANGE OF NUTRIENTS: EXPERIMENTAL AND SAMPLING CONSIDERATIONS^T (ID: 27336)
- 09:00 **Chelsky, A.**; Pitt, K. A.; Ferguson, A. J.; Bennett, W. W.; Teasdale, P. R.; Welsh, D. T.: IMPACTS OF DECOMPOSING JELLYFISH CARRION ON BENTHIC FLUXES AND SEDIMENT REDOX CONDITIONS (ID: 25443)
- 09:15 **Dadi, T.**; Wendt-Pothoff, K.; Friese, K.; Koschorreck, M.: BENTHIC FLUXES OF DISSOLVED ORGANIC CARBON IN DRINKING WATER RESERVOIRS (ID: 25871)
- 09:30 **Vlahos, P.**; Warren, J.; Fike, D.: A NOVEL METHOD FOR TRACKING SULFATE FLUXES IN SEDIMENT-WATER (ID: 27451)
- 09:45 Toussaint, F.; **Rabouille, C.**; Tisnérat-Laborde, N.; Abchiche, A.; Pairaud, I.: A NEW DEVICE TO FOLLOW TEMPORAL VARIATIONS OF OXYGEN DEMAND IN DELTAIC SEDIMENTS: THE LSCE BENTHIC STATION (ID: 26214)
- 10:30 **Soto Neira, J. P.**; Zhu, Q.; Aller, R. C.: MULTIDIMENSIONAL DETERMINATION OF IRON AND MANGANESE FLUXES ACROSS THE SEDIMENT-WATER INTERFACE IN MARINE SEDIMENTS: FROM SUBTIDAL MUDS TO MANGROVES . (ID: 27463)
- 10:45 **Almroth-Rosell, E.**; Eilola, K.; Kuznetsov, I.; Hall, P.; Meier, M.: MODELLING THE OXYGEN DEPENDENT BENTHIC PHOSPHATE FLUXES IN THE BALTIC SEA- A NEW APPROACH (ID: 27505)
- 11:00 Bierlein, K. A.; **Little, J. C.**; Rezvani, M.; Socolofsky, S.; Rueda, F. J.: VARIABLE SEDIMENT OXYGEN UPTAKE IN OXYGENATED LAKES: FROM FIELD OBSERVATIONS TO NUMERICAL SIMULATIONS (ID: 27529)

^T REPRESENTS TUTORIAL PRESENTATIONS

- 11:15 **Alonso-Perez, F.**; Castro, C. G.: BENTHIC OXYGEN AND NUTRIENT FLUXES IN A COASTAL UPWELLING SYSTEM (RAA DE VIGO, NW IBERIAN PENINSULA): SEASONAL TRENDS AND REGULATING FACTORS (ID: 26537)
- 11:30 **Rassmann, J.**; Rabouille, C.; Lansard, B.; Pozzato, L.; Bomblé, B.; Dumoulin, J. P.: THE CARBONATE SYSTEM AT THE SEDIMENT-WATER INTERFACE FORCED BY EARLY DIAGENESIS: A CASE STUDY AT THE RHINE RIVER DELTA (ID: 26122)
- 11:45 **Reader, H. E.**; Stedmon, C. A.: ANOXIA-MEDIATED RELEASE OF DISSOLVED ORGANIC MATTER FROM SEDIMENTS IN THE BALTIC SEA (ID: 26377)
- 15:00 **Ahmerkamp, S.**; Winter, C.; de Beer, D.; Kuypers, M.; Holtappels, M.: THE IMPACT OF BEDFORM MIGRATION AND TRANSIENT CURRENT VELOCITIES ON THE O₂ FLUX IN PERMEABLE SEDIMENTS (ID: 26534)
- 15:15 **Brand, A.**; Dinkel, C.; Holzner, M.; Wehrli, B.: IN-SITU CURRENT MEASUREMENTS AT THE SEDIMENT-WATER INTERFACE OF LAKES USING A HIGH RESOLUTION ACOUSTIC VELOCITY PROFILER (ID: 25403)
- 15:30 **Jeske, T.**; Bertilsson, S.; Wendeberg, A.: MICROBIAL HABITAT HETEROGENEITY ON IN WATER SEDIMENT INTERFACES OF HIGH LATITUDE LAKES (ID: 26834)
- 15:45 **Hoffman, D.**; Mutchler, T.; McCarthy, M. J.; Gardner, W.: COMPARING NITROGEN TRANSFORMATION RATES IN VEGETATED AND UN-VEGETATED MARINE SEDIMENTS OF ST. JOSEPH BAY, FL (ID: 27202)
- 16:00 **Zohar, I.**; Prat, T.; Oppenheim, N.; Litaor, M. I.: NUTRIENTS DYNAMICS AND EUTROPHICATION STATE OF SHALLOW CONSTRUCTED WETLAND IMPACTED BY POTENTIALLY TOO MANY WINTERING BIRDS (ID: 27099)
- 16:15 Samano, M. L.; **Claramunt, I.**; Perez, M. L.; García, A.: PARTITION COEFFICIENT AND POLLUTANTS AVAILABILITY IN ESTUARINE ZONES. (ID: 26719)
- 17:00 **Kalnejais, L. H.**; Percuoco, V. P.: BEYOND DIFFUSION: QUANTIFYING BENTHIC NUTRIENT FLUXES ACROSS CALM TO STORMY CONDITIONS * (ID: 27663)
- 17:15 **Fones, G. R.**; Thompson, C. E.; Couceiro, F.; Statham, P. J.: RESUSPENSION, OXYGEN AND CARBON EFFECTS ON COHESIVE SEDIMENT-WATER COLUMN NUTRIENT EXCHANGE PROCESSES (ID: 26063)
- 17:30 **Olszewska, J. P.**; Spears, B. M.; McDonald, C. M.; Edwards, R.; Foster, T.; Winfield, I. J.; Heal, K. V.: AN ASSESSMENT OF BENTHIC-PELAGIC COUPLING OF ARSENIC IN A SHALLOW LAKE RECOVERING FROM INDUSTRIAL POLLUTION (KINGHORN LOCH, UK) (ID: 26962)
- 17:45 **Joung, D.**; Giles, C.; Xu, Y.; Isles, P.; Gearhart, T.; Schroth, A.: TEMPORAL AND SPATIAL VARIATIONS OF NUTRIENT AND TRACE METALS IN A EUTROPHIC LAKE, MISSISQUOI BAY, LAKE CHAMPLAIN (ID: 27210)
- 18:00 **Ariyarathna, T. S.**; Vlahos, P.; Tobias, C.; Ballantine, M.; Smith, R.; Cooper, C.: TRACKING THE FLUX AND METABOLISM OF EXPLOSIVES IN COASTAL MARINE ECOSYSTEMS USING STABLE ISOTOPIC TRACERS: ROLE OF SEDIMENT (ID: 27507)

062 INTEGRATED MODELLING OF LAKES IN THE CLIMATE SYSTEM

- Chair(s): Klaus D. Joehnk, klaus.joehnk@csiro.au
Wim Thiery, Wim.Thiery@ees.kuleuven.be
Victor Stepanenko, stepanen@srcc.msu.ru
Georgiy Kirillin, kirillin@igb-berlin.de
Stephane Goyette, Stephane.Goyette@unige.ch
Carsten Lemmen, carsten.lemmen@hzg.de
Wolf Mooij, w.mooij@nioo.knaw.nl
- Location: Andalucia 1 (Floor 1)
- 15:00 **MacIntyre, S.**; Vidal, J.: CAPTURING THE CONSEQUENCES OF NON-LINEAR INTERNAL WAVES IN HYDRODYNAMIC MODELS* (ID: 27618)
- 15:15 Hofmeister, R.; Lemmen, C.; Nasrmoaddeli, H.; **Wirtz, K. W.**: DATA, MODELS, AND VIEWS: TOWARDS INTEGRATION OF DIVERSE NUMERICAL MODEL COMPONENTS AND DATA SETS FOR SCIENTIFIC AND PUBLIC DISSEMINATION (ID: 26362)
- 15:30 **Kuiper, J. J.**; van Gerven, L.; Janssen, A.; Janse, J. H.; de Klein, J.; Mooij, W. M.: SERVING MANY AT ONCE: HOW WATER QUALITY MODELLING CAN BENEFIT FROM A DATABASE APPROACH TO MODELLING (DATM) (ID: 26959)
- 15:45 **Toffolon, M.**; Piccolroaz, S.; Majone, B.: HOW LAKES RESPOND TO AIR TEMPERATURE CHANGES: A LUMPED MODEL FOR LONG-TERM PREDICTIONS (ID: 27027)
- 16:00 **Bruce, L. C.**; Frassl, M. A.; Adiyanti, S.; Gal, G.; Read, J. S.; Hipsey, M. R.: BUFFERING THE EFFECTS OF CLIMATE CHANGE: A GLOBAL LAKE MODELLING STUDY (ID: 27721)
- 16:15 **Janssen, A.**; Beusen, A.; Janse, J.; Mooij, W.: GLOBAL VARIATION IN LAKE RESPONSE TO ANTHROPOGENIC STRESSES: AN INTEGRATED MODELLING APPROACH (ID: 26915)
- 17:00 **Perroud, M.**; Goyette, S.: DEVELOPMENT AND VALIDATION OF A COUPLED SINGLE COLUMN LAKE – ATMOSPHERIC MODEL TO SIMULATE THERMAL PROFILES IN LAKE GENEVA (ID: 25891)
- 17:15 **Bueche, T.**; Vetter, M.: THE MIXING BEHAVIOR OF A MEDIUM-SIZED LAKE IN SOUTHERN GERMANY. A MODELING APPROACH BY THE IMPLEMENTATION OF THE NEW COMMUNITY MODEL GLM AND FABM. (ID: 26805)
- 17:30 **Gal, G.**; Schlabin, D.; Gilboa, Y.; Shachar, N.: ENSEMBLE MODELING OF THE IMPACT OF INCREASED FREQUENCY OF CLIMATIC DISTURBANCES ON A SUB-TROPICAL LAKE ECOSYSTEM (ID: 25469)
- 17:45 **Souignac, F.**; Lemaire, B. J.; Martins, J. R.; Tchiguirinskaia, I.; Vincon Leite, B.: 3D MODELLING OF THE INTER-ANNUAL VARIABILITY OF THE MIXING REGIME IN A SHALLOW URBAN LAKE: LAKE CRETEIL, FRANCE (ID: 27232)
- 18:00 **Wen, L.**: IMPACT OF LAKE SALINITY ON LOCAL CLIMATE WITH THE WRF_CLM MODEL (ID: 25563)

MONDAY

067 CLIMATE CHANGE IN THE BALTIC SEA: IMPACTS OF WARMING, DESALINATION, EUTROPHICATION AND ACIDIFICATION

Chair(s): Frank Melzner, fmelzner@geomar.de
Sam Dupont, sam.dupont@bioenv.gu.se
Thorsten Reusch, treusch@geomar.de

Location: Andalucia 3 (Floor 1)

- 08:30 **Johannesson, K.**: POPULATIONS AT THE BRINK - BALTIC SEA MARINE COMMUNITIES UNDER CLIMATE CHANGE^T (ID: 26500)
- 09:15 **Pedersen, M. F.**: HEAT RESPONSE OF DANISH SACCHARINA LATISSIMA (ID: 26585)
- 09:30 **Kremp, A.**; Oja, J.; LeTortorec, A.; Hakanen, P.; Tuimala, J.; Tahvanainen, P.; Suikkanen, S.: DIVERSE SEED BANKS FAVOUR ADAPTATION OF A TOXIC MICRO-ALGA TO FUTURE CLIMATE CONDITIONS IN THE BALTIC SEA (ID: 26541)
- 09:45 **Karlsson, K.**; Puiac, S.; Winder, M.: ADAPTIVE CAPACITY TO CLIMATE CHANGE OF ZOOPLANKTON IN THE BALTIC SEA (ID: 26907)
- 10:30 **Conley, D. J.**; Carstensen, J.; Gustafsson, B.; Slomp, C. P.: HYPOXIA IN THE BALTIC SEA: THE PAST, THE PRESENT AND THE FUTURE^T (ID: 26015)
- 11:00 Findeisen, U.; Hiebenthal, C.; **Melzner, F.**: LONG-TERM IMPACTS OF TEMPERATURE AND OCEAN ACIDIFICATION ON THE SEA STAR ASTERIAS RUBENS FROM A NATURALLY CO₂ ENRICHED FJORD IN THE BALTIC SEA (ID: 27261)
- 11:15 **Pansch, C.**; Havenhand, J.: LONG-TERM ACCUMULATION POTENTIAL OF A MARINE INVERTEBRATE TO FUTURE OCEAN ACIDIFICATION. (ID: 27357)
- 11:30 **Müller, J.**; Schneider, B.; Aßmann, S.; Hammer, K.; Rehder, G.: SPECTROPHOTOMETRIC PH MEASUREMENTS IN THE BALTIC SEA: NECESSITY, CHALLENGES AND SOLUTIONS. (ID: 26902)
- 11:45 **Charrieau, L. M.**; Schoon, P. L.; Chierici, M.; Groeneveld, J.; Kimoto, K.; Kritzberg, E.; Ljung, K.; Sasaki, O.; Toyofuku, T.; Filipsson, H. L.: ZOMBIE FORAMINIFERA REVEAL IMPACTS OF OCEAN ACIDIFICATION IN THE BALTIC SEA (ID: 26930)
- 15:00 **Engström-Öst, J.**; Almén, A. K.; Brutemark, A.; Gorokhova, E.; Hogfors, H.; Lehtinen, S.; Lehtiniemi, M.; Pulina, S.; Suikkanen, S.; Vehmaa, A.: RESPONSES OF PLANKTON TO WARMING AND ACIDIFICATION (ID: 26776)
- 15:15 **Vaquer-Sunyer, R.**; Conley, D. J.; Kritzberg, E. S.: DISSOLVED ORGANIC NITROGEN (DON) INPUTS FROM WASTEWATER TREATMENT PLANT EFFLUENTS INCREASE THE RESPONSE OF PLANKTONIC METABOLIC RATES TO WARMING (ID: 25456)
- 15:30 **Bergen, B.**; Endres, S.; Engel, A.; Sommer, U.; Jürgens, K.: EFFECT OF ACIDIFICATION AND WARMING ON PLANKTONIC BACTERIAL COMMUNITIES DURING TWO SEASONAL PHYTOPLANKTON BLOOM MESOCOSMS (ID: 27422)
- 15:45 **Paul, C.**; Matthiessen, B.; Sommer, U.: WARMING AND ENHANCED CO₂ AFFECT PHYTOPLANKTON SUMMER BLOOMS IN THE BALTIC SEA (ID: 25452)
- 16:00 **Garzke, J.**; Hansen, T.; Ismar, S. M.; Sommer, U.: MULTI-STRESSOR IMPACTS OF OCEAN WARMING AND ACIDIFICATION ON COPEPOD ABUNDANCE, BODY SIZE AND FATTY ACID CONTENT (ID: 27274)

- 16:15 **Dippner, J. W.**; Fründt, B.; Hammer, C.: THE INDIRECT IMPACT OF ATLANTIC MULTI-DECADAL OSCILLATION ON THE WEIGHT OF BALTIC SEA HERRING (ID: 26140)
- 17:00 **Rugiu, L.**; Manninen, I.; Rothäusler, E.; Jormalainen, V.: TOLERANCE AND PHENOTYPIC PLASTICITY OF BALTIC SEA FUOCOIDS TO FUTURE CLIMATE CHANGE CONDITIONS (ID: 26869)
- 17:15 **Al-Janabi, B.**; Kruse, I.; Wahl, M.: INTERACTION BETWEEN INTRASPECIFIC GENETIC DIVERSITY AND ENVIRONMENTAL STRESS IN EARLY LIFE-STAGE MACROALGAE (ID: 26906)
- 17:30 **Pajusalu, L.**; Martin, G.; Pöllämäe, A.; Paalme, T.: RESPONSE OF PHOTOSYNTHETIC ACTIVITY OF MACROPHYTES TO INCREASED CO₂ IN A BRACKISH-WATER ECOSYSTEM (ID: 25838)
- 17:45 **Werner, F. J.**; Graiff, A.; Matthiessen, B.: TEMPERATURE-INDUCED DISRUPTION OF TOP-DOWN CONTROL IMPAIRS THE BALTIC SEA FUCUS VESICULOSUS SYSTEM DURING SUMMER (ID: 25498)
- 18:00 **Nielsen, S. L.**; Palmqvist, A.; Khan, E.; Banta, G. T.: EFFECTS OF ANTHROPOGENIC AND NATURAL MULTIPLE STRESSORS ON EELGRASS (*ZOSTERA MARINA* L.) (ID: 26108)
- 18:15 **Salo, T.**: FROM GENES TO COMMUNITIES: STRESS TOLERANCE IN BALTIC EELGRASS (*ZOSTERA MARINA*) (ID: 26193)

073 COASTAL OCEAN BIOLOGICAL PATTERNS AND PROCESSES AT REGIONAL SCALES

Chair(s): G. Carleton Ray, cr@virginia.edu
Jerry McCormick-Ray, mgm9c@virginia.edu

Location: Press Room (Floor 2)

- 08:30 **Bermejo, R.**; Ramírez-Romero, E.; Vergara, J. J.; Hernández, I.: SPATIAL PATTERNS OF MACROPHYTE COMPOSITION AND LANDSCAPE ALONG THE ROCKY SHORES OF NORTHERN COASTS OF THE ALBORAN SEA: OCEANOGRAPHY VS. GEOMORPHOLOGY. (ID: 25613)
- 08:45 **Fujimura, A. G.**; Reniers, A. J.; Paris, C. B.; Shanks, A. L.; MacMahan, J. H.; Morgan, S. G.: BIOPHYSICAL MODELING OF ONSHORE TRANSPORT OF PHYTO- AND ZOOPLANKTON (ID: 27059)
- 09:00 **Lima, F. P.**; Gomes, F.; Seabra, R.; WetHEY, D. S.; Hilbush, T. J.: MICROCLIMATE, THERMAL STRESS AND BIOGEOGRAPHIC PATTERNS IN THE EUROPEAN ATLANTIC INTERTIDAL (ID: 26670)
- 09:15 **Anglès, S.**; Jordi, A.; Campbell, L.: SHORT-TERM RESPONSES OF THE PHYTOPLANKTON COMMUNITY TO HURRICANES IN A COASTAL SYSTEM OF THE GULF OF MEXICO. (ID: 27279)
- 09:30 **Campbell, L.**; Henrichs, D. W.; Harred, L. B.; Anglès, S.: COASTAL OCEAN PHYTOPLANKTON COMMUNITY COMPOSITION INVESTIGATED WITH THE IMAGING FLOWCYTOBOT IN THE NORTHERN GULF OF MEXICO (ID: 27268)
- 09:45 **McCormick-Ray, M. G.**: OYSTERS AND SEASCAPES PATTERNS IN LAYERS OF SELF-ORGANIZATION (ID: 25622)
- 10:30 **Cabrera, O. C.**; Alabia, I. D.; Villanoy, C. L.; Gordon, A. L.: CHLOROPHYLL AND CIRCULATION PATTERNS IN LAMON BAY, PHILIPPINES (ID: 27379)

^T REPRESENTS TUTORIAL PRESENTATIONS

10:45	Laws, E. A. ; Ye, S.; Pei, S.; DeLaune, R.; Yuknis, N.; Ding, X.; Yuan, H.; Zhao, G.; Wang, J.; Yu, X.: CARBON SEQUESTRATION AND SOIL ACCRETION IN THE DELTAS OF THE YELLOW RIVER AND LIAOHE RIVER, CHINA (ID: 25631)
11:00	Cosme, N. ; Koski, M.; Hauschild, M. Z.: A MARINE EUTROPHICATION IMPACTS ASSESSMENT METHOD IN LCIA COUPLING COASTAL ECOSYSTEMS EXPOSURE TO NITROGEN AND SPECIES SENSITIVITY TO HYPOXIA (ID: 26739)
11:15	Bryant, L. D. ; Dengler, M.; Sommer, S.; Dale, A.; Altabet, M.; Bourbonnais, A.; Dullo, C.: WATER-COLUMN NUTRIENT FLUXES ALONG THE CONTINENTAL MARGIN OF THE PERUVIAN OXYGEN MINIMUM ZONE (ID: 25815)
11:30	Seabra, R. ; Gomes, F.; Wethey, D. S.; Lima, F. P.: WATER WINS OVER AIR: MEDIUM-TERM STRESS LEVELS IN THE LIMPET <i>PATELLA VULGATA</i> ARE MORE LINKED TO WATER THAN AIR TEMPERATURE (ID: 27406)
11:45	Huete-Stauffer, T. M. ; Arandia-Gorostidi, N.; Calvo-Díaz, A.; Nogueira, E.; González, N.; Morán, X. A.: TEMPERATURE EFFECTS ON MICROBIAL CARBON FLUXES IN NORTH EAST ATLANTIC COASTAL WATERS (ID: 25798)
15:00	Klotz, P. M. ; Schloss, I. R.; Dumont, D.: MODELLING THE EFFECTS OF AN OIL SPILL ON THE PLANKTONIC SYSTEM IN THE GULF OF SAN JORGE, ARGENTINA (ID: 27467)
15:15	Hopcroft, R. R. ; Questel, J. M.; Clarke-Hopcroft, C.: INTER-ANNUAL VARIABILITY OF THE PLANKTONIC COMMUNITIES IN THE NORTHEASTERN CHUKCHI SEA: 2008-2014 (ID: 27725)
15:30	Ray, G. C. : SEASCAPES, CLIMATE CHANGE, AND CONSEQUENCES FOR ICE-DEPENDENT PINNIPEDS AND THE BERING SEA ECOSYSTEM (ID: 26384)
15:45	Schloss, I. R. ; Dumont, D.: MODELING PHYTOPLANKTON DYNAMICS IN A COASTAL ANTARCTIC ENVIRONMENT (ID: 26421)
16:00	Yniguez, A. T. ; Bollozos, I. S.; Villanoy, C. L.: LINKING BIFURCATION SHIFTS AND EDDY PROPAGATION TO CHANGES AT TWO TROPHIC LEVELS (ID: 26668)
16:15	Rodriguez-Garcia, L. ; Martinez, B.; Carreño, F.: PREDICTED EXPANSION OF A TROPICAL HYDROCORAL TO EUROPEAN SHORES IN CLIMATE CHANGE SCENARIOS USING SPECIES DISTRIBUTION MODELS (ID: 26789)

076 NOVEL MICROBIAL METABOLISMS AND INTERACTIONS IN AQUATIC SYSTEMS

Chair(s):	Gerhard Herndl, gerhard.herndl@univie.ac.at Monica V. Orellana, morellana@systemsbiology.org Josep M. Gasol, pepgasol@icm.csic.es Marcelino Suzuki, suzuki@obs-banyuls.fr Christian Jeanton, jeanton@sb-roscoff.fr
Location:	Room C (Floor -3)
08:30	Gonzalez, J. M. ; Gomez-Consarnau, L.; Pedros-Alio, C.; Pinhassi, J.: REGULATION OF GENE EXPRESSION IN PROTEORHODOPSIN-CONTAINING FLAVOBACTERIIA* (ID: 26029)
08:45	Lehours, A. C.; Enault, F.; Boeuf, D.; Jeanthon, C. : NOVEL INSIGHTS INTO ECOLOGICAL PATTERNS OF AEROBIC ANOXYGENIC PHOTOHETEROTROPHIC BACTERIA IN MARINE ENVIRONMENTS* (ID: 25774)

09:00	Koblizek, M. ; Feng, F.; Medova, H.; Dean, J. L.; Zeng, Y.: PURPLE PHOTOSYNTHETIC REACTION CENTERS FOUND IN THE RARE BACTERIAL PHYLUM GEMMATIMONADETES* (ID: 26517)
09:15	Courties, A.; Riedel, T.; Rappaport, A.; Nieslottir, M. C.; Caparros, J.; Catala, P.; Salmeron, C.; Batailler, N.; Lebaron, P.; Suzuki, M. T. : LIGHT-DRIVEN INCREASE IN C YIELD IS LINKED TO MAINTENANCE IN THE PROTEORHODOPSIN-CONTAINING <i>PHOTOBACTERIUM ANGUSTUM</i> S14* (ID: 25817)
09:30	Pachiadaki, M. G. ; Suter, E. A.; Taylor, C.; Montes-Herrera, E.; Taylor, G. T.; Edgcomb, V. P.: POLYPHASIC APPROACH TO MICROBIAL PROCESSES AND INTERACTIONS ALONG A STABLE MARINE REDOXCLINE* (ID: 26388)
09:45	Widner, B. ; Post, A. F.; Mulholland, M. R.; Mopper, K.: COMBINED BIOGEOCHEMICAL AND MICROBIOLOGICAL TOOLS REVEAL CYANATE TO BE A NOVEL NITROGEN SOURCE FOR MARINE PHYTOPLANKTON* (ID: 27525)
10:30	Muñoz-Marín, M. C.; Luque, I.; Gómez-Baena, G.; Beynon, R. j.; Zubkov, M. V.; Hill, P.; González-Ballester, D.; Diez, J.; García-Fernández, J. M. : GLUCOSE UPTAKE BY <i>PROCHLOROCOCCUS</i> : DIVERSITY OF KINETICS AND METABOLIC EFFECTS (ID: 26054)
11:00	Vasquez-Cardenas, D.; van de Vossenberg, J.; Polerecky, L.; Malkin, S. Y.; Schauer, R.; Middelburg, J. J.; Meysman, F.; Boschker, H. T. : MICROBIAL COMMUNITIES AND CARBON METABOLISM ASSOCIATED WITH ELECTROGENIC SULFUR OXIDATION IN COASTAL SEDIMENTS* (ID: 27423)
11:15	Høglund, S. ; Cedhagen, T.; Risgaard-Petersen, N.: NITRATE METABOLISM IN THE GROMIID MICROBIAL UNIVERSE* (ID: 25787)
11:30	Bentzon-Tilia, M.; Severin, I.; Hansen, L. H.; Riemann, L. : GENOMICS AND ECOPHYSIOLOGY OF HETEROTROPHIC NITROGEN FIXING BACTERIA ISOLATED FROM ESTUARINE SURFACE WATER * (ID: 25693)
11:45	Sebastian, M. ; Gonzalez, J. M.; Fredricks, H. F.; Van Mooy, B.; Koblizek, M.; Sa, E. L.; Mostajir, B.; Pitta, P.; Gasol, J. M.: MARINE HETEROTROPHIC BACTERIA SYNTHESIZE NON-PHOSPHORUS LIPIDS UPON PHOSPHORUS STRESS* (ID: 27139)
15:00	Gomez Consarnau, L. ; Sachdeva, R.; Gifford, S. M.; Cutter, L. S.; Fuhrman, J. A.; Sañudo-Wilhelmy, S. A.; Moran, M. A.: B-VITAMIN EXCHANGE AS A CENTRAL NEXUS OF THE MICROBIAL COMMUNITY IN A COASTAL ENVIRONMENT* (ID: 27266)
15:15	Thume, K. ; Gebser, B.; Pohnert, G.: OXIDIZED ZWITTERIONIC SULFUR SPECIES AS POSSIBLE SHORTCUT IN THE MARINE SULFUR CYCLE* (ID: 26525)
15:30	Tinta, T. ; Malfatti, F.; Klun, K.; Kogovsek, T.; Turk, V.; Malej, A.: MARINE HETEROTROPHIC BACTERIA ISOLATES DISPLAY DIVERSE STRATEGY TO UTILIZE JELLYFISH-DERIVED ORGANIC MATTER - INVESTIGATIONS AT THE INDIVIDUAL CELL LEVEL* (ID: 26980)
15:45	Sintes, E. ; Haberleitner, E.; Ortiz, V.; Amano, C.; Varela, M. M.; De Corte, D.; Herndl, G. J.: TAURINE: AN ENERGY "DRINK" FOR DEEP SEA MICROBES* (ID: 26858)

MONDAY

- 16:00 **Hollibaugh, J. T.**; Tolar, B. B.; Popp, B. B.; Wallsgrove, N. J.: EVIDENCE FOR THE DIRECT OXIDATION OF POLYAMINE NITROGEN BY THAUMARCHEAO-TA-DOMINATED MARINE NITRIFYING COMMUNITIES* (ID: 26435)
- 16:15 **Guerrero-Feijoo, E.**; Sintes, E.; Herndl, G. J.; Varela, M. M.: DARK CO₂ FIXATION BY CHEMOLITHOAUTOTROPHIC PROKARYOTES IN THE DEEP-WATER MASSES OF THE NORTH-WEST COAST OF THE IBERIAN PENINSULA* (ID: 26594)
- 17:00 **Tolar, B. B.**; Wallsgrove, N. J.; Popp, B. N.; Hollibaugh, J. T.: OXIDATION OF AMMONIA VERSUS UREA BY MARINE NITRIFYING ORGANISMS* (ID: 27562)
- 17:15 **Bergauer, K.**; Sprenger, R. R.; Garcia, J. A.; Stepanauskas, R.; Herndl, G. J.: A COMPARATIVE METAPROTEOMIC AND GENOMIC SURVEY OF DARK OCEAN MICROBIAL COMMUNITIES* (ID: 26843)
- 17:30 **Bayer, B.**; Vojvoda, J.; Offre, P.; Elisabeth, N.; Garcia, J. A.; Schleper, C.; Herndl, G. J.: DIFFERENT LIFE STRATEGIES OF CLOSELY RELATED THAUMARCHEOTA ISOLATED FROM THE NORTHERN ADRIATIC SEA (ID: 25842)
- 17:45 **Berg, C.**; Feike, J.; Offre, P.; Urich, T.; Schleper, C.; Labrenz, M.; Jürgens, K.: METATRANSCRIPTOMIC PROFILING OF THAUMARCHEOTAL ACTIVITIES AT A PELAGIC REDOX INTERFACE* (ID: 27313)
- 18:00 **Seyler, L. M.**; Gilbert, J. A.; Biddle, J. F.; McGuinness, L. M.; McCartney, M. S.; Gong, D.; Kerkhof, L. J.: DISCERNING MARINE CRENAARCHEAL HETEROTROPHY IN THE NORTH ATLANTIC BY STABLE ISOTOPE PROBING (ID: 27609)

087 TRANSBIOME IMPACTS OF TROPICAL LAND-USE CHANGE

- Chair(s): Emma Rochelle-Newall, emma.rochelle-newall@ird.fr
 Olivier Ribolzi, olivier.ribolzi@ird.fr
 Amy Burgin, aburgin2@unl.edu
 Todd Royer, troyer@indiana.edu
 Gretchen Gettel, g.gettel@unesco-ihe.org
 Anne van Dam, a.vandam@unesco-ihe.org

Location: Machuca (Floor -2)

- 17:00 **Rochelle-Newall, E.**; Pommier, T.; Janeau, J. L.; Trinh, D. A.; Le, Q. P.; Nguyen, H. T.; Le, H. T.; Sengtaheuanghoun, O.; Ribolzi, O.: IMPACT OF LAND-USE CHANGE ON ECOLOGICAL PROCESSES AND ENVIRONMENTAL STABILITY (ID: 26146)
- 17:15 **Ometto, J. P.**; Bustamante, M.; Perez, T.; Pacheco, F.; Martinelli, L. A.: LAND USE CHANGE AND NITROGEN CYCLE, IMPACT IN AQUATIC SYSTEMS IN LATIN AMERICA (ID: 27466)
- 17:30 **Gettel, G.**; Ural, A.: AGRICULTURAL DEVELOPMENT AND WATER QUALITY IN SUB-SAHARAN AFRICA (ID: 27187)
- 17:45 **Uwimana, A.**; Gettel, G.; van Dam, A.; Bigirimana, B.: WATER QUALITY TRENDS WITH AGRICULTURAL LAND USE & LAND COVER DYNAMICS IN MIGINA CATCHMENT, RWANDA (ID: 26937)
- 18:00 Loecke, T.; Burgin, A.; **Thomas, S. A.**; Davis, C.; St. Clair, M.; Riveros-Iregui, D.; Ward, A.: DROUGHT-INDUCED ENRICHMENT OF SOIL NITROGEN LEADS TO RECORD HIGH NITRATE LOADING TO AGRICULTURAL RIVER NETWORKS (ID: 27635)

- 18:15 **Mangala, K. R.**; Cardinal, D.; Sarma, V. V.; Djouraev, I.; Bhaskar, D.: BIOGENIC SILICA DISTRIBUTION AND ITS ASSOCIATED PROCESSES IN THE INDIAN ESTUARIES ALONG CONTRASTED SEASONAL CLIMATE AND LAND USE (ID: 26199)

090 AQUATIC GAS FLUXES: MEASUREMENTS, DRIVERS AND IMPLICATIONS FOR ECOSYSTEM PROCESSES

- Chair(s): Yves Prairie, prairie.yves@uqam.ca
 Sebastian Sobek, sebastian.sobek@ebc.uu.se
 Sally MacIntyre, sally@icess.ucsb.edu
 Marcus Wallin, marcus.wallin@geo.uu.se
 Daniel McGinnis, dfmcginnis@yahoo.com
- Location: Room B (Floor -3)
- 08:30 **Deshpande, B.**; MacIntyre, S.; Matveev, A.; Vincent, W. F.: OVERCOMING PERSISTENT ANOXIA: IMPORTANCE OF FALL MIXING FOR GAS EXCHANGE IN PERMAFROST THAW LAKES (ID: 25438)
- 08:45 **Hotchkiss, E. R.**; Burrows, R. M.; Klaminder, J.; Laudon, H.; Sponseller, R. A.; Karlsson, J.: INTEGRATING STREAM METABOLISM WITH CARBON FLUXES IN A BOREAL RIVER NETWORK (ID: 25525)
- 09:00 **Halbedel, S.**; Gómez Gener, L.; Koschorreck, M.; Marcé, R.; Obrador, B.; von Schiller, D.; Sabater, S.: THE REGULATION OF THE DIC:DO DYNAMIC IN LOTIC AND LENTIC FRESHWATERS (ID: 25527)
- 09:15 **Kortelainen, P.**; Rantakari, M.; Alm, J.; Larmola, T.; Juutinen, S.; Bergström, I.; Huttunen, J. T.; Martikainen, P. J.: N₂O CONCENTRATIONS IN BOREAL LAKES ARE LINKED TO NITRATE (ID: 26041)
- 09:30 **Saarenheimo, J.**; Devlin, S. P.; Syväraanta, J.; Tirola, M.; Jones, R. I.: CASCADING TROPHIC REGULATION OF METHANE EMISSIONS IN A BOREAL LAKE (ID: 26051)
- 09:45 **Allesson, L.**; Ström, L.; Berggren, M.: IMPACT OF PHOTOCHEMICAL PROCESSING OF DOC ON THE BACTERIAL RESPIRATORY QUOTIENT IN AQUATIC ECOSYSTEMS (ID: 26098)
- 10:30 **Wilkinson, G. M.**; Cole, J. J.; Pace, M. L.: THE CONTRIBUTION OF BIOLOGICAL AND PHYSICAL PROCESSES TO THE FORMATION OF METALIMNETIC OXYGEN MAXIMA IN LAKES (ID: 26424)
- 10:45 **Bortolotti, L. E.**; St. Louis, V. L.; Vinebrooke, R. D.; Wolfe, A. P.: ESTIMATING THE METABOLIC STATUS OF PRAIRIE PONDS: LINKING CARBON DIOXIDE FLUXES AND THE DIEL OXYGEN METHOD (ID: 26472)
- 11:00 **Shelley, F.**; Trimmer, M.; Grey, J.: MICROBIAL METHANE OXIDATION CAN SIGNIFICANTLY ALTER THE BALANCE OF CARBON GAS EMISSIONS FROM RIVERS (ID: 27058)
- 11:15 **Obrador, B.**; Von Schiller, D.; Marcé, R.; Gómez-Gener, L.; Koschorreck, M.; Catalán, N.: CO₂ AND CH₄ FLUXES REVEAL STRONG AQUATIC-TERRESTRIAL INTERACTIONS IN TEMPORARY PONDS (ID: 26432)
- 11:30 **Gómez-Gener, L.**; von Schiller, D.; Obrador, B.; Marcé, R.; Casas-Ruiz, J. P.; Proia, L.; Catalán, N.; Acuña, V.; Sabater, S.; Muñoz, M. I.; Koschorreck, M.: HOT SPOTS OF CARBON EMISSIONS FROM MEDITERRANEAN FLUVIAL NETWORKS DURING SEASONAL DROUGHT (ID: 26770)
- 11:45 **Sieczko, A. K.**; Demeter, K.; Mayr, M.; Meisterl, K.; Peduzzi, P.: THE EFFECT OF FLOODING ON CO₂ EVASION FROM A RIVER-FLOODPLAIN SYSTEM. (ID: 27037)

15:00	McGinnis, D. E. ; Kirillin, G.; Tang, K.; Flury, S.; Bodmer, P.; Engelhardt, C.; Casper, P.; Grossart, H. P.: THE BIG ROLE OF TINY BUBBLES: MICROBUBBLES ENHANCE DIFFUSIVE METHANE EMISSIONS FROM OLIGOTROPHIC LAKE STECHLIN (ID: 25572)	17:30	Turchyn, A. V. ; Miller, M.; Byrne, D. J.; Hodell, D. A.; Antler, G. A.: THE SULFATE-METHANE TRANSITION IN MODERN MARINE SEDIMENTS: A CASE STUDY FROM IODP EXPEDITION 339, SITE U1385 (ID: 26751)
15:15	Wallin, M. B. ; Weyhenmeyer, G. W.; Campeau, A.; Bishop, K. H.: SCALING GHG EMISSIONS FROM STREAMS – A REAPPRAISAL OF THE HEADWATER EMISSIONS OF SWEDEN (ID: 25701)	17:45	Antler, G. ; Turchyn, A. V.; Herut, B.; Sivan, O.: A UNIQUE ISOTOPIC FINGERPRINT DURING SULFATE-DRIVEN ANAEROBIC OXIDATION OF METHANE (ID: 26070)
15:30	Melack, J. M. ; MacIntyre, S.; Forsberg, B. R.; Amaral, J. H.: INUNDATION AND GAS FLUXES FROM AMAZON LAKES AND WETLANDS (ID: 25965)	18:00	Avrahamov, N. ; Antler, G.; Yechiel, Y.; Gavrieli, I.; Joye, S. B.; Saxton, M.; Turchyn, A. V.; Sivan, O.: ANAEROBIC OXIDATION OF METHANE BY SULFATE IN HYPERHALINE GROUNDWATER OF THE DEAD SEA AQUIFER (ID: 26734)
15:45	Morales-Pineda, M. ; Úbeda, B.; Cózar, A.; Laiz, I.; Gálvez, J. A.: EPILIMNETIC PCO ₂ VARIABILITY IN MEDITERRANEAN RESERVOIRS AT DIFFERENT TIME SCALES: DO COMMON WATER-ATMOSPHERE GAS EXCHANGE MODELS EXPLAIN PHYSICAL FORCINGS? (ID: 26048)	18:15	Sawicka, J. E. ; Ratray, J. E.; Olsson, C.; Brüchert, V.: SULFATE REDUCTION RATES, METHANE AND NITROUS OXIDE CONCENTRATIONS AT THE OXYCLINE INTERSECTION WITH SEDIMENT IN THE BALTIC SEA. (ID: 27284)
16:00	Serca, D. ; Deshmukh, C.; Delon, C.; Demarty, M.; Jarnot, C.; Chanudet, V.; Guedant, P.; Rode, W.; Descloux, S.; Guerin, F.: PHYSICAL DRIVERS OF CO ₂ AND CH ₄ EMISSIONS DETERMINED FROM EDDY COVARIANCE MEASUREMENTS OVER A SUBTROPICAL HYDROELECTRIC RESERVOIR (NAM THEUN 2, LAO PDR) (ID: 27023)		099 DEEP SEA CARBON FLUX DYNAMICS: BIOLOGICAL, PHYSICAL AND CHEMICAL DRIVERS
16:15	Lauderdale, J. M. ; Dutkiewicz, S.; Scott, J.; Williams, R. G.; Follows, M. J.: OCEANIC CONTROLS OF AIR-SEA CO ₂ FLUXES (ID: 27143)		Chair(s): Clara Manno, clanno@bas.ac.uk Gabriele Stowasser, gsto@bas.ac.uk
17:00	Lundin, E. J. ; Giesler, R.; Mörtb, C. M.; Rocher, G.; Humborg, C.: WHAT DETERMINES THE TEMPORAL VARIATION OF STREAM CO ₂ CONCENTRATION AND THE 13C-DIC SIGNATURE? (ID: 27207)		Location: Seminario 3-4-5 (Floor 1)
17:15	Leith, F. I. ; Dinsmore, K. J.; Wallin, M. B.; Billett, M. F.; Heal, K. V.; Laudon, H.; Oquist, M. G.; Bishop, K.: CARBON DIOXIDE TRANSPORT ACROSS THE HILLSLOPE-RIPARIAN-STREAM CONTINUUM IN A BOREAL HEADWATER CATCHMENT (ID: 25737)		Sanders, R. J. ; Henson, S. A.; Marsay, C. M.: CONTROLS OVER MESOPELAGIC MINERALISATION (ID: 26603)
17:30	Mueller, D. ; Warneke, T.; Rixen, T.; Mueller, M.; Jamahari, S.; Denis, N.; Notholt, J.: LATERAL CARBON FLUXES AND CO ₂ OUTGASSING FROM A TROPICAL PEAT-DRAINING RIVER (ID: 25796)		Belcher, A. C. ; Sanders, R.; Henson, S.; Manno, C.; Tarling, G. A.: ECOSYSTEM STRUCTURE AS A CONTROL ON CARBON FLUX IN THE SCOTIA SEA, ANTARCTICA (ID: 25883)
17:45	Juutinen, S. ; Valkama, P.; Ojala, A.; Halonen, A. I.; Koskinen, K.; Tolppanen, M. E.; Vasander, H.; Salminen, O. M.: HIGH-FREQUENCY DYNAMICS OF CARBON DIOXIDE AND METHANE FLUXES IN A SURFACE FLOW CONSTRUCTED WETLAND AS Affected BY DISCHARGE AND VEGETATION (ID: 25829)		Stone, J. P. ; Steinberg, D. K.: SALP CONTRIBUTION TO CARBON EXPORT IN THE SARGASSO SEA (ID: 27340)
18:00	Rasilo, T. ; del Giorgio, P. A.: LINKING STREAM CO ₂ , CH ₄ AND DOC DYNAMICS TO LATERAL SOIL WATER INPUTS (ID: 26304)		Scharek, R. ; Isla, A.; Latasa, M.; Gonzalez, F.; Fernandez, P.: CONTRIBUTION OF ACTIVE CARBON FLUX BY ZOOPLANKTON DIEL VERTICAL MIGRATION TO DEEP TOTAL FLUX IN THE NW MEDITERRANEAN (ID: 25547)
18:15	Campeau, A. ; Wallin, M.; Bishop, K.; Venkiteswaran, J. J.; Schiff, S. L.: REGIONAL SOURCE ASSESSMENT OF CO ₂ IN HEADWATER STREAMS (ID: 26349)		Bauerfeind, E. ; Nöthig, E. M.; Busch, K.; Hardge, K.; Beszczynska, A.; Metfies, K.; Lalande, C.; Soltwedel, T.: SHIFT IN PARTICULATE MATTER FLUX IN THE EASTERN FRAM STRAIT - RESULTS FROM A LONG-TERM SEDIMENT TRAP STUDY AT THE LTER SITE HAUSGARTEN SINCE 2000 (ID: 26154)
			Salter, I. ; Schiebel, R.; Ziveri, P.; Movellan, A.; Lampitt, R. S.; Wolff, G. A.: CARBONATE COUNTER PUMP STIMULATED BY NATURAL IRON FERTILISATION IN THE POLAR FRONTAL ZONE (ID: 27497)
			Pedrosa Pàmies, R. ; Sànchez Vidal, A.; Calafat, A.; Parinos, C.; Gogou, A.; Canals, M.; Lampadariou, N.: ATMOSPHERIC FORCING OF CARBON EXPORT TO THE DEEP EASTERN MEDITERRANEAN SEA (ID: 26960)
			Cavan, E. L. ; Wolff, G. A.; Thompson, A.; Sanders, R. J.: ORGANIC BIOMARKERS OF SINKING PARTICLES IN THE (ALMOST) DARK OCEAN (ID: 26246)
			Close, H. G. ; Hannides, C. S.; Drazen, J. C.; Popp, B. N.: DEGRADATIVE TRANSFORMATIONS OF STABLE ISOTOPE RATIOS IN SINKING AND SUSPENDED ORGANIC MATTER, FROM SURFACE TO UPPER BATHYPELAGIC DEPTHS, STATION ALOHA (ID: 27523)
			Celussi, M. ; Ingrosso, G.; Malfatti, F.; Tsiala, A.; Pitta, P.; Ziveri, P.; Giani, M.; Del Negro, P.: MEDITERRANEAN PECULIARITIES: WHAT ARE THE MAIN METABOLIC PATHWAYS DRIVING THE C CYCLE IN ITS MESO- AND BATHYPELAGIC WATERS? (ID: 25479)

092 GEOCHEMICAL AND BIOLOGICAL INSIGHT INTO SULFATE-METHANE COUPLING IN MARINE AND MARGINAL MARINE SETTINGS

Chair(s): Orit Sivan, oritsi@bgu.ac.il
Alexandra Turchyn, avt25@cam.ac.uk

Location: Seminario 3-4-5 (Floor 1)

17:00 **Elvert, M.**: ON THE NATURE OF MICROBIAL COMMUNITIES IN SULFATE-METHANE TRANSITION ZONES: NEW INSIGHTS FROM ENVIRONMENTAL AND LABORATORY STUDIES^t (ID: 26799)

MONDAY

- 11:30 **Yamada, Y.**; Fukuda, H.; Tada, Y.; Kogure, K.; Nagata, T.: BACTERIAL ENHANCEMENT OF MICROGEL COAGULATION IN SEAWATER (ID: 26453)
- 15:00 **Waite, A. M.**; Stemmann, L.; Hogg, A. M.; Guidi, L.; Calil, P. H.; Thompson, P. A.; Feng, M.; Picheral, M.; Gorsky, G.: THE "WINE-GLASS EFFECT" IN AN OCEAN VORTEX CONCENTRATES PARTICLE EXPORT AND BIOGEOCHEMICAL FLUXES (ID: 26532)
- 15:15 **Kiko, R.**; Biastoch, A.; Brandt, P.; Hauss, H.; Hummels, R.; Kriest, I.; Schwarzkopf, F.; Vandromme, P.; Oschlies, A.; Stemmann, L.: THE MARINE EQUATORIAL SNOWFALL – A RESULT OF *IN SITU* AGGREGATION OF PARTICLES IN THE DEEP SEA? (ID: 27530)
- 15:30 **Ibello, V.**; Yumruktepe, C. V.; Butenschon, M.; Salihoglu, B.: KEY PROCESSES INFLUENCING PARTICLE CARBON FLUX: A MODELLING STUDY (ID: 27657)
- 15:45 **Villa-Alfageme, M.**; de Soto, F. C.; Le Moigne, F. A.; Ceballos, E. V.; Henson, S.: VARIABILITY IN THE PARTICLE SINKING VELOCITY AND ITS INFLUENCE ON THE EXPORT EFFICIENCY TO THE TWILIGHT ZONE (ID: 26180)
- 16:00 **Ceballos-Romero, E.**; Villa-Alfageme, M.; Le Moigne, F.; Henson, S.; Marsay, C.: COMPARISON OF PELAGRA SEDIMENT TRAPS AND RADIOACTIVE AS PROXIES FOR THE ESTIMATION OF EXPORT EFFICIENCY (ID: 26836)
- 16:15 **Roca-Martí, M.**; Puigcorbé, V.; Masqué, P.; Rutgers van der Loeff, M.; Iversen, M. H.; Hoppe, C. J.; Klaas, C.: CARBON EXPORT IN A BLOOM REGION FROM THE ATLANTIC SECTOR OF THE SOUTHERN OCEAN DERIVED FROM ^{234}Th AND SEDIMENT TRAPS (ID: 26608)

109 URBAN COASTAL SYSTEMS IN A CHANGING CLIMATE

- Chair(s): Linda Duguay, duguay@usc.edu
Michelle Wood, m.michellewood@gmail.com
Doug Capone, Capone@usc.edu
- Location: Andalucia 2 (Floor 1)
- 17:00 **Jaijel, R.**; Goodman, B. N.; Beddows, P.; Carter, A.; Smith, D.; Rissolo, D.; Glover, J. B.; Ben Avraham, Z.: RECONSTRUCTING THE SHORELINE AND CLIMATE OF THE ANCIENT MAYA PORT VISTA ALEGRE USING MARINE GEOARCHAEOLOGICAL METHODS (ID: 25601)
- 17:15 **Ortner, P. B.**; Kelble, C. R.; Fletcher, P. J.; Wood, A. M.: THE MARINE ECOSYSTEM GOAL SETTING (MARES) PROCESS. A SOCIOLOGICAL TESTBED: RESULTS OBTAINED AND LESSONS LEARNED (ID: 26445)
- 17:30 **Cherrier, J.**; Pillich, J.; Klein, Y.: A BLUE-GREEN RESPONSE TO URBAN STORMWATER CHALLENGES (ID: 27475)
- 17:45 **Sullivan, T.**; Zhang, D.; Burgina, C. B.; Regan, E.: SMART CITY INFRASTRUCTURE AND CHANGING CLIMATE: THE ROLE OF AUTONOMOUS SENSING IN PREPARING FOR CHANGE. (ID: 27033)
- 18:00 **Sakamaki, T.**; Morita, A.; Touyama, S.; Watanabe, Y.: SPATIAL VARIATION OF BIOGEOCHEMICAL ENVIRONMENT IN COASTAL AREAS OF A CORAL REEF ISLAND: AN ANALYSIS FOCUSING ON EFFECTS OF WATERSHED LANDUSE AND SPATIAL SCALE (ID: 26503)
- 18:15 **Sánchez-Badorrey, E.**; Sierra-Ruiz, B.: URBANIZED COASTAL SAND BARRIERS IN A CHANGING CLIMATE: IMPACTS ON GROUNDWATER DISCHARGE AND SOLUTE TRANSPORT (ID: 27239)

112 ARE THERE FRESHWATER BIOMES?

- Chair(s): Emily Bernhardt, emily.bernhardt@duke.edu
Nancy Grimm, nbgrimm@asu.edu
- Location: Machuca (Floor -2)
- 15:00 **Bernhardt, E. S.**; Grimm, N. B.: HOW SHOULD WE DEFINE STREAM BIOMES AND WHY DO WE NEED THEM? (ID: 27520)
- 15:15 **Dodds, W. K.**: THE FRESHWATER BIOME GRADIENT CONCEPT (ID: 25908)
- 15:30 **Hawkins, C. P.**; Vander Laan, J. J.; Olson, J. R.; Hill, R. A.; Stoddard, J. L.: ARE THERE FRESHWATER BIOMES?: A VIEW FROM THE ECOLOGICAL ASSESSMENT COMMUNITY (ID: 27592)
- 15:45 **Hall, R. O.**; Stets, E. G.; Stanley, E. H.; Read, J. S.: CONSIDERATIONS IN ESTIMATING TIME SERIES OF STREAM ECOSYSTEM METABOLISM FROM DISSOLVED OXYGEN DATA (ID: 27580)
- 16:00 **Ulseth, A. J.**; Singer, G. A.; Schelker, J.; Battin, T. J.: TEMPERATURE SENSITIVITY OF ECOSYSTEM METABOLISM VARIES ACROSS A FLUVIAL NETWORK (ID: 26012)
- 16:15 **Arroita, M.**; Hall, R. O.; Elosegi, A.: HISTORIC CHANGES OF RIVER METABOLISM: UNDERSTANDING PROS AND CONS OF DIFFERENT METHODS TO CALCULATE THE GAS EXCHANGE RATE (ID: 27484)

114 MULTIPLE STRESSORS IN RIVER ECOSYSTEMS: CHALLENGES FOR CONSERVATION AND MANAGEMENT

- Chair(s): Sergi Sabater, sergi.sabater@udg.edu
Arturo Elosegi, arturo.elosegi@ehu.es
- Location: Andalucia 1 (Floor 1)
- 08:30 **Vila-Costa, M.**; Gioia, R.; Acena, J.; Perez, S.; Casamayor, E. O.; Dachs, J.: IN SITU MICROBIAL RESISTANCE MECHANISM TO SULFONAMIDES: QUANTIFICATION AND FATE OF SULFONAMIDE CONSUMPTION IN THE LLOBREGAT RIVER (NE IBERIAN PENINSULA) (ID: 26073)
- 08:45 **Inostroza, P. A.**; Michalski, S.; Brack, W.; Norf, H.: SEASONAL VARIABILITY OF AMPHIPOD POPULATIONS IN DIFFERENTLY IMPACTED STREAM ECOSYSTEMS: INSIGHTS FROM A FIELD STUDY USING MICROSATELLITES. (ID: 27403)
- 09:00 **Bruno, D.**; Gutiérrez-Cánovas, C.; Velasco, J.; Sánchez-Fernández, D.: FUNCTIONAL REDUNDANCY AS A TOOL FOR BIOMONITORING: A TEST USING RIPARIAN VEGETATION (ID: 25824)
- 09:15 **Lambert, A. S.**; Dabrin, A.; Morin, S.; Foulquier, A.; Gahou, J.; Coquery, M.; Pesce, S.: INFLUENCE OF TEMPERATURE INCREASE ON THE RESPONSE OF RIVER PHOTOTROPHIC BIOFILMS TO A CHRONIC EXPOSURE TO COPPER (ID: 25428)
- 09:30 **Aristi, I.**; Casellas, M.; Petrovic, M.; Sabater, S.; Timoner, X.; Elosegi, A.; Acuña, V.: COMBINED EFFECTS OF NUTRIENTS AND EMERGENT CONTAMINANTS ON STREAM BIOFILMS (ID: 25928)
- 09:45 **Sabater, S.**; Barceló, D.; de Castro, N.; Ginebreda, A.; Petrovic, M.; Ponsati, L.; Muñoz, I.: BIOTIC RESPONSES TO MULTIPLE STRESSORS OCCURRENCE IN MEDITERRANEAN RIVERS (ID: 25982)
- 10:30 **Martín, E. J.**; Doering, M.; Robinson, C. T.: ECOLOGICAL EFFECTS OF A SEDIMENT BYPASS TUNNEL IN AN ALPINE STREAM (ID: 25585)

- 10:45 **Elosegi, A.**; Aristed, I.; Arroita, M.; Ponsati, L.; Sabater, S.; von Schiller, D.; Acuña, V.: STRESS OR SUBSIDY? MIXED EFFECTS OF WWTP EFFLUENTS ON RIVER ECOSYSTEM METABOLISM (ID: 25495)
- 11:00 **Acuña, V.**; Barceló, D.; Corominas, L.; Petrovic, M.; Rodriguez-Mozaz, S.; Ruhí, A.; Sabater, S.; vonSchiller, D.; Elosegi, A.: PHARMACEUTICALS FATE AND EFFECTS IN WWTP EFLUENT INFLUENCED RIVERS (ID: 26255)
- 11:15 **Pusch, M.**; Lorenz, S.; Gabel, F.: ECOLOGICAL EFFECTS OF BOATING ON LAKES AND RIVERS (ID: 27605)
- 11:30 **Samal, N. R.**; Stewart, R. J.; Wollheim, W. M.; Zuidema, S.; Sheehan, K.: CHANGING WATER TEMPERATURE IN NEW ENGLAND: IMPACT OF CLIMATE CHANGE AND IMPLICATIONS FOR ECOSYSTEM SERVICES IN A SNOW DOMINATED REGION (ID: 27557)
- 11:45 **Sushchik, N. N.**; Shulepina, S. P.; Ageev, A. V.; Dubovskaya, O. P.; Kolmakova, A. A.; Kalachova, G. S.; Gladyshev, M. I.: PRODUCTION OF HIGHLY UNSATURATED FATTY ACIDS BY ZOOBENTHOS ACROSS RIVERS CONTRASTING IN TEMPERATURE (ID: 25690)

131 FRONTIERS IN INVASION ECOLOGY RESEARCH: THEORETICAL FRAMEWORKS, METHODS AND APPLICATIONS

Chair(s): Anthony Ricciardi, tony.ricciardi@mcgill.ca
 Hugh MacIsaac, hughm@uwindsor.ca
 Jaimie Dick, j.dick@qub.ac.uk
 Belinda Gallardo, belinda@ebd.csic.es
 Andy Green, ajgreen@ebd.csic.es

Location: Machado (Floor -2)

- 08:30 **Dick, J.**: PREDICTING THE ECOLOGICAL IMPACTS OF INVASIVE SPECIES UNDER MULTIPLE CONTEXT-DEPENDENCIES (ID: 25569)
- 08:45 **Iacarella, J. C.**; Dick, J. T.; Ricciardi, A.: PREDATORY IMPACT OF AN INVASIVE FRESHWATER CRUSTACEAN ALONG A SPATIO-TEMPORAL GRADIENT OF INVASION (ID: 25864)
- 09:00 **Penk, M.**; Irvine, K.; Donohue, I.: ECOSYSTEM-LEVEL EFFECTS OF A GLOBALLY-SPREADING INVERTEBRATE INVADER ARE NOT MODERATED BY THE PRESENCE OF A FUNCTIONALLY SIMILAR NATIVE SPECIES (ID: 26928)
- 09:15 **Barrios-O'Neill, D.**; Dick, J. T.; Emmerson, M. C.; Kelly, R.; Ricciardi, T.; MacIsaac, H. J.: LANDSCAPES OF BIOTIC RESISTANCE: CONTEXT-DEPENDENCIES RESTRUCTURE THE ALLOMETRIC SCALING OF PREDATOR-PREY INTERACTIONS (ID: 26283)
- 09:30 **Loewen, C. J.**; Vinebrooke, R. D.: NATIVE SPECIES DIVERSITY MEDIATES THE IMPACTS OF INVASIVE TROUT ON LAKE COMMUNITIES (ID: 25637)
- 09:45 **MacLennan, M. M.**; Vinebrooke, R. D.: TEMPORAL SYNCHRONIZATION OF INVASIVE SPECIES AND WARMING MAXIMIZES THEIR SYNERGISTIC EFFECT ON PLANKTONIC COMMUNITIES (ID: 27078)
- 10:30 **Mandrak, N. E.**; Howeth, J. G.; Murphy, S.; Lodge, D. M.: PREDICTING FISH INVADERS USING TRAIT-BASED MODELS: LESSONS FROM THE LAURENTIAN GREAT LAKES (ID: 25938)
- 10:45 **Pagnucco, K. S.**; Ricciardi, A.: BIOTIC AND ABIOtic FACTORS AFFECTING IMPACTS OF NON-NATIVE FISHES: A GLOBAL META-ANALYSIS (ID: 25722)

- 11:00 **Raab, D.**; Mandrak, N. E.; Ricciardi, A.: ROUND GOBY IMPACT ON NATIVE FISHES IN A FLOW-MODIFIED LAURENTIAN GREAT LAKES TRIBUTARY (ID: 25459)
- 11:15 **Kovac, V.**: THE THEORY OF ALTERNATIVE ONTOGENIES AND INVASIVE POTENTIAL OR WHY SOME SPECIES OF FISHES MAY BECOME SUCCESSFUL INVADERS (ID: 26909)
- 11:30 **Caiola, N.**; Ibáñez, C.; Verdú, J.; Munné, A.: EFFECTS OF FLOW REGULATION ON THE ESTABLISHMENT OF ALIEN FISH SPECIES: A COMMUNITY STRUCTURE APPROACH TO BIOLOGICAL VALIDATION OF ENVIRONMENTAL FLOWS (ID: 27022)
- 11:45 **Gallardo, B.**; Clavero, M.; Sanchez, M. I.; Vila, M.: INVASIVE SPECIES CASCADING IMPACTS ON AQUATIC ECOSYSTEMS, A GLOBAL META-ANALYSIS (ID: 26617)
- 15:00 **Brown, N. E.**; Therriault, T. W.; Harley, C. G.: ECOLOGICAL RESPONSES TO ASCIDIAN INVASION AND OCEAN ACIDIFICATION BY MARINE FOULING COMMUNITIES (ID: 25519)
- 15:15 **Cvetanovska, E.**; Ricciardi, T.; Hendry, A. P.; Conn, B. D.: LEFT OUT IN THE COLD? VARIATION IN LOW-TEMPERATURE TOLERANCE AMONG INVASIVE POPULATIONS OF THE ASIAN CLAM CORBICULA FLUMINEA (ID: 25736)
- 15:30 **Kratina, P.**; Mac Nally, R.; Thomson, J.; Winder, M.: CHANGES TO INTERACTION NETWORKS AND NUTRITIONAL COMPOSITION ASSOCIATED WITH SPECIES INVASIONS (ID: 26067)
- 15:45 **Willis-Jones, W. E.**; Trimmer, M.; Harvey, G.; Grey, J.: THE INDIRECT IMPACTS OF INVASIVE CRAYFISH BIOTURBATION (ID: 27047)
- 16:00 **Karatayev, A. Y.**; Burlakova, L. E.; Pdilla, D. K.: DIFFERENCE IN SPREAD, POPULATION DYNAMICS, AND ECOSYSTEM IMPACTS OF TWO DREISSENA CONGENERS (ID: 25952)
- 16:15 **Burlakova, L. E.**; Karatayev, A. Y.; Tulumello, B. L.; Zanatta, D. T.; Krebs, R. A.; Schloesser, D. W.; Lucy, F. E.; Mastitsky, S. E.: IMPACTS OF DREISSENID INVASION ON NATIVE UNIONID COMMUNITIES: A SYNTHESIS OF TRENDS IN NORTH AMERICA AND EUROPE (ID: 25716)
- 17:00 **Bailey, S. A.**: GREAT EXPECTATIONS – MAKING THE MOVE TO BALLAST WATER MANAGEMENT SYSTEMS (ID: 26150)
- 17:15 **Chan, F. T.**; Bradie, J. N.; Briski, E.; Bailey, S. A.; MacIsaac, H. J.: ASSESSING INTRODUCTION RISK USING SPECIES' RANK-ABUNDANCE DISTRIBUTIONS (ID: 26158)
- 17:30 **Goldsmith, J.**; Howland, K. L.; Chust, G.; Villarino, E.; Liu, G. Z.; Lukovich, J. V.; Barber, D. G.; Archambault, P.: AQUATIC INVASIVE SPECIES IN THE CANADIAN ARCTIC: PRESENT AND FUTURE HIGH RISK AREAS AND SPECIES (ID: 26296)
- 17:45 **Chain, F. J.**; Brown, E. A.; MacIsaac, H.; Cristescu, M.: MONITORING BIODIVERSITY FOR THE EARLY DETECTION OF INVASIVE SPECIES USING ENVIRONMENTAL DNA AND NEXT GENERATION SEQUENCING (ID: 25914)
- 18:00 **Bowen, J. L.**; Meyerson, L. A.; Kearns, P. J.; Yu, J.; Burger, M. K.: THE *PHRAGMITES AUSTRALIS* RHIZOSPHERE MICROBIOME: A CASE STUDY IN DETERMINING THE ROLE OF MICROBES IN INVASION SUCCESS (ID: 26285)

- 18:15 **Scott, R.**; Gras, R.; MacIsaac, H. J.; Brown, E. A.; Cristescu, M. E.; Zhan, A.: EXPLORING THE BALANCE BETWEEN TYPE I AND TYPE II ERROR IN CLUSTERING OF RIBOSOMAL DNA (18S) SEQUENCES USING UPARSE (ID: 26225)

138 FOOD WEB INTERACTIONS AND TROPHIC LINKAGES

Chair(s): Bill Richardson, wrichardson@usgs.gov

Location: Andalucia 2 (Floor 1)

- 08:30 **Kitchell, J.**; Carpenter, S.; Cole, J.; Pace, M.; Hodgson, J.; Cline, T.: UNEXPECTED OUTCOMES IN EXPERIMENTAL LAKES (ID: 27223)
- 08:45 Carlson, P. E.; McKie, B. G.; Sandin, L.; **Johnson, R. K.**: LAND-USE EFFECTS ON THE DISPERSAL PATTERNS OF STREAM INSECTS: IMPLICATIONS FOR TERRESTRIAL CONSUMERS (ID: 27060)
- 09:00 Lau, D. C.; Vrede, T.; **Goedkoop, W.**: CONTRASTING RESPONSES IN BIODIVERSITY AND FOOD-CHAIN LENGTH TO DISTURBANCES IN LAKES (ID: 27107)
- 09:15 **Quintana, X. D.**; Arim, M.; Badosa, A.; Blanco, J. M.; Boix, D.; Brucet, S.; Compte, J.; Egoscue, J. J.; de Eytos, E.; Gaedke, U.; Gascón, S.; Gil de Solá, L.; Irvine, K.; Jeppesen, E.; Lauridsen, T. L.; López-Flores, R.; Mehner, T.; Romo, S.; Søndergaard, M.: EFFECTS OF PREDATION AND COMPETITIVE INTERACTIONS ON SIZE DISTRIBUTIONS IN AQUATIC ECOSYSTEMS (ID: 27292)
- 09:30 **Yohannes, E.**; Grimm, C.; Behrmann-Godel, G.: PARASITES AS SOURCES OF VARIATION IN FOOD WEB AND TROPHIC LINKAGE : INSGITH FROM CONSUMER-DIET PATTERNS OF PERCH & PIKE TAPEWORM (ID: 27427)
- 09:45 **Richardson, W. B.**; Knights, B.; Kelly, P.; Haro, R.: LIPIDS, EMERGENT INSECTS, AND GROWTH OF INSECTIVOROUS BIRDS: RELATION TO CHLOROPHYLL, NUTRIENTS AND ASIAN CARP IN TWO FLOODPLAIN RIVERS, USA (ID: 27345)

- 10:30 **Makhutova, O. N.**; Zinchenko, T. D.; Sushchik, N. N.; Kalachova, G. S.; Golovatyuk, L. V.; Gladyshev, M. I.: SALINE RIVERS PROVIDE ARID LANDSCAPES WITH A CONSIDERABLE AMOUNT OF BIOCHEMICALLY VALUABLE PRODUCTION OF CHIRONOMID (DIPTERA) LARVAE (ID: 25590)
- 10:45 **Rothhaupt, K. O.**; Yohannes, E.: BIOGENIC METHANE SUPPORTS THE PELAGIC FOOD WEB OF A SMALL EUTROPHIC LAKE (ID: 26910)
- 11:00 **Stibor, H.**; Behl, S.; Pondaven, P.: EXPERIMENTAL ANALYSES OF A NEGLECTED PELAGIC FOOD WEB MODULE (ID: 26767)
- 11:15 Setälä, O.; Dinasquet, J.; Møller, L. F.; Granhag, L.; Hosia, A.; Hovi, M.; Katajisto, T.; Kuosa, H.; Lehtiniemi, M.; **Kuparinen, J.**: FOOD WEB INTERACTIONS IN THE NORTHERN BALTIC SEA DURING AUTUMNAL PHYTOPLANKTON BLOOM MANIPULATED WITH TOP PREDATORS (ID: 25551)
- 11:30 **Scotti, M.**; Mittermayr, A.: TEMPORAL CHANGES IN THE STRUCTURE OF A TEMPERATE ZOSTERA MARINA FOOD WEB (ID: 25831)
- 11:45 **Miller, R. J.**; Page, H. M.; Yorke, R. C.; Koenigs, R. C.: KELP AS A TROPHIC RESOURCE TO REEF FOOD WEBS (ID: 26469)
- 15:00 **Gilarranz, L. J.**; Bascompte, J.: ANTHROPOGENIC EFFECTS ON THE PERSISTENCE OF CARIBBEAN-REEF-FISH COMMUNITIES (ID: 26661)
- 15:15 **De Smet, B.**; De Troch, M.; Vincx, M.; Vanaverbeke, J.: LIVING IN AN ISOTOPICALLY ORDERED WORLD: THE LINK BETWEEN BIOGENIC *LANICE CONCHILEGA* REEFS AND FOOD WEB STRUCTURE OF SANDY BEACH ECOSYSTEMS (ID: 26601)
- 15:30 **Eriksson, B. K.**; Weenstra, J.; Terpstra, S.; van der Zee, E.; van der Heide, T.; Weerman, E.; Donadi, S.: NON-TROPHIC INTERACTIONS CONTROL ENERGY TRANSFER IN AN INTERTIDAL FOOD WEB (ID: 25850)
- 15:45 **Christaki, U.**; Lefèvre, D.; Georges, C.; Blain, S.; Obernosterer, I.: MICROBIAL FOOD WEB DYNAMICS DURING SPRING PHYTOPLANKTON BLOOMS IN THE NATURALLY IRON-FERTILIZED KERGUELEN AREA (SOUTHERN OCEAN) (ID: 25574)

TUESDAY ORALS

002 COMPOSITION AND REACTIVITY OF DISSOLVED ORGANIC MATTER (DOM) ACROSS LANDSCAPES

- Chair(s): Nuria Catalan Garcia, ncatalangarcia@gmail.com
 Dolly Kothawala, dolly.kothawala@ebc.uu.se
 Anne Kellerman, anne.kellerman@ebc.uu.se
 Lars Tranvik, lars.tranvik@ebc.uu.se
- Location: Albeniz (Floor -2)
- 08:30 **Xenopoulos, M. A.**: NOT ALL CARBON IS CREATED EQUAL: DISSOLVED ORGANIC MATTER QUALITY IN FRESHWATER ECOSYSTEMS AND ITS EVOLVING MEANING TO AQUATIC SCIENTISTS AND STAKEHOLDERS^{*} (ID: 26983)
- 09:00 **Williams, C. J.**; Downing, J. A.: LAND USE DOES NOT DRIVE DISSOLVED ORGANIC MATTER COMPOSITION IN INTENSIVE AGRICULTURAL WATERSHEDS (ID: 27690)
- 09:15 **Steinbauer, A. T.**; Frei, S.; Gilfedder, B. S.: EFFECTS OF EXTREME STORM EVENTS ON DOC AND WATER MOBILISATION PROCESSES IN PEATLANDS (ID: 25718)
- 09:30 **Panneer Selvam, B.**; Christensen, T. R.; Guillemette, F.; Lapierre, J. F.; Voigt, C.; Lamprecht, R.; Berggren, M.: EFFECT OF PERMAFROST THAW ON LABILE DISSOLVED ORGANIC CARBON (DOC) IN A NORTHERN PALSA MIRE (ID: 26186)
- 09:45 **Burrows, R. M.**; Sponseller, R. A.: TEMPORAL PATTERNS OF CARBON AND NUTRIENT LIMITATION OF STREAM HETEROtrophic BIOFILMS AMONG DISTINCT BOREAL LANDSCAPE UNITS (ID: 25901)
- 10:45 **McCallister, S. L.**; McIntosh, H.: ENVIRONMENTAL DRIVERS OF RIVERINE ORGANIC MATTER AGE (ID: 27712)
- 11:00 **Casas-Ruiz, J. P.**; Tittel, J.; Marcé, R.; von Schiller, D.; Catalán, N.; Obrador, B.; Gómez-Gener, L.; Zwirnmann, E.; López, P.; Muñoz, I.; Sabater, S.: DISSOLVED ORGANIC MATTER COMPOSITION AND USE ACROSS THE HETEROGENEOUS HABITATS OF A TEMPORARY RIVER DURING SEASONAL DROUGHT (ID: 26163)
- 11:15 **Hein, T.**; Bondar-Kunze, E.; Damir, T.; Marjanovic-Rajcic, M.; Kirschner, A.; Welti, N.; Yeh, T. C.: DOM PROPERTIES IN LARGE RIVERS: INSIGHTS FROM A WHOLE RIVER SURVEY ALONG THE DANUBE (ID: 27390)
- 11:30 **Lambert, T.**; Darchambeau, F.; Bouillon, S.; Alhou, B.; Mbega, J. D.; Teodoru, C.; Nyoni, F. C.; Borges, A. V.: THE EFFECT OF VEGETATION COVER AND HYDROLOGICAL CONNECTIVITY ON THE SPATIAL AND TEMPORAL VARIABILITY OF CDOM AND DOC IN LARGE AFRICAN RIVERS (ID: 26352)
- 11:45 **Dubinenkov, I. V.**; Flerus, R.; Schmitt-Kopplin, P.; Kattner, G.; Koch, B. P.: MOLECULAR REACTIVITY OF DOM ALONG THE LENA RIVER-LAPTEV SEA TRANSITION (ID: 26823)
- 15:00 **Kellerman, A. M.**; Kothawala, D. N.; Dittmar, T.; Tranvik, L. J.: DOES SIZE MATTER? LANDSCAPE-LEVEL CONTROLS AND PATTERNS OF MOLECULAR-LEVEL DISSOLVED ORGANIC MATTER COMPOSITION AND SIZE (ID: 27109)

- 15:15 **Parot, J.**; Guéguen, C.; Parlanti, E.: EXAMINING MOLECULAR SIZE AND COMPOSITION OF AQUATIC DISSOLVED ORGANIC MATTER USING ASYMMETRICAL FLOW FIELD-FLOW FRACTIONATION AND ORBITRAP MASS SPECTROMETRY (ID: 27100)
- 15:30 **Lavonen, E. E.**; Harir, M.; Hertkorn, N.; Schmitt-Kopplin, P.; Köhler, S. J.: TRANSFORMATION OF DISSOLVED ORGANIC MATTER DURING TRANSPORT IN A LARGE SWEDISH LAKE (LAKE MÄLAREN) AND ITS IMPORTANCE FOR DRINKING WATER PRODUCTION (ID: 25612)
- 16:00 **Guillemette, F.**; von Wachenfeldt, E.; Kothawala, D. N.; Bastviken, D.; Tranvik, L. J.: PREFERENTIAL SEQUESTRATION OF ALLOCHTHONOUS ORGANIC MATTER IN LAKE SEDIMENTS (ID: 26370)
- 17:00 **Williamson, C.**; overholt, E. P.; Brentrup, J. A.; Pilla, R.; Leach, T. H.; Schladow, G.; Sadro, S.; Chandra, S.; Caldwell, T.; Watanabe, S.: SENTINEL RESPONSES TO DROUGHT, CLIMATE TELECONNECTIONS, AND WILDFIRE: UV EXPOSURE AND DOM QUALITY IN LAKES (ID: 27280)
- 17:15 **Morales-Williams, A. M.**; Williams, C. J.; Wanamaker, Jr., A. D.; Downing, J. A.: CARBON PROCESSING IN LAKES IS ALTERED MORE BY HYDROLOGIC PERMEABILITY THAN BY LAND-USE (ID: 27692)
- 17:30 **Hornak, K.**; Schmidheiny, H.; Pernthaler, J.: PRONOUNCED SPATIAL AND TEMPORAL VARIABILITY IN THE CONCENTRATIONS OF DISSOLVED FREE AMINO ACIDS IN A MESOTROPHIC LAKE (ID: 26597)
- 17:45 **Valinia, S.**; Futter, M.; Cosby, B.; Rosén, P.; Fölster, J.: A SIMPLE MODEL TO ESTIMATE HISTORICAL AND RECENT TRENDS OF DISSOLVED ORGANIC CARBON IN LAKES (ID: 26627)

014 ATMOSPHERIC DEPOSITION EFFECTS IN AQUATIC ECOSYSTEMS

- Chair(s): Francesc Peters, cesc@icm.csic.es
 Barak Herut, barak@ocean.org.il
 Adina Paytan, apaytan@ucsc.edu
 Cecile Guieu, guieu@obs-vlfr.fr
 Ana M Aguilar-Islas, amaguilarislas@alaska.edu
 Clifton Buck, Clifton.Buck@skio.uga.edu
 Simon Usher, sussher@plymouth.ac.uk
- Location: Machado (Floor -2)
- 08:30 **Rahav, E.**; Herut, B.: THE TRANSPORT OF Viable MICROBIAL ORGANISMS BY DESERT DUST INTO THE EASTERN MEDITERRANEAN SEA: POTENTIAL ECOLOGICAL IMPLICATIONS (ID: 25967)
- 08:45 **Fernandez, E.**; Teira, E.; Barber-Lluch, E.; Hernandez-Ruiz, M.; Sobrino, C.; Teixeira, I. G.; Arbones, B.; Nieto-Cid, M.; Alvarez-Salgado, X. A.; Figueiras, F. G.: COMPLEX BIOMASS AND PRODUCTION RESPONSES OF MICROBIAL PLANKTON TO NATURAL ATMOSPHERIC INPUTS IN A COASTAL ECOSYSTEM (NW IBERIAN COAST) (ID: 26784)
- 09:00 **Sedwick, P.**; Bernhardt, P.; Kernisan, C.; Mendonca, I.; Mulholland, M.; Najjar, R.; Price, L.; Sohst, B.; Sookhdeo, C.; Widner, B.: BIOLOGICAL IMPACT OF WET DEPOSITION TO SEASONALLY OLIGOTROPHIC WATERS OFF THE U.S. EASTERN SEABOARD (ID: 25424)

TUESDAY

09:15	Morales-Baquero, R. ; Pérez-Martínez, C.: PHYTOPLANKTON RESPONSE TO AEROSOL DEPOSITION IN THE SOUTH-EAST IBERIAN PENINSULA (ID: 25995)	16:15	Poxleitner, M. ; Trommer, G.; Stibor, H.: EFFECTS OF INCREASED ATMOSPHERIC NITROGEN LOAD ON PHYTOPLANKTON IN A PHOSPHORUS LIMITED LAKE (ID: 25775)
09:30	Marin, I. ; Nunes, S.; Sanchez-Perez, E. D.; Txurruka, E.; Marrase, C.; Estrada, M.; Moreno, T.; Querol, X.; Peters, F.: MICROBIAL PLANKTONIC COMMUNITIES RESPONSE TO SAHARAN DUST AND ANTHROPOGENIC ATMOSPHERIC INPUTS IN A LOW-NUTRIENT LOW-CHLOROPHYLL REGION (ID: 26584)		
09:45	Peters, F. ; Gallisai, R.; Marin, I.; Txurruka, E.; Nunes, S.: ON THE DIFFICULTY OF ESTIMATING DUST DEPOSITION EFFECTS IN THE MEDITERRANEAN AT ECOLOGICAL TIME SCALES. (ID: 26184)		
10:30	Afshinnekoo, E. ; Hauptman, J.; Kirchner, A.; Maldano, J.; Tang, Y.; Sarkodee-Addo, J.; Stewart, G.: DUST INFLUENCES DENSITY AND CARBON CONTENT OF COPEPOD FECAL PELLETS (ID: 27017)	08:30	Castellani, C. ; Licandro, P.; Fileman, E.; Di Capua, I.; Mazzocchi, M. G. : DOES <i>OITHONA SIMILIS</i> LIKE IT HOT? (ID: 26160)
10:45	Ebling, A. M. ; Wyatt, N.; Landing, W. M.: THE MISSING LINK: CHARACTERIZING TRACE ELEMENTS WITHIN THE ATMOSPHERE, SEA SURFACE MICROLAYER, AND UNDERLYING WATER COLUMN (ID: 26359)	08:45	Calliari, D. L. ; Castiglioni, R.; Espinosa, N.; Martinez, M.; Cervetto, G.: COPEPOD PRODUCTION IN THE RIO DE LA PLATA ESTUARY (ID: 27112)
11:00	Buck, C. S. ; Auilar-Islas, A.; Rember, R.; Landing, W. M.: ATMOSPHERIC DEPOSITION FLUX AND TRACE ELEMENT FRACTIONAL SOLUBILITY ON THE US GEOTRACES EASTERN TROPICAL SOUTH PACIFIC SECTION (ID: 26932)	09:00	Davies, K.; Sourisseau, M. ; Vandromme, P.; Huret, M.; Dumas, F.: APPLICATION OF A TRAIT-BASED MODEL TO CHARACTERIZE ZOOPLANKTON SIZE AND DIET IN A 3D MODELED ENVIRONMENT OVER A CONTINENTAL SHELF. (ID: 27569)
11:15	Fishwick, M. P. ; Sedwick, P. N.; Lohan, M. C.; Worsfold, P. J.; Buck, K. N.; Church, T. M.; Ussher, S. J.: THE EFFECT OF SURFACE OCEAN PH, TEMPERATURE AND OXYGENATION ON AEROSOL TRACE METAL DISSOLUTION (ID: 25529)	09:15	Villate, F.; Iriarte, A. ; Uriarte, I.; Intxausti, L.: COMPLEXITY OF THE MECHANISMS ACCOUNTING FOR THE CHANGES IN THE ESTUARINE ZOOPLANKTON DURING THE REHABILITATION PROCESS OF THE ESTUARY OF BILBAO (ID: 26324)
11:30	Longo, A. F. ; Feng, Y.; Lai, B.; Landing, W.; Nenes, A.; Mihalopoulos, N.; Violaki, K.; Ingall, E. D.: KEY FACTORS CONTROLLING THE SOLUBILITY OF IRON IN SAHARAN DUST (ID: 26316)	09:30	Cowles, T. J. : SPANNING SPATIAL SCALES IN PLANKTON ECOLOGY: THE ARC OF INFLUENCE OF MIQUEL ALCARAZ (ID: 27324)
11:45	Ussher, S. J. ; Fishwick, M.; Marsay, C.; Sedwick, P. N.: SOLUBLE AND COLLOIDAL IRON FRACTIONATION FOLLOWING AEROSOL DISSOLUTION IN THE SURFACE ATLANTIC OCEAN (ID: 27319)	09:45	Alcaraz, M. : OFF THE SHOULDERS OF GIANTS: BENEFITS, PERILS AND PITFALLS OF TOE'S IN ZOOPLANKTON STUDIES. * (ID: 25869)
15:00	Ingall, E. D. ; Longo, A. F.; Diaz, J. M.; King, L. E.; Nenes, A.; Mihalopoulos, N.; Violaki, K.; Avila, A.; Benitez-Nelson, C. R.; Brandes, J.: AEROSOL PHOSPHORUS DELIVERED TO THE MEDITERRANEAN SEA: INSIGHTS FROM SYNCHROTRON BASED SPECTROSCOPY (ID: 25939)	10:30	Landry, M. R. ; Stukel, M. R.; Décima, M.: INDIRECT FLUXES THROUGH THE MICROBIAL FOOD WEB SUPPORT HIGH RESPIRATION AND GROWTH RATES OF MESOZOOPLANKTON IN THE EQUATORIAL PACIFIC (ID: 27565)
15:15	Stockdale, A. ; Krom, M. D.; Mortimer, R. J.; Benning, L. G.; Carslaw, K. S.; Shi, Z.: INVESTIGATING THE CONTROLS OF ACID DISSOLUTION OF P IN ATMOSPHERIC AEROSOLS (ID: 26091)	10:45	Kobari, T. ; Unno, K.; Nakamura, R.; Kitamura, M.; Aita, M. N.; Honda, M. C.: ROLES OF MESOZOOPLANKTON COMMUNITY ON MESOPELAGIC BIOGEOCHEMICAL CYCLES IN THE NORTHWESTERN PACIFIC OCEAN (ID: 25557)
15:30	Shelley, R. U. ; Sarthou, G.: ELEMENTAL COMPOSITION OF ATMOSPHERIC DEPOSITION DURING THE GEOVIDE CAMPAIGN (LISBON, PORTUGAL-ST JOHN'S, CANADA; GEOTRACES GA01) (ID: 26552)	11:00	Darnis, G. ; Grenvald, J.; Berge, J.; Renaud, P.: ZOOPLANKTON DIEL MIGRATION AND THE EXPORT OF CARBON AT DEPTH IN A HIGH ARCTIC FJORD, KONGSFJORDEN, SVALBARD (ID: 27021)
15:45	Gao, Q. ; Chen, S.; Mgana, H. F.; Kimirei, I. A.; Zhang, L.: NITROGEN FLUXES BY ATMOSPHERIC DEPOSITION IN LAKE TANGANYIKA (ID: 27714)	11:15	Jonasdottir, S. H. ; Visser, A. W.: CALANUS AND THE BIOLOGICAL CARBON PUMP (ID: 26798)
16:00	Trommer, G. ; Poxleitner, M.; Lorenz, P.; Stibor, H.: INCREASED ATMOSPHERIC NITROGEN DEPOSITION CAUSES BIOMASS CHANGES IN PLANKTON COMMUNITIES EVEN IN PHOSPHORUS LIMITED LAKE ECOSYSTEMS (ID: 25537)	11:30	Gleiber, M. R. ; Steinberg, D. K.; Schofield, O. M.: COPEPOD GRAZING IMPACT AND CARBON EXPORT ALONG THE WESTERN ANTARCTIC PENINSULA (ID: 26475)
		11:45	Yebra, L. ; Herrera, I.; Mercado, J. M.; Cortés, D.; Alonso, A.; Gómez, F. J.; Sánchez, A.; Salles, S.; Valcárcel, N.: ZOOPLANKTON DISTRIBUTION AND METABOLISM IN THE WESTERN ALBORAN SEA, IMPLICATIONS FOR EXPORT FLUXES (ID: 25792)
		15:00	Kiorboe, T. ; Goncalves, R. J.: DETECTING THE ALGAE: HOW COPEPODS DETECT THEIR PREY (ID: 25449)
		15:15	Mahadik, G. A. ; Mazzocchi, M.: INFLUENCE OF PREY MORPHOLOGY AND CONCENTRATION ON COPEPOD FEEDING BEHAVIOUR (ID: 26181)

15:30	van Someren Gréve, H. ; Almeda, R.; Kiørboe, T.: BEHAVIOUR-DEPENDENT PREDATION RISK IN MARINE PLANKTONIC COPEPODS (ID: 26031)	16:00	Whiteford, E. J. ; McGowan, S.; Jones, V. J.; Anderson, N. J.: USING LIMNOLOGY AND BIOASSAYS TO UNDERSTAND ALGAL PRODUCTION AND COMMUNITY RESPONSE TO POST-LITTLE ICE AGE ENVIRONMENTAL CHANGE IN SW GREENLAND (ID: 27039)
15:45	Zamora-Terol, S. ; Nielsen, T. G.; McKinnon, A. D.; Saiz, E.: LIGHTS AND SHADOWS OF THE FEEDING ECOLOGY OF THE SMALL COPEPOD <i>OITHONA</i> (ID: 25531)	16:15	Anderson, N. J. ; Curtis, C. J.; Jones, V. J.; McGowan, S.; Simpson, G. L.; Whiteford, E. J.: COMPLEX SPATIAL PATTERNS OF LIMNOLOGICAL VARIABILITY AT SEASONAL TO CENTENNIAL TIMESCALES ALONG A REGIONAL CLIMATE GRADIENT IN SW GREENLAND* (ID: 26986)
16:00	Rodríguez-Graña, L. M. ; Martínez, M. H.; Santos, L.; Denicola, A.; Calliari, D. L.: AGEING, CALORIC RESTRICTION AND OXIDATIVE DAMAGE IN ACARTIA TONSA (COPEPODA, CALANOIDA): GENDER-SPECIFIC DIFFERENCES (ID: 26385)	17:00	Saros, J. E. ; Northington, R. M.; Malik, H.; Anderson, N. J.: LINKING EXPERIMENTAL AND PALEOLIMNOLOGICAL APPROACHES TO DECIPHER CLIMATE-INDUCED CHANGES IN WEST GREENLAND LAKES (ID: 26240)
16:15	Tiselius, P. ; Fransson, K.: RAPID CHANGE IN 15N STABLE ISOTOPE SIGNATURE FOLLOWING A DIET SHIFT IN ACARTIA TONSA – AN EXPERIMENTAL STUDY (ID: 26733)	17:15	Maier, D. B. ; Bigler, C.; Renberg, I.: CALIBRATING SEDIMENT SIGNALS WITH MONITORED WATER COLUMN PROCESSES (ID: 27125)
17:00	Selph, K. E. ; Kolker, G.; Chang, S. M.; Uchida, M.: CILIATE COMMUNITY COMPOSITION CHANGES RELATIVE TO SHORT TERM NUTRIENT INPUTS IN KANEOHE BAY, OAHU, HAWAII (ID: 27196)	17:30	Saar, K. ; Søndergaard, M.; Jensen, M.; Jørgensen, C.; Reitzel, K.; Jeppesen, E.; Lauridsen, T.; Jensen, H. S.: THE IMPACT OF CLIMATE CHANGE AND EUTROPHICATION ON PHOSPHORUS FORMS IN ACCUMULATED SEDIMENT: A LONG-TERM MESOCOSM EXPERIMENT (ID: 27149)
17:15	Morison, F. ; Menden-Deuer, S.: PROTISTAN HERBIVORY IN FJORDS ALONG THE WESTERN ANTARCTIC PENINSULA DURING LATE AUSTRAL AUTUMN (ID: 26354)	17:45	Sánchez-López, G. ; Hernández, A.; Pla-Rabes, S.; Toro, M.; Granados, I.; Sigró, J.; Trigo, R. M.; Rubio-Inglés, M. J.; Valero-Garcés, B.; Giralt, S.: THE EFFECTS OF NAO ON TWO IBERIAN ALPINE LAKES FOR THE LAST TWO MILLENNIA (ID: 26599)
17:30	Børshøj, K. Y. : THE SPRING BLOOM DYNAMICS OF PHYTOPLANKTON OBSERVED FROM SPACE AS INDICATORS OF SECONDARY PRODUCTION (ID: 25984)	18:00	Isles, P. D. ; Xu, Y.; Stockwell, J. D.; Schroth, A. W.: CONTRASTING RESPONSES OF NUTRIENT DYNAMICS IN SHALLOW VS. DEEP SITES IN A TEMPERATE LAKE TO SEASONAL CLIMATE PATTERNS AND STORM EVENTS (ID: 25913)
17:45	Buskey, E. J. ; Almeda, R.; Gemmell, B. J.; Katz, J.: PHYSICAL AND CHEMICAL DISPERSION OF MARINE CRUDE OIL SPILLS AND EFFECTS OF DISPERSED OIL ON ZOOPLANKTON (ID: 27385)	18:15	Prairie, Y. T. : THE FUTURE ROLE OF LAKES AND OTHER INLAND AQUATIC SYSTEMS IN THE CARBON CYCLE OF THE LANDSCAPE (ID: 27277)
18:00	Almeda, R. : INGESTION OF DISPERSED CRUDE OIL BY ZOOPLANKTON (ID: 25785)		
18:15	Strickler, J. R. ; Jiang, H.; Motschman, J.; Horn, S.; Keithrafferty, C.; Nihongi, A.; Alcaraz, M.: ACARTIA GRANI AND ITS INTERACTIONS WITH OIL DROPLETS* (ID: 25726)		

020 INTEGRATED TEMPORAL PERSPECTIVES ON CLIMATE EFFECTS ON LAKE ECOSYSTEMS

Chair(s): Jasmine E. Saros, jasmine.saros@maine.edu
Daniel R. Engstrom, dre@umn.edu

Location: Andalucia 2 (Floor 1)

15:00	Leavitt, P. R. ; Limnology Laboratory of Regina, a. a.; 2008 Chapman Conference Synthesis Group, a. a.: UNIQUE AND INTERACTIVE EFFECTS OF CLIMATE ON LAKES OF THE NORTHERN GREAT PLAINS: APPLICATIONS OF THE ENERGY-MASS FLUX FRAMEWORK FROM SEASONS TO MILLENNIA.* (ID: 25888)
15:15	Strock, K. E. ; Saros, J. E.; Edlund, M. B.; Engstrom, D. R.: RESPONSE OF BOREAL LAKES TO CHANGING WIND STRENGTH: COHERENT LONG-TERM CHANGES IN PHYSICAL LAKE HABITAT BUT VARYING SHORT-TERM EFFECTS ON PRIMARY PRODUCERS* (ID: 27362)
15:30	Engstrom, D. R. ; Edlund, M. B.; Almendinger, J. E.; Fang, X.; Elias, J. E.; Galvert, U.: MODELING THE EFFECTS OF PAST CLIMATE CHANGE ON BOREAL LAKES (ID: 25742)
15:45	Daniels, W. C. ; Huang, Y.; Russell, J. M.; Longo, W. M.; Welker, J. M.; Giblin, A. E.: CHANGING DIATOM COMMUNITIES AND PRIMARY PRODUCTION AT SEASONAL TO MILLENIAL TIME SCALES IN AN ARCTIC ALASKAN LAKE* (ID: 27430)

024 SMALL BUGS WITH A BIG IMPACT: LINKING PLANKTON ECOLOGY WITH ECOSYSTEM PROCESSES

Chair(s): Susanne Menden-Deuer, smenden@gso.uri.edu
Thomas Kiørboe, tk@aqua.dtu.dk

Location: Auditorium Manuel de Falla (Floor 1)

08:30	Lim, A. ; Jeong, H.; Kang, N.; Jang, T.: THE NEWLY DESCRIBED HETEROTROPHIC DINOFLAGELLATE <i>STOECKERIA CHANGWONENSIS</i> IN THE FAMILY PFIESTERIACEAE: TAXONOMY, FEEDING, AND EVOLUTION (ID: 25819)
08:45	Gäbler-Schwarz, S. ; Micheller, S.; Riedel, J.; Metfies, K.: <i>PHAEOCYSTIS GLOBOSA</i> – A HARMFUL MICRO ALGAL SPECIES AT THE GATES TO THE ARCTIC? (ID: 27158)
09:00	Lagaria, A. ; Mandalakis, M.; Psarra, S.: PHYTOPLANKTON PIGMENTS DISTRIBUTION AND SEASONAL VARIATION IN RELATION TO WATER MASSES IN THE NE AEGEAN SEA (NE MEDITERRANEAN) (ID: 26216)
09:15	Washburn, L. ; Dellaripa, N. W.; Brzezinski, M. A.; Simons, R. D.: PHYTOPLANKTON TRANSPORT OUT OF THE EUPHOTIC ZONE BY SUBDUCTION AND GRAVITATIONAL SINKING IN THE SANTA BARBARA CHANNEL, CALIFORNIA, USA (ID: 25485)

* REPRESENTS INVITED PRESENTATIONS

TUESDAY

09:30	Neszi, N. Z. ; Estrada, M.; Artigas, M. L.; Ross, O. N.; Muñiz, O.; Laflamme, S.; Sousoni, D.; Viure, L.; Berdalet, E.: FROM PICO- TO MICRO: VARIABILITY OF A SPRING BLOOM IN AN ESTUARINE BAY AT A HIGH TEMPORAL AND SPATIAL RESOLUTION (ID: 26038)	17:30	Dolan, J. R. : PARADOXICAL POLYMORPHISM IN PLANKTONIC PROTISTS (ID: 25542)
09:45	El-Tourky, S. H. ; Hitchcock, G.: MESOZOOPLANKTON IN THE STRAITS OF FLORIDA: AN INVESTIGATION INTO PATTERNS IN BIOMASS AND DISTRIBUTION AS AN EXPLANATION FOR LARVAL BILLFISH GUT CONTENTS (ID: 27493)	17:45	Pomati, F. ; Jokela, J.; Castiglioni, S.; Nizzetto, L.: INTERACTION BETWEEN ENVIRONMENTAL GRADIENTS AND MICROPOLLUTANTS ON THE STRUCTURE AND FUNCTIONING OF NATURAL PHYTOPLANKTON COMMUNITIES (ID: 25790)
10:30	Carstensen, J. ; Klais, R.; Cloern, J. E.: PHYTOPLANKTON BLOOMS IN ESTUARINE-COASTAL WATERS: SEASONAL PATTERNS AND KEY SPECIES (ID: 25576)	18:00	Moorthi, S. D. ; Busch, M.; Bialonski, S.; Caron, D. A.; Kantz, H.; Feudel, U.: FROM LABORATORY EXPERIMENTS TO COASTAL OCEAN TIME SERIES – LOCAL AND REGIONAL FACTORS INFLUENCING BLOOM DYNAMICS OF HARMFUL ALGAE (ID: 27115)
10:45	Van Oostende, N. ; Fawcett, S.; Lueders-Dumont, J.; Marconi, D.; Swart, K.; Ward, B.: DISTRIBUTIONAL PATTERNS OF PHYTOPLANKTON GROUPS AND BIOGEOCHEMICAL FEATURES FROM THE ATLANTIC SUBTROPICAL TO THE SUBARCTIC PROVINCE IN LATE SUMMER (ID: 27271)		
11:00	Balch, W. M. ; Bates, N. R.; Lam, P. J.; Twining, B. S.: SMALL COCCOLITHOPHORES WITH A BIG IMPACT: THE GREAT CALCITE BELT (ID: 25907)		
11:15	Raes, E. J. ; Bodrossy, L.; Holmes, B.; van de Kamp, J.; Allison, A. S.; Laverock, B.; Hardman-Mountford, N.; Thompson, P. A.; Waite, A. M.: THE EXTENT OF N ₂ FIXATION AND THE POTENTIAL FOR N LOSSES: FROM THE TROPICS TO THE SUB TROPICS (ID: 25963)		
11:30	Rabouille, S. ; Talec, A.; Bernard, O.; Sciandra, A.: NITROGEN AND CARBON FLUXES IN UNICELLULAR, DIAZOTROPHIC CYANOBACTERIA: FROM CULTURES TO MODELS (ID: 26637)	08:30	Aiken, G. ; Bergamaschi, B.; Krabbenhoft, D.: UNDERSTANDING THE DISSOLVED ORGANIC MATTER-MERCURY CONNECTION FROM HEADWATERS TO THE SEA (ID: 27237)
11:45	Hense, I. ; Beckmann, A.: MODELING THE SIZE-REDUCTION-RESTITUTION-CYCLE OF DIATOMS (ID: 26118)	08:45	Gascón Díez, E. ; Garcia Bravo, A.; Graham, N. D.; Bouchet, S.; Cosio, C.; Amouroux, D.; Loizeau, J. L.: UNDERSTANDING THE ORIGIN OF HIGH METHYLMERCURY CONCENTRATIONS ON SETTLING PARTICLES IN LAKE GENEVA (SWITZERLAND) (ID: 27548)
15:00	Lovejoy, C. ; Comeau, A.; Lagunas, M.; Varela, D.: NITROGEN UPTAKE AND COMMUNITY STRUCTURE AT THE CANADA BASIN ICE EDGE (ID: 27452)	09:00	Skyllberg, U. ; Tjerngren, I.; Kronberg, R.; Björn, E.: SEASONALITY OF CHEMICAL SPECIATION AND TRANSFORMATIONS OF HG AND MEHG IN A BOREAL LAKE SEDIMENT WITH FRAMBOIDAL PYRITE (ID: 25821)
15:15	Popendorf, K. J. ; Duhamel, S.: DIFFERENT STRATEGIES FOR PHOSPHORUS UPTAKE AND ALLOCATION BETWEEN BACTERIA AND PHYTOPLANKTON: DEFINING THE MICROBIAL ROLE IN PHOSPHORUS CYCLING (ID: 27702)	09:15	Bravo, A. G. ; Bouchet, S.; Tolu, J.; Björn, E.; Bertilsson, S.: PLANKTONIC ORGANIC MATTER CONTROLS MERCURY METHYLATION IN BOREAL SEDIMENT LAKES (ID: 26292)
15:30	Mouriño-Carballedo, B. ; Cermeño, P.; Chouciño, P.; Fernández-Castro, B.; Hojas, E.; Latasa, M.; Marañón, E.; Morán, X. A.; Otero, J. L.; Vidal, M.; Villamaña, M.: DOES NUTRIENT SUPPLY PLAY A ROLE IN THE CONTROL OF PICOPLANKTON COMMUNITY STRUCTURE? (ID: 25454)	09:30	Bouchet, S. ; Monperrus, M.; Acha, D.; Heredia, C.; Guyonneaud, R.; Goni-Urriza, M.; Lazzaro, X.; Rocha, S.; Tessier, E.; Amouroux, D.: IN SITU EXPLORATION OF THE PHOTOCHEMICAL AND BIOLOGICAL PROCESSES CONTROLLING HG BIOGEOCHEMISTRY IN LAKE TITICACA (BOLIVIAN ALTIPLANO) (ID: 27667)
15:45	Thomas, M. K. ; Pomati, F.: RAPID SHIFTS IN PHYTOPLANKTON TRAITS <i>IN SITU</i> DRIVEN BY SELECTION (ID: 27299)	09:45	Soto Cárdenas, C. ; Diéguez, M. C.; Queimaliños, C. P.; Gerea, M.; Marvin-DiPasquale, M.; Ribeiro Guevara, S.: MERCURY IN FOOD WEBS OF ANDEAN PATAGONIAN LAKES: DISSOLVED ORGANIC MATTER, BIOAVAILABILITY AND BIOCONCENTRATION POTENTIAL OF PELAGIC BASAL ORGANISMS (ID: 27304)
16:15	Fontana, S. ; Petchey, O. L.; Pomati, F.: INDIVIDUAL-LEVEL TRAIT DIVERSITY CONCEPTS AND METRICS ARE COMPLEMENTARY TO THE CLASSICAL SPECIES-LEVEL APPROACH IN EXPLAINING ECOSYSTEM FUNCTIONING (ID: 26227)	10:30	Pollard, A. I. ; Krabbenhoft, D. P.; Garrison, P.: OCCURRENCE, ASSOCIATIONS AND TEMPORAL CHANGE IN LAKE SEDIMENT MERCURY: A NATIONAL-SCALE ANALYSIS (ID: 26281)
17:00	Taniguchi, D. ; Follows, M. J.; Menden-Deuer, S.: SIMULATED TRADEOFFS IN PREDATOR-PREY DYNAMICS OF PHYTO- AND MICROZOOPLANKTON (ID: 26471)	10:45	Bishop, K. H. ; Kraus, A.; Futter, M.; Schelker, J.; Meili, M.; Boyer, E.; Eklöf, K.: RIPARIAN FLOW PATHS AND SEASONAL VARIATION IN SOIL WATER CONCENTRATIONS PREDICT THG AND MEHG DYNAMICS IN SEVEN BOREAL STREAMS (ID: 27759)
17:15	Jackson, G. A. ; Visser, A.: IMPLICATIONS OF ZOOPLANKTON FEEDING TYPE ON PARTICLE FATE AS DETERMINED BY INDIVIDUAL BASED MODELS (ID: 25514)	11:00	Meili, M. ; Blomqvist, P.; Laudon, H.; Bishop, K. H.: METHYLMERCURY AND TOTAL MERCURY IN BOREAL STREAM WATERS: HIGHLY VARIABLE YET FAIRLY PREDICTABLE FROM CLIMATIC VARIABLES (ID: 27624)

- 11:15 **Kainz, M. J.**; Schultz, S.: AQUEOUS, NOT PARTICULATE SOURCES PREDICT METHYL MERCURY BIOACCUMULATION IN FRESHWATER ZOOPLANKTON (ID: 26693)
- 11:30 **Wu, P.**; Åkerblom, S.; Eklöf, K.; Bishop, K.: METHYLMERCURY BIOAVAILABILITY FOR PLANKTON AT THE BASE OF THE FOOD CHAIN IN AQUATIC ECOSYSTEMS (ID: 25724)
- 11:45 **Roy, C.**; Garcia-Bravo, A.; Poirier, A.; Ariztegui, D.: EVIDENCE FOR EXTENDED MAYAN POSTCLASSIC MINING ACTIVITIES AND DEFORESTATION USING TOTAL HG AND PB ISOTOPES IN LACUSTRINE SEDIMENTS (ID: 27254)
- 032 RESPONSES OF MARINE ORGANISMS TO OCEAN ACIDIFICATION, INTERACTIONS WITH OTHER STRESSORS AND BIOGEOCHEMISTRY**
- Chair(s): Carles Pelejero, carles.pelejero@icrea.cat
Heidi Burdett, hb57@st-andrews.ac.uk
- Location: Auditorium Federico Garcia Lorca (Floor 0)
- 08:30 **Bailey, A. M.**; Browman, H. I.; Fields, D.; Runge, J.; Hop, H.; Vermont, A.; Bjelland, R.; Durif, C.; Thompson, C.; Shema, S.; Thor, P.: EFFECTS OF PROJECTED OCEAN ACIDIFICATION ON THE EARLY DEVELOPMENT OF A KEY ARCTIC COPEPOD, *CALANUS GLACIALIS* (ID: 26984)
- 08:45 **Tonkes, H.**; Niehoff, B.; Freese, D.; Sartoris, F. J.: INFLUENCE OF PCO₂, TEMPERATURE, AND FEEDING ON THE EXTRACELLULAR PH OF *CALANUS GLACIALIS* (COPEPODA) DURING DIAPAUSE (ID: 27013)
- 09:15 **Lange, J.**; Boersma, M.; Schwenk, K.: EFFECTS OF OCEAN ACIDIFICATION ON ZOOPLANKTON: METABARCODING RESULTS FROM A LONG-TERM MESOCOSMOS EXPERIMENT IN THE NORTH SEA (ID: 26147)
- 09:30 **Cohen-Rengifo, M.**; Moureaux, C.; Dubois, P.; Flammang, P.: PHENOTYPIC PLASTICITY OF TUBE FOOT AND ATTACHMENT CAPACITY IN THE SEA URCHIN *PARACENTROTUS LIVIDUS* ACCORDING TO SEAWATER VELOCITIES (ID: 26159)
- 09:45 **Van Colen, C.**; Jansson , A.; Saunier, A.; Lacoue-Labarthe, T.; Dorey, N.; Becquet, V.; Vincx , M.: POPULATION-LEVEL VARIATION AND THE EFFECT OF TEMPORAL FOOD LIMITATION AND TEMPERATURE ON LARVAL DEVELOPMENT OF THE BIVALVE *MACOMA BALTHICA* IN ACIDIFIED WATERS (ID: 26867)
- 10:30 **Glaspie, C. N.**; Seitz, R. D.; Bishop, M. J.: PREDATOR-PREY INTERACTIONS AND GLOBAL CHANGE: RESPONSE OF SYDNEY ROCK OYSTERS AND MUD CRABS TO LONG-TERM ACIDIFICATION (ID: 26787)
- 10:45 **Gobler, C. J.**; Depasquale, E.; Clark, H.; Baumann, H.; Griffith, A.: VULNERABILITY AND RESISTANCE AMONG EARLY LIFE STAGE FINFISH AND BIVALVES TO CONCURRENT OCEAN ACIDIFICATION AND HYPOXIA (ID: 27637)
- 11:00 **Lewis, C.**: WILL OCEAN ACIDIFICATION INCREASE THE TOXICITY OF METALS TO MARINE ORGANISMS? (ID: 25801)
- 11:15 **Campbell, A. L.**; Mangan, S.; Ellis, R. P.; Lewis, C.: OCEAN ACIDIFICATION INCREASES COPPER TOXICITY TO THE EARLY LIFE HISTORY STAGES OF THE POLYCHAETE *ARENICOLA MARINA* IN ARTIFICIAL SEAWATER (ID: 25813)

- 11:30 **Krång, A. S.**; Styf, H. K.; Hernroth, B.; Baden, S. P.; Mattsson, J.; Jutfelt, F.; Baker Wood, H. L.; Nilsson Sköld, H.; Ungfors, A.; Eriksson, S. P.: EFFECTS OF COMBINED EXPOSURE TO OCEAN ACIDIFICATION AND HYPOXIA OR MANGANESE ON BEHAVIOURAL, PHYSIOLOGICAL AND IMMUNOLOGICAL RESPONSES IN THE NORWAY LOBSTER (ID: 26862)
- 11:45 **Hernroth, B. E.**; Baden, S. P.: ARE MARINE INVERTEBRATES MORE SUSCEPTIBLE TO INFECTIONS UNDER THE PRESSURE OF CLIMATE CHANGE? (ID: 25683)
- 15:00 **Dahlke, F. T.**; Pörtner, H. O.; Storch, D.: EFFECTS OF OCEAN ACIDIFICATION AND WARMING ON THE EMBRYOGENESIS OF ATLANTIC COD, *GADUS MORHUA*. (ID: 26891)
- 15:15 **Perez, P. J.**; Hurst, T. P.: INCREASED OTOLITH SIZE IN JUVENILE FISH DUE TO PROLONGED EXPOSURE TO OCEAN ACIDIFICATION (ID: 27035)
- 15:30 **Sswat, M.**; Clemmesen, C.; Riebesell, U.: IMPACT OF OCEAN ACIDIFICATION ON LARVAE OF A COMMERCIALLY IMPORTANT FISH SPECIES (*CLUPEA HARENGUS*) (ID: 27425)
- 15:45 **Rosa, R.**; **Paula, J. R.**; Trübenbach, K.; Pimentel, M.; Baptista, M.; Lopes, V. M.; Coelho, M. M.; Almeida-Val, M. V.; Calado, R.; Repolho, T.: SHARK BRAIN LOSES AEROBIC POTENTIAL AND NEUROTRANSMITTER ACTION UNDER CLIMATE CHANGE (ID: 27029)
- 16:00 **Timmins-Schiffman, E. B.**; Nunn, B. L.; Boyd, P.: DIATOM PROTEOMICS REVEAL PHYSIOLOGICAL RESPONSES TO FUTURE OCEAN CONDITIONS (ID: 25936)
- 16:15 **Gutowska, M. A.**; Meier, S. K.; Bach, L. T.; Schulz, K. G.; Riebesell, U.: DIFFERENTIAL SENSITIVITY OF COCCOLITHOPHORE SPECIES TO OA GIVES INSIGHT TO FUTURE CHANGES IN THEIR COMMUNITY STRUCTURE (ID: 27587)
- 17:00 **Paul, A. J.**; Bach, L. T.; Boxhammer, T.; Czerny, J.; Achterberg, E.; Trense, Y.; Hellemann, D.; Schulz, K. G.; Riebesell, U. R.: IMPACTS OF OCEAN ACIDIFICATION ON A SUMMER BALTIC SEA PLANKTON COMMUNITY: RESULTS FROM A PELAGIC MESOCOSM STUDY (ID: 26634)
- 17:15 Hofmann, L.; Bischof, K.; Baggini, C.; Johnson, A.; Koop-Jakobsen, K.; **Teichberg, M.**: CO₂ AND INORGANIC NUTRIENT ENRICHMENT AFFECT THE PERFORMANCE AND COMPETITIVE STRENGTH OF A CALCIFYING GREEN ALGA AND ITS NONCALCIFYING EPIPHYTE (ID: 26800)
- 17:30 **Krause-Jensen, D.**; Duarte, C. M.; Marba, N.; Hendriks, I.; Sanz-Martin, M.; Carstensen, J.; Sejr, M.: MACROPHYTE CONTROL OF COASTAL PH DEPENDS ON PHOTOPERIOD (ID: 26939)
- 17:45 Cox, T. E.; Gattuso, J. P.; Diaz-Castañeda, V.; Delille, J.; Schenone, S.; **Gazeau, F.**: IMPACTS OF OCEAN ACIDIFICATION ON THE MEDITERRANEAN SEAGRASS *POSIDONIA OCEANICA* AND ITS EPIPHYTIC COMMUNITY (ID: 26504)
- 18:00 **Jinuntuya, M.**; Keller-Miller, K. N.; Hill, V. J.; Zimmerman, R. C.: RESPONSES OF EELGRASS, *ZOSTERA MARINA* L., TO DISSOLVED CO₂ AVAILABILITY AND SEDIMENT QUALITY, A MESOCOSM STUDY. (ID: 27197)

TUESDAY

- 18:15 **Iniguez, C.**; Carmona, R.; Lorenzo, M. R.; Niell, F. X.; Wienke, C.; Gordillo, F. J.: INCREASED CO₂ MODIFIES THE CARBON BALANCE AND THE PHOTOSYNTHETIC YIELD OF THE ARCTIC SEAWEEDS *ALARIA ESCULENTA* AND *DESMARESTIA ACULEATA* (ID: 25854)

044 APPROACHES TO REGIONAL AND GLOBAL LAKE MONITORING

- Chair(s): João Antonio Lorenzzetti, loren@dsr.inpe.br
 Paul Hanson, pchanson@wisc.edu
 Eleanor Jennings, eleanor.jennings@dkit.ie
 Andrew Tyler, a.n.tyler@stir.ac.uk
 Kathleen Weathers, weathersk@caryinstitute.org
 José Luiz Stech, stech@dsr.inpe.br
 José Galizia Tundisi, tundisi@iie.com.br
 Enner Herenio de Alcántara, enner@fct.unesp.br
 Igor Ogashawara, igorogas@umail.iu.edu
 Tiit Kutser, tiit.kutser@sea.ee

Location: Seminario 6-7 (Floor 1)

- 15:00 **Fischer, A. M.**; Kidd, I.; Pang, D.; Attard, M.; Moreno-Madrinan, M.: INTEGRATING INSITU DATA, REMOTE SENSING AND MODELLING TO ADDRESS ANTHROPOGENIC STRESSORS ON TIDALLY MODULATED SEDIMENT TRANSPORT IN AN ESTUARINE ENVIRONMENT (ID: 25666)
- 15:15 **Maberly, S. C.**; Woolway, R. I.; Jones, I. D.; Feuchtmayr, H.: DETECTING THE FULL SUITE OF SIGNALS FROM FRESHWATER LAKES AND ATTRIBUTING THEIR CAUSE (ID: 26087)
- 15:30 **Kutser, T.**; Casal, G.; Barbosa, C.; Paavel, B.; Ferreira, R.; Carvalho, L.: PROSPECTIVE OF USING LANDSAT 8 IN DETERMINING THE ROLE OF LAKES IN THE GLOBAL CARBON CYCLE (ID: 25702)
- 15:45 **Tyler, A. N.**; Hunter, P. D.; Spyros, E.; Maberly, S.; Groom, S.; Carvalho, L. A.; Miller, C.; O'Donnell, R.; Scott, E. M.; Politi, E.: GLOBAL OBSERVATORY OF LAKE RESPONSES TO ENVIRONMENTAL CHANGE (GLOBOLAKES) (ID: 26612)
- 16:00 **Kari, E.**; Beltrán-Abaunza, J. M.; Harvey, T. E.; Kratzer, S.: RETRIEVAL OF TOTAL SUSPENDED MATTER FROM TURBIDITY – ALGORITHM DEVELOPMENT, VALIDATION, AND APPLICATION TO MERIS DATA (ID: 26034)
- 16:15 **O'Donnell, R.**; Miller, C.; Scott, M.: GLOBOLAKES: FUNCTIONAL CLUSTERING AND GLOBAL SCALE COHERENCE OF LAKE WATER QUALITY (ID: 26933)
- 17:00 **Lorenzzetti, J. A.**; Coutinho, L. C.: ASSESSING SPACE/TIME VARIABILITY OF SURFACE TEMPERATURE OF MID TO LARGE LAKES/RESERVOIRS USING SATELLITE AND IN SITU POINT DATA (ID: 26114)
- 17:15 **Jennings, E.**; Ryder, E.; Pierson, D. C.; Smyth, R.; Winslow, L.; Klug, J.; Laas, A.; Hendricks, S.; Rusak, J. A.; Rose, K.: DRIVERS OF VARIABILITY IN CHLOROPHYLL FLUORESCENCE IN LAKES ACROSS CLIMATIC AND TROPHIC GRADIENTS (ID: 27359)
- 17:30 **Kauer, T.**; Danckaert, T.; Kutser, T.; Wüest, J. A.; Bouffard, D.: MODELLING PRIMARY PRODUCTION IN LAKE GENEVA USING EARTH OBSERVATION DATA. (ID: 26508)
- 17:45 **Hanson, P. C.**; Stanley, E. H.; Desai, A.; Read, J. S.: QUANTIFYING LAKE ORGANIC CARBON BUDGETS: HARMONIZING ENVIRONMENTAL SENSOR NETWORK DATA AND ECOSYSTEM MODELS (ID: 27517)

- 18:00 **Schladow, S. G.**; Roberts, D. C.; Hargreaves, B. R.; Hook, S. J.: HIGH FREQUENCY, LITTORAL ZONE WATER QUALITY NETWORK IN A LARGE ALPINE LAKE - THE RESPONSE TO AN INTENSE WINDSTORM (ID: 27713)

- 18:15 **Bradt, S. R.**; Wurtsbaugh, W. A.; Naftz, D. L.; Moore, T. S.; Haney, J. F.: DEVELOPMENT OF REMOTE SENSING ALGORITHMS TO ESTIMATE WATER QUALITY IN THE GREAT SALT LAKE, UTAH, USA (ID: 27731)

045 ADDRESSING REGIONAL OR GLOBAL QUESTIONS ABOUT TROPHIC ECOLOGY USING LIPIDS OR STABLE ISOTOPE RATIOS

- Chair(s): Nicole B. Richoux, n.richoux@ru.ac.za
 Bailey McMeans, bcmcmeans@gmail.com
 Tarik Meziane, meziane@mnhn.fr

Location: Room B (Floor -3)

- 15:00 **Nielsen, J. M.**; Reutervik, K.; Hansson, S.; Winder, M.: NITROGEN AND CARBON AMINO ACID STABLE ISOTOPES AS TRACERS ACROSS MULTIPLE FOOD WEB CONFIGURATIONS (ID: 26792)
- 15:15 **Thorp, J. H.**; Bowes, R.: COSTS AND BENEFITS OF AMINO-ACID VS BULK-TISSUE ISOTOPE ANALYSIS: A LABORATORY FOOD WEB EXPERIMENT (ID: 25515)
- 15:30 **Maslaux, H.**; Richoux, N.: VARIABILITY OF TROPHIC SHIFT OF CARBON AND NITROGEN ISOTOPE SIGNATURES BETWEEN ZOOPLANKTON AND ITS FOOD: EFFECTS OF TEMPERATURE AND FOOD QUALITY (ID: 25847)
- 15:45 **Wyatt, A. S.**; Matsumoto, R.; Chikaraishi, Y.; Sato, K.; Ohkouchi, N.; Nagata, T.: ISOTOPIC TOOLS FOR ASSESSING OCEANIC VERSUS REEF-SCALE DRIVERS OF PLANKTIVOROUS MEGAUNA AGGREGATIONS (ID: 26458)
- 16:00 **Fernández, A.**; Weber, S. C.; Lee-Patterson, D. A.; Montoya, J. P.: TRACING THE DEEP WATER HORIZON OIL AND METHANE CARBON INTO THE PLANKTONIC FOOD WEB (ID: 27522)
- 16:15 **Decima, M. R.**; Landry, M. E.; Lopez-Lopez, L.; Bradley, C. J.: ZOOPLANKTON TROPHIC STRUCTURE IN THE COSTA RICA DOME (ID: 27621)
- 17:00 **Coccia, C.**; Boyero, L.; Fry, B.; Green, A. J.: USING STABLE ISOTOPES TO DETERMINE DIET AND ISOTOPIC NICHE WIDTH DIFFERENCES BETWEEN INVASIVE AND NATIVE CORIXIDS (HEMIPTERA, CORIXIDAE) IN SOUTH WEST SPAIN (ID: 25619)
- 17:15 **Desvilettes, C.**; Floury, M.; Colombet, J.; Lejeune, A. H.; Aguer, J. P.; Perriere, F.: STABLE ISOTOPE ANALYSIS OF TROPHIC INTERACTIONS BETWEEN RESTOCKED SALMON JUVENILES (*SALMO SALAR*) AND NATIVE FISH SPECIES IN A LARGE RIVER: THE ALLIER (FRANCE) (ID: 26081)
- 17:30 **Dessier, A.**; Bustamante, P.; Lefrançois, C.; Vagner, M.; Dubillot, E.; Lefebvre, S.; Aquarium Team La Rochelle, x.; Dupuy, C.: A PELAGIC FISH EXPERIMENT: DYNAMIC OF C AND N STABLE ISOTOPE INCORPORATION IN THE PILCHARD SARDINA PILCHARCHUS (WALBUM, 1792). (ID: 25705)
- 17:45 **Ferrier-Pagès, C.**; Reynaud, S.; Leal, M.: TRACING TROPHIC INTERACTIONS IN SYMBIOTIC ANTHOZOANS USING STABLE ISOTOPES (ID: 25583)

18:00 Naumann, M. S.; Gori, A.; Tolosa, I.; Taviani, M.; **Grover, R.**; Ferrier-Pagès, C.: COMBINED LIPID AND COMPOUND-SPECIFIC ISOTOPE ANALYSES PROVIDE NEW INSIGHTS TO THE TROPHIC ECOLOGY OF MEDITERRANEAN AND ATLANTIC COLD-WATER CORAL SPECIES (ID: 27051)

18:15 **Rix, L. N.**; Wild, C.; De Goeij, J. M.; Al-Horani, F. A.; Naumann, M. S.: TRACING NATURAL CORAL- AND ALGAL-DERIVED DISSOLVED ORGANIC MATTER INTO RED SEA REEF SPONGES USING ^{13}C AND ^{15}N ENRICHMENT: EVIDENCE FOR A RED SEA SPONGE LOOP? (ID: 26845)

049 FRESHWATER ECOSYSTEMS AND THE CARBON CYCLE: EXPLORING DIFFERENCES ACROSS CLIMATIC REGIONS

Chair(s): Fabio Roland, fabio.roland@ufjf.edu.br
Gwenaël Abril, g.abril@epoc.u-bordeaux1.fr
Peter Raymond, peter.raymond@yale.edu

Location: Seminario 6-7 (Floor 1)

08:30 **Abril, G.**: WETLANDS : THE MISSING LINK IN THE INLAND WATERS CARBON BALANCE ?* (ID: 27018)

08:45 **Weyhenmeyer, G. A.**; Kosten, S.; Wallin, M. B.; Tranvik, L. J.; Jeppesen, E.; Roland, F.: CARBON DIOXIDE CONCENTRATIONS IN LAKES AND THEIR SOURCES ALONG A LATITUDINAL TEMPERATURE AND NUTRIENT GRADIENT (ID: 25818)

09:00 **Catalán, N.**; Kothawala, D. N.; Tranvik, L. J.: ORGANIC CARBON MINERALIZATION: IT'S A MATTER OF TIME! (ID: 26102)

09:15 **Bizic-Ionescu, M.**; Amann, R.; Grossart, H. P.: GROWTH OF HETEROTROPHIC BACTERIA IN ICE-COVERED WATERS IS CONTROLLED BY ORGANIC MATTER AVAILABILITY RATHER THAN TEMPERATURE (ID: 25816)

09:30 **Kuhn, C.**; Bettigole, C. B.; Raymond, P.; Glick, H.; Seegmiller, L.; Routh, D.; Oliver, C. D.: THE IMPACT OF SEASONALITY AND ELEVATION ON DISSOLVED GREENHOUSE GAS CONCENTRATIONS IN A SEMI-ARID WYOMING WATERSHED (ID: 26452)

09:45 **Almeida, R. M.**; Pacheco, F. S.; Barros, N.; Roland, F.: EXTREME FLOODS BOOST CO_2 OUTGASSING FROM A LARGE AMAZONIAN RIVER (ID: 27235)

10:30 **Borges, A. V.**; Bouillon, S.; Teodoro, C.; Descy, J. P.; Lambert, T.; Darchambeau, F.: INORGANIC AND ORGANIC CARBON SPATIAL VARIABILITY IN THE CONGO RIVER DURING HIGH WATERS (DECEMBER 2013) AND LOW WATERS (JUNE 2014) (ID: 25404)

10:45 **Chmiel, H. E.**; Kokic, J.; Wallin, M.; Ferland, M.; Denfeld, B. A.; Sobek, S.: THE IMPORTANCE OF SEDIMENTS AS C SINKS AND C SOURCES IN A SMALL BOREAL LAKE (ID: 27137)

11:00 **Marcé, R.**; Obrador, B.; Morguí, J. A.; Riera, J. L.; López, P.; Armengol, J.: TEMPERATURE EFFECTS ON THE DISSOLVED INORGANIC CARBON EQUILIBRIUM DRIVE THE LATITUDINAL RELEVANCE OF NON-METABOLIC CO_2 EMISSIONS FROM LAKES (ID: 25725)

11:15 **Nakayama, T.**; Maksyutov, S.: NEW STRATEGY FOR IMPROVEMENT IN MISSING ROLE OF FRESHWATER ON GLOBAL BIOGEOCHEMICAL CYCLE (ID: 25439)

11:30 **Keaveney, E. M.**; Reimer, P. J.; Foy, R. H.: INVESTIGATING CARBON CYCLING IN A COMPLEX LAKE: A NOVEL USE OF $\Delta^{14}\text{C}$ (ID: 26888)

11:45 **Deirmendjian, I.**; Abril, G.: CO₂ DEGASSING AND $\Delta^{13}\text{C}$ -DIC EQUILIBRATION ALONG THE GROUNDWATER-STREAM-RIVER CONTINUUM IN A TEMPERATE CATCHMENT (LEYRE RIVER, FRANCE). (ID: 26205)

051 BIOGEOCHEMICAL INTERACTIONS BETWEEN RIPARIAN AND STREAM ECOSYSTEMS UNDER ENVIRONMENTAL CHANGE

Chair(s): Susana Bernal, sbernal@ceab.csic.es
Eugènia Martí, eugenia@ceab.csic.es
Stefan Krause, s.krause@bham.ac.uk
Francesc Sabater, fsabater@ub.edu
Esperanca Gacia, gacia@ceab.csic.es

Location: Andalucia 1 (Floor 1)

15:00 **Sponseller, R. A.**; Blackburn, M.; Öquist, M.; Laudon, H.: UPLAND VERSUS RIPARIAN CONTROLS OVER THE EXPORT OF NITROGEN FROM A HEADWATER BOREAL CATCHMENT* (ID: 26791)

15:15 **Lupon, A.**; Poblador, S.; Martí, E.; Sabater, F.; Bernal, S.: INFLUENCE OF THE RIPARIAN ZONE ON STREAM DISCHARGE AND NITRATE DYNAMICS IN A MEDITERRANEAN FORESTED CATCHMENT (ID: 27192)

15:30 **Duval, T. P.**; Ariano, S. S.: STORMFLOW BIOGEOCHEMISTRY ALONG A RIPARIAN WETLAND IN THE ABSENCE OF UPLAND INPUTS: VARIABLE EFFECTS TO NUTRIENTS AND DOC (ID: 27601)

15:45 **Poblador, S.**; Lupon, A.; Sabaté, S.; Sabater, F.: INFLUENCE OF A MEDITERRANEAN RIPARIAN FOREST ON GROUNDWATER NITROGEN DYNAMICS (ID: 27194)

16:00 **Leedesma, J. J.**; Futter, M. N.; Laudon, H.; Mört, C. M.; Köhler, S. J.: CLIMATE CONTROL ON SULPHATE CONCENTRATIONS AND FLUXES IN RIPARIAN AND STREAM WATER IN A BOREAL CATCHMENT (ID: 25455)

16:15 **Feijó-Lima, R.**; Silva-Junior, E.; Lourenço-Amorim, C.; Silva-Araújo, M.; Tromboni, F.; Thomas, S. A.; Zandonà, E.; Moulton, T.: IMPACTS OF LANDUSE CHANGE AND THE LOSS OF RIPARIAN FOREST ON ATLANTIC RAINFOREST STREAMS: A MULTI SCALE ASSESSMENT. (ID: 27649)

17:00 **Nizzoli, D.**; Longhi, D.; Viaroli, P.: SPATIAL AND TEMPORAL VARIABILITY OF BENTHIC N-TRANSFORMATIONS IN LITTORAL AREAS OF A LOWLAND RIVER REACH (ID: 27123)

17:15 **del Campo, R.**; Bastias, E.; Arce, M. I.; Sánchez-Montoya, M. M.; Martí, E.; Gómez, R.: LOCAL ENVIRONMENTAL CONDITIONS DETERMINE THE EVOLUTION OF THE ORGANIC MATTER CHEMICAL QUALITY AND MICROBIAL ACTIVITY IN FLOODPLAINS. (ID: 26542)

17:30 **Rovelli, L.**; Attard, K. M.; Hancke, K.; Stahl, H.; Trimmer, M.; Glud, R. N.: SEASONAL CHANGES IN REACH-SCALE STREAM METABOLISM OVER DIFFERENT GEOLOGIES (ID: 26665)

17:45 **Drummond, J. D.**; Bernal, S.; von Schiller, D.; Martí, E.: LINKING IN-STREAM NUTRIENT CYCLING TO HYDRAULICS: A SYNTHESIS STUDY WITHIN A MEDITERRANEAN CATCHMENT (ID: 26395)

18:00 **Lansdown, K. P.**; Trimmer, M.; Heppell, C. M.: DON'T RULE OUT ANAMMOX! BOTH DENITRIFICATION AND ANAMMOX ATTENUATE NITROGEN WITHIN RIVERINE SEDIMENTS (ID: 26218)

TUESDAY

* REPRESENTS INVITED PRESENTATIONS

- 18:15 **Rocher-Ros, G. M.**; Burrows, R. M.; Bergström, A. K.; Giesler, R.; Sponseller, R. A.: RESOURCE LIMITATION IN ARCTIC STREAM ECOSYSTEMS: A COMPARATIVE STUDY AMONG THREE ECOREGIONS IN NORTHERN SWEDEN (ID: 26573)

053 BIODIVERSITY AND ECOSYSTEM SERVICES IN FRESHWATER ECOSYSTEMS, A SOUTH NORTH PERSPECTIVE

Chair(s): Isabelle Durance, stoidp@cardiff.ac.uk
Steve Ormerod, ormerod@cardiff.ac.uk

Location: Picasso (Floor -2)

- 17:00 **Durance, I.**; Chalmers, R.; Chappell, N.; Christie, M.; Cosby, J.; Noble, D.; Ormerod, S.; Prosser, H.; Woodward, G.: PROBING THE LINK BETWEEN BIODIVERSITY AND ECOSYSTEM SERVICES IN UPLAND RIVERS (ID: 26720)
- 17:15 **Feeley, H. B.**; Ormerod, S. J.; Durance, I.: SWIMMING IN MURKY WATERS: UNDERSTANDING THE ROLE OF RIVER BIODIVERSITY IN THE RESILIENCE OF KEY ECOSYSTEM SERVICES (ID: 25805)
- 17:30 **Perkins, D. M.**; Layer-Dobra, K.; Grey, J.; Woodward, G.: LAND USE EFFECTS ON STREAM FOOD WEBS AND ECOSYSTEM SERVICES (ID: 27082)
- 17:45 **Pye, M. C.**; Ormerod, S. J.; Vaughan, I. P.; Durance, I.: TERRESTRIAL CONTRIBUTIONS TO ENERGY FLOW IN HEADWATER STREAMS UNDER CHANGING LAND USE AND CLIMATE (ID: 25630)
- 18:00 **Zarfl, C.**; Tockner, K.: A GLOBAL PERSPECTIVE ON FUTURE HYDROPOWER DAMS AND THEIR BIODIVERSITY IMPACTS (ID: 27542)
- 18:15 **Seelen, L.**; Lürling, M.; Van Donk, E.; De Senerpont Domis, L. N.: DETERMINING ECOSYSTEM SERVICES OF DEEP MAN-MADE LAKES (ID: 26245)

065 BIOGEOCHEMISTRY, PHYSICS, AND SOCIOECONOMICS OF GROUNDWATER-SURFACE WATER INTERACTIONS

Chair(s): Hannelore Waska, hannelore.waska@uni-oldenburg.de
Natasha Dimova, ntdimova@as.ua.edu
Isaac Santos, Isaac.Santos@scu.edu.au
Nils Moosdorf, nils.moosdorf@zmt-bremen.de

Location: Picasso (Floor -2)

- 08:30 Einarsdottir, K.; Wallin, M. B.; **Sobek, S.**: THE MAGNITUDE AND FATE OF DOC AND DIC INPUTS TO A BOREAL LAKE VIA SHALLOW GROUNDWATER SEEPAGE (ID: 26511)
- 08:45 **Buquet, D.**; Anschutz, P.; Charbonnier, C.; Bujan, S.; Laughlin, T.; Poirier, D.; Abril, G.: GROUNDWATER INPUTS IMPACT THE BIOGEOCHEMISTRY OF TWO SHALLOW LAKES (ID: 26346)
- 09:00 **Schmid, M.**; Ross, K. A.; Gashugi, E.; Gafasi, A.; Muvundja, F. A.; Pasche, N.; Wüest, A.: LAKE KIVU: AN EXCEPTIONAL LAKE DRIVEN BY SUBAQUATIC GROUNDWATER DISCHARGE (ID: 25536)
- 09:15 **Anschutz, P.**; Rapin, A.; Deirmendjian, L.; Morel, C.; Abril, G.: PHOSPHORUS BEHAVIOUR AT THE GROUNDWATER-RIVER WATER REDOX BOUNDARY (ID: 25921)
- 09:30 **Cerdà-Domènech, M.**; Garcia-Orellana, J.; Folch, A.; Rodellas, V.: CHARACTERIZATION OF THE RA ISOTOPE END-MEMBERS IN THE SUBMARINE GROUNDWATER DISCHARGE (SGD) (ID: 27054)

- 09:45 **Trezzì, G.**; Garcia-Orellana, J.; Rodellas, V.; Masqué, P.; Garcia-Solsona, E.; Andersson, P.: CONTINENTAL INPUTS OF STRONTIUM TO THE MEDITERRANEAN SEA: SGD AND EBRO RIVERINE FLUX ALONG THE IBERIAN PENINSULA EASTERN COAST (ID: 26721)

- 10:30 **Paytan, A.**: GROUNDWATER-SURFACE WATER INTERACTIONS – CHALLENGES IN THE FACE OF NATURAL AND ANTHROPOGENIC CHANGE^T (ID: 26476)

- 11:00 **Sadat-Noori, M.**; Santos, I. R.; Maher, D. T.; Sanders, C. J.; Sanders, L. M.: QUANTIFYING GROUNDWATER DISCHARGE INTO AN ESTUARY USING SPATIALLY DISTRIBUTED RADON TIME SERIES (ID: 26418)

- 11:15 **Lee, J.**; Kim, G.: DEPENDENCE OF PH IN GROUNDWATER ON THE ADSORPTION OF HYDROGEN IONS ONTO SEDIMENT MINERALS IN SANDY AQUIFERS OF A VOLCANIC ISLAND, JEJU, KOREA (ID: 26640)

- 11:30 **Linkhorst, A.**; Waska, H.; Dittmar, T.: IRON COMPLEXATION WITH DISSOLVED ORGANIC MATTER IN A SUBTERRANEAN ESTUARY: A MOLECULAR DESCRIPTION OF COAGULATING FRACTIONS (ID: 27124)

- 11:45 **Reckhardt, A.**; Beck, M.; Niggemann, J.; Dittmar, T.; Brumsack, H. J.: BIOGEOCHEMICAL CYCLING IN A SUBTERRANEAN ESTUARY: CARBON, NUTRIENTS AND TRACE METALS IN HIGH-ENERGY BEACH PORE WATERS. (ID: 25680)

- 15:00 **Rodellas, V.**; Garcia-Orellana, J.; Trezzì, G.; Masqué, P.; Berdalet, E.; Bokuniewicz, H.; Cochran, J. K.: SEASONAL CYCLES IN RADIUM FLUXES TO A MEDITERRANEAN BAY: SUBMARINE GROUNDWATER DISCHARGE VS POREWATER ADVECTION (ID: 26614)

- 15:15 **Santos, I. R.**; Beck, M.; Brumsack, H. J.; Maher, D. T.; Dittmar, T.; Waska, H.; Schnetger, B.: POREWATER EXCHANGE AS A DRIVER OF CARBON DIOXIDE OUTGASSING IN THE GERMAN WADDEN SEA (ID: 26494)

- 15:30 **Tamborski, J. J.**; Cochran, J. K.; Bokuniewicz, H. J.; Rogers, A. D.: IDENTIFICATION OF FRESH SUBMARINE GROUNDWATER DISCHARGE USING THERMAL INFRARED IMAGERY (ID: 26303)

081 BIVALVES AS NUTRIENT TRANSFORMERS: UNDERSTANDING THE EFFECTS OF BIVALVES ON BIOGEOCHEMICAL PROCESSES

Chair(s): Ashley Smyth, arsmyth@vims.edu
Annie Murphy, annie@vims.edu
Iris Anderson, iris@vims.edu
Bongkeun Song, songb@vims.edu

Location: Machado (Floor -2)

- 17:00 **Cuhel, R. L.**; Aguilar, C.; Carufel, E. R.; Kletter, D.; Valencia, J.: A LITTLE AMMONIA GOES A LONG WAY TO ALTER FOOD WEB NITROGEN DYNAMICS IN LAKE MICHIGAN* (ID: 25973)
- 17:15 **Caffrey, J. M.**; Hollibaugh, J. T.; Mortazavi, B.: LIVING OYSTERS AS ACTIVE SITES OF NITRIFICATION AND DENITRIFICATION* (ID: 26265)
- 17:30 **Nickerson, Z. L.**; Cornwell, J. C.; Owens, S. M.: LOCATING THE SOURCE OF DENITRIFICATION IN A RESTORED OYSTER REEF* (ID: 26993)
- 17:45 **Smyth, A. R.**; Murphy, A. E.; Song, B.; Anderson, I. C.: OYSTER REEFS: A DENITRIFICATION HOT SPOT IN ESTUARINE ECOSYSTEMS* (ID: 27511)

^T REPRESENTS TUTORIAL PRESENTATIONS

- 18:00 **Murphy, A. E.**; Anderson, I. C.; Song, B.; Smyth, A. R.; Luckenbach, M. W.: ENVIRONMENTAL CONTROLS ON MICROBIAL NITRATE RESPIRATION AT A COMMERCIAL CLAM AQUACULTURE SITE* (ID: 27276)
- 18:15 **Vieillard, A. M.**; Tobias, C. R.: THE INFLUENCE OF EASTERN OYSTER GROWTH AND AQUACULTURE PRACTICES ON BENTHIC NITROGEN CYCLING * (ID: 27719)
- 084 INTERACTIVE EFFECTS OF GLOBAL CHANGE ENVIRONMENTAL DRIVERS ON PHYTOPLANKTON AND BACTERIOPLANKTON IN COASTAL WATERS**
- Chair(s): Patrick Neale, nealep@si.edu
Cristina Sobrino, sobrinoc@uvigo.es
Irene Schloss, ireschloss@gmail.com
- Location: Seminario 3-4-5 (Floor 1)
- 08:30 **Banaszak, A. T.**; Villafañe, V. E.; Helbling, E. W.: ANTAGONISTIC AND SYNERGISTIC RESPONSES OF PHYTOPLANKTON TO GLOBAL CHANGE (ID: 27057)
- 08:45 **Bandyopadhyay, D.**; Biswas, H.; Rahman Shaik, A. U.: PHYTOPLANKTON PIGMENTS INDICATE HIGHER LIGHT ENERGY UTILIZATION EFFICIENCY AND HIGHER GROWTH RATE UNDER ELEVATED CO₂ LEVELS FROM THE COASTAL BAY OF BENGAL (ID: 25767)
- 09:00 **Garcia-Gomez, C.**; Gordillo, F. J.; Palma, A.; Lorenzo, M. R.; Segovia, M.: ELEVATED CO₂ ALLEVIATES HIGH PAR AND UV STRESS IN THE UNICELLULAR CHLOROPHYTE DUNALIELLA TERTIOLECTA (ID: 26497)
- 09:15 **Neale, P. J.**; Sobrino, C.; Segovia, M.; Mercado, J. M.; Reul, A.: INTERACTIVE EFFECTS OF ELEVATED CO₂, NUTRIENT ENRICHMENT AND IRRADIANCE ON PHYTOPLANKTON AND BACTERIOPLANKTON FROM A COASTAL ENVIRONMENT (ID: 26442)
- 09:30 **Teixeira, I. G.**; Arbones, B.; Fojón, M.; Zúñiga, D.; Hernández, M.; Sobrino, C.; Castro, C. G.; Teira, E.; Fernández, E.; Figueiras, F. G.: CHANGES IN PHYTOPLANKTON COMMUNITIES IN RESPONSE TO DIFFERENT NUTRIENT INPUTS IN A COASTAL UPWELLING SYSTEM (RIA DE VIGO, NW SPAIN) (ID: 26687)
- 09:45 **Mackey, K. R.**; Chein, C.; Paytan, A.: MICROBIAL AND BIOGEOCHEMICAL RESPONSES TO PROJECTED FUTURE NITRATE ENRICHMENT IN THE CALIFORNIA UPWELLING SYSTEM (ID: 27594)
- 10:30 **Jeffrey, W. H.**; Overton, M.: SEASONAL RESPONSES OF BACTERIOPLANKTON TO ULTRAVIOLET RADIATION IN COASTAL AND ESTUARINE WATERS OF NORTHWEST FLORIDA (ID: 27582)
- 10:45 **Sobrino, C.**; Teira, E.; Alvarez-Salgado, X. A.; Nieto-Cid, M. M.; Hernández-Ruiz, M.; Fernández, E.; Figueiras, F.: INTERACTION BETWEEN ULTRAVIOLET RADIATION AND ALLOCHTHONOUS MATERIALS ON THE PRODUCTION OF COASTAL PLANKTONIC COMMUNITIES (ID: 26570)
- 11:00 **Haynes, V. N.**; Ward, E.; Russell, B.: THE INTERACTIVE EFFECTS OF UV RADIATION AND TITANIUM DIOXIDE NANOPARTICLES ON MARINE SNOW-ASSOCIATED MICROBES (ID: 26365)

- 11:15 **Fuentes-Lema, A.**; Sanleón-Bartolomé, H.; Pazó, M. J.; Vieitez, V.; Álvarez-Salgado, X. A.; Lublán, L. M.; Álvarez, M.; Sobrino, C.: INTERACTION BETWEEN ELEVATED CO₂ AND ORGANIC MATTER ON BACTERIAL METABOLISM (ID: 26633)
- 11:30 **Camarena Gómez, M. T.**; Lipsewers, T.; Pipерине, J.; Perez Queimaliños, D.; Hoikkala, L.; Sobrino, C.; Spilling, K.: SPRING BLOOM PHYTOPLANKTON COMMUNITY COMPOSITION AFFECTS BACTERIAL PRODUCTIVITY IN THE BALTIC SEA. (ID: 25983)
- 11:45 **Lipsewers, T.**; Camarena Gomez, M. T.; Klais, R.; Queimaliños Perez, D.; Spilling, K.: PRIMARY AND BACTERIAL PRODUCTIVITY ARE AFFECTED BY THE PHYTOPLANKTON COMMUNITY COMPOSITION DURING THE BALTIC SEA SPRING BLOOM (ID: 26005)
- 085 CURRENT ADVANCES IN THE INTEGRATION OF (SEMI)AUTOMATED APPROACHES FOR MEASURING PHYTOPLANKTON DYNAMICS, FROM FRESHWATER TO MARINE SYSTEMS**
- Chair(s): Luis Felipe Artigas, Felipe.Artigas@univ-littoral.fr
Veronique Creach, veronique.creach@cefas.co.uk
Jacco Kromkamp, Jacco.Kromkamp@nioz.n
Francesco Pomati, Francesco.Pomati@eawag.ch
Alain Lefebvre, Alain.Lefebvre@ifremer.fr
Melilotus Thyssen, melilotus.thyssen@mio.osupytheas.fr
- Location: Machuca (Floor -2)
- 08:30 **Seppälä, J.**; Ylöstalo, P.; Simis, S.; Kaitala, S.; Houliez, E.; Louw, D.: MONITORING PHYTOPLANKTON TAXONOMY AND PRODUCTIVITY USING FLUOROMETRY^T (ID: 26697)
- 09:00 **Kromkamp, J. C.**; Philippart, C. J.; Rijkeboer, M.; Veen, A.; Silse, G.: HIGH RESOLUTION FRRF MEASUREMENTS AS MEANS TO MEASURE PHYTOPLANKTON PRIMARY PRODUCTION (ID: 26835)
- 09:15 **Fox, J.**; Forster, R.; Creach, V.; Geider, R.: ASSESSING THE ABUNDANCE AND PHOTOSYNTHETIC PARAMETERS OF PHYTOPLANKTON OVER LARGE SPATIAL SCALES: A SEMI-AUTOMATED FAST REPETITION RATE FLUOROMETRY APPROACH (ID: 27133)
- 09:30 **Beecraft, L.**; Watson, S. B.; Smith, R.: APPLICATION OF MULTI-WAVELENGTH VARIABLE FLUORESCENCE (PHYTO-PAM) FOR ASSESSMENT OF COMMUNITY COMPOSITION AND SUNLIGHT SENSITIVITY IN FRESHWATER PHYTOPLANKTON (ID: 25713)
- 09:45 **Hemsley, V. S.**; Painter, S. C.; Martin, A. P.; Frajka-Williams, E. E.; Smyth, T. J.: DETERMINATION OF PRIMARY PRODUCTION USING VERTICALLY PROFILING AUTONOMOUS UNDERWATER VEHICLES (ID: 25840)
- 10:30 **Grégori, G. J.**; Dugenne, M.; Denis, M.; Thyssen, M.: IN SITU CHARACTERISATION OF THE MARINE MICROBE DYNAMICS THANKS TO HIGH FREQUENCY ANALYSIS AT THE SINGLE CELL LEVEL: TOWARD NEW PARADIGMS* (ID: 27117)
- 10:45 **Thyssen, M.**; Grégori, G.; Grisoni, J. M.; Pedrotti, M.; Mousseau, L.; Artigas, L. F.; Marro, S.; Garcia, N.; Passafiume, O.; Denis, M.: INFLUENCE OF ENVIRONMENTAL PULSE EVENTS ON THE PHYTOPLANKTON DYNAMICS DURING A NW MEDITERRANEAN SPRING BLOOM ONSET. (ID: 26696)

TUESDAY

- 11:00 **Ribalet, E.**; Berthiaume, C.; Clayton, C.; Halperin, D.; Howe, B.; Swalwell, J.; Armbrust, E. V.: PROBING THE STRUCTURE OF COMPLEX OCEAN MICROBE COMMUNITIES (ID: 27519)
- 11:15 **Chapman, I. J.**; Esteban, G. F.; Franklin, D. J.: OPTIMISING THE FLOW CYTOMETRIC DETECTION OF THE CYANOBACTERIA *MICROCYSTIS* IN A LOWLAND BRITISH RESERVOIR (ID: 27228)
- 11:30 **Sosik, H. M.**; Peacock, E. E.; Olson, R. J.: PARASITIC INFECTION AND REGULATION OF A COASTAL DIATOM: INSIGHTS FROM A LONG DURATION, HIGH RESOLUTION TIME SERIES OF PLANKTON IMAGES (ID: 27595)
- 11:45 **Brosnahan, M. L.**; Olson, R. J.; Sosik, H. M.; Ralston, D. K.; Anderson, D. M.: APPLICATION OF IN SITU IMAGING IN-FLOW CYTOMETRY FOR THE STUDY OF THE HARMFUL DINOFLAGELLATE *ALEXANDRIUM FUNDYLENSE* (ID: 26367)
- 15:00 **Forster, R. M.**: DETECTION OF PELAGIC ECOSYSTEM CHANGE USING HIGH-FREQUENCY DATA FROM MULTIPLE SOURCES: RESPONSE OF NORTH SEA PLANKTON TO CHANGING TEMPERATURE (ID: 27161)
- 15:15 **Artigas, L. E.**; Bonato, S.; Créach, V.; Hébert, P. A.; Lefebvre, A.; Lizon, F.; Poisson-Caillault, E.; Rijkeboer, M.; Thyssen, M.; Veen, A.: ON THE COMBINATION OF SEMI-AUTOMATED APPROACHES AND TOOLS FOR MEASURING PHYTOPLANKTON DYNAMICS IN COASTAL WATERS: IMPLICATIONS FOR MONITORING NETWORKS (ID: 27623)
- 15:30 **Creach, V.**; Sivyer, D.; Greenwood, N.; Hull, T.: TOWARDS ON-LINE MEASUREMENT OF PHYTOPLANKTON FUNCTIONAL GROUPS AS INDICATORS TO OBSERVE PELAGIC SYSTEMS. (ID: 27199)
- 15:45 **Rijkeboer, M.**; Kromkamp, J. C.; Veen, A.: SIMULTANEOUS HIGH FREQUENCY MONITORING OF MARINE PHYTOPLANKTON COMMUNITIES WITH FLOW CYTOMETRY AND FRRF. (ID: 27455)
- 16:00 Rousseuw, K.; Poisson-Caillault, E.; Lefebvre, A.: TOWARDS A BETTER UNDERSTANDING OF PHYTOPLANKTON BLOOM DYNAMICS AND ASSESSMENT OF ECOLOGICAL STATUS USING UNSUPERVISED DYNAMIC MODELLING (ID: 26976)
- 16:15 **Charoenvattanaporn, J.**; Panton, A.; Purdie, D. A.: INVESTIGATING THE FATE OF PHYTOPLANKTON SUMMER BLOOMS IN A SMALL TEMPERATE ESTUARY USING A COMBINATION OF SPATIAL SURVEYS AND CONTINUOUS AUTONOMOUS MONITORING (ID: 26847)
- 17:00 **Anderson, D. M.**; McGillicuddy, Jr., D. J.; Keafer, B. A.; Scholin, C. A.; Doucette, G. J.; Solow, A. R.; Sirois, A.: USE OF THE ENVIRONMENTAL SAMPLE PROCESSOR (ESP) IN STUDIES OF TOXIC *ALEXANDRIUM* BLOOMS IN THE GULF OF MAINE (ID: 27163)
- 17:15 **Stern, R. F.**; Mills, D.; Walne, A.; Edwards, M.: AN AUTONOMOUS WATER SAMPLER FOR LONG-TERM, MOLECULAR-BASED SAMPLING OF MARINE SYSTEMS (ID: 26032)
- 17:30 **Hessel, J.**; Metfies, K.: MOLECULAR SENSOR-BASED MONITORING OF HARMFUL ALGAE (ID: 26607)

17:45 **Blauw, A. N.**; Benincà, E.; Blaas, M.; Laane, R. W.; Greenwood, N.; Huisman, J.: PHYTOPLANKTON AS PLANT, PARTICLE AND PASSIVE TRACER: AN ANALYSIS OF CHLOROPHYLL FLUCTUATIONS ACROSS DIFFERENT TIME SCALES AND REGIONS OF THE NORTH SEA (ID: 26923)

18:00 **Downing, B.**; Bergamaschi, B.; Kendall, C.; Dennis, K. J.; Carter, J. A.; Kraus, T.; Huang, K.: USING CONTINUOUS WATER ISOTOPE MEASUREMENTS TO UNDERSTAND WATER RESIDENCE TIMES IN HYDRODYNAMICALLY COMPLEX TIDAL ENVIRONMENTS (ID: 27678)

18:15 **Bracher, A. U.**; Taylor, M. H.; Taylor, B. B.; Dinter, T.; Röttgers, R.; Steinmetz, F.: PREDICTION OF PHYTOPLANKTON PIGMENTS CONCENTRATIONS FROM CONTINUOUS REMOTE SENSING REFLECTANCE MEASUREMENTS (ID: 26095)

090 AQUATIC GAS FLUXES: MEASUREMENTS, DRIVERS AND IMPLICATIONS FOR ECOSYSTEM PROCESSES

Chair(s): Yves Prairie, prairie.yves@uqam.ca
Sebastian Sobek, sebastian.sobek@ebc.uu.se
Sally MacIntyre, sally@icess.ucsb.edu
Marcus Wallin, marcus.wallin@geo.uu.se
Daniel McGinnis, dfmcginnis@yahoo.com

Location: Room B (Floor -3)

08:30 **Somlai, C.**; Lorke, A.: DO SPRINGS MATTER? – CONTRIBUTION OF SPRINGS TO THE AQUATIC GAS FLUXES FROM A SMALL WATERSHED IN CENTRAL EUROPE (ID: 26622)

08:45 **Looman, A.**; Santos, I. R.; Tait, D.; Maher, D.; Gatland, J.: CARBON EXPORTS AND CO₂ OUTGASSING FROM A PRISTINE SUBTROPICAL HEADWATER STREAM IN DROUGHT AND FLOOD (ID: 26722)

09:00 **Schelker, J.**; Singer, G. A.; Ulseth, A. J.; Hengsberger, S.; Battin, T. J.: NETWORK-SCALE CO₂ EVASION IN A LOWER ALPINE WATERSHED OF THE AUSTRIAN ALPS (ID: 26914)

09:15 **Vachon, D.**; Solomon, C. T.; Jones, S. E.; Prairie, Y. T.; del Giorgio, P. A.: RECONSTRUCTING SEASONAL SUCCESSION OF THE MAJOR PROCESSES SUSTAINING CO₂ EMISSIONS IN NORTHERN LAKES (ID: 26211)

09:30 Andersen, T.; Dörsch, P.; Thrane, J.; Yang, H.; Hessen, D. O.: GREENHOUSE GAS METABOLISM IN BOREAL LAKES (ID: 26689)

09:45 **Giesler, R.**; Mört, C. M.; Karlsson, J.; Lundin, E.; Lyon, S. W.; Humborg, C.: SPATIOTEMPORAL VARIATIONS OF PCO₂ AND DELTA 13C-DIC IN SUBARCTIC STREAMS IN NORTHERN SWEDEN (ID: 27045)

10:30 **Maranger, R.**; Soued, C.; del Giorgio, P. D.: PATTERNS IN N₂O, CH₄ AND CO₂ FLUX : ARE N AND C GASES COUPLED OR NOT? (ID: 27166)

10:45 **Dunn, S. T.**; Spawn, S. A.; Schade, J. D.; Natali, S. M.; von Fischer, J. C.: METHANE AND CARBON DIOXIDE EMISSIONS FROM A STREAM NETWORK UNDERLAIN BY CONTINUOUS PERMAFROST IN NORTH EASTERN SIBERIA (ID: 27518)

11:00 Quiñones-Rivera, Z. J.; Finlay, K.; Leavitt, P. R.; **Wissel, B.**: METABOLIC AND LIMNOLOGICAL CONTROLS OF ATMOSPHERIC EXCHANGE OF DISSOLVED OXYGEN (DO) AND DISSOLVED INORGANIC CARBON (DIC) ALONG A CHAIN OF HARDWATER LAKES (ID: 27636)

- 11:15 **Tyroler, L.**; Brennwald, M. S.; Marcé, R.; Casas-Ruiz, J. P.; Kipfer, R.: TRACING BUBBLES WITH NOBLE GASES DISSOLVED IN THE SEDIMENT PORE WATER OF TWO RESERVOIRS: LAKE BOADELLA, SPAIN AND LAKE LUNGERN, SWITZERLAND (ID: 26810)
- 11:30 **Klaus, M.**; Geibrink, E.; Bastviken, D.; Jonsson, A.; Bergström, A.; Karlsson, J.: DOES FOREST LOGGING FUEL AQUATIC GREENHOUSE GAS EMISSIONS? (ID: 26645)
- 11:45 **Alshboul, Z.**; Lorke, A.: CARBON DIOXIDE AND METHANE EXPORTED TO STREAMS FROM MUNICIPAL WASTEWATER TREATMENT PLANTS (ID: 25510)

094 POLICY IMPACTS OF AQUATIC SCIENCE: COMMUNICATING SCIENCE TO POLICYMAKERS

- Chair(s): Adrienne Sponberg, sponberg@aslo.org
Kirsten Feifel, kirsten.feifel@gmail.com
- Location: Seminario 3-4-5 (Floor 1)
- 15:00 **McCrackin, M.**; Elfwing, T.; Humborg, C.; Markstedt, H.: BALTIC EYE: FOCUSING ON SCIENCE AND COMMUNICATION TO IMPROVE POLICY MAKING FOR THE BALTIC SEA ENVIRONMENT (ID: 25501)
- 15:15 **Cañedo-Argüelles, M.**; Brucet, S.; Prat, N.: TOO MUCH SALT, TOO LITTLE WATER (ID: 25409)
- 15:30 **Allen, M. R.**; Stumpf, R. P.; Sellner, K. G.; Clark, J.; Moser, F. C.: ENGAGING RESEARCH, EXTENSION AND MANAGEMENT COMMUNITIES TO IMPROVE HARMFUL ALGAL BLOOM MANAGEMENT IN THE CHESAPEAKE BAY (ID: 25837)
- 15:45 **Ofir, E.**; Gal, G.; Shapiro, J.: ESTIMATING THE EFFECT OF BIOMANIPULATION ON A LAKE ECOSYSTEM USING A FOOD-WEB MODEL – LAKE KINNERET AS A CASE STUDY (ID: 25911)
- 16:00 **Essien-Ibok, M. A.**; Ekpo, I. E.: SURVEY OF TRENDS IN AQUATIC ECOSYSTEM MONITORING IN NIGERIA: CASE STUDY OF AKWA IBOM STATE RIVERS (ID: 26079)
- 17:00 **Futter, M. N.**; Vrede, T.; Markensten, H.; Kiessling, A.: SIMPLE MODELS FOR COMPLEX PROBLEMS: USING MASS BALANCE MODELS TO COMMUNICATE THE ENVIRONMENTAL IMPACT OF OPEN SYSTEM AQUACULTURE (ID: 26131)
- 17:15 **Alvarez-Troncoso, R.**; Turner, T.; Roncák, P.; Koszta, I.: TRANSBOUNDARY MANAGEMENT OF THE BLACK SEA AND BELARUS WATERBODIES AND BASINS UNDER THE WATER FRAMEWORK DIRECTIVE (WFD): RESULTS AND PUBLIC OUTREACH (ID: 26302)
- 17:30 **Macleod, C. K.**: WHERE DOES ENVIRONMENTAL ASSESSMENT FIT INTO AQUACULTURE PLANNING? A GLOBAL VIEW FROM AN NEW WORLD PERSPECTIVE. (ID: 26489)
- 17:45 **Rincón Hidalgo, M. M.**; Levontin, P.; Leach, A.; Ruiz Segura, J.; Mumford, J.: INSURANCE SCHEME FOR THE EUROPEAN ANCHOVY: THE ECONOMIC VALUE OF ENVIRONMENTAL INFORMATION (ID: 27547)
- 18:00 **Turner, E. J.**; Capson, T.; Cote, M.; Gledhill, D.; Liebman, M.; Morrison, J. R.; Salisbury, J.; Stancioff, E.; Stymiest, C.; Thomas, H.; Mook, B.: COMMUNICATING OCEAN AND COASTAL ACIDIFICATION TO STAKEHOLDERS AND POLICYMAKERS IN THE NORTHEAST US AND CANADIAN MARITIMES (ID: 27418)

113 BRIDGING THE GAP BETWEEN ECOSYSTEM MODELING AND ECOSYSTEM SERVICES' ASSESSMENT IN COASTAL AND MARINE WATERS

- Chair(s): Adolf Konrad Stips, adolf.stips@jrc.ec.europa.eu
Camino Liquete, camino.liquete@jrc.ec.europa.eu
- Location: Press Room (Floor 2)
- 17:00 **Liquete, C.**; Stips, A.; Druon, J. N.; Katsanevakis, S.; Macias, D.; Piroddi, C.; Tempera, F.: THE POTENTIAL OF ECOLOGICAL MODELING FOR ANALYZING MARINE AND COASTAL ECOSYSTEM SERVICES* (ID: 26515)
- 17:15 **Vanhoutte-Brunier, A.**; Marzin, A.; Laurans, M.; Guyader, O.; Davout, D.; Mongruel, R.; Le Niliot, P.: SYSTEM MODELING AS A TOOL FOR ECOSYSTEM SERVICES ASSESSMENT IN SUPPORT OF KELP HARVESTING MANAGEMENT IN THE IROISE SEA (WESTERN BRITTANY, FRANCE) (ID: 26550)
- 17:30 **Galván, C.**; Puente, A.; Juanes, J. A.: MAPPING ESTUARINE BIOTOPES AS A PREDICTIVE TOOL FOR SHELLFISH PROVISIONING ECOSYSTEM SERVICE (ID: 26666)
- 17:45 **Almodóvar-Acevedo, L.**; Hasan, M.; Townsend, H. M.; Stevens, B. G.: ASSESSING AVAILABLE HABITAT FOR BLACK SEA BASS (*CENTROPRISTIS STRIATA*) IN THE CHESAPEAKE BAY THROUGH A HABITAT SUITABILITY MODEL (ID: 26371)
- 18:00 **Tempera, F.**; Liquete, C.; Cardoso, A. C.: SPATIAL DISTRIBUTION OF MARINE ECOSYSTEM SERVICES IN THE EUROPEAN SEAS (ID: 26173)
- 18:15 **Drakou, E.**; Pendleton, L.: A CONCEPTUAL MODEL TO ASSESS AND MAP ECOSYSTEM SERVICES ENJOYED FAR FROM THE ECOSYSTEMS UPON WHICH THEY DEPEND (ID: 26624)

116 IMPACT OF MICROBIAL BIODIVERSITY ON AQUATIC ECOSYSTEM FUNCTIONING AND BIOGEOCHEMISTRY

- Chair(s): Adam Martiny, amartiny@uci.edu
Elena Litchman, litchman@msu.edu
Christopher Klausmeier, klausme1@msu.edu
Juan Bonachela, jabo@princeton.edu
Simon Levin, slevin@princeton.edu
- Location: Room C (Floor -3)
- 08:30 **Bonachela, J. A.**; Levin, S. A.; Allison, S. D.; Lomas, M. W.; Martiny, A. C.: THE IMPORTANCE OF DIVERSITY IN PHYTOPLANKTON NUTRIENT UPTAKE STRATEGIES FOR MARINE BIOGEOCHEMICAL CYCLES (ID: 26266)
- 08:45 **Dutkiewicz, S.**; Jahn, O.; Ward, B. A.; Scott, J. R.; Follows, M. J.: DIVERSITY OF PHYTOPLANKTON FUNCTION AND CELL SIZE IN THE CURRENT AND FUTURE OCEAN (ID: 26408)
- 09:00 **D'Alelio, D.**; Libralato, S.; Ribera d'Alcalà, M.: EVIDENCE OF PLASTICITY IN PLANKTONIC FOOD-WEBS: AN ANALYSIS OF POSSIBLE DRIVERS AND BIOGEOCHEMICAL IMPLICATIONS (ID: 26703)
- 09:15 **Vallina, S. M.**; Montoya, J. M.; Loreau, M.; Follows, M. J.; Dutkiewicz, S.; Le Quere, C.: AN ECOSYSTEM MARINE MECHANISTIC MODEL OF MODULAR COMPLEXITY (EM4C): FUNCTIONAL DIVERSITY AND FOODWEB STABILITY (ID: 27215)
- 09:30 **Olli, K.**; Ptacnik, R.; Andersen, T.; Trikk, O.; Klais, R.; Lehtinen, S.; Tamminen, T.: AGAINST THE GLOBAL TREND: DIVERSITY INCREASE ENHANCES RESOURCE USE EFFICIENCY IN A COASTAL PLANKTON COMMUNITY (ID: 27205)

TUESDAY

09:45	Otero, J. ; Bode, A.; Álvarez-Salgado, X. A.; Varela, M.: RESOURCE USE EFFICIENCY IS AFFECTED BY PHYTOPLANKTON COMMUNITY CHANGES AND GEOCHEMICAL SHIFTS OVER TIME IN A COASTAL UPWELLING AREA (NE ATLANTIC) (ID: 26825)	17:15	Damashek, J. ; Casciotti, K. L.; Francis, C. A.: LINKING AMMONIA-OXIDIZING MICROBIAL COMMUNITIES TO NITRIFICATION RATES ACROSS THE STEEP GRADIENTS OF SAN FRANCISCO BAY (CA, USA) WATERS (ID: 27538)
10:30	Langenheder, S. ; Berga, M.; Szekely, A. J.; Zha, Y.: TESTING RESPONSES OF BACTERIAL METACOMMUNITIES TO ENVIRONMENTAL CHANGE USING WHOLE ECOSYSTEM MANIPULATION EXPERIMENTS (ID: 27048)	17:30	Agawin, N. R. ; Ferriol, P.; Sintes, E.; Alcón, E.; Mena, C.; de la Torre, A.; Moyà, G.: DIAZOTROPH DIVERSITY AND THEIR RATES OF NITROGEN FIXATION IN A POSIDONIA OCEANICA MEADOW IN THE MEDITERRANEAN SEA (ID: 25830)
10:45	Shen, D. ; Beier, S.; Jürgens, K.: SALINITY ADAPTATIONS OF FRESHWATER, BRACKISH AND MARINE BACTERIAL COMMUNITIES OF THE BALTIc SEA: RESULTS FROM A TRANSPLANT EXPERIMENT (ID: 26977)	17:45	Ransome, E. ; Hartmann, A.; Hester, E.; Plaisance, L.; Knowlton, N.; Meyer, C.; Collins, A.; Rohwer, F.: MICROBIAL DIVERSITY AND FUNCTION ON CORAL REEFS ASSESSED USING AUTONOMOUS REEF MONITORING STRUCTURES (ARMS) AND MULTIOMIC METHODS (ID: 27673)
11:00	Ruiz-González, C. ; Niño, J. P.; Lapierre, J. F.; Del Giorgio, P. A.: CONTRASTING ENVIRONMENTAL CONTROLS OF BACTERIOPLANKTON FUNCTIONAL TRAIT STRUCTURE AND TAXONOMIC COMPOSITION ACROSS LARGE BOREAL LANDSCAPE GRADIENTS (ID: 25943)	18:00	Fernandez-Gonzalez, N. ; Hardison, A. K.; Algar, C. K.; Giblin, A. E.; Rich, J. J.: BACTERIAL COMMUNITY RESPONSE TO INCREASING ORGANIC CARBON AND NITRATE LOADS IN MARINE SEDIMENTS (ID: 25925)
11:15	Godwin, C. M. ; Cotner, J. B.: THE EFFECT OF ORGANIC CARBON PARTITIONING IN STOICHIOMETRIC MODELS OF AQUATIC HETEROTROPHIC BACTERIAL ASSEMBLAGES (ID: 27372)	18:15	Trimmer, M. ; Shelley, F. C.; Purdy, K. J.; Maanoja, S. T.; Grey, J.: RIVERBED METHANOTROPHY - FUNCTIONAL REDUNDANCY OR A DYNAMIC AFFINITY FOR METHANE? (ID: 26711)
11:30	Sjöqvist, C. ; Kremp, A.: GENETIC DIVERSITY AFFECTS STABILITY OF ECOLOGICAL FUNCTIONS OF A MARINE DIATOM UNDER SALINITY STRESS (ID: 26651)		
11:45	Canelhas, M. R. ; Eiler, A.; Bertilsson, S.: TITLE: SUBSTRATE AND LIGHT: DRIVERS OF BACTERIAL COMMUNITY COMPOSITION (ID: 25783)		
15:00	Johnson, Z. I. ; Lin, Y.; Larkin, A.; Loftus, S.; Hurley, D.; Rose, S.; Ma, L.; Chandler, J.; Zinser, E. R.: IN SITU ACTIVITY OF PROCHLOROCOCCUS ECOTYPES ACROSS ENVIRONMENTAL GRADIENTS IN THE PACIFIC OCEAN (ID: 27481)		
15:15	Fragoso, G. ; Poulton, A.; Purdie, D.: LABRADOR SEA SPRING BLOOMS: UNVEILING THE DRIVERS THAT SHAPE PHYTOPLANKTON FUNCTIONAL TRAITS (ID: 26653)		
15:30	Shoemaker, K. M. ; Moisander, P. H.: SEASONAL TRENDS IN THE COPEPOD GUT MICROBIOME IN THE SARGASSO SEA (ID: 27508)		
15:45	Rouco, M. ; Haley, S. T.; Dyrhman, S. T.: MICROBIAL DIVERSITY WITHIN THE <i>TRICHODESIUM</i> CONSORTIUM (ID: 27514)		
16:00	Moisander, P. H. ; Daley, M.; Shoemaker, K. M.; Roberts-Sano, B.; Sexton, A.: MICROBIAL COMMUNITY COMPOSITION IN ASSOCIATION WITH TEMPERATE MARINE COPEPODS FROM THE GULF OF MAINE (ID: 27679)		
16:15	Tsiola, A. ; Pitta, P.; Tsagarakis, T. M.; Pavloudi, C.; Kotoulas, G.: PROKARYOTIC ABUNDANCE, DIVERSITY AND PHOX GENE DISTRIBUTION ACROSS THE MEDITERRANEAN SEA (ID: 27164)		
17:00	Battin, T. J. ; Besemer, K.; Wilhelm, L.; Singer, G.; Peter, H.; Widder, S.: UNRAVELLING THE MASSIVE BIODIVERSITY AND FUNCTIONAL COMMUNITY STRUCTURE OF MICROBIAL BIOFILMS IN STREAM NETWORKS (ID: 25781)		

120 KEY PLAYERS IN BENTHIC PROCESSES: MICRO VS. MACRO

Chair(s): Diana Vasquez Cardenas, diana.vasquez@nioz.nl
Francesc Montserrat, francesc.montserrat@nioz.nl

Location: Press Room (Floor 2)

08:30 **Kristensen, E.**; Quintana, C. O.; Flindt, M. R.; Valdemarsen, T.: ARE BIOTURBATION IMPACTS ON SEDIMENT BIOGEOCHEMISTRY GOVERNED BY THE FUNCTIONAL TRAITS OF BENTHIC SPECIES?* (ID: 25500)

09:00 **Gogina, M.**; Darr, A.; Morys, C.; Lipka, M.; Woelfel, J.; Zettler, M. L.: QUANTIFYING AND MAPPING THE POTENTIAL ROLE OF BENTHIC MACROFAUNA IN ECOLOGICAL FUNCTIONING ALONG NATURAL GRADIENTS (ID: 25435)

09:15 **Sturdivant, S. K.**; Shimizu, M.: *IN SITU* ORGANISM-SEDIMENT INTERACTIONS: NOVEL OBSERVATIONS OF BIOTURBATION & BIOGEOCHEMISTRY IN A HIGHLY DEPOSITIONAL ESTUARY, CAPE LOOKOUT BIGHT, USA (ID: 27603)

09:30 **Valdemarsen, T. B.**; Quintana, C. O.; Thorsen, S. W.; Kristensen, E. B.: SURVIVAL AND BIOTURBATION EFFECTS OF COMMON MARINE MACROFAUNA IN COASTAL SOILS NEWLY FLOODED WITH SEAWATER (ID: 26658)

09:45 **Airs, R. L.**; Tait, K.; Zhang, Q.; Warwick, R. M.; McNeill, L.; Widdicombe, C. E.; Sheehan, A.; Queiros, A. M.; Taran, G. A.; Widdicombe, S.: DETAILED STRUCTURE OF THE BENTHIC BACTERIAL AND MACROFAUNA COMMUNITY RESPONSE DURING A PROLONGED PHYTOPLANKTON BLOOM IN THE WESTERN ENGLISH CHANNEL (ID: 27168)

10:30 **Lewandowski, J.**; Höller, F.; Baranov, V.; Hupfer, M.: 2 : 1 FOR TEAM MACRO: CHIRONOMIDS ARE KEY PLAYERS NOT ONLY IN BENTHIC PROCESSES BUT EVEN IN ENTIRE ECOSYSTEMS (ID: 25599)

10:45	Burdorf, L. ; Malkin, S. Y.; Seitaj, D.; Meire, L.; Cook, P.; Meysman, F.: LONG DISTANCE ELECTRON TRANSPORT BY CABLE BACTERIA IN MARINE SEDIMENTS: A GLOBAL PHENOMENON (ID: 26809)	09:45	Nakamura, M. ; Watanabe, H.; Sasaki, T.; Yamamoto, H.; Mitarai, S.: COLONIZATION PATTERNS OF VENT SPECIES AFTER DRILLING IN THE IHEYA NORTH HYDROTHERMAL FIELD IN THE OKINAWA TROUGH (ID: 26510)
11:00	Aschenbroich, A. ; Stieglitz, T.; Fromard, F.; Thouzeau, G.; Aller, R. C.; Tavares, M.; Gardel, A.; Michaud, E.: MANGROVE CRABS AND THEIR BURROWS – KEY PLAYERS IN BENTHIC PROCESSES IN MANGROVE ECOSYSTEMS (ID: 27126)	10:30	Jacob, M. ; Soltwedel, T.; Ramette, A.; Boetius, A.: DEEP-SEA BACTERIAL AND EUKARYOTIC COMMUNITIES RESPOND RAPIDLY TO PARTICLE FLUX VARIATION DUE TO WARMING OF THE ARCTIC OCEAN (ID: 26741)
11:15	Vasquez Cardenas, D. ; Meysman, F. J.; van Breugel, P.; Boschker, H. T.: BENTHIC CHEMOAUTOTROPHY: KEY PROCESS IN COASTAL CARBON CYCLING (ID: 25661)	10:45	Hoffmann, K. ; Boetius, A.; Bienhold, C.: FED UP: IMPACT OF DIFFERENT FOOD PULSES ON BACTERIAL DIVERSITY AND ACTIVITY IN ARCTIC DEEP-SEA SEDIMENTS (ID: 25685)
11:30	Quintana, C. O. ; Raymond, C.; Bonaglia, S.; Nascimento, F.; Forster, S.; Bastrop, R.; Gunnarsson, J.; Kristensen, E.: BIOTURBATION EFFECTS OF THREE MARENZELLERIA SPECIES (POLYCHAETA) ON THE BIOGEOCHEMISTRY OF WESTERN AND EASTERN BALTIC SEA SEDIMENTS (ID: 26680)	11:00	Hasemann, C. ; Mokrevsky, V.; Sablotny, B.; Soltwedel, T.: IMPACT OF MACROFAUNA BIOTURBATION ON SMALL-SCALE DISTRIBUTION PATTERNS OF DEEP-SEA MEIOFAUNA: AN EXPERIMENTAL APPROACH (ID: 26540)
11:45	Seitaj, D. ; Meysman, F. J.: MICROBIAL INNOVATION AND THE QUEST FOR ELECTRON DONORS IN MARINE SEDIMENTS (ID: 26327)	11:15	Stratmann, T. ; Sweetman, A.; Moodley, L.; Mevenkamp, L.; Vanreusel, A.; van Oevelen, D.: IMPACT OF MINE TAILING DEPOSITION ON THE ECOLOGY AND BIOGEOCHEMISTRY OF MARINE SEDIMENTS (ID: 26101)
15:00	Ziebis, W. : ANIMAL-SEDIMENT-MICROBE INTERACTIONS AND THEIR IMPACT ON BIOGEOCHEMICAL PROCESSES IN THE SEABED* (ID: 27361)	11:30	Purser, A. ; Aguzzi, J.; Godo, O. R.; Doya, C.; Thomsen, L.: SPATIAL AND TEMPORAL SEAFLOOR AND WATER COLUMN MONITORING WITH TRACKED BENTHIC CRAWLERS (ID: 27431)
15:45	Mehring, A. S. ; Levin, L. A.; Evrard, V.; Grant, S. B.; Cook, P. L.: THE CONTRIBUTION OF AQUATIC INVERTEBRATES TO BENTHIC GREENHOUSE GAS FLUX IN URBAN WETLANDS (ID: 27737)		
16:00	Taylor, J. D. ; Cunliffe, M.: IMPACT OF MACROFAUNA ON HYDROCARBON DEGRADATION AND ACTIVE MICROBIAL COMMUNITY COMPOSITION IN OIL CONTAMINATED SEDIMENTS (ID: 26161)		
16:15	Buck, K. R. ; Walz, K.; Kuhnz, L.; Yagar, P.; Barry, J. P.: DEEP-SEA BENTHIC FAUNA :BIOMASS AND METABOLISM (ID: 25658)		

121 NATURAL AND ANTHROPOGENIC DISTURBANCES ON DEEP-SEA ECOSYSTEMS

Chair(s):	Dick van Oevelen, Dick.van.Oevelen@nioz.nl Andrew Sweetman, Andrew.Sweetman@iris.no
Location:	Andalucia 2 (Floor 1)
08:30	Soetaert, K. ; Mohn, C.; Rengstorf, A.; Grehan, A.; van Oevelen, D.: DIRECT COUPLING OF 600 M DEEP-WATER CORALS TO SURFACE PRODUCTIVITY (ID: 25492)
08:45	Georgian, S. E. ; Dupont, S.; Kurman, M.; Cordes, E. E.: LOCAL ADAPTATION ALTERS PHYSIOLOGICAL RESPONSE TO OCEAN ACIDIFICATION IN SEPARATE BIOGEOGRAPHIC POPULATIONS OF COLD-WATER CORALS (ID: 27130)
09:00	Reynaud, S. ; Gori, A.; Orejas, C.; Ferrier-Pages, C.: THE COLD-WATER CORAL <i>DENDROPHYLLOLIA CORNIGERA</i> PREFERS TEMPERATE THAN COLD ENVIRONMENTS (ID: 26509)
09:15	Gerla, D. J. ; Baussant, T.; Van Oevelen, D.: A PHYSIOLOGICAL MODEL FOR ASSESSING THE IMPACT OF DRILLING WASTES ON COLD WATER CORAL (ID: 26208)
09:30	Nihongi, A. ; Consi, T.; Hinow, P.; Nagai, T.; Uttieri, M.; Fennimore, E. J.; Genin, A.; Strickler, J. R.: IMPACTS OF OIL AND DISPERSANTS ON SWIMMING BEHAVIORS OF COPEPODS IN THE DEEP-WATER SIMULATOR (ID: 25728)

TUESDAY

133 AQUATIC SCIENCE EDUCATION AND OUTREACH: EXPANDING INTERNATIONAL SCIENCE LITERACY

Chair(s):	Bob Chen, bob.chen@umb.edu Adrienne Sponberg, sponberg@aslo.org Linda Duguay, duguay@usc.edu
Location:	Andalucia 3 (Floor 1)
08:30	Galush, T. J. ; Cotner, S. H.: THE HYDROZOAN <i>HYDRACTINIA</i> AS A MODEL ORGANISM FOR COURSE-BASED UNDERGRADUATE RESEARCH PROJECTS (ID: 25432)
08:45	Alvarez-Troncoso, R. ; Perez-Bilbao, A.; Benetti, C. J.; Garrido, J.: TRICHOPTERA ASSEMBLAGES IN FOUR RIVERS IN NW SPAIN Affected BY HYDROELECTRIC POWER STATIONS: A CASE TO SHARE IN TRAINING STUDENTS COURSE (ID: 26736)
09:00	Lewis, C. ; Buchanan-Dunlop, J.: HOW CAN MARINE SCIENCES SUPPORT SCIENCE EXCELLENCE IN SCHOOLS? (ID: 26220)
09:15	Ludwig, C. M. ; Orellana, M. V.; Baliga, N. S.: BRINGING CRITICAL SYSTEMS THINKING TO SECONDARY SCHOOL STUDENTS THROUGH OCEAN ACIDIFICATION RESEARCH (ID: 25550)
09:30	Geraci, C. J.; Idrisi, N. : PEER RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU): FRESHWATER SCIENCE AND POLICY IN THE HUMAN-DOMINATED TIGRIS RIVER BASIN, IRAQ (ID: 26152)
09:45	Juanes, J. A. ; Gomez, A. G.; Martinez, S.; Ondiviela, B.; Fernandez, F.; Samano, M. L.: A SUCCESSFUL EXPERIENCE OF A MOOC IN PORT WATERS' QUALITY MANAGEMENT (ID: 27142)
10:30	Aguilar, C. ; Cuhe, R. L.; Joyce, C.: UNITED STATES-INDIA-FRANCE STUDENT WATER QUALITY FILM FESTIVAL: MILWAUKEE HIGH SCHOOL STUDENTS ASK IF DILUTION IS THE SOLUTION TO POLLUTION FOR LAKE MICHIGAN (ID: 25971)

* REPRESENTS INVITED PRESENTATIONS

10:45	Chen, R. F. ; Lohmeier, J.; Lustick, D.; Rabkin, D.; Thompson, S.; Wilson, R.: CLIMATE CHANGE (ID: 26470)	
11:00	Cosme, N. ; Olsen, S. I.: A TEACHING AND COMMUNICATION TOOL BASED ON DPSIR AND LCIA INDICATOR FOR MARINE EUTROPHICATION (ID: 26745)	
11:15	Jato, J.; De Los Bueis, J.; Urgorri, V.; Fernandez, E. : "DIVING INTO THE OCEAN": BRINGING MARINE SCIENCE TO THE SOCIETY IN THE NW IBERIAN PENINSULA (ID: 26790)	
11:30	de Tezanos Pinto, P. ; Izaguirre, I.; Saad, J.; Fontanarrosa, S.; Vinocur, A.; García Facal, G.; Yema, L.; López, M. E.; Rodriguez, P.; Sanchez, M. L.: COMMUNICATING LIMNOLOGY TO HIGH SCHOOL STUDENTS AND GENERAL PUBLIC IN ARGENTINA (ID: 27496)	
11:45	Sánchez, Y.; Figueroa, M.; Subida, M. D.; Fernandez, M. : CHILE ES MAR – EDUCATING FOR MARINE CONSERVATION IN CHILE (ID: 27616)	
15:00	Krug, L. A. ; Rumyantseva, A.; Orchowska, M.; Shatova, O.; Cheung, V.; Seeyave, S.: THE NF-POGO ALUMNI NETWORK FOR OCEANS (NANO) (ID: 26737)	
15:15	Tockner, K. ; Tydecks, L.: BIOLOGICAL FIELD STATIONS – UNIQUE INFRASTRUCTURE OF GLOBAL STRATEGIC RELEVANCE (ID: 27465)	
15:30	Moore, A. M. ; Searle, R.; Stewart, A.; Frey, M.; Guest, H.; Murray, H.; Rockall, M.: CANOE: BUILDING CANADA'S OCEAN LITERACY NETWORK (ID: 26176)	
15:45	Pecchiar, I. ; Manno, C.: EXPERIENCING THE POLAR RESEARCH: FIRST STEP TO BUILD AN "INTO THE FIELD CLASSROOMS EDUCATIONAL NETWORK" (ID: 25523)	
16:00	Paxton, A. B. ; Larkin, A. A.; Heenehan, H. L.; Ridge, J. T.; Theuerkauf, E. J.: SCIENTIFIC RESEARCH AND EDUCATION NETWORK (SCIREN): A NOVEL APPROACH TO CONNECTING LOCAL STEM RESEARCHERS AND EDUCATORS (ID: 26379)	
16:15	Schiebel, H. N. ; Chen, R. F.; Lustick, D.; Rabkin, D.; Berhmann, K.; Morse, M.; Thompson, S.; Wilson, R.; Lohmeier, J.: SCIENCE CAFES: MAKING SOCIAL MEDIA PERSONAL (ID: 25482)	
17:00	Vang, N. K. ; Cotner, S. C.: WE'VE GOT CRABS: USING A TRAVELING TOUCH TANK TO ENGAGE SCHOOLCHILDREN IN THE EMPIRICAL NATURE OF SCIENCE (ID: 25654)	
17:15	Purser, A. ; Lund, S.; Williams, R.; Thomsen, L.: THE USE OF CABLED DEEP SEA BENTHIC CRAWLERS IN MARINE SCIENCE EDUCATION (ID: 27470)	
17:30	Bresnahan, P. J. ; Wirth, T.; Martz, T. R.: SUP, SCIENCE: LINKING THE CHARISMA OF WATERSPORTS AND GLOBAL CHANGE OCEAN CHEMISTRY EDUCATION (ID: 25553)	
17:45	Wicks, L. C. ; Roberts, J. M. : INSPIRING SEA-VOYAGE CREATING ENVIRONMENTAL AMBASSADORS (ID: 26702)	

TUESDAY POSTERS

001 ASLO MULTICULTURAL PROGRAM (ASLO MP) STUDENT SYMPOSIUM

Chair(s): Benjamin Cuker, benjamin.cuker@hamptonu.edu
Deidre Gibson, deidre.gibson@hamptonu.edu

Location: Poster and Exhibit Area (Floor 1)

- 1 **Ordonez, V.**: EXAMINING THE EFFECT OF NATURAL AND CONSTRUCTED OYSTER REEFS ON FISH POPULATIONS IN SOUTH CAROLINA ESTUARIES (ID: 26468)
- 2 **Davis, C. D.**; Banks, M. A.: RESOLVING TEMPORAL SUBSTRUCTURE OF CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) IN THE SILETZ RIVER, OREGON. (ID: 27105)
- 3 **Perez, J. E.**; Robinson, W. E.: METAL TRANSPORT FROM THE BLOOD PLASMA TO THE KIDNEYS IN THE BIVLAVE MYTILUS EDULIS (ID: 26433)
- 4 **Bynes, K.**; Malagon, H.; Alvarez, J.; Chigbu, P.: ENVIRONMENTAL FACTORS AFFECTING THE ABUNDANCE AND DISTRIBUTION OF JUVENILE SPOT (*LEIOSTOMUS XANTHURUS*) IN MARYLAND COASTAL BAYS (ID: 26756)
- 5 **Green, S. R.**; CHung, J. S.; Stevens, B.: UNDERSTANDING THE REPRODUCTIVE ENDOCRINOLOGY OF THE RED DEEPSEA CRAB, *CHACEON QUINQUEDENS*: IDENTIFICATION OF REPRODUCTIVE REGULATORS AND VITELLOGENIN (ID: 27315)
- 6 **Moore, T. N.**; Burdige, D. J.: OCEAN ACIDIFICATION EFFECTS ON CARBONATE DISSOLUTION (ID: 27371)
- 7 **Tohl, M.**; Burmester, L.; Rotjan, R.: THE EFFECTS OF SYMBIODINIUM SP. PRESENCE ON THE MORPHOLOGY OF THE TEMPERATE CORAL, *ASTRANGIA POCULATA* (ID: 27435)
- 8 **Ricaurte, M. L.**; Schizas, N.; Weil, E.; Ciborowski, P.; Negrón, O. J.; Boukli, N.: PROTEOMIC PROFILES OF TWO THREATENED CARIBBEAN CORAL SPECIES UNDER AMBIENT TEMPERATURES (ID: 27735)
- 9 **Rivera Vazquez, Y.**; Bingham, B. L.: THE IMPACT OF EXUDATES FROM *ULVARIA OBSCURA* ON SAND DOLLAR AND OYSTER DEVELOPMENT (ID: 27756)
- 10 **Serrano-Zayas, C.**; McKenzie, K.; Frischer, M.; Cox, T.: IDENTIFICATION OF BACTERIAL COMMUNITIES ASSOCIATED WITH BOTTLENOSE DOLPHINS *TURSIOPS TRUNCATUS* (ID: 25927)
- 11 **Henry, C. A.**; Howard, K. E.; Fong, P.; Barber, P.: ALGAL HERBIVORY AND THE EFFECT OF BACTERIAL COMMUNITIES MO'OREA, FRENCH POLYNESIA (ID: 25954)
- 12 **Ellis, L. S.**; Carroll, K.; Filippino, K. C.; Bernhardt, P. W.; Mulholland, M. R.: THE IMPACTS OF STORMS ON PHYTOPLANKTON GROWTH AND PRODUCTIVITY (ID: 25958)
- 13 **Oglesby, T. L.**; Waples, D.; Read, A.: FORAGING ECOLOGY OF ANTARCTIC HUMPBACK (*MEGAPTERA NOVAEANGLIAE*) AND MINKE WHALES (*BALENOPTERA BONAERENSIS*) USING STABLE ISOTOPE ANALYSIS (ID: 26415)
- 14 **Broadhead, T. S.**; Stanistreet, J.; Nowacek, D.: PASSIVE ACOUSTIC MONITORING OF NORTH ATLANTIC RIGHT WHALES, *EUBALAENA GLACIALIS* (ID: 26413)

- 15 **Mescioglu, E.**; McDonald, N.; Parsons, R. J.: THE MICROBIAL DEGRADATION OF LIGNIN AND THE SUBSEQUENT PRODUCTION OF MARINE DISSOLVED ORGANIC MATTER IN THE SARGASSO SEA (ID: 26259)
- 16 **Zayas del Rio, G. B.**; Apple, J. K.: SEASONAL AND SPATIAL EXTENT OF LOW-DISSOLVED OXYGEN IN BELLINGHAM BAY (ID: 25671)
- 17 **Gay, N. R.**; Cruz-Marrero, W.; Stevens, B.: SURVEY OF EPI-BENTHIC SPECIES IN PLANNED OFFSHORE WIND POWER SITES (ID: 25586)
- 18 **Rosado-Rodríguez, G.**; Otero-Morales, E.: MARINE SPONGES AND THEIR FUNGAL ASSOCIATES AS BIOINDICATORS OF HEAVY METAL POLLUTION IN COASTAL ENVIRONMENTS (ID: 26308)
- 19 **Binkley, C.**; Blalock, B.; Cleary, A.; Zhou, M.; Durbin, E.; Poynton, H.: UNDERSTANDING GENE EXPRESSION IN *EUPHAUSIA SUPERBA* DURING QUIESCEENCE (ID: 27236)
- 20 **Anthony, K. L.**: PAAKAI OVERLOAD: POTENTIAL CONSEQUENCES OF OVER-MIXING BRACKISH WATER ECOSYSTEMS IN KEAUKAHA, HAWAII (ID: 26598)
- 21 **Jensen, L. T.**; Oldham, V.; Luther, G. W.: MANGANESE SPECIATION IN THE BROADKILL RIVER ESTUARY (ID: 25651)
- 22 **Jackson, R. L.**; Andrianasolo, E.; Vetriani, C.: NOVEL DRUG SOURCES FOUND AT HYDROTHERMAL VENTS (ID: 25655)
- 23 **Chapina, R. J.**; Chavez- Ramos, J.; Walsh, E. J.: GENETIC VARIATION IN A TROPICAL REEF DWELLING CRUSTACEAN *MYSIDIUM GRACILE* (ID: 27077)
- 24 **Ets-Hokin, J. M.**: FUNCTIONAL ANALYSIS OF FE(III) REDUCTASE GENES IN THE DIATOMS *PHAEODACTYLUM TRICORNUTUM* AND *THALASSIOSIRA PSEUDONANA* (ID: 25752)
- 25 **Degregori, S.**; Hetzinger, S.; von Reumont, J.; Manfrino, C.; Jacoby, C.; Luis, K.: TIDAL INFLUENCE ON LAGOONAL TEMPERATURE IN LITTLE CAYMAN, CENTRAL CARIBBEAN, USING HIGH-RESOLUTION IN-SITU TEMPERATURE MEASUREMENTS (ID: 26363)
- 26 **Fernandez, J. M.**; Townsend-Small, A.; Disbennett, D. A.; MacKay, R.; Bourbonniere, R.: RELATIVE CONTRIBUTIONS OF HYPOXIA AND NATURAL GAS PRODUCTION AND TRANSPORT TO METHANE EMISSIONS FROM LAKE ERIE (ID: 25729)
- 27 **Hart, A. T.**; D'Andrea, W. J.; Balascio, N. L.; Bradley, R. S.; Gjerde, M.; Bakke, J.: CONSTRUCTING A TEMPERATURE RECORD USING ALKENONE UNSATURATION IN LAKE SEDIMENTS FROM AMSTERDAMOYA, SVALBARD (ID: 26381)
- 28 **Castro, S. M.**; Palinkas, C.: GEOCHRONOLOGICAL ANALYSIS OF SEDIMENTS IN TIDAL FRESHWATER MARSH IN THE PATUXENT RIVER (ID: 25760)

002 COMPOSITION AND REACTIVITY OF DISSOLVED ORGANIC MATTER (DOM) ACROSS LANDSCAPES

Chair(s): Nuria Catalan Garcia, ncatalangarcia@gmail.com
Dolly Kothawala, dolly.kothawala@ebc.uu.se
Anne Kellerman, anne.kellerman@ebc.uu.se
Lars Tranvik, lars.tranvik@ebc.uu.se

Location: Poster and Exhibit Area (Floor 1)

- 29 **Fuß, T.**; Behounek, B.; Ulseth, A. J.; Singer, G. A.: LINKING DISSOLVED ORGANIC MATTER COMPOSITION TO STREAM ECOSYSTEM METABOLISM ACROSS A LAND-USE GRADIENT (ID: 25643)

TUESDAY

- 30 **Retelletti Brogi, S.**; Gonnelli, M.; Vestri, S.; Santinelli, C.: DOC AND CDOM DYNAMICS IN THE ARNO RIVER (ITALY) (ID: 27683)
- 31 **Erhagen, B.**; Berggren, M.; Sponseller, R.; Panneer Selvam, B.; Giesler, R.: BIOAVAILABILITY OF STREAM DISSOLVED ORGANIC CARBON (DOC) DURING SPRING FLOOD AND BASE FLOW IN HIGH-LATITUDE STREAMS (ID: 26527)
- 32 **Behounek, B.**; Fuß, T.; Ulseth, A. J.; Singer, G. A.: OPTICS AND BIODEGRADABILITY OF FLUVIAL DOM ACROSS A CATCHMENT LANDUSE GRADIENT AND AS INFLUENCED BY MIXING OF WATERS AT CONFLUENCES (ID: 26710)
- 004 ADVANCES IN COASTAL HYPOXIA MODELING: FROM PHYSICS TO FISH**
- Chair(s): Katja Fennel, katja.fennel@dal.ca
Robert Hetland, hetland@tamu.edu
Dubravko Justic, djustic@lsu.edu
- Location: Poster and Exhibit Area (Floor 1)
- 38 **DiMarco, S. E.**; Zimmerle, H.; Chapman, P.; Howard, M. K.: INTERANNUAL VARIABILITY OF ALONG- AND CROSS-SHELF SPATIAL SCALES OF OXYGEN, CHLOROPHYLL, AND CDOM IN THE GULF OF MEXICO HYPOXIC ZONE FROM TOWED OBSERVATIONS (ID: 26412)
- 39 **Lajaunie Salla, K.**; Sotolichio, A.; Thouvenin, B.; Litrico, X.; Abril, G.: 3D MODELLING OF SUMMER HYPOXIA IN A HIGHLY TURBID URBANIZED MACROTIDAL ESTUARY, COUPLING HYDRODYNAMICS, SEDIMENT TRANSPORT AND BIOGEOCHEMICAL PROCESSES. (ID: 26934)
- 009 RESERVOIR LIMNOLOGY**
- Chair(s): John Harrison, john_harrison@wsu.edu
Bridget Deemer, bridget.deemer@email.wsu.edu
Cayelan Carey, cayelan@vt.edu
John Little, jcl@vt.edu
Justin Brookes, justin.brookes@adelaide.edu.au
Francisco Rueda, frueda@ugr.es
- Location: Poster and Exhibit Area (Floor 1)
- 63 **Ramón, C. L.**; Armengol, J.; Dolz, J.; Rueda, F. J.: SPATIAL DISTRIBUTION OF INFLOWING RIVERS AND MECHANISMS INDUCING MIXING AT THE CONFLUENCE OF TWO LARGE RIVERS SUBJECT TO VERTICAL STRATIFICATION (ID: 26568)
- 64 **Rocha, M. I.**; Guedes, I. A.; Gomes, A. M.; Rangel, L. M.; Branco, C. W.; Azevedo, S. M.: THE PHYTOPLANKTON COMMUNITY OF A TROPICAL RESERVOIR LARGE DIFFERS FROM UPSTREAM AND DOWNSTREAM COMMUNITIES (ID: 27572)
- 65 **Gomes, A. M.**; Marinho, M. M.; Mesquita, C. M.; Prestes, A. C.; Azevedo, S. F.; Lurling, M.: GLOBAL CHANGE SCENARIO SIMULATION AFFECTING THE PHYTOPLANKTON COMMUNITY OF TWO AQUATIC SYSTEMS WITH DIFFERENT TROPHIC STATES (ID: 27715)
- 66 **Gómez, M. J.**; VAZQUEZ, M. J.; VELO, M.; PIÑEIRO, R.: TRIBUTARIES INFLUENCE IN RESERVOIR EUTROPHICATION (ID: 26353)

012 BIOGEOCHEMICAL PROCESSES OF ANTARCTIC SHELF SYSTEMS

- Chair(s): Dennis A. Hansell, dhansell@rsmas.miami.edu
Giacomo DiTullio, Dittilio@cofc.edu
Robert B. Dunbar, dunbar@stanford.edu
Alexander B. Bochdansky, ABBochdan@odu.edu
Monica Orellana, Monica.Orellana@systemsbiology.org
Roberta L. Hansman, rhansman@gmail.com
- Location: Poster and Exhibit Area (Floor 1)
- 73 **Rivaro, P.**; Langone, L.; Aulicino, G.; Cotroneo, Y.: MESOSCALE VARIABILITY OF THE CARBONATE SYSTEM IN THE ROSS SEA (ANTARCTICA) DURING THE 2014 SUMMER SEASON. (ID: 27064)
- 74 **Kim, S.**; Hyun, J.; Choi, A.; Cho, H.; Lee, S.; Yang, E.: LOW BENTHIC RESPIRATION AT HIGHLY PRODUCTIVE POLYNYA IN THE AMUNDSEN SEA, ANTARCTICA (ID: 27705)

014 ATMOSPHERIC DEPOSITION EFFECTS IN AQUATIC ECOSYSTEMS

- Chair(s): Francesc Peters, cesc@icm.csic.es
Barak Herut, barak@ocean.org.il
Adina Paytan, apaytan@ucsc.edu
Cecile Guieu, guieu@obs-vlfr.fr
Ana M Aguilar-Islas, amaguilarislas@alaska.edu
Clifton Buck, Clifton.Buck@skio.uga.edu
Simon Usher, sussher@plymouth.ac.uk
- Location: Poster and Exhibit Area (Floor 1)
- 79 **McDonald, N.**; Oliver, A.; Peters, A. J.: QUANTIFICATION AND CHARACTERIZATION OF WATER-SOLUBLE ORGANIC COMPOUNDS IN THE MARINE BOUNDARY LAYER (ID: 26297)
- 80 **Nunes, S. O.**; Marín, I. B.; Mikel, L.; Peters, F.; Sánchez-Pérez, D. E.; Moreno, T.; Querol, X.; Estrada, M. M.: IMPACT OF ATMOSPHERIC AEROSOLS WITH DIFFERENT COMPOSITION ON COASTAL MEDITERRANEAN PHYTOPLANKTON (ID: 26337)
- 81 **D'Orta, G.**; Mladenov, N.; Winget, D.; Suttle, C. A.; Reche, I.: DEPOSITION RATES OF BACTERIA AND VIRUSES ATTACHED TO DUST AND MARINE AEROSOLS (ID: 26331)
- 83 **Mladenov, N.**; Oldani, K.; Williams, M. W.: QUANTITY AND QUALITY OF ORGANIC AEROSOLS AND OTHER ATMOSPHERIC INPUTS TO A CARBON-LIMITED ALPINE WATERSHED (ID: 27733)
- 84 **Frey, C.**; Korth, F.; Moros, C.; Liskow, I.; Voss, M.: PATTERNS OF NITROGEN ISOTOPE RATIOS AND FLUXES IN ATMOSPHERIC NITROGEN DEPOSITION TO THE WESTERN BALTIMORE SEA (ID: 27413)
- 85 **Sookhdeo, C.**; Bernhardt, P. W.; Mendonca, I. R.; Mulholland, M. R.; Najjar, R. G.; Sohst, B. M.; Schwarzschild, A.; Widner, B.; Sedwick, P. N.: ESTIMATING WET DEPOSITION OF NUTRIENTS TO SEASONALLY OLIGOTROPHIC WATERS OFF THE U.S. EAST COAST USING A COASTAL SAMPLING STATION (ID: 27408)

017 FROM "CATCHING THE ALGAE" TO THE ROLE OF ZOOPLANKTON IN BIOGEOCHEMICAL CYCLES: HOMAGE TO MIQUEL ALCARAZ

- Chair(s): Enric Saiz, enric@icm.csic.es
Albert Calbet, acalbet@icm.csic.es
- Location: Poster and Exhibit Area (Floor 1)

- 97 **Farber Lorda, J.**; Levin, L.; Gonzalez, J.; Romero Vargas Márquez, I.: DIFFERENCES IN ISOTOPIC SIGNALS BETWEEN SOUTHERN CALIFORNIA CURRENT AND EASTERN TROPICAL PACIFIC EUPHAUSIID SPECIES. (ID: 25915)
- 98 **Martínez, M. H.**; Rodríguez-Graña, L.; Santos, L.; Denicola, A.; Calliari, D. L.: EFFECT OF WATER QUALITY ON OXIDATIVE DAMAGE AND VITAL RATES IN COPEPODS (ID: 26383)
- 99 **Calbet, A.**; Agersted, M. D.; Enghoff, S.; Kaartvedt, S.; Møller, E. F.; Paulsen, M. L.; Solberg, I.; Tang, K. W.; Tønnesson, K.; Nielsen, T. G.: ARE THE PLANKTON WITHIN THE MIXED LAYER HOMOGENEOUSLY DISTRIBUTED? IMPLICATIONS FOR BLOOM-FORMING THEORIES (ID: 25596)
- 100 **Saiz, E.**; Calbet, A.; Griffell, K.; Isari, S.; Solé, M.; Peters, J.; Alcaraz, M.: ECOPHYSIOLOGICAL CHANGES THROUGH SENESCENCE IN THE MARINE CALANOID COPEPOD *ACARTIA GRANI* (ID: 25791)
- 101 **Carlotti, F.**; Jouandet, M.; N0waczyk, A.: MESOZOOPLANKTON STRUCTURE AND FUNCTIONING DURING THE ONSET OF THE KERGUELEN BLOOM DURING KEOPS2 SURVEY (15 OCT – 20 NOV 2011) (ID: 27716)
- 132 **Martínez Pérez, C.**; Dekaezemacker, J.; Mohr, W.; Löscher, C. R.; Littman, S.; Lavik, G.; Kuypers, M. M.: RELATIVE CONTRIBUTION OF TWO ABUNDANT DIAZOTROPHS TO TOTAL N₂ FIXATION – A COMPARATIVE APPROACH USING NANOSIMS (ID: 26662)
- 133 **Matsumoto, K.**: THE ONSET MECHANISMS OF PHYTOPLANKTON BLOOM IN SUBARCTIC AND SUBTROPICAL GYRES IN THE NORTHWESTERN PACIFIC OCEAN (ID: 25975)
- 134 **Bernatowicz, P.**; Polanska, M.; Bebas, P.: THE EFFECT OF LIGHT CONDITIONS ON THE CLOCK PROTEIN PERIOD EXPRESSION IN THE BRAIN OF DAPHNIA PULEX (ID: 26200)
- 135 **Kitajima, S.**; Morimoto, H.; Uchikawa, K.; Goto, T.; Iguchi, N.: SELECTIVE FEEDING ON POECILOSTOMATOID COPEPODS OF ADULT JAPANESE ANCHOVIES DUE TO *OIKOPLEURA* (ID: 26561)
- 136 **Lorenz, P.**; Trommer, G.; Stibor, H.: INCREASED N-INPUT ALTERS ZOOPLANKTON DYNAMICS IN P-LIMITED LAKES (ID: 25609)

020 INTEGRATED TEMPORAL PERSPECTIVES ON CLIMATE EFFECTS ON LAKE ECOSYSTEMS

Chair(s): Jasmine E. Saros, jasmine.saros@maine.edu
Daniel R. Engstrom, dre@umn.edu

Location: Poster and Exhibit Area (Floor 1)

- 110 **Benito, X.**; Cearreta, A.; Trobajo, R.; Ibáñez, C.: NATURAL AND ANTHROPOGENIC CHANGES IN A MEDITERRANEAN DELTA AS RECONSTRUCTED FROM BENTHIC FORAMINIFERAL ASSEMBLAGES (ID: 26526)
- 111 **Trapote, M. C.**; López, P.; Gomà, J.; Safont, E.; Cañellas-Boltà, N.; Buchaca, T.; Pérez, N.; Sigro, X.; Rull, V.; Vegas-Vilarrubia, T.: LIMNOLOGICAL CYCLE OF A MEROMICTIC LAKE (MONTCORTÈS, PYRENEES) AND ITS RELATIONSHIP TO SEDIMENT VARVE FORMATION. (ID: 25858)
- 112 **Zimmermann, T. K.**; Strock, K. E.; Knoll, L.; Williamson, C. E.: RECONSTRUCTING THE EFFECTS OF MULTIPLE STRESSORS ON ALGAL COMMUNITIES IN LAKES WITH DIFFERING CONCENTRATIONS OF DISSOLVED ORGANIC CARBON (ID: 27468)

024 SMALL BUGS WITH A BIG IMPACT: LINKING PLANKTON ECOLOGY WITH ECOSYSTEM PROCESSES

Chair(s): Susanne Menden-Deuer, smenden@gso.uri.edu
Thomas Kiorboe, tk@aqua.dtu.dk

Location: Poster and Exhibit Area (Floor 1)

- 129 **Sabia, L.**; Uttieri, M.; Zambianchi, E.: WANDERING DOES NOT RESEMBLE CASUAL - THE CORRELATION OF ZOOPLANKTON SWIMMING MOTION (ID: 27459)
- 130 **Simoncelli, S.**; Harvey, C.; Howell, S.; Thackeray, S. J.; **Wain, D. J.**: OBSERVATIONS OF TURBULENCE DURING A ZOOPLANKTON MIGRATION IN A SMALL LAKE (ID: 27262)
- 131 **Santi, I.**; Tsiola, A.; Kanelopoulou, M.; Dafnomili, E.; Zivanovic, E.; Dimitriou, P. D.; Papageorgiou, N.; Pitta, P.; Karakassis, I.: BENTHIC-PELAGIC COUPLING: A PICO-PLANKTONIC POINT OF VIEW (ID: 27177)

- 132 **Martínez Pérez, C.**; Dekaezemacker, J.; Mohr, W.; Löscher, C. R.; Littman, S.; Lavik, G.; Kuypers, M. M.: RELATIVE CONTRIBUTION OF TWO ABUNDANT DIAZOTROPHS TO TOTAL N₂ FIXATION – A COMPARATIVE APPROACH USING NANOSIMS (ID: 26662)
- 133 **Matsumoto, K.**: THE ONSET MECHANISMS OF PHYTOPLANKTON BLOOM IN SUBARCTIC AND SUBTROPICAL GYRES IN THE NORTHWESTERN PACIFIC OCEAN (ID: 25975)
- 134 **Bernatowicz, P.**; Polanska, M.; Bebas, P.: THE EFFECT OF LIGHT CONDITIONS ON THE CLOCK PROTEIN PERIOD EXPRESSION IN THE BRAIN OF DAPHNIA PULEX (ID: 26200)
- 135 **Kitajima, S.**; Morimoto, H.; Uchikawa, K.; Goto, T.; Iguchi, N.: SELECTIVE FEEDING ON POECILOSTOMATOID COPEPODS OF ADULT JAPANESE ANCHOVIES DUE TO *OIKOPLEURA* (ID: 26561)
- 136 **Lorenz, P.**; Trommer, G.; Stibor, H.: INCREASED N-INPUT ALTERS ZOOPLANKTON DYNAMICS IN P-LIMITED LAKES (ID: 25609)
- 032 RESPONSES OF MARINE ORGANISMS TO OCEAN ACIDIFICATION, INTERACTIONS WITH OTHER STRESSORS AND BIOGEOCHEMISTRY**
- Chair(s): Carles Pelejero, carles.pelejero@icrea.cat
Heidi Burdett, hb57@st-andrews.ac.uk
- Location: Poster and Exhibit Area (Floor 1)
- 155 **Cross, E. L.**; Peck, L. S.; Harper, E. M.: OCEAN ACIDIFICATION DOES NOT IMPACT SHELL GROWTH OR REPAIR OF THE ANTARCTIC BRACHIOPOD *LIOTHYRELLA UVA* (BRODERIP, 1833) (ID: 27138)
- 156 **Martínez Fernández, A.**; Paytan, A.; Bernhard, J. M.; Hernández Terrones, L.; Rebollo Vieyra, M.: RESPONSE OF BENTHIC FORAMINIFERA TO OCEAN ACIDIFICATION DATA FROM A NATURAL GRADIENT (ID: 27686)
- 157 **Waege, J.**; Rotchell, J. M.; Hardege, J. D.; Roggatz, C. C.: MOLECULAR LEVEL EFFECTS OF LOW PH ON *PLATYNEREIS DUMERILII* (ID: 27551)
- 158 **Papageorgiou, N.**; Philippa, I.; Giaglara, E.; Moraitis, M.; Santi, I.; Tsikopoulou, I.; Dimitriou, P. D.; Pitta, P.: EFFECTS OF OCEAN ACIDIFICATION AND HYPOXIA TO THE FUNCTIONING OF DIFFERENT SEDIMENT TYPES; A BENTHIC MICROCOOSM APPROACH (ID: 26826)
- 159 **Ramesh, K.**; Himmerkus, N.; Bleich, M.; Melzner, F.: RESPONSES OF OYSTER HEMOCYTES AND THEIR CALCIUM BEARING VESICLES TO OCEAN ACIDIFICATION (ID: 26876)
- 160 **Grossmann, M. M.**; Gallager, S. M.; Mitarai, S.: EFFECT OF TROPICAL CYCLONES ON NEAR-BOTTOM MESOPLANKTON COMMUNITIES ABOVE A CORAL REEF. (ID: 27644)
- 161 **Pelejero, C.**; Movilla, J.; Calvo, E.; Serrano, E.; López-Sanz, A.; Coma, R.: RESPONSE OF THE TEMPERATE MEDITERRANEAN CORALS *ASTROIDES CALYCARIS* AND *LEPTOPSAMMIA PRUVOTI* TO WARMING AND ACIDIFICATION (ID: 26004)
- 162 **Jimenez Ramos, R.**; Egea, L. G.; Vergara, J. J.; Brun, F. G.: CLIMATE CHANGE AFFECTS LEAF PALatability IN THE SEAGRASS *CYMOODOCEA NODOSA* (ID: 26562)

TUESDAY

034 OCCURRENCE, IMPACTS AND MANAGEMENT OF CYANOBACTERIAL BLOOMS

- Chair(s): Nico Salmaso, nico.salmaso@fmach.it
 Antonio Quesada, antonio.quesada@uam.es
 Myriam Bormans, myriam.bormans@univ-rennes1.fr
- Location: Poster and Exhibit Area (Floor 1)
- 165 **Capelli, C.**; Shams, S.; Cerasino, L.; Cavalieri, D.; Salmaso, N.: TOXIC CYANOBACTERIA IN THE DEEP LAKES SOUTH OF THE ALPS: A MOLECULAR ASSESSMENT ON CYANOTOXIN PRODUCING GENOTYPES (ID: 26539)
- 166 **Sabart, M.**; Lesobre, J.; Legrand, B.; Crenn, K.; Sabatier, P.; Colombet, J.; Latour, D.: FIRST EVIDENCE OF ANATOXIN-A GENES IN SEVERAL FRESHWATER LAKES IN FRANCE: SPATIO-TEMPORAL DIVERSITY AND PHYLOGENETIC AFFILIATION OF THE SEQUENCES (ID: 26621)
- 167 **Visser, P. M.**; den Haan, J.; Brocke, H.; de Baat, M.; Mes, D.; Verhoef, S. H.; van der Schoot, R.; Leao, P.; Gerssen, A.; Muyzer, G.: BENTHIC CYANOBACTERIA ON A CARIBBEAN CORAL REEF (ID: 27088)
- 168 **Lage, S.**; Annadotter, H.; Rasmussen, U.; Rydberg, S.: BIOTRANSFER OF BMAA IN FINJASJÖN - A SWEDISH EUTROPHICATED FRESHWATER LAKE (ID: 25834)
- 169 **Tonietto, A. E.**; Lombardi, A. T.: POTENCIOMETRIC DETERMINATION OF THERMODYNAMIC STABILITY CONSTANTS FOR COPPER COMPLEXES WITH CYLINDROSPERMOPSIS RACIBORSKII EXUDATES (ID: 25513)
- 170 **Brocke, H. J.**; Polerecky, L.; de Beer, D.; Weber, M.; Claudet, J.; Nugues, M. M.: ORGANIC MATTER DEGRADATION DRIVES BENTHIC CYANOBACTERIAL MAT ABUNDANCE ON CORAL REEFS (ID: 25427)
- 171 **Rangel, L. M.**; Ger, A. K.; Silva, L. H.; Soares, M. C.; Faassen, E. J.; Lürling, M.: COPEPOD SIZE-SELECTIVITY ON THE CYANOBACTERIUM CYLINDROSPERMOPSIS RACIBORSKII IS TOXICITY DEPENDENT (ID: 27647)
- 172 **Panosso, R.**; Lurling, M.: EFFECTS OF DIFFERENT CYLINDROSPERMOPSIS RACIBORSKII STRAINS ON THE SURVIVAL AND GROWTH OF DAPHNIA MAGNA (ID: 27068)

037 THE MOLECULAR ECOLOGY OF METAL-MICROBE INTERACTIONS IN THE OCEAN ENVIRONMENT

- Chair(s): Robert Strzepek, robert.strzepek@anu.edu.au
 Maria Maldonado, mmaldona@eos.ubc.ca
 Yeala Shaked, yeala.shaked@mail.huji.ac.il
- Location: Poster and Exhibit Area (Floor 1)
- 187 **Polyviou, D.**; Hitchcock, A.; Moore, C. M.; Bibby, T. S.: IRON UPTAKE MECHANISMS IN THE GLOBALLY IMPORTANT CYANOBACTERIA *TRICHODESMIUM ERYTHRHAEUM* IMS 101 (ID: 27104)
- 188 **Snow, J. T.**; Polyviou, D.; Skipp, P. J.; Chrisman, N.; Bibby, T. S.; Moore, C. M.: QUANTITATIVE PROTEOME RESPONSES TO IRON STRESS IN THE GLOBALLY IMPORTANT MARINE DIAZOTROPH *TRICHODESMIUM*. (ID: 26803)
- 189 **Chuang, C. Y.**; Santschi, P. H.: BINDING OF PARTICLE-REACTIVE RADIONUCLIDES (234TH, 233PA, 210PB, AND 7BE) IN THE OCEAN BY BIOPOLYMERS ASSOCIATED WITH BIOMINERALS (SILICA, CALCITE) (ID: 26215)

- 190 **Ojeda, J. J.**; Romero-Gonzalez, M. E.; Banwart, S. A.: INVESTIGATING THE CHEMICAL INTERFACE BETWEEN BACTERIAL CELLS AND MINERAL SURFACES: HYDROGEN-BONDING AND INNER-SPHERE COMPLEXES (ID: 25639)

- 191 **Strzepek, R. F.**; Ellwood, M.; Boyd, P. W.: WHY DO LARGE SOUTHERN OCEAN DIATOMS HAVE SUCH LOW IRON REQUIREMENTS? IMPLICATIONS FOR THEIR PHOTOSYNTHETIC ARCHITECTURE AND PHYSIOLOGY (ID: 26821)

039 BEYOND THE MEAN: INTEGRATING THE EFFECT OF VARIANCE IN AQUATIC ECOLOGY

- Chair(s): Alexander Wacker, alexander.wacker@uni-potsdam.de
 Apostolos-Manuel Koussoroplis, apostolos.koussoroplis@uni-potsdam.de

Location: Poster and Exhibit Area (Floor 1)

- 194 **Voss, K. A.**; Bernhardt, E. S.: TURNING A SNAPSHOT INTO A MOTION PICTURE: PATTERNS IN AQUATIC INSECT PRODUCTION ALONG A GRADIENT OF ALKALINE MINE DRAINAGE (ID: 27108)

- 195 **Plass-Johnson, J. G.**; Teichberg, M. C.; Ferse, S. C.: VARIABILITY IN CORAL REEF-FISH COMMUNITY FUNCTION (ID: 26706)

044 APPROACHES TO REGIONAL AND GLOBAL LAKE MONITORING

- Chair(s): João Antonio Lorenzetti, loren@dsr.inpe.br
 Paul Hanson, pchanson@wisc.edu
 Eleanor Jennings, eleanor.jennings@dkit.ie
 Andrew Tyler, a.n.tyler@stir.ac.uk
 Kathleen Weathers, weathersk@caryinstitute.org
 José Luiz Stech, stech@dsr.inpe.br
 José Galizia Tundisi, tundisi@iie.com.br
 Enner Herenio de Alcántara, enner@fct.unesp.br
 Igor Ogashawara, igorogas@umail.iu.edu
 Tiit Kutser, tiit.kutser@sea.ee

Location: Poster and Exhibit Area (Floor 1)

- 215 **Zafra, E.**; Sánchez, A. M.; Torrecilla, E.; Hoyer, A. B.; Rueda, J.; Piera, J.: DYNAMIC HYPERSPECTRAL SIMULATOR FOR AQUATIC ENVIRONMENTS (ID: 26982)

- 216 **Sánchez, A. M.**; Zafra, E.; Piera, J.: CHARACTERIZATION OF MARINE PARTICLES BASED ON MIE-LORENTZ AND T-MATRIX CODES AND A GENETIC ALGORITHM (ID: 25616)

- 217 **Ogashawara, I.**; Stech, J. L.; Tundisi, J. G.: RETRIEVING PHYTOPLANKTON ABSORPTION COEFFICIENT IN CDOM DOMINATED WATERS (ID: 26312)

- 218 **Jones, B. M.**; Arp, C. D.; Grosse, G.; Wooller, M. J.; Whitman, M. S.; Gaglioti, B. V.; Lenz, J.; Yu, Z.: DEVELOPMENT OF AN ARCTIC LAKE OBSERVATORY AT TESHEKPUK LAKE (ID: 27302)

- 219 **Stech, J. L.**; Curtarelli, M. P.; Ogashawara, I.: SPATIAL AND TEMPORAL VARIATIONS OF TROPHIC STATE IN A TROPICAL RESERVOIR AND ITS RELATION WITH LAND USE LAND COVER (ID: 27204)

- 220 **Curtarelli, M. P.**; Ogashawara, I.; Souza, A. F.; Stech, J. L.: APPLICATION OF REMOTE SENSING DATA TO MONITOR DRINKING WATER SUPPLY IN LARGE CITIES: THE SÃO PAULO METROPOLITAN REGION STUDY CASE (ID: 27061)

045 ADDRESSING REGIONAL OR GLOBAL QUESTIONS ABOUT TROPHIC ECOLOGY USING LIPIDS OR STABLE ISOTOPE RATIOS

- Chair(s): Nicole B. Richoux, n.richoux@ru.ac.za
Bailey McMeans, bcmcmeans@gmail.com
Tarik Meziane, meziane@mnhn.fr
- Location: Poster and Exhibit Area (Floor 1)
- 221 **Vilas, C.**; Gonzalez-Ortegon, E.; Rubio, E.; Walton, M. E.; Baldó, F.; Drake, P.; Van Bergeijk, S.; Le Vay, L.; Cañavate, J. P.: ECOLOGICAL DIFFERENTIATION AMONG MYSIDS STRUCTURES FOOD WEB AND SUPPORTS NURSERY FUNCTION OF GUADALQUIVIR ESTUARY. (ID: 26425)
- 222 **Trochíne, C.**; Díaz Villanueva, V.; Bastidas Navarro, M.; Balseiro, E.; Modenutti, B.: RELEVANCE OF AUTOCHTHONOUS AND ALLOCHTHONOUS CARBON SOURCES TO THE COPEPOD *BOECKELLA GRACILIPES* IN SHALLOW PATAGONIAN LAKES (ID: 26931)
- 223 **Maruo, C.**; Fujibayashi, M.; Sakamaki, T.; Aikawa, Y.; Nishimura, O.: FOOD RESOURCE COMPETITION BETWEEN BIVALVE SPECIES: AN ANALYSIS BY USING FATTY ACIDS AND FATTY-ACID-SPECIFIC CARBON STABLE ISOTOPE (ID: 26551)
- 224 **Kankaala, P.**; Galloway, A. W.; Hiltunen, M.; Jelkänen, E.; Strandberg, U.; Taipale, S. J.: DETECTING ZOOPLANKTON DIET SOURCES IN LARGE BOREAL LAKES WITH STABLE CARBON ISOTOPE RATIOS AND FATTY ACID BIOMARKERS (ID: 25522)
- 225 **Fujibayashi, M.**; Maruo, C.; Aikawa, Y.; Nishimura, O.: UTILIZATION OF ALLOCHTHONOUS ORGANIC MATTER AS FOOD SOURCES BY BRACKISH BIVALVES: ANALYSIS OF CARBON STABLE ISOTOPE RATIO OF ESSENTIAL FATTY ACIDS (ID: 26567)

049 FRESHWATER ECOSYSTEMS AND THE CARBON CYCLE: EXPLORING DIFFERENCES ACROSS CLIMATIC REGIONS

- Chair(s): Fabio Roland, fabio.roland@ujf.edu.br
Gwenaël Abril, g.abril@epoc.u-bordeaux1.fr
Peter Raymond, peter.raymond@yale.edu
- Location: Poster and Exhibit Area (Floor 1)
- 231 **Freixa, A.**; Casellas, M.; Corcoll, N.; Sabater, S.; Acuña, V.; Romaní, A. M.: THE IMPACT OF WARMER NIGHT-TIME TEMPERATURES ON DIEL FLUCTUATIONS OF SEDIMENT MICROBIAL ACTIVITY (ID: 27094)
- 232 **von Schiller, D.**; Gómez-Gener, L.; Acuña, V.; Casas-Ruiz, J. P.; Koschorreck, M.; Marcé, R.; Obrador, B.; Muñoz, I.; Sabater, S.: WHEN WATER VANISHES: CARBON DIOXIDE EMISSIONS FROM DRY WATERCOURSES (ID: 25994)
- 233 **Lopez, P.**; Casas-Ruiz, J.; Gomez, L.; Carbajal, V.; Marce, R.; Obrador, B.; Sabater, S.; Muñoz, I.: DYNAMICS OF PARTICULATE MATTER IN LENTIC SECTIONS OF TWO MEDITERRANEAN RIVERS. (ID: 26263)
- 234 **Rober, A. R.**: NUTRIENTS LIMIT THE INFLUENCE OF WARMER TEMPERATURES ON ALGAE AND HETEROTROPHIC BACTERIA IN A BOREAL PEATLAND (ID: 25441)
- 235 **Raposeiro, P. M.**; Gonçalves, V.; Costa, A. C.; Ferreira, V.: LEAF LITTER DECOMPOSITION IN ATLANTIC ISLANDS DEPENDS ON LITTER QUALITY AND ENVIRONMENTAL CONDITIONS AND IS MAINLY DRIVEN BY MICROBES' (ID: 26050)

051 BIOGEOCHEMICAL INTERACTIONS BETWEEN RIPARIAN AND STREAM ECOSYSTEMS UNDER ENVIRONMENTAL CHANGE

- Chair(s): Susana Bernal, sbernal@ceab.csic.es
Eugènia Martí, eugenia@ceab.csic.es
Stefan Krause, s.krause@bham.ac.uk
Francesc Sabater, fsabater@ub.edu
Esperanca Gacia, gacia@ceab.csic.es
- Location: Poster and Exhibit Area (Floor 1)
- 247 **Bastias, E.**; Ribot, M.; Sabater, F.; Martí, E.: THE EFFECT OF VELOCITY ON LEAF LITTER TRANSPORT AND DECOMPOSITION IN STREAMS (ID: 27216)

053 BIODIVERSITY AND ECOSYSTEM SERVICES IN FRESHWATER ECOSYSTEMS, A SOUTH NORTH PERSPECTIVE

- Chair(s): Isabelle Durance, stoidp@cardiff.ac.uk
Steve Ormerod, ormerod@cardiff.ac.uk
- Location: Poster and Exhibit Area (Floor 1)
- 249 **Viana, D. S.**; Santamaría, L.; Figuerola, J.: DIVERSITY DISTRIBUTION OF AQUATIC LONG-DISTANCE DISPERSERS (ID: 26816)

059 CHEMICAL FLUXES ACROSS THE SEDIMENT-WATER INTERFACE: PROCESSES, DISTURBANCES AND TECHNIQUES

- Chair(s): Gary Fones, gary.fones@port.ac.uk
Kai Ziervogel, ziervoge@email.unc.edu
- Location: Poster and Exhibit Area (Floor 1)
- 261 **Guanghuan Cheng, G.**; Catalán, N.; Peter, S.; **Tranvik, L. J.**: IS THERE A "RUSTY SINK" FOR ORGANIC CARBON IN LAKE SEDIMENTS? (ID: 27131)
- 262 **Radu, D. D.**; Duval, T. P.: ELEVATED PHOSPHATE RELEASE AT THE WATER TABLE – SOIL SURFACE INTERFACE IN A RESTORED WETLAND (ID: 27706)
- 263 **Lipka, M.**; Wegwerth, A.; Dellwig, O.; Winde, V.; Al-Raei, A. M.; Böttcher, M. E.: ELEMENT TRANSFORMATION RATES AND FLUXES ACROSS THE SEDIMENT-WATER INTERFACE IN A TEMPERATE COASTAL SEA, THE BALTIC SEA (ID: 27577)
- 264 **Ann, V.**; Freixa, A.; Butturini, A.; Romaní, A. M.: HOW DO SEDIMENT PHYSICAL CHARACTERISTICS AFFECT MICROBIAL COLONIZATION IN A MEDITERRANEAN RIVER? (ID: 26723)

062 INTEGRATED MODELLING OF LAKES IN THE CLIMATE SYSTEM

- Chair(s): Klaus D. Joehnk, klaus.joehnk@csiro.au
Wim Thiery, Wim.Thiery@ees.kuleuven.be
Victor Stepanenko, stepanen@srcc.msu.ru
Georgiy Kirillin, kirillin@igb-berlin.de
Stephane Goyette, Stephane.Goyette@unige.ch
Carsten Lemmen, carsten.lemmen@hzg.de
Wolf Mooij, w.mooij@nioo.knaw.nl
- Location: Poster and Exhibit Area (Floor 1)
- 271 **Thiery, W.**; Davin, E.; Panitz, H.; Demuzere, M.; Lhermitte, S.; van Lipzig, N.: MODELING THE INFLUENCE OF THE AFRICAN GREAT LAKES ON THE REGIONAL CLIMATE (ID: 26100)
- 272 **Goyette, S.**; Perroud, M.: ON A SINGLE-COLUMN ATMOSPHERIC MODEL FRAMEWORK TO STUDY LAKE PROCESSES: THE CASE OF DEEP LAKE GENEVA, SWITZERLAND (ID: 25717)

TUESDAY

065 BIOGEOCHEMISTRY, PHYSICS, AND SOCIOECONOMICS OF GROUNDWATER-SURFACE WATER INTERACTIONS

- Chair(s): Hannelore Waska, hannelore.waska@uni-oldenburg.de
 Natasha Dimova, ntdimova@as.ua.edu
 Isaac Santos, Isaac.Santos@scu.edu.au
 Nils Moosdorf, nils.moosdorf@zmt-bremen.de
- Location: Poster and Exhibit Area (Floor 1)
- 273 **Hajati, M.**; Engesaard , P.: LAKE BEDS AS HYDRAULIC BARRIERS TO GROUNDWATER EXCHANGE: A MULTI-TRACER STUDY USING STABLE ISOTOPES AND TEMPERATURE. (ID: 26256)
- 274 **Moosdorf, N.**; Stieglitz, T.; Waska, H.; Dürr, H. H.: A REVIEW OF SUBMARINE GROUNDWATER DISCHARGE FROM TROPICAL ISLANDS (ID: 25490)
- 275 **Waska, H.**; Koschinsky, A.; Brumsack, H.; Simon, H.; Dittmar, T.: ORGANIC ASSOCIATION OF DISSOLVED IRON AND COPPER IN THE SUBTERRANEAN ESTUARIES OF A BARRIER ISLAND IN THE GERMAN NORTH SEA (ID: 26773)
- 276 **Cho, H. M.**; Kim, G.: BEHAVIOR OF DISSOLVED SILICATE IN A SUBTERRANEAN ESTUARY (ID: 26638)
- 277 **Lecher, A. L.**; Paytan, A.; Dimova, N.; Tulaczyk, S.: SUBMARINE GROUNDWATER DISCHARGE IN THE GULF OF ALASKA: A SOURCE OF NUTRIENTS TO COASTAL ECOSYSTEMS (ID: 27662)
- 279 **Dacey, J. J.**; Stalker , J. C.; Swart, P. K.: TRACERS FOR GROUNDWATER-SURFACE WATER INTERACTIONS ON THE ST. JOHNS RIVER, FLORIDA, U.S.A. (ID: 27571)

067 CLIMATE CHANGE IN THE BALTIC SEA: IMPACTS OF WARMING, DESALINATION, EUTROPHICATION AND ACIDIFICATION

- Chair(s): Frank Melzner, fmelzner@geomar.de
 Sam Dupont, sam.dupont@bioenv.gu.se
 Thorsten Reusch, treusch@geomar.de
- Location: Poster and Exhibit Area (Floor 1)
- 285 **Matthiessen, B.**; Graiff, A.; Werner, F. J.: TEMPERATURE THRESHOLD EXPLAINS DISRUPTION OF FUCUS- SUSTAINING TOP-DOWN CONTROL (ID: 25497)
- 286 **Sanders, T.**; Melzner, F.: THE FUTURE OF THE BALTIC SEA: IMPLICATIONS FOR MUSSEL POPULATIONS AND DISTRIBUTIONS DERIVED FROM PHYSIOLOGICAL AND GROWTH DATA OF A HYBRID POPULATION. (ID: 26882)
- 287 **Herzog, S. D.**; Kritzberg, E.; Conley , D.; Persson, P.: ARE RIVERINE INPUTS ENHANCING IRON CONCENTRATIONS IN THE BALTIC SEA? (ID: 26968)

073 COASTAL OCEAN BIOLOGICAL PATTERNS AND PROCESSES AT REGIONAL SCALES

- Chair(s): G. Carleton Ray, cr@virginia.edu
 Jerry McCormick-Ray, mgm9c@virginia.edu
- Location: Poster and Exhibit Area (Floor 1)
- 307 **Bustamante, P.**; Dessier, A.; Dupuy, C.; Trancart, T.; Audras, A.; Gérard, C.: METAZOAN PARASITES IN SARDINA PILCHARDUS AND ENGRAULIS ENCRASICOLUS (CLUPEIDAE): INDICATORS OF FEEDING ECOLOGY AND FREE-LIVING BIODIVERSITY IN THE BAY OF BISCAY (ID: 26580)

- 308 **Smoot, C. A.**; Hopcroft, R. R.: COMPOSITION, DIVERSITY AND VERTICAL STRUCTURE OF THE ZOOPLANKTON COMMUNITY IN THE BEAUFORT SEA (ID: 26422)
- 309 **Zaborska, A.**; Legezynska, J.; Włodarska-Kowalcuk, M.: THE SOURCES AND QUANTITIES OF ORGANIC CARBON – A FOOD FOR BENTHIC COMMUNITIES IN THE TWO ARCTIC FIORDS (ID: 26764)
- 310 **Moreira, C.**; Xavier, R.; Lima, F. P.: TEMPORAL DYNAMICS OF THE HEAT SHOCK PROTEIN RESPONSE IN AN INTERTIDAL GASTROPOD (*PATELLA VULGATA*) (ID: 27421)
- 311 **Voss, M.**; Bartl, I.; Frey, C.; Hellemann, D.; Hietanen, S.; Liskow, I.; Thoms, F.; Dippner, J. W.: REGIME SHIFTS AND CLIMATE CHANGE IMPACT ON NUTRIENT PROCESSING IN COASTAL SYSTEMS OF THE SOUTHERN BALTIC SEA (ID: 25474)
- 312 **Froján, M.**; Arbones, B.; Zúñiga, D.; Teixeira, I. G.; Hernández-Ruiz, M.; Teira, E.; Figueiras, F. G.; Castro, C. G.: SHIFTS IN THE MICROBIAL PLANKTON COMMUNITY AND METABOLIC BALANCE IN THE RÍA DE VIGO (NW IBERIAN COASTAL UPWELLING SYSTEM) (ID: 26685)
- 313 **Erikson, K.**; Blanco-Bercial, L.; Richardson, D.; Hare, J.; Bucklin, A.: UNDERSTANDING THE IMPORTANCE OF CRYPTIC SPECIES DIVERSITY: TIME-SERIES ANALYSIS OF PSEUDOCALANUS spp. (COPEPODA, CALANOIDA) ON THE NW ATLANTIC SHELF (ID: 26811)
- 314 **Hidalgo-Robatto, B. M.**; González, J.; Herrera, J. L.; Martínez-Castrillón, D.; Bernal, L. M.; Serret, P.: DAILY VARIATION OF PLANKTON COMMUNITY STRUCTURE AND METABOLISM DURING AN UPWELLING EPISODE IN THE RÍA DE VIGO, NW SPAIN (ID: 26330)
- 315 **Valiñas, M. S.**; Helbling, E. W.: UV-ABSORBING COMPOUNDS ACQUIRED THROUGH THE DIET ARE NOT ENOUGH FOR A MARINE MESOHERBIVORE TO COPE WITH SOLAR ULTRAVIOLET RADIATION (ID: 26321)
- 076 NOVEL MICROBIAL METABOLISMS AND INTERACTIONS IN AQUATIC SYSTEMS**
- Chair(s): Gerhard Herndl, gerhard.herndl@univie.ac.at
 Monica V. Orellana, morellana@systemsbiology.org
 Josep M. Gasol, pegasol@icm.csic.es
 Marcelino Suzuki, suzuki@obs-banyuls.fr
 Christian Jeanton, jeanthon@sb-roscoff.fr
- Location: Poster and Exhibit Area (Floor 1 and Floor 2)
- 325 **Amano-Sato, C.**; Sintes, E.; Reinthaler, T.; Varela, M.; Utsumi, M.; Herndl, G.: LOWER PROKARYOTIC LEUCINE INCORPORATION RATES UNDER *IN SITU* PRESSURE THAN UNDER DECOMRESSED CONDITIONS IN THE DEEP NORTH ATLANTIC (ID: 25629)
- 326 **Bibiloni, J. I.**; Seymour, J. R.; Brown, M. B.: BIOGEOGRAPHY OF AEROBIC ANOXYGENIC PHOTOTROPHIC BACTERIA ALONG THE EAST COAST OF AUSTRALIA (ID: 25966)
- 476 **Ranson, H. J.**; Poulsen-Ellestad, K.; Mincer, T. J.: PRODUCTION OF SIALIC ACIDS BY DIATOMS AND THEIR ASSOCIATED BACTERIA: IMPLICATIONS FOR DIATOM-BACTERIA INTERACTIONS. (ID: 27169)

081 BIVALVES AS NUTRIENT TRANSFORMERS: UNDERSTANDING THE EFFECTS OF BIVALVES ON BIOGEOCHEMICAL PROCESSES

Chair(s): Ashley Smyth, arsmyth@vims.edu
 Annie Murphy, annie@vims.edu
 Iris Anderson, iris@vims.edu
 Bongkeun Song, songb@vims.edu

Location: Poster and Exhibit Area (Floor 1)

- 331 **Ruiz Albizuri, R.**; Johst, K.; Weitere, M.; Frank, K.: EFFECTS OF WARMING ON GRAZER-CONTROLLED EUTROPHICATION IN RIVERS (ID: 26588)

084 INTERACTIVE EFFECTS OF GLOBAL CHANGE ENVIRONMENTAL DRIVERS ON PHYTOPLANKTON AND BACTERIOPLANKTON IN COASTAL WATERS

Chair(s): Patrick Neale, nealep@si.edu
 Cristina Sobrino, sobrinoc@uvigo.es
 Irene Schloss, ireschloss@gmail.com

Location: Poster and Exhibit Area (Floor 1)

- 343 **Carrillo, P.**; Herrera, G.; Durán, C.; Villar-Argaiz, M.; Mercado, J. M.; Segovia, M.; Korbee, N.; Figueroa, F. L.; Medina-Sánchez, J. M.: RESPONSES OF COASTAL PHYTOPLANKTON COMMUNITY TO COMBINED EFFECTS OF UVR AND P-PULSES IN THE WESTERN MEDITERRANEAN SEA: POTENTIAL ACCLIMATION MECHANISMS (ID: 26361)
- 345 El-Swais, H.; Dunn, K. A.; Bielawski, J. P.; Li, W. K.; **Walsh, D. A.**; Walsh, D.: TEMPORAL DYNAMICS OF COASTAL OCEAN BACTERIOPLANKTON REVEALED THROUGH MOLECULAR ANALYSIS OF FORMALIN-FIXED ARCHIVAL SEAWATER SAMPLES. (ID: 27084)
- 346 **Alves Soares, A. R.**; Berggren, M.: IMPORTANCE OF CARBON AS LIMITING NUTRIENT FOR BACTERIOPLANKTON IN A BOREAL SUB-ARCTIC COASTAL SYSTEM (ID: 26669)
- 347 **Ward, J. E.**; Haynes, V.; Galloway, T. S.: PHOTOTOXIC EFFECTS OF TITANIA NANOPARTICLES ON ESTUARINE BACTERIAL COMMUNITIES UNDER ENVIRONMENTALLY-RELEVANT LIGHT REGIMES (ID: 26450)
- 348 **Krug, L. A.**; Barbosa, A. B.; Platt, T.; Sathyendranath, S.: OCEANIC AND COASTAL BIOGEOCHEMICAL PROVINCES OFF SOUTH WEST IBERIAN PENINSULA (ID: 26726)

085 CURRENT ADVANCES IN THE INTEGRATION OF (SEMI)AUTOMATED APPROACHES FOR MEASURING PHYTOPLANKTON DYNAMICS, FROM FRESHWATER TO MARINE SYSTEMS

Chair(s): Luis Felipe Artigas, Felipe.Artigas@univ-littoral.fr
 Veronique Creach, veronique.creach@cefas.co.uk
 Jacco Kromkamp, Jacco.Kromkamp@nioz.n
 Francesco Pomati, Francesco.Pomati@eawag.ch
 Alain Lefebvre, Alain.Lefebvre@ifremer.fr
 Melilotus Thyssen, melilotus.thyssen@mio.osupytheas.fr

Location: Poster and Exhibit Area (Floor 1)

- 349 **Gabriel, A.**; Limoges, A.; de Vernal, A.; Gélinas, Y.: ANALYSIS OF BIOTOXINS IN SEDIMENTS OF THE GULF OF MEXICO: EVALUATION OF SOLID PHASE MICRO EXTRACTION AS A PREPARATION METHOD FOR ACCELERATED SOLVENT EXTRACTION (ID: 27689)

087 TRANSBIOME IMPACTS OF TROPICAL LAND-USE CHANGE

Chair(s): Emma Rochelle-Newall, emma.rochelle-newall@ird.fr
 Olivier Ribolzi, olivier.ribolzi@ird.fr
 Amy Burgin, aburgin2@unl.edu
 Todd Royer, troyer@indiana.edu
 Gretchen Gettel, g.gettel@unesco-ihe.org
 Anne van Dam, a.vandam@unesco-ihe.org

Location: Poster and Exhibit Area (Floor 1)

- 350 Abass, R.; Richardson, C. N.; Ngoka, I.; Jesien, R.; May, E. B.; **Ishaque, A. B.**: CONTAMINANTS OF EMERGING CONCERN (CECS) IN MARYLAND COASTAL BAYS: CHEMICAL AND BIOMARKER ANALYSIS (ID: 27698)
- 351 **Stewart, R. I.**; Zülsdorff, V.; Brönmark, C.; Hansson, L. A.; Smith, H.: LINKING PONDS TO POLLINATION IN AN AGROECOSYSTEM (ID: 26883)
- 352 **Onandia, G.**; Gudimov, A.; Miracle, M. R.; Ahrondtis, G.: ADDRESSING THE EUTROPHICATION PROBLEMS IN SHALLOW HYPERTROPHIC SYSTEMS WITH BIOGEOCHEMICAL MODELING (ID: 26386)
- 353 **Paredes, I.**; Báñez, C.; López, R.; Ramírez, F.; Bravo, M. A.; Forero, M.; Green, A. J.: STABLE ISOTOPES AS TRACERS OF ANTHROPOGENIC NUTRIENT INPUTS IN TWO DIFFERENT AQUATIC SYSTEMS IN SOUTHERN SPAIN (ID: 27748)
- 354 **Sotomayor-Ramírez, D. R.**; Martínez-Rodríguez, G.; Viggiani-Beltrocco, M. V.; Pérez-Alegria, L. R.; Santos, C.: NUMERIC REFERENCE CRITERIA AND NUMERIC NUTRIENT CRITERIA IN RIVERS OF PUERTO RICO (ID: 26277)
- 355 **Zapata, A. M.**; Rivera-Rondón, C. A.; Quisobony, D.; Prada-Pedreros, S.: EFFECT OF BEEF CATTLE AND WATER WITHDRAWAL ON ALGAE AND MACROINVERTEBRATES COMMUNITIES IN ANDEAN FOOTHILL STREAMS (ID: 26491)
- 356 Casares Ortega, V. M.; Martínez Garzon, F. J.; **Guerrero, F. J.**; Sierra, M.; Martín García, A.; de Vicente, I.: ESTIMATION OF PHOSPHORUS AND NITROGEN EXTERNAL LOADING TO A MEDITERRANEAN SHALLOW LAKE: APPLICATION OF DIFFERENT METHODOLOGIES (ID: 25694)
- 357 **Estevez, E.**; Rodríguez-Castillo, T.; Álvarez-Cabria, M.; Peñas, F. J.; González, A. M.; Silió, A.; Álvarez, J. M.; Lezcano, M.; Barquín, J.: HOW DO LAND ABANDONMENT AND PAST LAND USES AFFECT STREAM METABOLISM? (ID: 26484)

090 AQUATIC GAS FLUXES: MEASUREMENTS, DRIVERS AND IMPLICATIONS FOR ECOSYSTEM PROCESSES

Chair(s): Yves Prairie, prairie.yves@uqam.ca
 Sebastian Sobek, sebastian.sobek@ebc.uu.se
 Sally MacIntyre, sally@icess.ucsb.edu
 Marcus Wallin, marcus.wallin@geo.uu.se
 Daniel McGinnis, dfmcginnis@yahoo.com

Location: Poster and Exhibit Area (Floor 1)

- 366 **Aho, K. S.**; Raymond, P. A.: THE EFFECTS OF WETLAND PRESENCE AND PRECIPITATION EVENTS ON GREENHOUSE GAS FLUX FROM STREAMS IN THE SALMON RIVER WATERSHED, CT (ID: 27407)
- 367 **Spawn, S. A.**; **Dunn, S. T.**; Fiske, G. J.; Schade, J. D.; Zimov, N. S.: METHANE EBULLITION FROM AN UPLAND STREAM NETWORK IN NORTHEASTERN SIBERIA (ID: 27642)

TUESDAY

- 368 **Galindo-Lorente, M.**; Vidal, M.; Flos, J.; Álvarez, M.; Padín, X. A.; Coca, J.; Ramos, A. G.; Redondo, Á.: DISTRIBUTION OF AIR-SEA CO₂ FLUXES IN THE MEDITERRANEAN SEA (ID: 27439)
- 369 **Gatland, J. R.**; Maher, D. T.; Santos, I. R.: USE OF CAVITY RING DOWN SPECTROSCOPY TO ASSESS $\Delta^{13}\text{C}$ IN CARBON DIOXIDE AND METHANE IN NATURAL WATERS (ID: 26439)
- 370 **Endres, S.**; Hepach, H.; Marandino, C. A.; Quack, B.; Engel, A.: MICROBIAL CONTROL OF BROMOCARBONS IN THE SURFACE OCEAN (ID: 26289)

092 GEOCHEMICAL AND BIOLOGICAL INSIGHT INTO SULFATE-METHANE COUPLING IN MARINE AND MARGINAL MARINE SETTINGS

- Chair(s): Orit Sivan, oritsi@bgu.ac.il
Alexandra Turchyn, avt25@cam.ac.uk
- Location: Poster and Exhibit Area (Floor 1 and Floor 2)
- 377 **Sivan, O.**; Antler, G.; Turchyn, V. A.; Marlow, J.; Orphan, V. J.: IRON OXIDES STIMULATE SULFATE DRIVEN ANAEROBIC METHANE OXIDATION IN SEEPS (ID: 25673)
- 378 **Mills, J. V.**; Antler, G.; Turchyn, A. V.: IRON-MEDIATED CRYPTIC SULFUR CYCLING INHIBITS METHANE PRODUCTION IN SALT MARSH SEDIMENTS (ID: 26024)
- 379 **Bar-Or, I.**; Ben-Dov, E.; Werner, E.; Kushmaro, A.; Orphan, V.; Sivan, O.: EXPLORING THE MECHANISMS OF ANAEROBIC OXIDATION OF METHANE IN DEEP SEDIMENT OF LAKE KINNERET (ISRAEL). (ID: 26066)

094 POLICY IMPACTS OF AQUATIC SCIENCE: COMMUNICATING SCIENCE TO POLICYMAKERS

- Chair(s): Adrienne Sponberg, sponberg@aslo.org
Kirsten Feifel, kirsten.feifel@gmail.com
- Location: Poster Area (Floor 2)
- 380 **Caffrey, J. M.**; Carmichael, R. H.; Cressman, K.; Darrow, E. S.; Dillon, K. S.; Woodrey, M. S.: BRINGING TOGETHER RESEARCH AND MANAGEMENT TO EXAMINE THE CONSEQUENCES OF REPEATED PHOSPHORUS SPILLS IN A COASTAL ESTUARY (ID: 26272)
- 381 **Aalto, S. L.**; Tiitola, M.; Huotari, J.; Tulonen, T.; Rissanen, A.; Nykänen, H.; Rankinen, K.; Ahlvik, L.; Leppäranta, M.; Arvola, L.: N-SINK – REDUCTION OF WASTE WATER NITROGEN LOAD (ID: 26699)
- 382 **Samal, N. R.**; Jöhnk, K. D.; Pierson, D. C.; Leppäranta, M.; Yao, H.; Hargreaves, B. R.; Kratz, T.; Sharma, S.; Laas, A.; Hamilton, D.: LONG TERM CHANGES IN ICE SEASONS OF TWENTY-ONE GEOGRAPHICALLY DISTRIBUTED FRESHWATER LAKES: MODELING SIMULATIONS AND OBSERVATIONS (ID: 27656)

099 DEEP SEA CARBON FLUX DYNAMICS: BIOLOGICAL, PHYSICAL AND CHEMICAL DRIVERS

- Chair(s): Clara Manno, clanno@bas.ac.uk
Gabriele Stowasser, gsto@bas.ac.uk
- Location: Poster Area (Floor 2)
- 392 **Vandromme, P.**; Kriest, I.; Stemmann, L.; Kiko, R.; Oschlies, A.: HOW THE ZOOPLANKTON DIEL VERTICAL MIGRATION AFFECTS THE EXPORT OF CARBON? A MODELING APPROACH. (ID: 27136)

- 393 **Srivastava, A.**; García, J. A.; Herndl, G. J.: METABOLIC LANDSCAPES OF PROKARYOTES IN THE DEEP ATLANTIC OCEAN (ID: 26480)
- 394 **Langone, L.**; Dunbar, R. B.; Giglio, F.; Manno, C.; Mucciarone, D.; Asper, V.; Capello, M.; Smith, W. O.; Ravaioli, M.: PARTICLE FLUXES IN THE ROSS SEA: A 20-YEAR SYNTHESIS (ID: 27450)
- 395 **Ariza, A.**; Hernández-León, S.: ACTIVE FLUX : TOWARDS MICRONEKTON AND BEYOND 1000 M DEPTH (ID: 26817)
- 396 **Capello, M.**; Cutroneo, L.; Budillon, G.; Tucci, S.: THE RESULTS OF TWENTY YEARS OF DIMENSIONAL ANALYSES OF BOTTOM-PARTICLE SAMPLES FROM SEDIMENT TRAPS IN AN ANTARCTIC POLYNYA (ROSS SEA, ANTARCTICA) (ID: 26189)
- 397 **Mazuecos, I. P.**; Arístegui, J.; Gasol, J. M.; Baños, I.; Espino, M.; Hernández, N.; Montero, M. F.; Reche, I.: HETEROTROPHIC PROKARYOTES AS DRIVERS OF EXOPOLYMER PARTICLES IN THE MEDITERRANEAN SEA AND THE SUBTROPICAL NORTHEAST ATLANTIC OCEAN (ID: 25602)
- 398 **Rembauville, M.**; Salter, I.; Blain, S.: ECOLOGICAL VECTORS OF CARBON AND BIOGENIC SILICA EXPORT FLUXES IN A NATURALLY FERTILIZED AREA OF THE SOUTHERN OCEAN : THE KERGUELEN PLATEAU (ID: 25437)

109 URBAN COASTAL SYSTEMS IN A CHANGING CLIMATE

- Chair(s): Linda Duguay, duguay@usc.edu
Michelle Wood, m.michellewood@gmail.com
Doug Capone, Capone@usc.edu
- Location: Poster Area (Floor 2)
- 419 **Krestenitis, Y. N.**; Makris, C. V.; Androulidakis, Y. S.; **Kombiadou, K. D.**; Baltikas, V.: VARIABILITY OF STORM SURGE EXTREMES IN THE GREEK SEAS UNDER CLIMATE CHANGE (ID: 26899)
- 420 **Morales-Nunez, A. G.**; Chigbu, P.; Jackson, A. L.: LIFE HISTORY OF *DULICHIELLA APPENDICULATA* (CRUSTACEA: AMPHIPODA: SENTICAUDATA) IN MARYLAND COASTAL BAYS, USA (ID: 27447)
- 421 **Chigbu, P.**: CLIMATE VARIABILITY, PHYTOPLANKTON BIOMASS, AND WATER QUALITY DYNAMICS DURING WINTER IN NEWPORT BAY, MARYLAND, USA (ID: 27700)
- 422 **Branoff, B. L.**: WHAT IS URBANNESS AND HOW DOES IT INFLUENCE URBAN MANGROVE ECOLOGY? A CASE STUDY OF THE SAN JUAN BAY ESTUARY, SAN JUAN, PUERTO RICO (ID: 27660)
- 423 **Filippino, K. C.**; Egerton, T. A.; Hunley, W. S.; Shen, J.; Mulholland, M. R.: DRIVERS OF INTERANNUAL VARIABILITY OF *COCHLODINIUM POLYKRIOIDES* BLOOMS IN A COASTAL URBAN ESTUARY (ID: 26364)
- 424 **Reyes Merlo, M. A.**; Díez Minguito, M.; Baquerizo Azofra, A.; Losada Rodriguez, M. A.: MARKOV CHAIN MONTE CARLO PREDICTIONS OF THE SALINE INTRUSION IN A WELL-MIXED ESTUARY. (ID: 26135)

112 ARE THERE FRESHWATER BIOMES?

Chair(s): Emily Bernhardt, emily.bernhardt@duke.edu
Nancy Grimm, nbgrimm@asu.edu

Location: Poster Area (Floor 2)

- 435 **Bernal, S.**; Lupon, A.; Ribot, M.; Sabater, E.; Martí, E.: PATTERNS OF IN-STREAM NUTRIENT PROCESSING IN MEDITERRANEAN STREAMS: MECHANISTIC INSIGHTS FROM LOW- AND HIGH-RESOLUTION DATA (ID: 27610)
 436 **Warren, S. L.**; Mckew, B. A.; Whitby, C.; Binley, A.; Heppell, K. M.; Trimmer, M.; Underwood, G. J.: RIVER MICROPHYTOBENTHIC COMMUNITIES OVER MULTIPLE LANDSCAPE SCALES (ID: 26918)

113 BRIDGING THE GAP BETWEEN ECOSYSTEM MODELING AND ECOSYSTEM SERVICES' ASSESSMENT IN COASTAL AND MARINE WATERS

Chair(s): Adolf Konrad Stips, adolf.stips@jrc.ec.europa.eu
Camino Liqueite, camino.liquete@jrc.ec.europa.eu

Location: Poster Area (Floor 2)

- 437 **Alcaraz, C.**; Prado, P.; Caiola, N.; Ibáñez, C.: FISHERIES AND CLIMATE CHANGE: THE RELATIONSHIP BETWEEN RIVER REGIME SHIFT AND COASTAL ARTISANAL FISHERIES (ID: 27122)
 438 **Galparsoro, I.**; Borja, Á.; C. Uyarra, M.: MAPPING ECOSYSTEM SERVICES PROVIDED BY BENTHIC HABITATS IN THE EUROPEAN NORTH ATLANTIC OCEAN (ID: 26777)

114 MULTIPLE STRESSORS IN RIVER ECOSYSTEMS: CHALLENGES FOR CONSERVATION AND MANAGEMENT

Chair(s): Sergi Sabater, sergi.sabater@udg.edu
Arturo Elosegi, arturo.elosegi@ehu.es

Location: Poster Area (Floor 2)

- 439 **Perujo, N.**; Freixa, A.; Vivas, Z.; Gallegos, A. M.; Ejarque, E.; Butturini, A.; Romaní, A. M.: DIFFERENT FUNCTIONAL RESPONSE IN BIOFILM SEDIMENT COMMUNITIES TO WWTP INPUTS: AN EX-SITU TRANSLOCATION APPROACH (ID: 27140)
 440 **Costa-Böddeker, S.**; Hoelzmann, P.; Thuyén, L. X.; Huy, H. D.; Schwarz, A.; Schwalb, A.: ENVIRONMENTAL ASSESSMENT OF A COASTAL ZONE IN SOUTHERN VIETNAM: SPATIAL DISTRIBUTION AND CONTENT OF HEAVY METALS IN SURFACE SEDIMENTS (ID: 26556)
 441 Wolfer, H.; Johnson, A. K.: HYPOXIA-INDUCED PHYSIOLOGICAL AND IMMUNE SYSTEM EFFECTS IN ATLANTIC CROAKER FROM CHESAPEAKE BAY (ID: 27754)
 442 **Martyniuk, N.**; Modenutti, B.; Balseiro, E.: CLIMATE CHANGE AFFECTING PERIPHYTON PRIMARY PRODUCERS IN ANDEAN NORTH-PATAGONIAN MOUNTAIN STREAMS: THE EFFECT OF CANOPY ON LIGHT AVAILABILITY (ID: 27184)
 443 **Casas, J. J.**; Salinas, M. J.; Rubio, J. J.; López-Carriqué, E. M.; Gil, C. J.: EFFECTS OF ARIDITY ON INTRA- AND INTER-SPECIFIC VARIABILITY IN LEAF QUALITY FROM RIPARIAN VEGETATION OF MEDITERRANEAN HEADWATER STREAMS (ID: 27218)

TUESDAY

WEDNESDAY ORALS

007 BIOLOGICAL CONNECTIVITY AND ITS IMPORTANCE WITHIN THE CONTEXT OF GLOBAL CHANGE

- Chair(s): Guillem Chust, gchust@azti.es
 Xabier Irigoien, Xabier.Irigoyen@kaust.edu.sa
 Naiara Rodriguez-Ezpeleta, nrodriguez@azti.es
- Location: Albeniz (Floor -2)
- 08:30 **Chust, G.**; Rodriguez-Ezpeleta, N.; Irigoien, X.: TUTORIAL PRESENTATION OF THE SESSION (ID: 25709)
- 08:45 **Snelgrove, P. V.**; Metaxas, A.; Pepin, P.; Bradbury, I. R.: LESSONS LEARNED ON CONNECTIVITY IN MARINE FISH AND INVERTEBRATES^T (ID: 26822)
- 09:15 **Watson, J. R.**; Jonsson, B. F.: THE TIMESCALES OF GLOBAL SURFACE-OCEAN CONNECTIVITY (ID: 25528)
- 09:30 **Jonsson, B. F.**; Watson, J. R.: THE EFFECT OF ADVECTION ON TEMPERATURE ADAPTATION BY PHYTOPLANKTON COMMUNITIES IN THE GLOBAL OCEAN (ID: 27613)
- 09:45 **Viana, D. S.**; Santamaría, L.; Michot, T. C.; Figuerola, J.: ALOMETRIC SCALING OF LONG-DISTANCE SEED DISPERSAL BY MIGRATORY BIRDS (ID: 26744)
- 10:30 **Rothäusler, E.**; Corell, H.; Jormalainen, V.: ABUNDANCES AND SPATIO-TEMPORAL DISTRIBUTION PATTERNS OF FLOATING *FUCUS VESICULOSUS* FROM THE NORTHERN BALTIC SEA (ID: 26833)
- 10:45 **Faillettaz, R.**; Blandin, A.; Durand, E.; Paris, C. B.; Irisson, J. O.: BEHAVIOUR VERSUS OCEANIC CURRENTS DURING THE DISPERSAL OF LARVAL FISH IN THE NORTHWESTERN MEDITERRANEAN SEA (ID: 27097)
- 11:00 **Rodríguez-Ezpeleta, N.**; Álvarez, P.; Arrizabalaga, H.; Bald, J.; Irigoien, X.: ASSESSING CONNECTIVITY IN MIGRATORY AND SEDENTARY MARINE ORGANISMS THROUGH POPULATION STRUCTURE INFERRED FROM GENOME-WIDE MARKERS (ID: 26644)
- 11:15 **Villarino, E.**; Chenuil, A.; Chust, G.: DISPERSAL SCALES IN PLANKTON AND MARINE BENTHIC INTERVERTEBRATES: A GENETIC META-ANALYSIS APPROACH (ID: 26725)
- 11:30 **Hernawan, U.**; McMahon, K.; Kendrick, G.; van Dijk, K.; Lavery, P.: PREDICTORS OF GENETIC STRUCTURE OF MARINE ORGANISMS IN THE INDO-AUSTRALIAN ARCHIPELAGO (ID: 25674)
- 11:45 **Questel, J. M.**; Blanco-Bercial, L.; Hopcroft, R. R.; Bucklin, A.: PHYLOGEOGRAPHY AND CONNECTIVITY OF FOUR SIBLING SPECIES OF *PSEUDOCALANUS* (COPEPODA: CALANOIDA) IN THE NORTH PACIFIC AND ARCTIC OCEANS (ID: 25912)
- 15:00 **Sildever, S.**; Sefbom, J.; Lips, I.; Godhe, A.: ARE DIATOM POPULATIONS LOCALLY ADAPTED? (ID: 26156)
- 15:15 **Yaegashi, S.**; Watanabe, K.; Monaghan, M. T.; Omura, T.: GENE FLOW IN THE STREAM CADDISFLY *STENOPSYCHE MARMORATA* REVEALED BY BOTH NUCLEAR AND MITOCHONDRIAL DNA (ID: 26648)
- 15:30 **Thornhill, D. J.**; Howells, E. J.; Wham, D. C.; Steury, T. D.; Santos, S. R.: ECOLOGICAL AND EVOLUTIONARY IMPLICATIONS OF POPULATION STRUCTURE, DIVERSITY, AND CLONALITY IN CORAL REEF ENDOSYMBIONTS (ID: 27474)

- 15:45 **Arrizabalaga, H.**; Dufour, F.: CLIMATE DRIVEN HABITAT SHIFTS FOR COMMERCIALLY VALUABLE TUNAS? (ID: 26390)
- 16:00 **Podbielski, I.**; Bock, C.; Lenz, M.; Melzner, F.: A NEW INVADER TO THE BALTIC SEA – ACCLIMATION POTENTIAL OF THE SEA ANEMONE *HALIPLANELLA LINEATA* TO CHANGING SALINITIES (ID: 27231)
- 16:15 **Jaspers, C.**; Hinrichsen, H. H.; Friis Møller, E.: THE INVASIVE COMB JELLY *MNEMIOPSIS LEIDYI* IN NORTHERN EUROPE: TRANSPORT, ORIGIN AND LOCAL EXTINCTION AND RE-INVASIONS OF SUB-POPULATIONS (ID: 27367)
- 17:00 **Tuytens, K.**; Vanschoenwinkel, B.; Waterkeyn, A.; Brendonck, L.: PREDICTED CLIMATE CHANGE INFERS INCREASED ENVIRONMENTAL HARSHNESS AND ALTERED CONNECTIVITY IN A CLUSTER OF TEMPORARY POOLS (ID: 27620)
- 17:15 **González, A. M.**; Rodríguez-Castillo, T.; Estévez, E.; Álvarez-Cabria, M.; Peñas, F. J.; Silió-Calzada, A.; Álvarez-Martínez, J. M.; Lezcano, M.; Barquín, J.: THE ROLE OF PATCH CONNECTIVITY IN RIVER NETWORKS FOR THE DYNAMICS OF *SALMO TRUTTA* POPULATIONS (ID: 26466)
- 17:30 **Salvarina, I.**; Gravier, D.; Rothhaupt, K. O.: AQUATIC-TERRESTRIAL CONNECTIVITY: LAKES AS FOOD SOURCES FOR BATS (ID: 27156)
- 17:45 **Lejeusne, C.**; Frisch, D.; Sánchez, J.; **Green, A. J.**: INFLUENCE OF AVIAN VECTORS AND LAKE CHEMISTRY ON CONNECTIVITY AMONG NATIVE *ARTEMIA FRANCISCANA* POPULATIONS IN PRAIRIE CANADA (ID: 25721)
- 008 THE GLOBAL OCEAN ECOSYSTEM: PATTERNS, DRIVERS AND CHANGE**
- Chair(s): Carlos M. Duarte, c.duarte@csic.es
 Susana Agustí, sagustii@imedea.uib-csic.es
 Xose Anton Alvarez-Salgado, xsalgado@iim.csic.es
- Location: Auditorium Manuel de Falla (Floor 1)
- 08:30 **Romera-Castillo, C.**; Álvarez, M.; Álvarez-Salgado, X. A.; Hansell, D. A.: ASSESSING SOURCES AND SINKS OF REFRACTORY DISSOLVED ORGANIC CARBON IN THE DEEP ATLANTIC OCEAN (ID: 26262)
- 08:45 **Catalá, T. S.**; Reche, I.; Ramón, C. L.; López-Sanz, A.; Fraile-Nuez, E.; Calvo, E.; Blasco, D.; Álvarez-Salgado, X. A.: NEW INSIGHTS ON THE UBIQUITY OF CHROMOPHORIC PRODUCTS OF MICROBIAL DEGRADATION IN THE DARK GLOBAL OCEAN (ID: 25695)
- 09:00 **Pinho, L.**; Dorsset, A.; Marotta, H.; Mesa, E.; Enrich-Prast, A.; Dachs, J.; Duarte, C. M.: SEMI - VOLATILE ORGANIC CARBON UPTAKE IN THE TROPICAL OCEAN (ID: 27462)
- 09:15 **Ayo, B.**; Azua, I.; Baña, Z.; Abad, N.; Unanue, M.; Vidal, M.; Gasol, J. M.; Duarte, C. M.; Iribarri, J.: THE TEMPERATURE SENSITIVITY OF PROKARYOTIC EXTRACELLULAR ENZYMATIC ACTIVITIES IMPLIES EXPECTED SHIFTS IN THE STOICHIOMETRY OF ORGANIC MATTER IN A WARMER OCEAN (ID: 26261)
- 09:30 **González Benítez, N.**; Blasco, D.; Cermeño, P.; Fernández Carrera, A.; Gasol, J. M.; Huete-Ortega, M.; Lopez Sandoval, D. C.; Marañón, E.; Morán, X. A.; Sobrino, C.: HOW BACTERIOPLANKTON IS AFFECTED BY THE SHIFTS IN BIOGENIC CARBON FLOW FROM PARTICULATE PRIMARY PRODUCTION TO DISSOLVED FORMS. (ID: 27658)

09:45	Sala, M. M. ; Borrull, E.; Antequera , C.; Azúa, I.; Baña, Z.; García-Zarandona, I.; Ayo, B.: METABOLIC DIVERSITY OF BACTERIOPLANKTON IN THE OCEAN (ID: 26039)	
10:30	Sharp, J. H. : HOW CAN WE REALLY UNDERSTAND ENVIRONMENTAL CHANGE? (ID: 25458)	
10:45	Duarte, C. M. ; Fulweiler, R. W.; Lovelock, C. E.; Martinetto, P.; Saunders, M. J.; Pandolfi, J. M.; Gelcich, S.; Nixon, S.: IS THE OCEAN BROKEN?: AUDITING OCEAN PLAGUES (ID: 25650)	
11:00	Marbà, N. ; Jordà, G.; Agustí, S.; Girard, C.; Duarte, C. M.: IMPACTS OF CLIMATE CHANGE ON MEDITERRANEAN SEA BIOTA (ID: 25794)	
11:30	Batt, R. D. ; Pinsky, M. L.: LONG-TERM CHANGES IN NORTH AMERICAN COASTAL COMMUNITIES (ID: 27724)	
11:45	Hale, R. ; Godbold, J. A.; Solan, M.: GLOBAL PATTERNS OF NUTRIENT CYCLING IN SHELF SEA SEDIMENTS (ID: 26704)	
15:00	Morán, X. A. ; Alonso-Sáez, L.; Nogueira, E.; Ducklow, H. W.; González-Benítez, N.; López-Urrutia, Á.; Díaz-Pérez, L.; Calvo-Díaz, A.; Arandia-Gorostidi, N.; Huete-Stauffer, T. M.: THE SMALL SHALL INHERIT THE OCEAN: OBSERVATIONS AND EXPERIMENTS ON WARMING-ASSOCIATED SIZE REDUCTION IN BACTERIA (ID: 25556)	
15:15	Martiny, A. C. ; Flombaum, P.; Lomas, M. W.: PREDICTING FUTURE GLOBAL DISTRIBUTIONS AND BIOGEOCHEMICAL IMPACTS OF THE MARINE CYANOBACTERIA PROCHLOROCOCCUS AND SYNECHOCOCCUS (ID: 26366)	
15:30	Agustí, S. ; Llabres, M.; Lubian, L.; Moreno-Ostos, E.; Estrada, M.; Duarte, C. M.; Agustí, S.: DECLINE OF AUTOTROPHIC PICOPLANKTON IN A WARMING SUBTROPICAL OCEAN (ID: 26306)	
15:45	Otero-Ferrer, J. L. ; Mouríño-Carballido, B.; Cermeño, P.; Agustí, S.; Bode, A.; Chouciño, P.; Fernández-Castro, B.; Gasol, J. M.; Latasa, M.; Lubián, L. M.; Marañón, E.; Moran, X.A.. G.; Moreira-Coello, V.; Moreno-Ostos, E.; Varela, M. M.; Villamaña, M.: WHICH FACTORS CONTROL THE PICOPLANKTON COMMUNITY STRUCTURE IN THE OCEAN? (ID: 26170)	
16:00	Fernandez-Pinos, M. C. ; Piña, B.; Vila-Costa , M.; Agustí , S.; Blasco, D.; Duarte, C. M.; Estrada, M.; Simó, R.; Sobrino, C.; Dachs, J.: PHOTOSYNTHETIC GENE EXPRESSION RESPONSES OF THE OCEANIC UBIQUITOUS CYANOBACTERIUM <i>PROCHLOROCOCCUS</i> DUE TO CHANGES OF ENVIRONMENTAL VARIABLES (ID: 26068)	
16:15	Larkin, A. A. ; Lin, Y.; Johnson, Z. I.: <i>PROCHLOROCOCCUS</i> HAS SEASONAL-SPECIFIC TRENDS IN ALPHA- AND BETA-DIVERSITY ACROSS LATITUDINAL TEMPERATURE GRADIENTS IN THE NORTH PACIFIC (ID: 26319)	
17:00	O'Brien, C. J. ; Vogt, M.; Gruber, N.: GLOBAL COCCOLITHOPHORE DIVERSITY: DRIVERS AND FUTURE CHANGE (ID: 27444)	
17:15	Gravelle, A. D. ; Martin, A. P.; Henson, S. A.; Beaulieu, C.; Popova, E.: UNIVERSALITY OF STRATIFICATION CONTROL UPON PRIMARY PRODUCTION (ID: 25825)	
17:45	Monteiro, F. M. ; Dutkiewicz, S.; Poulton, A.; Bach, L.; Ridgwell, A.: WHY DO MARINE PHYTOPLANKTON CALCIFY? (ID: 27389)	
18:00	Varela, M. M. ; Álvarez-Osorio, M. T.; Bode, A.; Campos, M. J.; Guerrero-Feijoo, E.; Varela, M.: DIVERSITY AND ABUNDANCE OF PLANKTONIC COMMUNITIES IN THE DEEP WATERS OFF THE GALICIAN COAST (NW SPAIN). (ID: 26712)	
18:15	Righetti, D. ; Vogt, M.; Zimmermann, N.; Gruber, N.: GLOBAL PATTERNS IN MARINE PHYTOPLANKTON SPECIES RICHNESS INFERRED FROM SPECIES DISTRIBUTION MODELING (ID: 27554)	
010 AQUACULTURE & THE ENVIRONMENT - SYNERGY OR ANTAGONISM?		
Chair(s): Dror Angel, adror@research.haifa.ac.il Peter Krost, peter.krost@web.de		
Location: Press Room (Floor 2)		
08:30	MacLeod, C. K. ; Eriksen, R. S.; Kelly, B.; Ross, D. J.: CAN AQUACULTURE SYNERGY BE MANAGED?: ASSESSMENT OF OPTIONS FOR MANAGING SEABED RECOVERY IN MARINE FINFISH AQUACULTURE. (ID: 26461)	
08:45	Lindahl, O. : RECYCLING OF NUTRIENTS FROM SEA TO LAND THROUGH MUSSEL FARMING AND PRODUCTION OF MUSSEL MEAL (ID: 25533)	
09:00	Krost, P. ; Lühmann, L.; Jäger-Kleinicke, T.; Marquard, R.; Kock, M.: THICK LIPPED MULLET <i>CHELON LABROSUS</i> IN BALTIC INTEGRATED MULTITROPHIC AQUACULTURE. (ID: 26998)	
09:15	Frias-Torres, S. : LARGE SCALE CORAL GARDENING: A SUSTAINABLE PRODUCTION METHOD FOR CORAL REEF RESTORATION (ID: 26925)	
09:30	Fragoso, B. D. ; Icely, J. D.; Newton, A.: IMPLEMENTATION OF BIVALVE OFFSHORE AQUACULTURE WITHIN A NATURAL PARK: REVIEW OF TOOLS FOR ASSESSING IMPACTS UNDER THE EU MARINE STRATEGY FRAMEWORK DIRECTIVE (ID: 27586)	
09:45	Brigolin, D. ; Louoguiui, H.; Taji, A. M.; Venier, C.; Mangin, A.; Pastres, R.: COASTAL AQUACULTURE SPACE ALLOCATION IN NORTH AFRICA: DATA CONSTRAINTS, INDUSTRY REQUIREMENTS AND CONSERVATION ISSUES (ID: 26563)	
10:30	Hattich, G. S. ; Mayor, D. J.; Thornton, B.; Gray , N. B.: DO BIG FISH FARMS HAVE A BIGGER IMPACT ON BENTHIC MICROBIAL COMMUNITIES? (ID: 25626)	
10:45	van Duren, L. A. ; Tralli, A.; Troost, T.; Kamermans, P.: FROM FARM-SCALE TO ECOSYSTEM-SCALE – TOOLS FOR SUSTAINABLE AQUACULTURE (ID: 25739)	
11:00	Polsenaere, P. ; Soletchnik, P.; Le Moine, O.; Robert, S.; Gohin, F.; Stanisière, J. Y.; Dumas, F.; Béchemin, C.: RELATIONSHIPS BETWEEN WINTER ENVIRONMENTAL VARIATIONS AND THE BLUE MUSSEL MORTALITY EVENT OBSERVED IN THE PERTUIS CHARENTAIS (FRENCH ATLANTIC COASTAL ZONE) (ID: 27087)	
11:15	López Galindo, L. L. ; Galindo Sánchez, C. E.; Díaz Herrera , F; Re Araujo , A. D.; Larios Soriano , E.: GENE EXPRESSION OF HSP70, HSP90, HIF1A AND NA+/K+ ATPASE IN THE EXPOSURE TO CRITICAL THERMAL MAXIMA IN ABLATED AND UNABLATED LITOPENAEUS VANNAMEI. (ID: 27544)	
11:30	Cherif, M. ; Granados, M.; Fussmann, G.: MUSSEL FARM EFFECTS ON THE WATER COLUMN: A TEST OF POTENTIAL POSITIVE EFFECTS OF MUSSEL EXUDATIONS AND SEDIMENT EFFLUX USING BENTHOCOSMS (ID: 26372)	

WEDNESDAY

- 11:45 **Sweetman, A. K.**; Dale, T.; Norling, K.: EFFECTS OF AQUACULTURE ACTIVITIES ON BENTHIC ECOSYSTEM FUNCTIONING UNDER LOW AND HIGH WATER-FLOW REGIMES (ID: 26735)

013 ASSESSING MARINE ECOSYSTEMS HEALTH IN AN INTEGRATIVE WAY

- Chair(s): Angel Borja, aborja@azti.es
Benjamin Halpern, halpern@bren.ucsb.edu
Philippe Archambault, Philippe_Archambault@uqar.ca
- Location: Room D (Floor -3)
- 08:30 **Villazán, B.**; Salo, T.; Brun, F. G.; Vergara, J. J.; Pedersen, M. E.: SYNERGISTIC EFFECT OF AMMONIUM ENRICHMENT AND LOW SALINITY IN EELGRASS *ZOSTERA MARINA* (ID: 25714)
- 08:45 **Soissons, L. M.**; van Katwijk, M. M.; Han, Q.; Li, B.; Ysebaert, T.; Herman, P. M.; Bouma, T. J.: HOW TO EVALUATE SEAGRASS RESILIENCE: TIMING EFFECTS ON INDICATORS (ID: 26250)
- 09:00 **Roca, G.**; Romero, J.; Farina, S.; Martínez-Crego, B.; Alcoverro, T.: INTERANNUAL VARIATION OF METAL CONTENT IN NORTH-WESTERN MEDITERRANEAN P. OCEANICA MEADOWS: LOCAL POLLUTION VS. LARGE SCALE SOURCES. (ID: 27464)
- 09:30 Subida, M. D.; de Juan, S.; Ospina-Alvarez, A.; Pérez-Matus, A.; Aiken, C.; Castilla, J. C.; Faugeron, S.; Gelcich, S.; Navarrete, S.; Wieters, E.; Fernandez, M.: ADAPTIVE REFERENCE CONDITIONS TO ASSESS BENTHIC ECOSYSTEM INTEGRITY IN CENTRAL CHILE (ID: 27634)
- 09:45 **Radziejewska, T.**; Wawrzyniak-Wydrowska, B.; Bieniek, B.; Skrzypacz, A.; Wroniecki, M.: MEIO- AND MACROBENTHIC RESPONSES TO INSHORE SEDIMENTARY HABITAT ALTERATION BY DUMPING OF DREDGING WASTE: A SOUTHERN BALTIC EXAMPLE (ID: 26575)
- 10:30 **Román-Geada, M.**; Fernández, E.; Méndez-Martínez, G.; Zamborain-Mason, J.; Rendal-Freire, S.: MULTIVARIATE ENVIRONMENTAL ASSESSMENT OF THE ANTHROPOGENIC EFFECT ON AN INTERTIDAL COMPLEX (NW IBERIAN PENINSULA). (ID: 26522)
- 10:45 **Abdul Malak, D.**; Sanchez, A.; Schröder, C.; Papatheochari, T.; Kyrtoulis, T.; Niavis, S.; Mariel, N.; Lafitte, A.; Dubreuil, C.; Leveque, L.: ASSESSING MAJOR ENVIRONMENTAL IMPACTS IN THE MEDITERRANEAN SEA: AN ECOREGIONAL APPROACH (ID: 27195)
- 11:00 **Abdulla, A. A.**; Obura, D.; Bertzky, B.; Shi, Y.: MARINE WORLD HERITAGE: CREATING A GLOBALLY MORE BALANCED AND REPRESENTATIVE LIST (ID: 27401)
- 11:15 **Albano, P. G.**; Tomašových, A.; Stachowitsch, M.; Filippova, N.; Steger, J.; Zuschin, M.: MAJOR OIL SPILLS AND CHRONIC DISCHARGES IN THE PERSIAN (ARABIAN) GULF: EFFECTS ON BIODIVERSITY INFERRED WITH LIVE-DEAD AGREEMENT STUDIES (ID: 27307)
- 11:30 **Brodie, J. E.**; Devlin, M. J.: IS THE GREAT BARRIER REEF EUTROPHIC? ESTABLISHING A SET OF DECISION CRITERIA. (ID: 27661)
- 11:45 **Cibic, T.**; Auriemma, R.; Camatti, E.; Caroppo, C.; Cardellichio, N.; De Vittor, C.; Franzo, A.; Karuza, A.; Rogelja, M.; Del Negro, P.: ECOSYSTEM FUNCTIONING NEARBY THE LARGEST STEELWORKS IN EUROPE AND THE MAIN ITALIAN NAVAL BASE: THE STUDY CASE OF THE MAR PICCOLO OF TARANTO (ID: 25465)

- 15:00 **Niquil, N.**; Tecchio, S.; Chaalali, A.; Hattab, T.; Safi, G.; Astorg, L.; Halouani, G.; Raybaud, V.; Beaugrand, G.; Bopp, L.; Dauvin, J. C.; Saint-Béat, B.; Lassalle, G.; Lobry, J.; Lynam, C.; Piroddi, C.; Patrício, J.; Heymans, J. J.; Chifflet, M.; Leloc'h, F.: ECOLOGICAL NETWORK ANALYSIS INDICES SENSITIVITY TO DIFFERENT HUMAN IMPACTS (CLIMATE CHANGE, FISHERIES, HARBOUR EXTENSION): A METHODOLOGICAL PERSPECTIVE. (ID: 26009)
- 15:15 **Piroddi, C.**; Moutopoulos, D.; Gonzalvo, J.; Libralato, S.: USING AN ECOSYSTEM MODELLING APPROACH TO ASSESS THE HEALTH STATUS OF A MEDITERRANEAN SEMI-ENCLOSED EMBAYMENT (AMVRAKIKOS GULF, GREECE) (ID: 26190)
- 15:30 **Ribera d'Alcalà, M.**; Crise, A.; D'Alelio, D.; Libralato, S.: REFINING THE TOOLS FOR THE IMPLEMENTATION OF THE MSFD IN THE PELAGIC ENVIRONMENT (ID: 27063)
- 15:45 **Uusitalo, L.**; Korpinen, S.; Andersen, J. H.; Valanko, S.; Dickey-Collas, M.: EXPERT ASSESSMENT OF CUMULATIVE EFFECTS OF MANAGEMENT IN THE BALTIC SEA (ID: 26169)
- 16:00 **Aubert, A. B.**; Thibault, D.; Johns, D.; McQuatters-Gollop, A.; Jamet, J. L.; Serranito, B.; Stemmann, L.; Gasparini, S.; Brylinski, J. M.: INSIGHT INTO THE POTENTIAL OF ZOOPLANKTON AS INDICATORS OF MARINE ECOSYSTEM HEALTH FOR THE MSFD (ID: 26672)
- 17:00 **Dimitriou, P. D.**; Papageorgiou, N.; Arvanitidis, C.; Assimakopoulou, G.; Pagou, K.; Papadopoulou, ?; Pavlidou, A.; Reizopoulou, S.; Simboura, N.; Karakassis, I.: BENTHIC-PELAGIC COUPLING ALONG AN EUTROPHICATION GRADIENT IN THE AEGEAN SEA: DO ENVIRONMENTAL INDICATORS AGREE? (ID: 26828)
- 17:15 **Salomidi, M.**; Tsiamis, K.; Issaris, Y.; Gerakaris, V.; Panayotidis, P.: ASSESSING THE STATUS OF SHALLOW INFRALITTORAL ROCKY REEFS IN THE EASTERN MEDITERRANEAN SEA: LOSING OUR BIOINDICATORS (ID: 27286)
- 17:30 **Haselmair, A.**; Gallmetzer, I.; Tomasovich, A.; Stachowitsch, M.; Zuschin, M.: HISTORICAL ECOLOGY OF THE NORTHERN ADRIATIC SEA: ASSESSING PRISTINE BENTHIC COMMUNITIES BASED ON DOWN-CORE CHANGES IN MOLLUSCAN DEATH ASSEMBLAGES (ID: 26731)
- 18:00 **Cánovas Molina, A.**; Bo, M.; Montefalcone, M.; Morri, C.; Bianchi, N.; Bavestrello, G.: ECOLOGICAL STATUS ASSESSMENT OF A MEDITERRANEAN DEEP CORALLIGENOUS COMMUNITY (ID: 26133)
- 18:15 **Karayanni, H.**; Meziti, A.; Kormas, K.; Kokkinos, P.; Vantarakis, A.; Leonards, I.; Stamouli, A.; Nicolaïdou, A.: ASSESSING THE ECOLOGICAL STATUS OF IGOUmenitsa GULF (NW GREECE) IN AN INTEGRATED WAY (ID: 25559)

019 LAKES IN THE CRYOSPHERE: FROM POLE TO POLE

- Chair(s): Warwick F. Vincent, Warwick.Vincent@fsg.ulaval.ca
Antonio Quesada, antonio.quesada@uam.es
Antonio Camacho, antonio.camacho@uc.es
Ruben Sommaruga, ruben.sommaruga@uibk.ac.at
- Location: Machado (Floor -2)

- 15:00 **McKnight, D. M.**; Sakaeva, A.; Stanish, L.; Spaulding, S.; Howkins, A.; Kohler, T.; Sokol, E.; Barrett, J.: DIATOM COMMUNITIES IN MICROBIAL MATS IN PONDS FROM THE MCMURDO SOUND REGION ANTARCTICA: EVALUATING THE HABITAT AND DISPERSAL CONTROLS ON COMMUNITY COMPOSITION* (ID: 27631)

15:15	Wilmette, A. ; Stelmach-Pessi, I.; Sweetlove, M.; Obbels, D.; Vanormelingen, P.; Tytgat, B.; Willems, A.; Verleyen, E.; Vyverman, W.; Van De Vijver, B.; Lara, Y.; Van de Putte, A.: MOLECULAR DIVERSITY OF MICROORGANISMS IN ANTARCTIC LACUSTRINE MICROBIAL MATS (ID: 27437)	09:00	D'Sa, E. J. ; Kim, H. C.: CDOM ABSORPTION AND FLUORESCENCE PROPERTIES IN THE NEW ZEALAND SECTOR OF THE SOUTHERN OCEAN DURING AN AUSTRAL SUMMER (ID: 27732)
15:30	Velázquez, D. ; López-Bueno, A.; Aguirre de Cácer, D.; de los Ríos, A.; Alcamí, A.; Quesada, A.: ENVIRONMENTAL IMPACTS ON MICROBIAL MATS FROM (MARITIME) ANTARCTICA (ID: 27376)	09:15	Pohlueln, A. M. ; Dittmar, T.: FIRST INSIGHTS INTO THE MOLECULAR STRUCTURE OF NON-VOLATILE MARINE DISSOLVED ORGANIC SULFUR (ID: 25989)
15:45	Camacho, A. ; Lo Giudice, A.; Gugliandolo, C.; Rochera, C.; Villaescusa, J. A.; Papale, M.; Maugeri, T.; Lyons, W. B.; Vincent, W. F.; Quesada, A.: STUDIES ON THE BACTERIAL COMMUNITIES INHABITING LAKES OF BYERS PENINSULA, ANTARCTICA: A TRIBUTE TO LUIGI MICHAUD, THE PROVERBAL GENTLE GIANT (ID: 26293)	09:30	Ksionzek, K. B. ; Lechtenfeld, O. J.; Koch, B. P.: QUANTIFICATION AND CHEMICAL CHARACTERIZATION OF DISSOLVED ORGANIC SULFUR (DOS) IN THE EAST ATLANTIC AND SOUTHERN OCEAN (ID: 26844)
16:00	Aguirre de Cácer García, D. ; Lopez-Bueno, A.; Pearce, D.; Alcamí, A.: BIODIVERSITY AND DISTRIBUTION OF POLAR FRESHWATER VIRUSES (ID: 26838)	09:45	Zhang, F.; Harir, M.; Zhang, J.; Schmitt-Kopplin, P.; Wu, Y.; Hertkorn, N. : EAST CHINA SEA DISSOLVED ORGANIC MATTER: TRACEABILITY OF OCEAN CURRENTS BY ORGANIC STRUCTURAL SPECTROSCOPY (ID: 26317)
16:15	Modenutti, B. ; Martyniuk, N.; Bastidas Navarro, M.; Balseiro, E.: GLACIAL RECESSION AFFECTING LIGHT CLIMATE IN ANDEAN PATAGONIAN LAKES: IMPLICATIONS FOR PLANKTONIC PHOTOTROPHS (ID: 25430)	10:30	Sato, M. ; Hashihama, F.: CARBON-PHOSPHORUS LYASE ACTIVITIES IN THE SURFACE WATER OF THE NORTH PACIFIC OCEAN AS DETERMINED USING A SYNTHESIZED FLUORESCENT SUBSTRATE (ID: 25762)
17:00	Tartarotti, B. ; Kammerlander, B.; Trattner, F.; Koinig, K. A.; Sommaruga, R.; Sonntag, B.: ENVIRONMENTAL FACTORS INFLUENCING ZOOPLANKTON ABUNDANCE AND VERTICAL DISTRIBUTION IN CLEAR AND TURBID ALPINE LAKES (ID: 27174)	10:45	Koch, B. P. ; LaRowe, D. E.; Fahl, K.; Lechtenfeld, O. J.; Witt, M.; Geibert, W.: PHYSICO-CHEMICAL CONTROLS ON DISSOLVED ORGANIC MATTER TRANSFORMATION (ID: 26880)
17:15	Ask, J. ; Becher, M.; Karlsson, J.: ICE-COVER AND DIC BUILD-UP DURING WINTER: IMPLICATIONS FOR BENTHIC PRIMARY PRODUCTION AND RESPIRATION IN A CLEAR-WATER SUBARCTIC LAKE (ID: 27344)	11:00	Hach, P. F. ; Krupke, A.; Riedel, T.; Marchant, H.; Lavik, G.; Holtappels, M.; Dittmar, T.; Kuypers, M. M.: COMBINED ^{13}C -TRACER INCUBATION WITH ULTRA-HIGH RESOLUTION MASS SPECTROMETRY REVEAL A FAST AND PREFERENTIAL DON UTILIZATION IN THE OLIGOTROPHIC OCEAN (ID: 27134)
17:30	Arp, C. D. ; Jones, B. M.; Whitman, M. S.; Grosse, G.; Townsend-Small, A.; Beaver, J. R.; Hinkel, K. M.: ICE REGIME SHIFT OF ARCTIC THERMOKARST LAKES AND ECOSYSTEM RESPONSES (ID: 25935)	11:15	Yamaguchi, Y. T. ; Broek, T.; McCarthy, M. D.: SOURCES OF DISSOLVED ORGANIC NITROGEN IN THE OCEAN INDICATED BY PRECISE COMPOUND-SPECIFIC NITROGEN ISOTOPE ANALYSIS OF AMINO ACIDS (ID: 27650)
17:45	Giles, M. E. ; Whiteford, E. J.; Anderson, N. J.; Dumbrell, A. J.; Mcgenity, T. J.; Osburn, C. L.; Underwood, G. J.: SPATIAL AND TEMPORAL VARIATION IN THE DISSOLVED ORGANIC MATTER CHARACTERISTICS OF SOUTHWEST GREENLAND LAKES AND ITS IMPLICATIONS FOR CARBON CYCLING (ID: 26957)	11:30	Guo, L. D. ; Lin, P.: ABUNDANCE, SPECIATION AND DISTRIBUTION OF DISSOLVED CARBOHYDRATES IN THE NORTHERN GULF OF MEXICO INFLUENCED BY OIL SPILL (ID: 27456)
18:00	Sommaruga, R. ; Peter, H.; Jeppesen, E.: BACTERIAL COMMUNITY COMPOSITION AND DIVERSITY IN RECENTLY FORMED TURBID LAKES IN SW GREENLAND* (ID: 26027)	11:45	Nieto-Cid, M. ; Martínez-Pérez, A. M.; Catalá, T. S.; San León, H.; Arístegui, J.; Álvarez-Salgado, X. A.: ASSESSING THE SIZE-REACTIVITY CONTINUUM OF DISSOLVED ORGANIC MATTER (DOM) ACROSS THE MEDITERRANEAN SEA (ID: 26533)
18:15	Vincent, W. F. : OBSERVATIONS FROM WARD HUNT LAKE AT CANADA'S FAR NORTHERN COAST: HOW SIMILAR ARE HIGH ARCTIC AND ANTARCTIC LAKES? (ID: 25670)	15:00	Santinelli, C. ; Follett, C.; Retelletti Brogi, S.; Xu, L.; Repeta, D.: RADIOCARBON DATA OPEN NEW INTRIGUING QUESTIONS ABOUT DOM DYNAMICS IN THE MEDITERRANEAN SEA (ID: 27675)
08:30	Aluwihare, L. I. : A KALEIDOSCOPE VIEW OF DISSOLVED ORGANIC MATTER (DOM) CYCLING: COMBINING ANALYTICAL APPROACHES TO PROVIDE A NEW PERSPECTIVE. ^t (ID: 26431)	15:15	Martínez Pérez, A. M. ; Osterholz, H.; Nieto Cid, M.; Dittmar, T.; Álvarez Salgado, X. A.: MOLECULAR CHARACTERIZATION OF DOM IN THE EPI-, MESO- AND BATHYPELAGIC WATER MASSES OF THE MEDITERRANEAN SEA (ID: 26230)
		15:30	Hawkes, J. A. ; Rossel, P. E.; Stubbins, A.; Butterfield, D.; Connelly, D. P.; Achterberg, E. P.; Koschinsky, A.; Chavagnac, V.; Leleu, T.; Dittmar, T.: DISSOLVED ORGANIC CARBON CYCLING IN DEEP-OCEAN HYDROTHERMAL VENTS (ID: 26084)
		15:45	Longnecker, K. ; Sievert, S. M.; Sylva, S. P.; Seewald, J. S.; Kujawinski, E. B.: DISSOLVED ORGANIC MATTER IN HIGH AND LOW TEMPERATURE HYDROTHERMAL VENT FLUIDS (ID: 26286)

WEDNESDAY

022 THE BIOGEOCHEMISTRY OF DISSOLVED ORGANIC MATTER (DOM)

Chair(s): Thorsten Dittmar, thorsten.dittmar@uni-oldenburg.de
Aron Stubbins, aron.stubbins@skio.uga.edu

Location: Auditorium Federico Garcia Lorca (Floor 0)

08:30 **Aluwihare, L. I.**: A KALEIDOSCOPE VIEW OF DISSOLVED ORGANIC MATTER (DOM) CYCLING: COMBINING ANALYTICAL APPROACHES TO PROVIDE A NEW PERSPECTIVE.^t (ID: 26431)

* REPRESENTS INVITED PRESENTATIONS

- 16:00 **Gomez-Saez, G. V.**; Niggemann, J.; Dittmar, T.; Riedel, T.; Pichler, T.; Bühring, S. I.: NATURAL VARIABILITY OF DOM IN SUBMARINE SHALLOW HYDROTHERMAL VENTS (ID: 27180)
- 16:15 **Rossel, P. E.**; Stubbins, A.; Rebling, T.; Koschinsky, A.; Hawkes, J. A.; Dittmar, T.: DISSOLVED ORGANIC MATTER CYCLING IN HYDROTHERMAL SYSTEMS: THE EFFECT OF TEMPERATURE AND PH (ID: 25605)
- 17:00 **Zark, M.**; Riebesell, U.; Dittmar, T.: EFFECTS OF OCEAN ACIDIFICATION ON FORMATION AND TURNOVER OF DISSOLVED ORGANIC MATTER IN A SWEDISH FJORD (ID: 26007)
- 17:15 Dainard, P.; Mokhtar, M.; **Gueguen, C.**; McDonald, N.; Williams, B.; Papakyriakou, T.: PHOTOBLEACHING OF FLUORESCENT DISSOLVED ORGANIC MATTER IN BEAUFORT SEA, HUDSON BAY AND NORTH ATLANTIC SUBTROPICAL GYRE (ID: 27272)
- 17:30 **Panton, A.**; Charoenvattanaporn, J.; Purdie, D. A.: DISSOLVED ORGANIC CARBON AND NITROGEN DYNAMICS ALONG A SALINITY GRADIENT: SEASONAL CYCLES AND THE IMPACT OF STORM EVENTS (ID: 26796)
- 17:45 **Mahmood, A.**; Sander, S. G.; van den Berg, C. M.; Dittmar, T.: ORGANIC SPECIATION OF DISSOLVED-IRON IN MERSEY ESTUARY AND LIVERPOOL BAY USING MULTIPLE ANALYTICAL WINDOWS (ID: 25426)
- 18:00 **Asmala, E.**; Staehr, P. A.; Carstensen, J.: LINKING ECOSYSTEM METABOLISM AND DISSOLVED ORGANIC MATTER IN A SHALLOW TEMPERATE ESTUARY (ID: 25524)
- 18:15 **Jürgens, K.**; Manecki, M.; Dittmar, T.; Herlemann, D.: MICROBIAL DECOMPOSITION OF TERRIGENOUS DISSOLVED ORGANIC MATTER AT DIFFERENT SALINITIES IN THE BALTIK SEA (ID: 26905)

023 BIOGEOCHEMISTRY AND ECOLOGY OF AFRICAN INLAND WATERS

- Chair(s): Steven Bouillon, Steven.Bouillon@ees.kuleuven.be
Alberto Borges, alberto.borges@ulg.ac.be
Francois Darchambeau, Francois.Darchambeau@ulg.ac.be
Jean-Pierre Descy, jean-pierre.descy@fundp.ac.be
- Location: Andalucia 2 (Floor 1)
- 17:00 **Zuijdgeest, A. L.**; Baumgartner, S.; Wehrli, B.: INTENSE CARBON DIOXIDE EVASION FROM THE ZAMBEZI RIVER CROSSING A TROPICAL FLOODPLAIN (ID: 27075)
- 17:15 **Geeraert, N.**; Omengo, F. O.; Borges, A. V.; Govers, G.; Bouillon, S.: SEDIMENT AND CARBON DYNAMICS IN A TROPICAL RIVER-FLOODPLAIN SYSTEM DURING HIGH-DISCHARGE CONDITIONS (TANA RIVER, KENYA) (ID: 25502)
- 17:30 **Bouillon, S.**; Tambwe, E.; Mambo, T.; Kelemen, Z.; Lambert, T.; Darchambeau, F.; Borges, A. V.: BIOGEOCHEMISTRY OF THE CONGO RIVER: ANNUAL TRANSPORT FLUXES AND SOURCES OF CARBON IN THE UPPER CONGO RIVER (KISANGANI, DRC CONGO). (ID: 27067)
- 17:45 **Zhang, L.**; Chen, S. S.; Wang, Z.; KIMIREI, I. A.; Huruma, M.: NITROGEN TRANSFORMATION AND GREENHOUSE GASES POOLS: THE IMPLICATION OF NUTRIENTS AND DISSOLVED GASES PROFILES IN LAKE TANGANYIKA (EAST AFRICA) (ID: 27707)
- 18:00 **Kraemer, B. M.**; Hamann, E.; Vadeboncoeur, Y.; Yu-jung Kim, L.; McIntyre, P. B.: TEMPERATURE SENSITIVITY OF ORGANISMAL AND ECOSYSTEM RESPIRATION RATES IN LAKE TANGANYIKA (ID: 27550)

035 FROM PAST TO PRESENT: OCEAN PRODUCTIVITY AND BIOGEOCHEMISTRY

- Chair(s): Francisca Martinez-Ruiz, fmruiz@ugr.es
Adina Paytan, apaytan@ucsc.edu
Gert de Lange, G.J.deLange@uu.nl
Eva Calvo, ecalvo@icm.csic.es
Isabel Cacho, icacho@ub.edu
- Location: Picasso (Floor -2)
- 08:30 **Galbraith, E. D.**: CLIMATE IMPACT ON OCEAN OXYGENATION AND NITROGEN CYCLING: GROUND TRUTHS FROM THE LAST GREAT GLOBAL WARMING* (ID: 27132)
- 09:00 **Torner, J.**; Cacho, I.; Moreno, A.; Stoll, H.; Belmonte, A.; Sierra, F. J.; Martrat, B.; Hellstrom, J.; Edwards, R. L.; Cheng, H.: OCEAN-ATMOSPHERE EVOLUTION ALONG THE LAST INTERGLACIAL-GLACIAL TRANSITION IN THE WESTERN MEDITERRANEAN REGION: A MULTI-ARCHIVE APPROACH (ID: 27221)
- 09:15 **López-Rodríguez, C.**; Stadnitskaia, A.; De Lange, G. J.; Martínez-Ruiz, F.; Comas, M.; Sinnighe Damsté, J. S.: FLUID VENTING FROM MUD VOLCANOS IN THE WESTERNMOST MEDITERRANEAN EVIDENCED BY LIPID BIOMARKER AND POREWATER COMPOSITION. (ID: 26247)
- 09:30 **Almogi-Labin, A.**; Bar-Matthews, M.; Ayalon, A.; Paterne, M.: CLIMATE, PRODUCTIVITY OR CONNECTIVITY: WHAT CONTROLS THE DISTRIBUTION OF PLANKTONIC FORAMINIFERA IN THE EASTERN MEDITERRANEAN DURING THE LAST 90 KA (ID: 26398)
- 09:45 **Ostle, C.**; Robinson, C.; Johnson, M.; Schuster, U.; Watson, A.; Edwards, M.; Landschützer, P.: INFLUENCE OF PHYTOPLANKTON COMMUNITY STRUCTURE ON CARBON FLUX IN THE NORTH ATLANTIC OCEAN (ID: 25526)
- 10:30 **De Lange, G. J.**; Hennekam, R.; Goudeau, M. L.; Filippidi, A.: REDOX-CONTROLLED PRESERVATION AND INTERRUPTION OF MEDITERRANEAN SAPROPEL-S1 (ID: 25932)
- 10:45 **Scranton, M. I.**; Taylor, G. T.; Muller-Karger, F. E.; Lorenzoni, L.; Fanning, K. A.; Thunell, R. C.; Benitez-Nelson, C. R.; Astor, Y.; Varela, R.: A SOURCE FOR "MISSING" OXIDANT AND REDUCTANT AT THE REDOX INTERFACE OF THE CARIACO BASIN (ID: 25511)
- 11:00 **Margolin, A. R.**; Hansell, D. A.; Rijkenberg, M.; Gerrings, L. J.: DISTRIBUTION OF DISSOLVED ORGANIC CARBON DEFICITS IN THE BLACK SEA (ID: 25933)
- 11:15 **Kemp, A.**; Villareal, T. A.: HIGH DIATOM PRODUCTION AND EXPORT IN STRATIFIED WATERS – A POTENTIAL NEGATIVE FEEDBACK TO GLOBAL WARMING (ID: 25549)
- 11:30 **Jiménez-Arias, J. L.**; Mata, M. P.; Corzo, A.; Sánchez-Bellón, A.; Martínez, J.; Casas-Ruiz, M.; García-Robledo, E.; Bohórquez, J.; Poulton, S. W.; März, C.; Papaspyprou, S.: A MULTIPROXY STUDY DISTINGUISHES ENVIRONMENTAL CHANGES AND DIAGENETIC ALTERATIONS IN THE RECENT SEDIMENTARY RECORD OF THE INNER CADIZ BAY (SW SPAIN) (ID: 26062)

^T REPRESENTS TUTORIAL PRESENTATIONS

- 11:45 **Nieto-Moreno, V.**; Martínez-Ruiz, F.; Sinninghe Damsté, J. S.; Böttcher, M. E.; Mulch, A.; Gallego-Torres, D.; Giralt, S.; García-Orellana, J.; Masqué, P.; Ortega-Huertas, M.: CONTRIBUTION FROM NATURAL CAUSES AND HUMAN ACTIVITIES TO CLIMATE VARIABILITY IN THE WESTERNMOST MEDITERRANEAN OVER THE LAST MILLENNIUM. (ID: 25890)
- 15:00 **Rodríguez-Tovar, F. J.**: ICHNOFABRIC APPROACH TO ASSESSING PAST PRODUCTIVITY CHANGES: THE TOARCIAN AND THE CENOMANIAN/TURONIAN EVENTS (ID: 25692)
- 15:15 **Sosa-Montes de Oca, C.**; Rodríguez-Tovar, F. J.; Martínez-Ruiz, F.: PRODUCTIVITY RECOVERY AFTER THE CRETACEOUS-PALEOGENE BOUNDARY EVENT (ID: 26219)
- 15:30 McKay, C. L.; **Filipsson, H. L.**; Romero, O. E.; Stuut, J. B.; Donner, B.: THE INTERPLAY BETWEEN PRIMARY PRODUCTIVITY AND BOTTOM WATER OXYGENATION WITHIN THE BENGUELA UPWELLING SYSTEM OVER THE LAST 70 000 YEARS (ID: 26901)
- 15:45 **Torres-Crespo, N.**; Martínez-Ruiz, F.; González-Muñoz, M. T.; Bedmar, E. J.; de Lange, G. J.; Jroundi, F.: MICROBIAL BARITE PRECIPITATION UNDER LABORATORY CONDITIONS: IMPLICATIONS FOR PALEOPRODUCTIVITY RECONSTRUCTIONS (ID: 26224)
- 16:00 **Rodrigo-Gámiz, M.**; Rampen, S. W.; Martínez-Ruiz, F.; Schouten, S.; Sinninghe Damsté, J. S.: APPLYING INDEPENDENT ORGANIC TEMPERATURE PROXIES TO RECONSTRUCT SEA SURFACE TEMPERATURES IN THE WESTERN MEDITERRANEAN SEA (ID: 26502)
- 16:15 **Bermejo, M.**; Cacho, I.; Frigola, J.; Canals, M.; Masqué, P.; Lirer, F.; Margaritelli, G.; García, A.: SEA SURFACE TEMPERATURE AND WESTERN MEDITERRANEAN DEEP WATER VARIABILITY DURING THE LAST 2.700 YR: HIGH-RESOLUTION MULTIPROXY MARINE RECORDS (ID: 27026)
- 17:00 **Stramska, M.**: PARTICULATE ORGANIC CARBON IN THE SURFACE WATERS OF THE NORTH ATLANTIC: SPATIAL AND TEMPORAL VARIABILITY BASED ON SATELLITE OCEAN COLOR (ID: 26202)
- 17:15 Lee, Y.; **Matrai, P. A.**; Friedrichs, M.; Saba, V.: PPARR-5 ARCTIC OCEAN: A NET PRIMARY PRODUCTIVITY ALGORITHM ROUND ROBIN – OCEAN COLOR AND REGIONAL CLIMATE MODELS (ID: 26414)
- 17:30 **Richardson, K.**; Bendtsen, J.: MORE PRIMARY PRODUCTION MAY BE OCCURRING IN OLIGOTROPHIC REGIONS OF THE OCEAN THAN PREVIOUSLY ESTIMATED (ID: 26760)
- 17:45 **Kowalski, N.**; Kaiser, D.; Wu, Z.; Dellwig, O.; Schütt, J.; Unger, D.; Böttcher, M. E.: EARLY DIAGENETIC ELEMENT CYCLING IN THE BEIBU GULF (SOUTH CHINA SEA) (ID: 27296)
- 18:00 **Steinle, L.**; Felber, N.; Tessarolo, C.; Zopfi, J.; de Lange, G.; Stadnitskaia, A.; Sinninghe Damsté, J. S.; Lehmann, M. F.; Treude, T.; Niemann, H.: MICROBIAL LIFE IN EXTREME ENVIRONMENTS: THE DEEP-SEA HYPERSALINE MAGNESIUMCHLORID-BRINE BASIN KRYOS (MEDITERRANEAN SEA) (ID: 26947)
- 18:15 **Edgcomb, V. P.**; Pachiadaki, M. G.; Kormas, K. A.; Taylor, C.; Bernhard, J. M.: CROSS-DOMAIN MICROBIAL INTERACTIONS AND PROCESSES IN DEEP HYPERSALINE ANOXIC BASIN WATER COLUMNS AND SEDIMENTS (ID: 26369)

036 HUMAN AND JELLYFISH INTERACTIONS

- Chair(s): Veronica Fuentes, vfuentes@icm.csic.es
Stefano Piraino, stefano.piraino@unisalento.it
Macarena Marambio, marambio@icm.csic.es
Jennifer E. Purcell, purcelj3@wwu.edu
- Location: Seminario 3-4-5 (Floor 1)
- 08:45 **Fuentes, V. L.**; Marambio, M.; Piraino, S.; Deidun, A.; Kéfi-Daly Yahia, O.; Daly Yahia Mohamed, N.; Canepa, A.; Boero, F.: ROLE OF CITIZEN SCIENCE IN JELLYFISH RESEARCH AND MANAGEMENT: THE MEDJELLYRISK PROJECT'S APPROACH (ID: 27083)
- 09:00 **Marambio, M.**; López, L.; Kéfi-Daly Yahia, O.; Daly Yahia, N.; Deidun, A.; Piraino, S.; Fuentes, V.: MITIGATION TOOLS FOR JELLYFISH IMPACT IN COASTAL AREAS THROUGH COLLABORATIVE CITIZEN SCIENCE APPROACH (ID: 26879)
- 09:15 **Canepa Oneto, A.**; Saeta, I.; Barcà, A.; Fuentes, M.; Marambio, M.; Deidun, A.; Kéfi-Daly Yahia, O.; Daly Yahia, N.; Piraino, S.; Fuentes, V.: FORECASTING JELLYFISH BLOOMS ALONG THE CATALAN COAST: A CITIZEN SCIENCE-BASED MODEL AND AN ON-LINE APP TO PAY IT FORWARD (ID: 26793)
- 09:30 **Brotz, L.**; Pauly, D.: FISHING FOR JELLYFISH: WHAT'S THE CATCH? (ID: 26427)
- 09:45 **Sabatés, A.**; Maynou, F.; Fuentes, V. L.; Tomlinson, B.; Canepa, A.: INTERACTION BETWEEN JELLYFISH BLOOMS AND FISHERIES ALONG THE CATALAN COAST: THE ROLE OF CITIZEN SCIENCE (ID: 27355)
- 10:30 **Tilves, U.**; Fuentes, V. L.; Raya, V.; Sabatés, A.: CHARACTERIZATION OF THE ASSOCIATION BETWEEN FISH JUVENILES AND JELLYFISH IN THE CATALAN COAST (NW MEDITERRANEAN) (ID: 26873)
- 10:45 **Acevedo, M. J.**; Canepa, A.; Zappu, S.; Bosch-Belmar, M.; Alonso, C.; Bordehore, C.; Calbet, A.; Fuentes, V.: COASTAL EUTROPHICATION MAY DRIVE THE NATIVE SPECIES *CARYBDEA MARSUPIALIS* (CNIDARIA: CUBOZOA) TO AN “INVADER STATUS” IN THE MEDITERRANEAN (ID: 26656)
- 11:00 Nakar, N.; **Angel, D. L.**; Disegni, D.: IMPACT OF AN INVASIVE SWARMING SCYPHOMEDUSA ON ISRAELI FISHERIES (ID: 26885)
- 11:15 **Slesinger, E. T.**; Smayda, T.; Borkman, D.: MULTI-DECadal VARIABILITY IN *MNEMIOPSIS LEIDYI* ABUNDANCE IN NARRAGANSETT BAY: CLIMATE CHANGE OR PREY MEDIATED? (ID: 26409)
- 11:30 **Bordehore, C.**; Fuentes, V. L.; Segarra, J. G.; Acevedo, M.; Canepa, A.; Raventós, J.: EVALUATING THEORETICAL MANAGEMENT STRATEGIES FOR THE BOX JELLYFISH *CARYBDEA MARSUPIALIS* USING A MATRIX POPULATION MODEL (INVERSE METHOD FOR TIME SERIES) (ID: 26064)
- 11:45 **Bozman, A.**; Titelman, J.; Aksnes, D.: EFFECTS OF IRRADIANCE AND ZOOPLANKTON ON THE VERTICAL MIGRATION OF PERIPHYLLA PERIPHYLLA (ID: 26236)
- 15:00 **Pascual, M.**; Fuentes, V.; Acuña, J. L.; Leone, M.; Guerrero, E.; Tilves, U.; Raya, V.; Sabatés, A.: SPATIAL DISTRIBUTION OF SALPS IN THE CATALAN SEA, NORTH WESTERN MEDITERRANEAN (ID: 26057)
- 15:15 **González, R.**; Damian, A.; Fuentes, V.; Tilves, U.; Acevedo, M.; Canepa, A.; Ziveri, P.: CNIDARIAN ZOOPLANKTON DISTRIBUTION ACROSS GEOGRAPHICAL, VERTICAL, BIOTIC AND ABIOTIC GRADIENTS IN THE MEDITERRANEAN SEA (ID: 27041)

WEDNESDAY

- 15:30 **Javidpour, J.**; Hilbisch, M.; Aberle-Malzahn, N.; López Abbaté , M. M.; Ismar, S.; Weiland , N.; Neulinger, S.; Scotti, M.: THE END OF THE "DEAD-END": JELLYFISH BLOOM FOSTERS MORE JELLYFISH (ID: 26616)
- 15:45 **Baba, R.**; Oba, J.; Kamide, H.: TRANSIENT RESPONSE IN THE SWIMMING BEHAVIOR OF MOON JELLYFISH UPON MODULATED ILLUMINATION STUDIED BY THE FREQUENCY DOMAIN VIDEO IMAGE ANALYSIS (ID: 27738)
- 16:00 **Lombard, F.**; Patwa, A.; Thiéry, A.; Lilley, M. K.; Boisset, C.; Bramard, J. f.; Bottero, J. Y.; Berthélémy, P.: USING JELLYFISH MUCUS TO TRAP NANOPARTICLES FROM WASTE WATERS WORKS (ID: 26863)
- 16:15 **Kogovsek, T.**; Ikeda, H.; Takao, M.; Uye, S.: SCYPHOZOAN SURVIVAL STRATEGIES WITH EMPHASIS ON STARVATION RESISTANCE IN EPHYRAE (ID: 27225)

040 HIGH THROUGHPUT MOLECULAR TOOLS IN AQUATIC ECOLOGY

- Chair(s): Marc E. Frischer, marc.frischer@skio.uga.edu
Christofer Troedsson, Christofer.Troedsson@uni.no
- Location: Seminario 6-7 (Floor 1)
- 15:00 **Edvardsen, B.**; Egge, E. S.; Stadniczeñko, S. G.; Johannessen, T. V.; Larsen, A.; Sandaa, R.; Andersen, T.: DIVERSITY, SEASONAL DYNAMICS AND BIOTIC INTERACTIONS IN MARINE PHYTOPLANKTON AND VIRUS COMMUNITIES (ID: 27504)
- 15:15 **Genitsaris, S.**; Monchy, S.; Christaki, U.: HIGH-THROUGHPUT MOLECULAR TOOLS REVEAL NOVEL UNICELLULAR EUKARYOTES AND HIGHLIGHT OVERLOOKED ECOLOGICAL ROLES IN MARINE PROTIST COMMUNITIES (ID: 26097)
- 15:30 **Ray, J. L.**; Skaar, K. S.; Simonelli, P.; Larsen, A.; Troedsson, C.: PREY-SPECIFIC QPCR AND PYROSEQUENCING OF UNIVERSAL 18S AMPLICONS FROM SEAWATER AND COPEPOD GUT CONTENT (ID: 25570)
- 15:45 **Balseiro, P.**; Sandnes Skaar, K.; Strohmeier, T.; Strand, Ø.; Kjelby, M.; Frischer, M. E.; Troedsson, C.: MOLECULAR TROPHIC INTERACTION BETWEEN BLUE MUSSEL AND THEIR PREY IN A CONTROLLED UP-WELLING SYSTEM IN LYSEFJORDEN, NORWAY, USING NEXT GENERATION SEQUENCING (ID: 25744)
- 16:15 **Pernice, M. C.**; Giner, C. R.; Logares, R.; Perea, J.; Massana, R.: DIVERSITY OF MARINE MICROEUKARYOTES IN THE GLOBAL DEEP OCEAN (ID: 26922)
- 17:00 **Moreno-Linares, E. J.**; Conde-Porcuna, J. M.; Perez-Martinez, C.; Gomez, A.: DNA BARCODING OF ROTIFERS FROM ECOLOGICALLY DIVERSE AQUATIC SYSTEMS (ID: 27135)
- 17:15 **Harvey, J. B.**; Johnson, S. B.; McCann, M.; Vrijenhoek, R. C.: MOLECULAR VERSUS MORPHOLOGICAL METHODS: IDENTIFYING ZOOPLANKTON COLLECTED IN PLANKTON NET TOWS (ID: 25732)
- 17:30 Danks, G. B.; Subramaniam, G.; Campsteijn, C.; Raasholm, M.; Long, A. M.; Lenhard, B.; Manak, J. R.; **Thompson, E. M.**: HIGH RESOLUTION TILING ARRAYS: MECHANISMS OF GROWTH ARREST AND RECOVERY IN REGULATING POPULATION DYNAMICS OF OIKOPLEURA, A KEY COMPONENT OF PELAGIC COMMUNITIES (ID: 25597)

- 17:45 **Bengtsson, M. M.**; Wagner, K.; Burns, N. R.; Schwab, C.; Urich, T.; Battin, T. J.: LIGHT REGIME IMPACTS METATRANSCRIPTOMIC PROFILES IN MULTIPLE TROPHIC LEVELS OF A STREAM BIOFILM COMMUNITY (ID: 27434)
- 18:00 **Gröndahl, S.**; Fink, P.: THE BEST OF TWO WORLDS: A COMBINED APPROACH FOR ANALYZING BENTHIC ALGAL COMMUNITY STRUCTURE VIA NGS AND TRADITIONAL MORPHOLOGICAL METHODS (ID: 26768)
- 18:15 **Bryson, S. J.**; Kieft, B. P.; Li, Z.; Pett-Ridge, J.; Hettich, R.; Pan, C.; Mayali, X.; Mueller, R.: SHIFTS IN THE STRUCTURE OF A NORTH PACIFIC MICROBIAL COMMUNITY IN RESPONSE TO NUTRIENT SUPPLEMENTATION AS DETECTED BY METAGENOMICS (ID: 27638)

045 ADDRESSING REGIONAL OR GLOBAL QUESTIONS ABOUT TROPHIC ECOLOGY USING LIPIDS OR STABLE ISOTOPE RATIOS

- Chair(s): Nicole B. Richoux, n.richoux@ru.ac.za
Bailey McMeans, bcmcmeans@gmail.com
Tarik Meziane, meziane@mnhn.fr
- Location: Room B (Floor -3)
- 08:30 **Strandberg, U.**; Hiltunen, M.; Jelkänen, E.; Kankaala, P.: TROPHIC TRANSFER OF POLYUNSATURATED FATTY ACIDS IN LARGE BOREAL LAKES (ID: 25493)
- 08:45 **Hiltunen, M.**; Taipale, S. J.; Strandberg, U.; Kahlainen, K. K.; Kankaala, P.: FATTY ACID COMPOSITION OF *EUDIAPTOMUS* spp. IN BOREAL AND SUBARCTIC LAKES (ID: 25976)
- 09:00 **Berggren, M.**; Karlsson, J.; Ziegler, S. E.; Bergström, A. K.; del Giorgio, P. A.: ALLOCHTHONY IN MAJOR GROUPS OF CRUSTACEAN ZOOPLANKTON IN BOREAL LAKES – STRONGLY CONTRASTING PATTERNS ACROSS SPACE AND TIME (ID: 25987)
- 09:15 **Gladyshev, M. I.**; Sushchik, N. N.; Makhutova, O. N.; Kravchuk, E. S.; Kalachova, G. S.: STABLE ISOTOPE COMPOSITION OF FATTY ACIDS IN TROPHIC CHAIN OF THE YENISEI RIVER (ID: 25584)
- 09:30 **Rodgers, C.**; Rennie, M.; Higgins, S.; Blanchfield, P.: VALIDATING THE USE OF STABLE ISOTOPES IN EVALUATING WHOLE-ECOSYSTEM CHANGES (ID: 27629)
- 09:45 **Richoux, N. B.**; Bergamino, L.; Moyo, S.; Dalu, T.; Chari, L.; Carassou, L.; Villet, M. H.: CONNECTIVITY THROUGH ALLOCHTHONY: RECIPROCAL LINKS BETWEEN ADJACENT AQUATIC AND TERRESTRIAL ECOSYSTEMS IN SOUTH AFRICA (ID: 25560)
- 10:30 **Moulton, T. P.**; Neres-Lima, V.; Machado-Silva, F.; Heatherly , T.; Zandonà, E.: THE AUTOCHTHONOUS-ALLOCHTHONOUS DEBATE IN TROPICAL STREAMS – IS THE TIPPING POINT MORE SHADY? (ID: 26323)
- 10:45 **Abril, M.**; Bastias, E.; von Schiller, D.; Martí, E.; Sabater, F.; Sabater, S.; Menéndez , M.; Muñoz, I.: MICROBIAL UPTAKE AND TROPHIC TRANSFER OF CARBON AND NITROGEN IN A MEDITERRANEAN FORESTED STREAM (ID: 26016)
- 11:00 **Ribot, M.**; von Schiller , D.; Martí, E.: NITROGEN SPIRALING IN STREAM ECOSYSTEMS: DOES THE NITROGEN SPECIE MATTER? (ID: 26759)

11:15	Llopiz, J. K. ; Thorrold, S. R.: DECADAL-SCALE CHANGES IN THE GEORGES BANK ECOSYSTEM: EVIDENCE FROM BULK AND COMPOUND-SPECIFIC STABLE ISOTOPE ANALYSES OF FISH SCALES (ID: 27699)	09:15	Roberts, S. ; McGowan, S.; Swann, G.; Mackay, A.; Panizzo, V.; Vologina, E.: INVESTIGATING ANTHROPOGENIC AND CLIMATIC PERTURBATIONS AT LAKE BAIKAL, SIBERIA, THROUGH WATER AND SURFACE SEDIMENT PIGMENTS (ID: 26033)
11:30	Mohr, W. ; Tang, T.; Bovee, R. J.; Sattin, S. R.; Pearson, A.: PROTEIN STABLE ISOTOPE FINGERPRINTING (P-SIF): A NEW TOOL TO UNDERSTAND NATURAL ISOTOPIC HETEROGENEITY OF MIXED MICROBIAL ECOSYSTEMS (ID: 26244)	09:30	Ozersky, T. ; Deng, X.; Moore, M. V.; Pastukhov, M. V.; Poste, A. E.: USING SEAL TEETH TO RECONSTRUCT 80 YEARS OF HEAVY METAL POLLUTION IN LAKE BAIKAL (ID: 26207)
11:45	Bentaleb, I. ; Bosch, D.; Roubira, P.: MEDITERRANEAN FIN WHALES IN A CHANGING ENVIRONMENT : A MULTI PROXY GEOCHEMICAL STUDY OF BALEEN PLATE ARCHIVES (ID: 26840)	09:45	Poste, A. E. ; Pastukhov, M. V.; Moore, M. V.; Ozersky, T.: CONTEMPORARY AND HISTORICAL HG ACCUMULATION IN THE LAKE BAIKAL SEAL: PATTERNS, PREDICTORS AND TOXICOLOGICAL IMPLICATIONS (ID: 26866)
15:00	Happel, A. ; Rinchard, J.; Czesny, S.: FISH CAN BE DIFFERENTIATED BY FATTY ACID SIGNATURES REGARDLESS OF WITHIN SPECIES SIGNIFICANT VARIATIONS (ID: 27055)	10:30	Bedulina, D. S. ; Axenov-Gribanov, D. V.; Gurkov, A. N.; Vereshchagina, K. P.; Luckenbach, T.; Timofeyev, M. A.: CELLULAR STRESS-RESPONSE IN BAIKAL AND PALEARCTIC AMPHIPODS: WILL GLOBAL CHANGE AFFECT AMPHIPOD COMMUNITIES IN LAKE BAIKAL (ID: 27310)
15:15	Lichti, D. A. ; Rinchard, J.; Kimmel, D. G.: CHANGES IN THE ZOOPLANKTON COMMUNITY FATTY ACID PROFILES AT THE FRESHWATER/SALTWATER INTERFACE: IMPLICATIONS FOR LARVAL FISH GROWTH AND SURVIVAL (ID: 25548)	10:45	Spanbauer, T. L. ; Fritz, S. C.: EVOLUTIONARY CHANGE IN A DOMINANT PHYTOPLANKTON SPECIES COMPLEX IN LAKE TITICACA DURING THE LAST ~370,000 YEARS (ID: 25554)
15:30	Copeman, L. A. ; Laurel, B. J.; Heintz, R. A.; Vollenweider, J. J.; Boswell, K. M.: ONTOGENETIC VARIABILITY IN TROPHIC BIOMARKERS OF SAFFRON COD (<i>ELEGINUS GRACILIS</i>) FROM THE WESTERN ARCTIC AND NORTHERN PACIFIC. (ID: 25749)	11:00	Moore, M. V. ; Hampton, S. E.; Ferwerda, C. J.; Gray, D. K.; Ozersky, T.; Silow, E. A.; Woo, K.: LAKE-WIDE PHYSICAL AND BIOLOGICAL TRENDS ASSOCIATED WITH WARMING IN LAKE BAIKAL (ID: 27091)
15:45	Lienart, C. ; Feunteun, E.; Miller, M. J.; Mortillaro, J. M.; Hubas, C.; Kuroki, M.; Otake, T.; Tsukamoto, K.; Meziane, T.: LEPTOCEPHALI TROPHIC ECOLOGY IN WESTERN SOUTH PACIFIC : WHAT DO FATTY ACID AND STABLE ISOTOPE TELL US ? (ID: 27056)	11:15	Jensen, O. P. ; Mendsaikhan, B.; Free, C.; Young, T.; Ahrenstorff, T.; Hrabik, T.; Weidel, B.; Chandra, S.: GEOLOGICALLY OLD, ECOLOGICALLY YOUNG: ECOSYSTEM ORGANIZATION AND CHANGE IN LAKE HOVSGOL, MONGOLIA (ID: 27349)
16:00	Kohlbach, D.; Graeve, M. ; David, C.; Lange, B. A.; Flores, H.: DYNAMICS IN DIET SOURCES OF ANTARCTIC KRILL SPECIES REVEALED BY LIPID AND STABLE ISOTOPE ANALYSES (ID: 26919)	11:30	O'Donnell, D. R. ; Wilburn, P.; Yampolsky, L.; Litchman, E.: NITROGEN AND PHOSPHORUS CO-LIMIT PRIMARY PRODUCTION IN LAKE BAIKAL: RESULTS OF A SPATIAL SURVEY AND NUTRIENT ENRICHMENT EXPERIMENTS (ID: 27178)
16:15	Garrido, S. ; Silva, A.; Maguas, C.; Bandarra, N.; Pastor, J.; Dominguez, R.; Santos, A. M.: TROPHIC INTERACTIONS OF PELAGIC FISHES IN THE IBERIAN UPWELLING ECOSYSTEM: STABLE ISOTOPES, FATTY ACIDS AND STOMACH CONTENT ANALYSIS (ID: 27559)	11:45	Silow, E. A. ; Shimaraeva, S. V.; Krashchuk, L. S.; Onuchin, K. A.; Pislegina, E. V.; Rusanovskaya, O. O.; Shchapov, K. S.: RECENT EFFECTS OF HUMAN ACTIVITIES ON LAKE BAIKAL ECOSYSTEM (ID: 25564)

046 RECENT ECOLOGICAL CHANGE IN ANCIENT LAKES

Chair(s):	Stephanie E. Hampton, s.hampton@wsu.edu Sheri C. Fritz, sfritz2@unl.edu
	Anson W. Mackay, ans.mackay@ucl.ac.uk
	Marianne V. Moore, mmoore@wellesley.edu
	George E. A. Swann, george.swann@nottingham.ac.uk
Location:	Seminario 6-7 (Floor 1)
08:30	Timoshkin, O. A. : INTERDISCIPLINARY RESEARCH OF THE COASTAL ZONE OF LAKE BAIKAL (EAST SIBERIA): DELAYED EVIDENCE OF "INDIRECT" EUTROPHICATION? (ID: 26153)
08:45	Swann, G. E. ; Panizzo, V. N.; Mackay, A. W.; Roberts, S.; Vologina, E.; Horstwood, M. S.: CAN SILICON ISOTOPES BE USED TO ASSESS ANTHROPOGENIC IMPACTS AND NUTRIENT UTILISATION IN LAKE BAIKAL, SIBERIA? (ID: 26535)
09:00	McGowan, S. ; Roberts, S.; Swann, G. E.; Mackay, A. W.; Panizzo, V. N.; Vologina, E. G.: LIMNOLOGICAL CHANGE IN LAKE BAIKAL OVER THE PAST MILLENNIUM INFERRED FROM SEDIMENTARY STABLE ISOTOPES AND ALGAL PIGMENTS (ID: 26713)

Chair(s):	Kim Currie, Kimc@chemistry.otago.ac.nz Monica Orellana, Monica.Orellana@systemsbiology.org
Location:	Andalucia 1 (Floor 1)
08:45	Newton, J. A. ; Jewett, E. B.; Williamson, P.: THE GLOBAL OCEAN ACIDIFICATION OBSERVING NETWORK (GOA-ON) (ID: 26411)
09:00	De Carlo, E. H. ; Terlouw, G.; Drupp, P. S.; Mackenzie, F. T.; Sabine, C. L.; Musielewicz, S.; Sutton, A.: HIGH-RESOLUTION TIME-SERIES CO ₂ DATA FROM CORAL REEFS ON OAHU, HAWAII: CHANGES AND OCEAN ACIDIFICATION (ID: 27433)
09:15	Currie, K. I. ; Murdoch, J.; Marriner, A.; Law, C.: SETTING UP A COASTAL OCEAN ACIDIFICATION OBSERVING NETWORK IN NEW ZEALAND (ID: 25961)

WEDNESDAY

- 09:30 **Cantoni, C.**; Barba, L.; Bastianini, M.; Bortoluzzi, G.; Celio, M.; Chiggiato, J.; Cozzi, S.; Luchetta, A.; Ravaioli, M.; Sparnocchia, S.: A MULTISCALE OBSERVING APPROACH FOR UNDERSTANDING ACIDIFICATION PROCESS IN A MARGINAL SEA (NORTHERN ADRIATIC). (ID: 27128)
- 10:30 **Ríos, A. E.**; Resplandy, L.; García-Ibáñez, M. I.; Fajar, N. M.; Velo, A.; Padin, X. A.; Wanninkhof, R.; Steinfeldt, R.; Roson, G.; Pérez, F. F.: DECadal ACIDIFICATION IN THE WATER MASSES OF THE ATLANTIC OCEAN (ID: 26652)
- 10:45 **DeGrandpre, M.**; Islam, F.; Krishfield, R.; Toole, J.; Evans, W.; Williams, B.: AIR-SEA CO₂ FLUXES IN THE BEAUFORT SEA AND IMPLICATIONS FOR OCEAN ACIDIFICATION (ID: 27243)
- 11:00 **Hendriks, I. E.**; Duarte, C. M.; Chierici, M.: PATHWAYS OF ARCTIC OCEAN ACIDIFICATION (ID: 25985)
- 11:15 Fuentes, J. D.; Troxler, T.; **Barr, J. G.**; Gaiser, E.; Fourqrean, J.; Malone, S. L.; Starr, G.; Skla, F.; Rudnick, D. T.; Davis, S.: CARBON CYCLE SCIENCE IN THE FLORIDA COASTAL EVERGLADES: RESEARCH TO INFORM CARBON AND WATER MANAGEMENT (ID: 27429)
- 11:30 **Montserrat, E.**; Renforth, P.; Way, S.; Meysman, F. J.: MITIGATION OF OCEAN ACIDIFICATION THROUGH ENHANCED MINERAL WEATHERING (ID: 25920)
- 15:00 **James, A. K.**; Carlson, C. A.; Passow, U.; Brzezinski, M. A.; Trapani, J. N.; Parsons, R.: ELEVATED PCO₂ INCREASES RESPIRATION OF DOC BY NATURAL BACTERIOPLANKTON (ID: 27291)
- 15:15 **White, M. M.**; Lubelczyk, L. C.; Waller, J. D.; Drapeau, D. T.; Bowler, B. C.; Vermont, A.; Fields, D. M.; Balch, W. M.: DISSOLUTION OF PLEUROCHRYYSIS CARTERAE COCCOLITHS IN ACARTIA TONSA GUTS: TESTING THE TUMS HYPOTHESIS (ID: 26456)
- 15:30 **Ramajo, L.**; Perez-Leon, E.; Hendriks, I. E.; Marbá, N.; Krause-Jensen, D.; Sejr, M.; Blicher, M.; Lagos, N. A.; Olsen, Y.; Duarte, C. M.: DRIVERS OF MOLLUSC PERFORMANCE: FOOD SUPPLY VS. CARBONATE SATURATION STATE (ID: 25707)
- 16:00 **Roggatz, C. C.**; Lorch, M.; Benoit, D. M.; Hardege, J. D.; Terschak, J. A.; Wäge, J.: OCEAN ACIDIFICATION AFFECTS SIGNALLING MOLECULES OF MARINE INVERTEBRATES (ID: 27186)

056 AQUATIC MICROBES IN A DROP OF WATER: FROM SINGLE CELLS TO COMMUNITY INTERACTIONS

- Chair(s): Dr Joseph Christie-Oleza, j.christie-oleza@warwick.ac.uk
Dr Cristiana Callieri, c.callieri@ise.cnr.it
Prof David Scanlan, D.J.Scanlan@warwick.ac.uk
- Location: Press Room (Floor 2)
- 15:00 **Christie-Oleza, J. A.**; Armengaud, J.; Scanlan, D. J.: THE ECONOMY OF MARINE SYSTEMS, NUTRIENTS MUST CIRCULATE (ID: 25848)
- 15:15 **Stepanauskas, R.**: WIRETAPPING MICROBIAL INTERACTIONS BY SINGLE CELL GENOMICS^T (ID: 25450)
- 15:45 **Salcher, M. M.**; Ewert, C.; Šimek, K.; Kasalický, V.; Posch, T.: INTERSPECIFIC COMPETITION AND GRAZING AFFECT THE GROWTH SUCCESS OF FRESHWATER BETAPROTEOBACTERIA (ID: 25710)

- 16:00 **Li, W.**; Podar, M.; Morgan-Kiss, R.: DIVERSITY, METABOLIC VERSATILITY AND POTENTIAL INTERACTIONS OF MICROBIAL EUKARYOTES (PROTISTS) RESIDING IN ICE-COVERED ANTARCTIC LAKES (ID: 26307)
- 16:15 **Vaulot, D.**; Lopes dos Santos, A.; Pollina, T.; Corre, E.: PICOEUCARYOTE METAGENOMES FROM THE SOUTH-EASTERN PACIFIC OCEAN* (ID: 26864)
- 17:00 **Callieri, C.**; Amalfitano, S.; Corno, G.; Di Cesare, A.; Bertoni, R.: FRESHWATER *SYNECHOCOCCUS* PHYLOTYPE SHOW DIFFERENCES IN MICROCOLONY FORMATION INDUCED BY NANOFLAGELLATE GRAZING (ID: 25793)
- 17:15 **Rodríguez-Valera, F. F.**; Mizuno, C.; Ghai, R. R.: DIVERSITY OF PHAGES IN A SINGLE DEEP CHLOROPHYLL MAXIMUM SAMPLE* (ID: 25447)
- 17:30 **Bryson, S.**; Li, Z.; Pett-Ridge, J.; Hettich, R.; Mayali, X.; Pan, C.; Mueller, R.: IDENTIFYING FUNCTIONAL GUILDS WITHIN MARINE MICROBIAL COMMUNITIES USING PROTEOMICS-SIP (ID: 27727)
- 17:45 **Pierce, M. L.**; Ward, J. E.: INDICATION FOR A CONSERVED MICROBIOME BETWEEN BIVALVE SHELLFISH: INFLUENCE OF MARINE SNOW AND AGGREGATE-FREE SEAWATER (ID: 27259)
- 18:00 **Shabarova, T.**; Salcher, M. M.; Kasalický, V.; Posch, T.; Pernthaler, J.; Šimek, K.: A NEW FISH PROBE REVEALED HIGH ENVIRONMENTAL RELEVANCE OF LIMA LINEAGE OF THE GENUS LIMNOHABITANS (ID: 27036)
- 18:15 **Yahel, G.**; Dadon-Pilosof, A.; Richter, M.; Steindler, L.; Sutherland, K. R.; Lombard, F.; Conley, K.; Tikochinski, Y.; Gilboa, M.; Genin, A.: TEFLON BACTERIA? CAN PELAGIBACTER UBIQUE, THE MOST ABUNDANT BACTERIUM IN THE OCEAN, EVADE PREDATION BY SLIPPING THROUGH MUCUS NETS? (ID: 25657)

068 EVOLUTIONARY EFFECTS OF OCEAN WARMING AND ACIDIFICATION

- Chair(s): Sam Dupont, sam.dupont@bioenv.gu.se
Piero Calosi, piero.calosi@plymouth.ac.uk
Frank Melzner, fmelzner@geomar.de
Pierre de Wit, pierre.de_wit@bioenv.gu.se
Peter Thor, peter.thor@npolar.no
David Fields, dfields@bigelow.org

- Location: Machado (Floor -2)
- 08:30 **Pespeni, M. H.**: MECHANISMS OF RESILIENCE IN FUTURE CLIMATE CONDITIONS: INTEGRATING GENOMICS, PHYSIOLOGY AND ECOLOGY TOWARD A PREDICTIVE FRAMEWORK* (ID: 27693)
- 08:45 **Walworth, N. G.**; Fu, F. X.; Webb, E. A.; Saito, M. A.; Moran, D.; McIlvin, M. R.; Gale, J.; Johnson, C.; Hutchins, D. A.: COMPARATIVE FUNCTIONAL GENOMICS AND EPIGENOMICS OF TRICHODESMIUM ADAPTED TO LONG-TERM ELEVATED CO₂ UNDER SIMULTANEOUS IRON AND PHOSPHORUS CO-LIMITATION (ID: 25521)
- 09:00 **Fitzer, S. C.**; Cusack, M.; Phoenix, V. R.; Kamenos, N. A.: OCEAN ACIDIFICATION REDUCES THE CRYSTALLOGRAPHIC CONTROL IN JUVENILE MUSSEL SHELLS (ID: 25704)
- 09:15 **Schlüter, L.**; Lohbeck, K. T.; Riebesell, U.; Reusch, T. B.: ADAPTATION OF A GLOBALLY IMPORTANT COCCOLITHOPHORE TO OCEAN ACIDIFICATION AND WARMING (ID: 26605)

- 09:30 **Shama, L. N.**; Strobel, A.; Mark, F. C.; Wegner, K. M.: ACUTE VS. DEVELOPMENTAL ACCLIMATION SHAPES PARENTAL AND GRANDPARENTAL EFFECTS OF OCEAN WARMING ON MARINE STICKLEBACKS (ID: 26201)
- 09:45 Jarrold, M. D.; Rodríguez-Romero, A.; Massamba-N'Siala, G.; Spicer, J. I.; **Calosi, P.**: TRANS-GENERATIONAL PLASTICITY AND RAPID EVOLUTIONARY ADAPTATION TO CHANGES IN PCO₂ IN A POLYCHAETE WORM: RESULTS FROM A LABORATORY SELECTION EXPERIMENT (ID: 25918)
- 10:30 **Reusch, T. B.**: A REVIEW OF MULTI-GENERATIONAL EXPERIMENTS IN MARINE PHYTOPLANKTON* (ID: 25763)
- 10:45 **Thor, P.**; Dupont, S.: TRANSGENERATIONAL BUFFERING ALLEVIATES SEVERE EFFECTS OF OCEAN ACIDIFICATION IN A UBIQUITOUS PLANKTONIC COPEPOD (ID: 25906)
- 11:00 **De Wit, P.**; Thor, P.; Dupont, S.: MULTI-GENERATION EXPERIMENT SUGGESTS OA-BASED SELECTION ON RNA SYNTHESIS AND TRANSLATION IN COPEPODS (ID: 25640)
- 11:15 **Pedersen, S. A.**; Häkadal, O. J.; Salaberria, I.; Tagliati, A.; Gustavson, L. M.; Janssen, B. M.; Olsen, A. J.; Altin, D.: MULTIGENERATIONAL EXPOSURE TO OCEAN ACIDIFICATION DURING FOOD LIMITATION REVEALS CONSEQUENCES FOR COPEPOD SCOPE FOR GROWTH AND VITAL RATES (ID: 27745)
- 11:30 **Donelson, J. M.**; Miller, G. M.; Welch, M. J.; McCormick, M. I.; Munday, P. L.: TRANSGENERATIONAL PLASTICITY TO CLIMATE CHANGE AND OCEAN ACIDIFICATION IN REEF FISHES (ID: 26519)
- 11:45 Friis Moller, L.; Jonsson, P.; Reusch, T.; **Dupont, S.**: IMPACT OF THE RATE OF CHANGE ON ADAPTATION: RESPONSE OF MNEMIOPSIS LEIDYI TO LOW SALINITY THROUGH MULTIPLE GENERATIONS (ID: 27373)

080 DIAPAUSE STRATEGIES IN AQUATIC ORGANISMS: ECOLOGICAL AND EVOLUTIONARY CONSEQUENCES

Chair(s): Luc Brendonck, luc.brendonck@bio.kuleuven.be
José María Conde-Porcuna, jmconde@ugr.es

Location: Andalucia 2 (Floor 1)

- 08:30 **Slusarczyk, M.**; Starzynski, J.; Bernatowicz, P.: HOW LONG TO REST IN UNPREDICTABLY CHANGING HABITATS? (ID: 26356)
- 08:45 **Pinceel, T.**; Vanschoenwinkel, B.; Brendonck, L.: DORMANCY STRATEGIES IN THE VARIABLE AND UNCERTAIN TEMPORARY POOL ENVIRONMENT – A BLEND OF PHENOTYPIC PLASTICITY AND BET HEDGING (ID: 25827)
- 09:00 Pinceel, T.; Vanschoenwinkel, B.; Grégoir, A.; **Brendonck, L.**: EARLY AND LATE DEVELOPMENTAL ARREST AS COMPLEMENTARY EMBRYONIC BET HEDGING STRATEGIES IN AFRICAN KILLIFISH (ID: 26130)
- 09:15 **Franch Gras, L.**; García-Roger, E. M.; Serra, M.; Tarazona, E.; Carmona, M. J.: TIMING OF DIAPAUSE IN ROTIFER POPULATIONS VARIES ACCORDINGLY IN ENVIRONMENTAL PREDICTABILITY (ID: 25875)
- 09:30 **Sirianni, K. M.**; Hairston, N. G.: PHENOTYPIC DIFFERENCES IN DIAPAUSING EGGS REFLECT A DORMANCY-DISPERSAL TRADEOFF FOR TWO CLADOCERANS IN A ROCK-POOL METACOMMUNITY (ID: 25959)

- 09:45 **García-Roger, E. M.**; Carmona, M. J.; Serra, M.: MODES OF BET HEDGING TO EXPLAIN VARIATION IN DIAPAUSE DURATION IN CYCLICALLY PARTHENOGENETIC ROTIFERS: RECENT FINDINGS AND CHALLENGES (ID: 25711)
- 10:30 **Radzikowski, J.**; Krupinska, K.; Slusarczyk, M.: DORMANT EGGS OF DAPHNIA FROM DEEP LAKES AND ASTATIC WATERS REQUIRE DIFFERENT THERMAL HATCHING STIMULI (ID: 26116)
- 10:45 **Conde-Porcuna, J. M.**; Pérez-Martínez, C.; Moreno-Linares, E. J.: ZOOPLANKTON DISPERSAL BY WATERFOWL: EFFECT OF SALINITY ON HATCHING OF DISPERSED RESTING EGGS. (ID: 26341)
- 11:00 **Aránguiz-Acuña, A.**: DIAPAUSING AS SCAPE STRATEGY UNDER EXPOSURE TO SUBLETHAL ARSENIC (ID: 25887)
- 11:15 **Sukenik, A.**; Maldener, I.; Delhaye, T.; Bormans, M.: CARBON FIXATION AND ALLOCATION IN A FILAMENTOUS CYANOBACTERIUM DURING AKINETE DIFFERENTIATION USING NANOSIMS AND MICROSCOPY (ID: 25566)
- 11:30 **de Tezanos Pinto, P.**; Kust, A.; Kozlíková (Zapomelová), E.: DORMANCY IN NITROGEN FIXING CYANOBACTERIA: LINKING AKINETE SHAPE, GERMINATION AND BLOOM OCCURRENCES. (ID: 27488)
- 11:45 **Giannakourou, A.**; Venetsanopoulou, A.; Balci, M.; Balkis, N.; Mudie, P.; Pagou, K.: DINOFLAGELLATE CYST MAPPING IN THE MEDITERRANEAN AND MARMARA SEA: AN ASSESSMENT INDEX OF EUTROPHICATION AND RISK FOR HAB APPEARANCE (ID: 26886)
- 15:00 **Gross, S.**; Montresor, M.; Töpel, M.; Godhe, A.: *SKELETONEMA MARINOI*: A SLEEPING BEAUTY (ID: 27410)
- 15:15 **Ejsmund, M. J.**; McNamara, J. M.; Varpe, Ø.: STAY SAFE OR FEED? MODELLING LIFE HISTORY IMPLICATIONS FOR TIMING OF DIAPAUSE (ID: 27043)
- 15:30 **Armengol, J.**; Raad, P.; Beneyto, D.; Sasa, M.; Rojo, C.; Monros, J.; Mezquita, F.: ZOOPLANKTON HATCHING PATTERNS IN SEDIMENT SAMPLES FROM “PALO VERDE” A TROPICAL TEMPORARY WETLAND IN COSTA RICA. (ID: 25895)
- 15:45 **Walsh, E. J.**; Samaniego, S.; Messerschmidt, C.; Schmidt, A.; Wallace, R.; Schroeder, T.: DORMANCY AND ASSEMBLY OF COMMUNITY STRUCTURE IN TEMPORARY DESERT AQUATIC HABITATS (ID: 27641)

082 AQUATIC MICROBIAL COMMUNITIES ACROSS GEOGRAPHIC AND TROPHIC GRADIENTS

Chair(s): Irina Izaguirre, iri@ege.fcen.uba.ar
Hugo Sarmento, hugo.sarmento@gmail.com
M. Romina Schiaffino, rominaschiaffino@ege.fcen.uba.ar

Location: Room B (Floor -3)

- 17:00 **Pedrós-Alió, C.**; Mackenzie, R.; Uribe, L.; Díez, B.: THE IMPORTANCE OF DISPERSAL LIMITATION FOR THE STRUCTURE OF HOT SPRING MICROBIAL MAT COMMUNITIES: FROM THE TROPICS TO ANTARCTICA (ID: 25845)
- 17:15 **Wilburn, P.**; Shchapov, K.; Pislegina, E. V.; Ozersky, T.; Teal, T. K.; Shade, A.; Litchman, E.: MICROBIAL SURVEY OF LAKE BAIKAL: INSIGHTS AND LIMITATIONS OF TAXONOMIC AND NETWORK-BASED FUNCTIONAL ANALYSES (ID: 27666)

WEDNESDAY

* REPRESENTS INVITED PRESENTATIONS

- 17:30 **Segovia, B. T.**; Domingues, C. D.; Meira, B. R.; Lansac-Toha, F. M.; Fermani, P.; Unrein, F.; Machado Velho, L. F.; Sarmento, H.: COUPLING BETWEEN HETEROTROPHIC NANOFAGELLATES AND BACTERIA IN FRESH WATERS: DOES LATITUDE MAKE A DIFFERENCE? (ID: 27526)
- 17:45 **Mussmann, M.**; Dyksma, S.; Probandt, D.: IDENTIFICATION, ECOLOGY AND ECOGENOMICS OF UBIQUITOUS BACTERIAL KEY PLAYERS IN COASTAL SEDIMENTS. (ID: 26943)
- 18:00 **Elser, J. J.**; Bercel, T.; Learned, J.; Poret-Peterson, A.; Raymond, J.; Ze, R.; Niu, D.; Fu, H.: "MYSTERIOUS LAKES" AMID MEGADUNES: A LIMNOLOGICAL EXPLORATION OF THE GROUNDWATER-FED PONDS AND LAKES OF BADAIN JARAN, NORTH-CENTRAL CHINA. (ID: 25759)
- 18:15 **Lara, E.**; Fernández Parra, L.; Schiaffino, R.; Izaguirre, I.: A NEW FRESHWATER BATHYCOCCACEAE LINEAGE FROM ARGENTINEAN PATAGONIA SHOWS DISTANCE RELATED POPULATION STRUCTURE (ID: 27002)

085 CURRENT ADVANCES IN THE INTEGRATION OF (SEMI)AUTOMATED APPROACHES FOR MEASURING PHYTOPLANKTON DYNAMICS, FROM FRESHWATER TO MARINE SYSTEMS

- Chair(s): Luis Felipe Artigas, Felipe.Artigas@univ-littoral.fr
Veronique Creach, veronique.creach@cefas.co.uk
Jacco Kromkamp, Jacco.Kromkamp@nioz.n
Francesco Pomati, Francesco.Pomati@eawag.ch
Alain Lefebvre, Alain.Lefebvre@ifremer.fr
Melilotus Thyssen, melilotus.thyssen@mio.osupytheas.fr
- Location: Machuca (Floor -2)
- 08:30 **Nelson, H.**; Poulton, N. J.; Peterson, T.; Leathem, M.; Wolfe, P.: IMPROVED METHODOLOGY FOR SEMI-AUTOMATED IDENTIFICATION OF PLANKTON AND BIOVOLUME ESTIMATION USING A DIGITAL IMAGING FLOW CYTOMETER (FLOWCAM) (ID: 27428)
- 08:45 **Grosjean, P.**; Denis, K.; Wacquet, G.; Ali, N.; Rousseau, V.; Parent, J. Y.; Lancelot, C.: TOWARDS A BETTER CLASSIFICATION OF PLANKTON DIGITAL IMAGES: SUSPECT DETECTION, ERROR CORRECTION AND REAL-TIME (ID: 26315)
- 09:00 **Romero-Martinez, L.**; van Slooten, C.; Nebot, E.; Acevedo-Merino, A.; Peperzak, L.: ROUTINE MONITORING OF DIVERSITY AND ABUNDANCE OF MICRO-ORGANISMS IN BALLAST WATER WITH FLOWCAM (ID: 26185)
- 09:15 **Zetsche, E.**; El Mallahi, A.; Dubois, F.; Yourassowsky, C.; Kromkamp, J.; Meysman, F. J.: IMAGING-IN-FLOW: DIGITAL HOLOGRAPHIC MICROSCOPY AS A NOVEL TOOL TO DETECT AND CLASSIFY NANOPLANKTONIC ORGANISMS (ID: 26052)
- 09:30 **Greenfield, D. I.**; Coyne, K. J.; Doll, C.; Main, C.; Bianco, C.: THE EFFECTS OF CELL PHYSIOLOGY ON SANDWICH HYBRIDIZATION ASSAY AND QUANTITATIVE PCR RESULTS FOR THE HARMFUL ALGA, HETEROSIGMA AKASHIWO (ID: 25951)

100 MICROBIAL BIOGEOCHEMISTRY OF TIDAL FLATS AND SHALLOW SEDIMENTS: PHYSICAL FORCING BY TIDES AND PHOTOPERIOD

- Chair(s): Alfonso Corzo, alfonso.corzo@uca.es
Graham J. C. Underwood, gjcu@esssex.ac.uk
Sokratis Papaspyprou, sokratis.papaspyprou@uca.es
- Location: Seminario 3-4-5 (Floor 1)
- 17:00 **Orvain, F.**; Morelle, J.; Claquin, P.; Lefebvre, S.: MICROPHYTOBENTHIC BIOFILMS IN RESPONSE TO PHYSICAL FORCING BY TIDES AND PHOTOPERIOD^T (ID: 27189)
- 17:30 **Meysman, F.**; Malkin, S.: MICROBIAL ELECTRICITY INDUCES RAPID REDOX TELECONNECTIONS IN THE SEAFLOOR (ID: 26026)
- 17:45 **Lavergne, C.**; Hugoni, M.; Dupuy, C.; Debroas, D.; Agogué, H.: ACTIVE PROKARYOTIC COMMUNITY STRUCTURE DURING DAY AND NIGHT EMERSION IN COASTAL MUDDY SEDIMENTS (ID: 26120)
- 18:00 **Redzuan, N. S.**; Underwood, G. J.: SEDIMENT-WATER COLUMN EXCHANGES OF MICROPHYTOBENTHOS ON INTERTIDAL FLATS: INFLUENCE OF TIDAL RANGE, WIND AND WAVES ACROSS NEAP-SPRING-NEAP TIDAL CYCLES (ID: 26893)
- 18:15 **Gómez-Ramírez, E. H.**; Bohórquez, J.; Corzo, A.; García-Robledo, E.; Aguilar-Barquero, V.; Morales-Ramírez, A.; Papaspyprou, S.: MICROBENTHIC PRIMARY PRODUCTION AND NET METABOLISM IN AN INTERTIDAL TROPICAL MUDFLAT (ID: 26926)

118 LIFE AT SMALL SCALE: MICROSCALE INSIGHTS INTO AQUATIC SYSTEMS

- Chair(s): Mimi Koehl, cnidaria@berkeley.edu
Thomas Kiorboe, tk@aqua.dtu.dk>
Roman Stocker, romans@MIT.EDU
Stuart Humphries, S.Humphries@hull.ac.uk
- Location: Room C (Floor -3)
- 08:30 **Sage, J.**; Humphries, S.: ADAPTATION TO TEMPERATURE IN *TETRASELMI* SWIMMING HAS TWO RATES (ID: 26342)
- 08:45 **Nielsen, L. T.**; Andersen, A.; Kørboe, T.: DINOFLAGELLATES CREATE FLOWS THAT MEDIATE FEEDING AND NUTRIENT UPTAKE (ID: 26560)
- 09:00 **Jenkinson, I. R.**; Berdalet, E.; Chin, W. C.; Herminghaus, S.; Mitchell, J. G.; Qiu, R.; Seuront, L.; Wang, P.; Wyatt, T.; Li, Z.: NANO/MICROFLUIDICS AROUND PHYTO- AND ZOOPLANKTON (ID: 26505)
- 09:15 **Costello, J. H.**; Colin, S. P.; Gemmell, B. J.; Sutherland, K. R.: WORKING TOGETHER: PROPULSIVE JET ORGANIZATION DURING SWIMMING BY THE SIPHONOPHORE NANOMIA BIJUGA. (ID: 26403)
- 09:30 **Colin, S. P.**; MacPherson, R.; Gemmell, B.; Costello, J. H.; Sutherland, K.; Jaspers, C.: ELEVATING THE PREDATORY EFFECT: SENSORY-SCANNING FORAGING STRATEGY BY THE LOBATE CTENOPHORE MNEMIOPSIS LEIDY (ID: 26868)
- 09:45 **Koehl, M.**: SWIMMING IN AN UNSTEADY WORLD (ID: 27118)
- Gemmell, B. J.**; Jiang, H.; Strickler, J. R.; Buskey, E. J.: A TALE OF THE CILIATE TAIL: INVESTIGATION INTO THE ADAPTIVE SIGNIFICANCE OF THIS UNIQUE ULTRASTRUCTURE (ID: 27543)

- 10:45 **El Baidouri, E.**; Humphries, S.: NEW INSIGHTS INTO THE EVOLUTION OF BACTERIAL SHAPE AND MOTILITY (ID: 26061)
- 11:00 **Schuech, R.**; Smith, D. J.; Humphries, S.: OPTIMAL SHAPES OF SWIMMING BACTERIA (ID: 26700)
- 11:15 **Tuval, I.**; Arrieto, J.; Barreira, A.: MICROSCALE PATCHES OF NON-MOTILE PHYTOPLANKTON (ID: 26001)
- 11:30 **Wheeler, G. L.**; Chrachri, A.; Brownlee, C. L.: THE ROLE OF THE CELLULAR MICROENVIRONMENT IN DETERMINING PHYTOPLANKTON PHYSIOLOGY (ID: 27487)
- 11:45 **Ojamäe, K.**; Lips, I.; Hansen, P. J.: PREY UPTAKE IN MIXOTROPHIC DINOFLAGELLATES *DINOPHYYSIS* spp. MEDIANED BY MUCUS SECRETIONS (ID: 26558)
- 15:00 **Popovich, Y.**; Rubin-Blum, M.; Shemesh, E.; Goodman-Tchernov, B.; Shavit, U.; Tchernov, D.: THE BENEFIT OF SPIONIDAE ROCKING OSCILLATIONS DRIVEN BY GAS RELEASE IN THE MEDITERRANEAN DEEP SEA: A QUANTITATIVE ANALYSIS (ID: 26085)
- 15:15 **Shavit, U.**; Holzman, R.; Genin, A.; Asher, S.: AN UNDERWATER PIV STUDY OF FLOW INSIDE AND AROUND CORAL REEFS (ID: 26951)
- 15:30 **Borisov, S. M.**; Staudinger, C.; Kühl, M.; Klimant, I.: NEW OPTODES FOR SENSING AND IMAGING OF PH IN AQUATIC SYSTEMS ON MICROSCALE (ID: 26524)
- 15:45 **Taylor, G. T.**; Suter, E.; Stinton, D. T.; Chow, S. T.; Li, Z. Q.: LINKING BIOGEOCHEMICAL FUNCTION TO PHYLOGENY IN MARINE MICROBIAL COMMUNITIES USING SIP-RAMAN-FISH (ID: 25841)
- 16:00 **Malfatti, F.**; Celussi, M.; Del Negro, P.: HIGH-RESOLUTION IMAGING (AFM LSCM) COUPLED WITH IN SITU DETECTION OF ALKALINE PHOSPHATASE REVEALS MICROSCALE ORGANIC MATTER PROCESSING BY ALGAE AND BACTERIA (ID: 25475)
- 17:00 **Cisternas-Novoa, C.**; Lee, C.; Engel, A.: TRANSPARENT EXOPOLYMER PARTICLES (TEP) AND COOMASSIE STAINABLE PARTICLES (CSP): COMPARING THEIR ORIGIN AND BEHAVIOR USING FLOWCAM VISUALIZATION AND IMAGING. (ID: 25425)
- 17:15 **Ionescu, D.**; Bizic-Ionescu, M.; Khalili, A.; Malekmohammadi, R.; Morad, M. R.; de Beer, D.; Grossart, H. P.: PARTICLE ASSOCIATED COMMUNNITIES ARE REGULATED BY ANTAGONISTIC REACTIONS RATHER THAN CARBON QUALITY AS SHOWN USING A NEW FLOW-THROUGH ROLLING-TANK (ID: 25814)
- 17:30 **Zier vogel, K.**; Burns, W.; Marchetti, A.; Prairie, J. C.; Vicci, L.; Whilte, B. L.: HOW DOES TURBULENCE AFFECT ALGAL-BACTERIAL INTERACTIONS AND TEP FORMATION IN THE SURFACE OCEAN? (ID: 27242)
- 17:45 **Ploug, H.**; Bergqvist, J.; Klawonn, I.; Whitehouse, M. J.: DIRECT QUANTIFICATION OF CELL-SPECIFIC INORGANIC NITROGEN UPTAKE DURING A DIATOM SPRING BLOOM USING STABLE ISOTOPE TRACERS AND SECONDARY ION MASS SPECTROMETRY (ID: 25835)
- 18:00 **Lehman, P. W.**; Kurobe, T.; Kudela, R.; Baxa, D.; Teh, S. J.; Brown, T.; Tung, A.; Hollingshead, T.: HIGH FREQUENCY VARIABILITY OF PHYTOPLANKTON, ZOOPLANKTON AND WATER QUALITY IN SAN FRANCISCO ESTUARY (ID: 27604)

123 MULTI-METHODS CONNECTIVITY ESTIMATES TO IMPROVE MARINE PROTECTION DESIGN

- Chair(s): Katell Guizien, guizien@obs-banyuls.fr
Sophie Arnaud-Haond, s-arnaud@univ-montp2.fr
- Location: Andalucia 3 (Floor 1)
- 17:00 **Aspíllaga, E.**; Bartumeus, F.; García-Rubies, A.; López-Sanz, Á.; Díaz, D.; Linares, C.; Starr, R. M.; Hereu, B.: ORDINARY AND EXTRAORDINARY MOVEMENT BEHAVIOUR OF SEABREAMS IN A MPA: IMPLICATIONS TO MANAGEMENT (ID: 27162)
- 17:30 **Corell, H.**; Moksnes, P. O.; Jonsson, P. R.: BRINGING TOGETHER PIECES OF THE CONNECTIVITY PUZZLE: LOCAL OCEANOGRAPHY AND INHERITED BEHAVIOUR STUDIED ON MULTIPLE SPATIAL AND TEMPORAL SCALES (ID: 26565)
- 17:45 **Costa, A.**; Doglioli, A. A.; Guizien, K.; Petrenko, A. A.: ESTIMATION OF CONNECTIVITY IN MARINE BIOLOGICAL NETWORKS: GRAPH THEORY VERSUS METAPOPULATION MODELS. AN APPLICATION TO THE GULF OF LION. (ID: 26006)
- 18:00 **Padron, M.**; Bakzay, S.; Bramanti, L.; Costantini, F.; Guizien, K.: CONNECTIVITY OF WHITE GORGONIAN POPULATIONS IN THE GULF OF LIONS: OBSERVED VERSUS MODELLED GENETIC STRUCTURE (ID: 26020)
- 18:15 **Comtet, T.**; Traisnel, G.; Péchéyran, C.; Thébault, J.: ELEMENTAL FINGERPRINTING AS A TOOL TO STUDY CONNECTIVITY IN THE INVASIVE GASTROPOD *CREPIDULA FORNICATA* (ID: 26596)

126 SCALES OF VARIABILITY IN SOURCES AND SINKS OF METHANE IN LAKES, RESERVOIRS AND RIVERS

- Chair(s): Bradford Sherman, csiro.brad@icloud.com
Tonya Delsontro, tdelsonro@gmail.com
- Location: Machuca (Floor -2)
- 10:30 **Bastviken, D.**; Klaus, M.; Lundin, E.; Natchimuthu, S.; Enrich-Prast, A.; Crill, P.; Karlsson, J.: METHANE EMISSIONS FROM VARIOUS TYPES OF NORTHERN LAKES (ID: 27085)
- 10:45 **Casper, P.**; Martinez-Cruz, K.; Fuchs, A.; Cardoso Lisboa, C.; Reverey, F.; Rodriguez, M.; Sepulveda-Jauregui, A.; Ullrich, N.: METHANE DYNAMICS IN TEMPERATE AQUATIC SYSTEMS: PRODUCTION; OXIDATION; EMISSION (ID: 27182)
- 11:00 **DelSontro, T.**; Thottathil, S. D.; Prairie, Y.; del Giorgio, P.: METHANE OVERSATURATION IN BOREAL LAKES: TOWARDS PROCESS-BASED UNDERSTANDING (ID: 26929)
- 11:15 **Tremblay, A.**; Lambert, M.: CH₄ AND N₂O EMISSIONS FROM BOREAL RESERVOIRS, 20 YEARS OF DATA! (ID: 26260)
- 11:30 **Deemer, B. R.**; Harrison, J. A.; Beaulieu, J. J.; Li, S.; Santos, M. A.; Neto, J. E.; Powers, S. M.; Vonk, J. A.; DelSontro, T.; Barros, N.: GLOBAL GREENHOUSE GAS EMISSIONS FROM RESERVOIRS: A MATTER OF METHANE (ID: 27717)
- 11:45 **Grinham, A. R.**; Dunbabin, M. D.: RELATIVE IMPORTANCE OF METHANE EBULLITION TO TOTAL STORAGE EMISSIONS IN FIVE SUBTROPICAL RESERVOIRS (ID: 26428)

WEDNESDAY

- 15:00 **Sepulveda-Jauregui, A.**; Hoyos-Santillan, J.; Martinez-Cruz, K.; Belmonte-Izquierdo, Y.; Casper, P.; Walter Anthony, K. M.; Thalasso, F.: TEMPERATURE AND TROPHIC STATUS DEPENDENCE ON METHANE PRODUCTION AND OXIDATION IN LAKES (ID: 26877)
- 15:15 **Wilkinson, R. J.**; Maeck, A.; Alshboul, Z.; Lorke, A.: METHANE EBULLITION FOLLOWS SEASONAL TEMPERATURE: LINKING BUBBLE FLUX AND PRODUCTION RATE IN AN IMPOUNDED RIVER (ID: 26334)
- 15:30 **Martinez-Cruz, K.**; Sepulveda-Jauregui, A.; Walter Anthony, K. M.; Casper, P.; Thalasso, F.: ANAEROBIC OXIDATION OF METHANE IN BOREAL LAKE SEDIMENTS (ID: 26853)
- 15:45 **Oswald, K.**; Milucka, J.; Brand, A.; Littmann, S.; Wehrli, B.; Kuypers, M. M.; Schubert, C. J.: EMISSIONS FROM STRATIFIED LAKES REDUCED BY LIGHT DEPENDENT AEROBIC METHANE OXIDATION (ID: 25499)
- 16:00 **Denfeld, B. A.**; Canelhas, M. R.; Bertilsson, S.; Bastviken, D.; Weyhenmeyer, G.: METHANE ACCUMULATION AND OXIDATION AT THE WATER-ICE INTERFACE IN ICE-COVERED LAKES (ID: 25782)
- 16:15 **Laurion, I.**; Bouchard, F.; Preskienis, V.; Fortier, D.: THE AGE OF BUBBLES: GREENHOUSE GAS EMISSIONS FROM PERMAFROST THAW LAKES (ID: 25653)
- 17:00 Deshmukh, C.; **Guerin, F.**; Labat, D.; Vongkhamsao, A.; Guedant, P.; Rode, W.; Chanudet, V.; Descloux, S.; Serca, D.: METHANE EMISSIONS FROM A SUBTROPICAL HYDROELECTRIC RESERVOIR: IMPACT OF SEASONAL AND ARTIFICIAL DESTRATIFICATION ON DIFFUSIVE FLUXES AND DOWNSTREAM EMISSIONS (ID: 27046)
- 17:15 **Rodriguez, M.**; Casper, P.: GREEN HOUSE GASES EMISSIONS (CO_2 AND CH_4) IN THE SEMIARID ITAPARICA RESERVOIR IN NORTHEAST BRASIL AND CONTRIBUTION OF TURBINE PASSAGE (ID: 26571)
- 17:30 **Beaulieu, J. J.**; Nietch, C. T.; McManus, M. G.; Townsend-Small, A.: TEMPORAL AND SPATIAL PATTERNS OF METHANE EMISSIONS FROM A RESERVOIR DRAINING AN AGRICULTURAL WATERSHED (ID: 26895)
- 17:45 **Sturm, K.**; Grinham, A.; Werner, U.; Yuan, Z.: SOURCES, SPATIAL VARIABILITY AND DRIVERS OF SUBTROPICAL ESTUARINE METHANE EMISSIONS (ID: 26496)
- 18:00 **Striegl, R. G.**; Dornblaser, M. M.; Crawford, J. T.; Loken, L. C.: METHANE AND CARBON DIOXIDE CONCENTRATION AND FLUX ON THE DAM AND POOL NAVIGATION SYSTEM OF THE UPPER MISSISSIPPI RIVER (ID: 26812)
- 18:15 **Sherman, B.**; Ford, P.; Kernke, M.: MEASURING LARGE METHANE GAS FLUXES IN THE CONDAMINE RIVER (ID: 26444)

130 IN SITU STUDIES OF THE IMPACTS OF OCEAN ACIDIFICATION: OBSERVATIONS, CO₂ VENTS, AND FOCE EXPERIMENTS

- Chair(s): James P. Barry, barry@mbari.org
David Kline, dkline@ucsd.edu
Jean-Pierre Gattuso, gattuso@obs.vlfr.fr
- Location: Andalucia 1 (Floor 1)
- 17:00 **Barkley, H. C.**; Cohen, A. L.; Golbuu, Y.; Starczak, V. R.; Shamberger, K. F.; DeCarlo, T. M.: COMPOSITIONAL CHANGES IN CORAL REEF COMMUNITIES ACROSS A NATURAL PH GRADIENT (ID: 26916)

- 17:15 **Ricevuto, E.**; Gambi, M. C.: OCEAN ACIDIFICATION: WHAT WE CAN LEARN FROM POLYCHAETES IN A SHALLOW CO₂ VENTS SYSTEM (ID: 25852)
- 17:30 **Gattuso, J. P.**; Kirkwood, W.; Barry, J.; Cox, E.; Gazeau, F.; Kline, D.; McElhany, P.; Martin, S.; Peltzer, E.; Saderne, V.; Tait, K.; Widdicombe, S.; Brewer, P.: FREE OCEAN CO₂ ENRICHMENT (FOCE) SYSTEMS: PRESENT STATUS AND FUTURE DEVELOPMENTS (ID: 25486)
- 17:45 **Cox, T. E.**; Gazeau, F.; Hendricks, I.; Gattuso, J. P.: IMPACTS OF OCEAN ACIDIFICATION ON THE STRUCTURE, PRODUCTION, AND PHYSIOLOGY OF THE MEDITERRANEAN SEAGRASS POSIDONIA OCEANICA (ID: 27404)
- 18:00 **Barry, J. P.**; Lovera, C.; Buck, K. R.; Peltzer, E. T.; Taylor, J. R.; Walz, P.; Whaling, P. J.; Brewer, P. G.: USE OF A FREE OCEAN CO₂ ENRICHMENT (FOCE) SYSTEM TO EVALUATE THE EFFECTS OF OCEAN ACIDIFICATION ON THE FORAGING BEHAVIOR OF A DEEP-SEA URCHIN (ID: 25516)
- 18:15 **Burdett, H. L.**; Perna, G.; McKay, L.; Broomhead, G.; Kamenos, N. A.: ECOSYSTEM-LEVEL RESPONSE OF A CORALLINE ALGAL BED TO HIGH CO₂ VIA IN SITU ENRICHMENT (ID: 26686)

143 COMMUNITY ECOLOGY

- Chair(s): Pia Bartels, pia.bartels.pb@gmail.com
- Location: Andalucia 3 (Floor 1)
- 08:30 **Waterkeyn, A.**; Van den Broeck, M.; Rhazi, L.; Grillas, P.; El Madihi, M.; Brendonck, L.: ECOLOGY AND CONSERVATION OF MOROCCAN TEMPORARY PONDS UNDER ANTHROPOGENIC PRESSURE (ID: 26124)
- 08:45 **Lebret, K.**; Langenheder, S.; Östman, Ö.; Lindström, E.: IMPACT OF INCREASED WATERCOLOR ON THE FUNCTION AND STRUCTURE OF PLANKTON COMMUNITIES IN SCANDINAVIAN LAKES (ID: 25595)
- 09:00 **Brucet, S.**; Mehner, T.; Beklioglu, M.; Svensson, J. C.; Boll, T.; Arranz, I.; Benejam, L.; Argillier, C.; Holmgren, K.; Winfield, I. J.; Jeppesen, E.: TEMPERATURE DRIVES THE RELATIONSHIP BETWEEN SPECIES AND SIZE DIVERSITY IN LAKE FISH COMMUNITIES (ID: 25708)
- 09:15 **Lopes, A. R.**; Rosa, I. C.; Faleiro, F.; Paula, J. R.; Diniz, M. E.; Repolho, T.; Rosa, R.: ECOPHYSIOLOGY OF INTERTIDAL AND SUBTIDAL PALAEMON SHRIMPS: WHO WILL SUFFER THE MOST WITH GLOBAL WARMING? (ID: 27008)
- 09:30 **Hernan Martinez, G.**; Martinez, A.; Terrados, J.; Tomas, F.: EFFECTS OF TEMPERATURE IN SEAGRASS SEEDLINGS AND ITS TROPHIC RELATIONS (ID: 26677)
- 09:45 **Arranz, I. U.**; Mehner, T.; Benejam, L.; Argillier, C.; Holmgren, K.; Jeppesen, E.; Lauridsen, T. L.; Volta, P. J.; Winfield, I. J.; Brucet, S.: DENSITY-DEPENDENT EFFECTS OVERRIDE TEMPERATURE AS DRIVERS OF INTRASPECIFIC SIZE-STRUCTURE IN SIX LAKE FISH SPECIES ACROSS EUROPE (ID: 26718)
- 10:30 **Céspedes, V.**; Coccia, C.; Valdecasas, A. G.; Sánchez, M. I.; Green, A. J.: INFLUENCE OF WATER MITES ON A HEMIPTERAN COMMUNITY IN SPANISH WETLANDS: ENEMIES THAT LIMIT THE INVASION OF TRICHOCORIXA VERTICALIS? (ID: 25577)
- 10:45 **Weber, K. C.**; Herren, C. M.; Einarsson, A.; Ives, A. R.: ABIOTIC DISTURBANCE AND ECOLOGICAL COMMUNITIES: THE COMPOSITION OF BENTHIC CLADOCERAN ASSEMBLAGES IN LAKE MYVATN, ICELAND (ID: 27255)

^T REPRESENTS TUTORIAL PRESENTATIONS

11:00	Chiapella, A. M. ; Strecker, A. L.: MACROINVERTEBRATE COMMUNITY CHANGE ALONG AN ELEVATION GRADIENT IN FISHLESS VERSUS FISH-STOCKED MONTANE LAKES (ID: 27209)	
11:15	Novoa, A. ; Talley, T. S.; Talley, D. M.; Crooks, J. A.: ASSESSING BIVALVE COMMUNITY SHIFTS IN SEVERAL ESTUARIES IN SOUTHERN CALIFORNIA AND NORTHERN BAJA CALIFORNIA, MEXICO (ID: 25608)	15:15
11:30	Wood, M. A. ; Lipcius, R. N.: THE EXOTIC ALGA <i>GRACILARIA VERMICULOPHYLLA</i> : AN EMERGING NURSERY HABITAT FOR BLUE CRABS <i>CALLINECTES SAPIDUS</i> IN CHESAPEAKE BAY (ID: 26288)	15:30
11:45	Stockenreiter, M. ; terHorst, C. P.; Litchman, E.: THE GHOST OF COMPETITION PRESENT PREDICTS PHYTOPLANKTON COMMUNITY ASSEMBLY PATTERNS (ID: 25766)	15:45

Kazanjian, G.; Köhler, J.; Flury, S.; Attermeyer, K.; Kaletta, T.; Premke, K.; Hilt, S.: SMALL WATER BODIES POSE UNIQUE PRIMARY PRODUCTION DYNAMICS: CONSEQUENCES OF ALTERNATIVE VEGETATION REGIMES IN KETTLE HOLES (ID: 27583)
Pereira, L. S.; Tencatt, L. C.; Agostinho, A. A.: CANNIBALISM IS NOT A COMMON BEHAVIOR AMONG FRESHWATER FISHES (ID: 25667)
Bartels, P.; Öhlund, G.; Hudson, A. G.; Englund, G.: EARLY DIVERSIFICATION PROCESSES AFFECT ECOSYSTEM FUNCTIONING (ID: 27516)

WEDNESDAY

WEDNESDAY POSTERS

003 PEOPLE POWER: THE ROLE OF CITIZEN SCIENTISTS IN AQUATIC SCIENCE - GLOBAL OPPORTUNITIES AND PERSPECTIVES

- Chair(s): Steven Loiselle, loiselle@unisi.it
 Paul Frost, paulfrost@trentu.ca
 Davi Gasparini Fernandes Cunha, davig@sc.usp.br
 Yuchao Zhang, yczhang@niglas.ac.cn
- Location: Poster and Exhibit Area (Floor 1)
- 33 **Prat, N.**; Rieradevall, M.; Fortuño, P.: RIU.NET, AN APP TO APPROACH THE CITIZENS TO THE RIVERS (ID: 26754)
- 34 **Friedrichs, A.**; Busch, J. A.; John, C.; Zielinski, O.: MEASURING FLUORESCENCE BY MEANS OF SMARTPHONES WITH THE NEW CITCLOPS-APPLICATION (ID: 27329)
- 36 **Bardají, R.**; Simon, C.; Piera, J.: THE GREAT POTENTIAL OF KDUINO, A CITIZEN SCIENCE INSTRUMENT (ID: 26557)
- 37 **Schnetzer, J.**; Kopf, A.; Kottmann, R.; Bicak, M.; Kostadinov, I.; Glöckner, F. O.: MYOSD – THE CITIZEN SCIENCE PROJECT FOR THE OCEAN SAMPLING DAY (ID: 26113)

005 PROTIST-OMICS: A MULTIDISCIPLINARY EXPLORATION OF THE AQUATIC MICROEUKARYOTIC WORLD

- Chair(s): Ramiro Logares, ramiro.logares@gmail.com
 Coloban de Vargas, vargas@sb-roscoff.fr
 Ramon Massana, ramonm@icm.csic.es
- Location: Poster and Exhibit Area (Floor 1)
- 40 **Vader, A.**; Jakobsen, K. S.; Gabrielsen, T. M.: FUNCTION AND DIVERSITY OF A MARINE PROTIST SUMMER COMMUNITY FROM A HIGH-ARCTIC FJORD. (ID: 26728)
- 41 **Marquardt, M.**; Vader, A.; Gabrielsen, T. M.: SEASONALITY AND DIVERSITY OF ARCTIC PELAGIC PROTIST COMMUNITIES IN ADVENTFJORDEN (WEST SPITSBERGEN) (ID: 26609)
- 42 **Felip, M.**; Triadó-Margarit, X.; Casamayor, E. O.; Gasol, J. M.; Catalan, J.: PROTIST DIVERSITY ASSESSMENT: COMPARING MICROSCOPY, CYTOMETRY AND MOLECULAR APPROACHES (ID: 26399)
- 43 **Nuy, J. K.**; Boenigk, J.: MICROBIAL COMMUNITIES UNDER INVESTIGATION – UNDERSTANDING THE BIASES OF DEEP SEQUENCING DATA (ID: 25833)
- 44 **Fujiki, T.**; Takagi, H.; Kimoto, K.; Kurashita, A.; Yuasa, T.; Mino, Y.: ASSESSMENT OF ALGAL PHOTOSYNTHESIS IN PLANKTONIC FORAMINIFERS BY FAST REPETITION RATE FLUOROMETRY (ID: 25769)
- 45 **Haraldsen, A. B.**; Bjørbaekmo, M. M.; Mangot, J. F.; Fuss, J.; Shalchian-Tabrizi, K.; Hansen, H.; Bass, D.; Klaveness, D.: PROTIST DIVERSITY IN A MARINE AND LACUSTRINE SYSTEM: PATTERNS ACROSS A SALINITY GRADIENT (ID: 26945)

006 ECOLOGICAL IMPACTS OF DROUGHTS ON FRESHWATER ECOSYSTEMS

- Chair(s): Jose Luiz Attayde, attayde@cb.ufrn.br
 Erik Jeppesen, ej@dmu.dk
 Meryem Beklioglu, meryem@metu.edu.tr
- Location: Poster and Exhibit Area (Floor 1)

- 47 Vasconcelos, J.; Train, S.; **Barbosa, J.**: REGIME SHIFTS AND STABILITY OF AQUATIC COMMUNITIES IN RESERVOIRS OF SEMIARID REGION: ALTERNATIVE STABLE STATE? (ID: 26544)

- 48 Crispim, M. C.; **Vieira, D. M.**; Vieira, D. M.: ZOOPLANKTON COMMUNITIES IN A BRAZILIAN SEMIARID DAM: DRY PERIODS BEFORE AND AFTER PISCIVOROUS FISH INTRODUCTION (ID: 27608)

007 BIOLOGICAL CONNECTIVITY AND ITS IMPORTANCE WITHIN THE CONTEXT OF GLOBAL CHANGE

- Chair(s): Guillem Chust, gchust@azti.es
 Xabier Irigoien, Xabier.Irigoyen@kaust.edu.sa
 Naiara Rodriguez-Ezpeleta, nrodriguez@azti.es
- Location: Poster and Exhibit Area (Floor 1)
- 49 **Redondo-Hasselerharm, P. E.**; Cabrerizo, M. J.; Carrillo, P.; Helbling, E. W.; Villafañe, V. E.; Villar-Argaiz, M.; Medina-Sánchez, J. M.: BACTERIOPLANKTON RESPONSES TO VERTICAL MIXING, ULTRAVIOLET RADIATION, NUTRIENTS AND CO₂ ALONG AN OPTICAL GRADIENT IN MEDITERRANEAN LAKES (ID: 26941)
- 50 **Sutthacheep, M.**; Kazuhiko, S.; Mitarai, S.; Yeemin, T.; Nakajima, Y.; Thummasan, M.; Putthayakool, J.: GENETIC CONNECTIVITY IN SCLERACTINIAN CORALS IN THE GULF OF THAILAND (ID: 26112)
- 51 **Blanco Bercial, L.**; Bucklin, A.: THE OTHER SIDE OF THE COIN FOR ZOOPLANKTON POPULATION CONNECTIVITY: MEASURING THE FLOW (ID: 26149)

008 THE GLOBAL OCEAN ECOSYSTEM: PATTERNS, DRIVERS AND CHANGE

- Chair(s): Carlos M. Duarte, c.duarte@csic.es
 Susana Agustí, sagustii@imedea.uib-csic.es
 Xose Anton Alvarez-Salgado, xsalgado@iim.csic.es
- Location: Poster and Exhibit Area (Floor 1)
- 52 **Moreno-Ostos, E.**; Blanco, J. M.; Agustí, S.; Lubian, L.; Rodriguez, V.; Llabres, M.; Palomino-Torres, R. L.; Rodriguez, J.: RELATION BETWEEN PHYTOPLANKTON SIZE-SPECTRUM MODEL PARAMETERS AND TOTAL BIOMASS IN THE OLIGOTROPHIC ATLANTIC OCEAN. RESULTS FROM THE MALASPINA EXPEDITION (ID: 26204)
- 53 Azua, I.; Abad, N.; Ayo, B.; Baña, Z.; Unanue, M.; Garcia-Zarandona, I.; Sala, M. M.; Moran, X. A.; Gasol, J. M.; **Iribarri, J.**: EXTRACELLULAR ENZYMATIC ACTIVITY (EEA) IN THE WATER COLUMN OF THE GLOBAL OCEAN (ID: 26954)
- 54 **Yeemin, T.**; Sangmanee, K.; Klinthong, W.; Samsuvan, W.; Sutthacheep, M.: ABUNDANCE OF MACROALGAE ON CORAL COMMUNITIES IN THAI WATERS AFTER A CORAL BLEACHING EVENT (ID: 26086)
- 55 **Iuculano, F.**; Alvarez Salgado , X. A.; Sobrino, C.; Duarte , C. M.; Agustí, S.: CHROMOPHORIC DISSOLVED ORGANIC MATTER (CDOM) IN THE EPIPELAGIC GLOBAL OCEAN (ID: 26345)
- 56 Osma, N.; Fernández-Urruzola, I.; Maldonado, F.; Packard, T. T.; **Gómez, M.**: RESPIRATORY ENZYME KINETICS AND PYRIDINE NUCLEOTIDES IN OCEANIC ZOOPLANKTON (ID: 26884)
- 57 **Jiménez-Gómez, F.**; Bartual, A.; Agustí, S.; Morillo-García, S.; Moreno-Ostos, E.; Lubián, L.; Sendra, M.; Echevarría, F.: PHYTOPLANKTON DISTRIBUTION ALONG A TRANSECT ACROSS THE NORTH ATLANTIC (ID: 25924)

^T REPRESENTS TUTORIAL PRESENTATIONS

- 58 **Estrada, M.**; Blasco, D.; Latasa, M.; Rodríguez, F.; Salat, J.: RELATIONSHIPS BETWEEN ENVIRONMENTAL FORCING AND THE VERTICAL DISTRIBUTION OF CHLOROPHYLL IN THE INDIAN AND PACIFIC OCEANS (ID: 26278)
- 59 **Gallo, N. D.**; Levin, L. A.: DISTRIBUTION, ADAPTATION, AND FEEDING ECOLOGY OF DEMERSAL AND BENTHIC FISHES IN OXYGEN MINIMUM ZONES (ID: 27708)
- 60 **Garijo, J. C.**; González-Gordillo, J. I.; Echevarría, F.; Bode, A.; Fernández de Puelles, M. L.; Irigoien, X.; Hernández-León, S.: MESOZOOPLANKTON DISTRIBUTION, PRODUCTION AND RESPIRATION IN THE GLOBAL OCEAN (ID: 27412)
- 62 **Pouch, A.**; Zaborska, A.; Pazdro, K.: THE FATE OF PCBs IN THE ARCTIC MARINE ECOSYSTEM (ID: 26801)

010 AQUACULTURE & THE ENVIRONMENT - SYNERGY OR ANTAGONISM?

Chair(s): Dror Angel, adror@research.haifa.ac.il
Peter Krost, peter.krost@web.de

Location: Poster and Exhibit Area (Floor 1)

- 67 **Sadeghi-Nassaj, S. M.**; Reche, I.: NUTRIENT AND PARTICULATE ORGANIC MATTER DYNAMICS IN INTEGRATED MULTI-TROPHIC AQUACULTURE TANKS WITH SEA CUCUMBERS AND ANEMONES (ID: 27011)
- 68 **Jones, T. A.**; Arellano, S.; Casper, N.: EFFECTS OF OCEAN ACIDIFICATION ON THE EMBRYONIC DEVELOPMENT OF DUNGENESS CRABS (ID: 25735)
- 69 **Garcia de Souza, J. R.**; Solimano, P. J.; Maiztegui, T.; Baigún, C. R.; Claps, M. C.; Colautti, D. C.: ECOSYSTEM APPROACH OF PEJERREY (ODONTESTHES BONARIENSIS) CAGE CULTURE IN PAMPEAN SHALLOW LAKES (ARGENTINA) (ID: 26848)

011 THE IMPACT OF GLOBAL CHANGE ON TOXIC PHYTOPLANKTON

Chair(s): Val H. Smith, vsmith@ku.edu
Dedmer B. Van de Waal, d.vandewaal@nioo.knaw.nl
Hans W. Paerl, hans_paelr@unc.edu

Location: Poster and Exhibit Area (Floor 1)

- 70 **Berdelet, E.**; Vila, M.; Abós-Herrández, R.; Álvarez, J.; Estrada, M.: TEMPORAL ASSOCIATION OF OSTREOPSIS CF. OVATA BLOOMS AND HUMAN HEALTH DISORDERS: RESULTS OF SIMULTANEOUS EPIDEMIOLOGY AND ECOLOGICAL STUDIES (ID: 25746)
- 71 **Guillebault, D.**; Villa, E.; Orozco-Holguin, J.; Manes, C. L.; Medlin, L.: TOWARDS REAL-TIME IN-SITU MONITORING OF TOXIC ALGAE (ID: 27751)
- 72 Migliaccio, O.; Castellano, I.; Di Cioccio, D.; Cirino, P.; Romano, G.; Zingone, A.; **Palumbo, A.**: OSTREOPSIS CF. OVATA BLOOMS IN THE GULF OF NAPLES AND THEIR EFFECTS ON SEA URCHIN: INVOLVEMENT OF NITRIC OXIDE (ID: 27214)

013 ASSESSING MARINE ECOSYSTEMS HEALTH IN AN INTEGRATIVE WAY

Chair(s): Angel Borja, aborja@azti.es
Benjamin Halpern, halpern@bren.ucsb.edu
Philippe Archambault, Philippe_Archambault@uqar.ca

Location: Poster and Exhibit Area (Floor 1)

- 76 **Moraitis, M.**; Dimitriou, P. D.; Geropoulos, A.; Kagiorgi, M.; Kalogeropoulou, V.; Papageorgiou, N.; Tsikopoulou, I.; Karakassis, I.: HIGH PRODUCTIVITY AREAS IN AN OLIGOTROPHIC ENVIRONMENT: IS THERE ROOM FOR HYPOXIA IN THE AEGEAN SEA? (ID: 26944)
- 77 **Jayasinghe, R. P.**; Amarasinghe, U. S.; Newton, A.: EVALUATION OF THE STATUS OF SELECTED MARINE FISHERIES IN THE EU REGION BASED ON LIFE HISTORY OF FISH (ID: 26574)
- 78 **Moreno-Marín, F.**; Villazán, B.; Santandreu, M.; Lopez-Pulido, P.; Vergara, J. J.; Pérez-Lloréns, J. L.; Pedersen, M. F.; Brun, F. G.: SEAGRASS DIVERSITY ENHANCES THEIR RESISTANCE AGAINST HIGH AMMONIUM DOSES (ID: 26732)

015 LONG-TERM STUDIES OF ENVIRONMENTAL STRESSORS ON LAKE ECOSYSTEMS: COMMON IMPACTS AND DYNAMICS

Chair(s): Sapna Sharma, sharma11@yorku.ca
Richard Vogt, richardvogt@trentu.ca
Catherine O'Reilly, cmoreil@ilstu.edu
Gesa Weyhenmeyer, Gesa.Weyhenmeyer@ebc.uu.se
Isabella Bertani, maggiesfarm@tin.it
Hongtao Duan, htduan@niglas.ac.cn

Location: Poster and Exhibit Area (Floor 1)

- 86 **Ramos-Rodríguez, E.**; Conde-Porcuna, J. M.; Jiménez, L.; Moreno, E. J.; Pérez- Martínez , C.: EXPLORING PLANKTON TROPHIC MISMATCHING IN AN ALPINE LAKE DURING THE ICE-FREE SEASON (ID: 26671)
- 87 **Huber, M. P.**; Quiroga, M. V.; Kranewitter, V.; Torremorell, A.; Lagomarsino, L.; Llames, M. E.; Unrein, F.: FLOW CYTOMETRY PATTERNS OF AUTOTROPHIC PICOPLANKTON FROM EUTROPHIC SHALLOW LAKES (ID: 27004)
- 88 **Aguilar, C.**; Cuñel, R. L.: DECADAL TIME SERIES OF DEEP CHLOROPHYLL-BIOMASS MAXIMA IN AN OLIGOTROPHIC SYSTEM (ID: 25970)
- 89 **Futter, M. N.**; Valinia, S.; Köhler, S. J.; Löfgren, S.; Fölster, J.: LONG-TERM EFFECTS OF CLIMATE CHANGE, DECLINING ACIDIC DEPOSITION AND MORE INTENSIVE FORESTRY ON WATER QUALITY OF ACID SENSITIVE SWEDISH LAKES (ID: 26125)
- 90 **Yankova, Y.**; Posch, T.; Pernthaler, J.: WARMING INDUCED CHANGES OF METALIMNION STRUCTURES CAN FAVOUR THE HARMFUL FILAMENTOUS CYANOBACTERIUM *PLANKTOTHRICE RUBESCENS* (ID: 25410)
- 91 **Vogt, R. J.**; Bourbonniere, R. A.; Watson, S. B.; Koops, M. A.; Frost, P. C.; Xenopoulos, M. A.: SPATIAL AND TEMPORAL VARIABILITY IN CARBON FLUX ALONG A PRODUCTIVITY GRADIENT IN LAKE ERIE (ID: 27010)
- 92 **Iyer, S. K.**; Kaster, J. L.: SUITABILITY OF GREEN BAY BENTHIC CONDITIONS AT LOCATIONS INSIDE AND OUTSIDE AREAS OF CONCERN TO HEXAGENIA LIMBATA MAYFLIES (ID: 25581)

016 METACOMMUNITIES

Chair(s): Eva Lindstrom, Eva.Lindstrom@ebc.uu.se
Luc De Meester, Luc.DeMeester@bio.kuleuven.be

Location: Poster and Exhibit Area (Floor 1)

- 93 **Spatharis, S.**; Lambrinou, V.; Danielidis, D.: DRIVERS OF PHYTOPLANKTON BETA-DIVERSITY ACROSS A REGIONAL HETEROGENEOUS SEASCAPE (ID: 25647)

WEDNESDAY

94 **Engel, F. G.**; Mathiessen, B.; Eriksson, B. K.: RESPONSE OF MICROPHYTOBENTHOS TO EXTREME CLIMATE EVENTS (ID: 26093)

95 **Tadiri, C. P.**; Scott, M. E.; Fussmann, G. F.: SEX AND CONDITION OF THE HOST DETERMINE HOST-PARASITE DYNAMICS IN AN EXPERIMENTAL METAPOPULATION (ID: 25948)

96 **Joglar, V.**; Batanero, G. L.; Martin-Platero , A. M.; Green, A. J.; Reche, I.: AQUATIC BACTERIA AND ARCHAEOA DISPERSED BY FLAMINGOS (ID: 27742)

019 LAKES IN THE CRYOSPHERE: FROM POLE TO POLE

Chair(s): Warwick F. Vincent, Warwick.Vincent@fsg.ulaval.ca
Antonio Quesada, antonio.quesada@uam.es
Antonio Camacho, antonio.camacho@uc.es
Ruben Sommaruga, ruben.sommaruga@uibk.ac.at

Location: Poster and Exhibit Area (Floor 1)

102 **Payne, C. M.**: CHARACTERIZING THE INFLUENCE OF SEDIMENT PLUMES ON PRIMARY PRODUCTIVITY IN KONGSFJORDEN, SVALBARD (ID: 27749)

103 **Gutiérrez, M. H.**; Galand, P. E.; Riquelme, P.; Pantoja, S.: GLACIER RETREAT IMPACTS THE COMPOSITION OF MICROORGANISMS AND ORGANIC BIOMARKERS IN A PATAGONIAN FJORD (ID: 27335)

104 **Tucker, W. C.**; Raymond, P. A.: COMPARING DIC CYCLING IN TWO SOUTHEASTERN ALASKA ESTUARIES WITH ^{13}C AND ^{14}C ISOTOPES (ID: 27515)

105 **Mariash, H. L.**; Smith, P. A.: EFFECTS OF OVERABUNDANT GESEES AND ARCTIC FRESHWATER ECOSYSTEMS (ID: 26782)

106 **Rogora, M.**; Kamburska, L.; Tartari, G. A.; Marchetto, A.; Mosello, R.; Mercalli, L.; Cat Berro, D.; Bertolotto, P. L.: THE EFFECTS OF CLIMATE CHANGE ON ALPINE AND SUBALPINE LAKE CHEMISTRY: EVIDENCE FROM LONG-TERM STUDIES IN THE ITALIAN ALPS (ID: 26516)

107 **Skorospekhova, T.**; Fedorova, I.; Shumskaya, N.; Chetverova, A.: HYDROLOGICAL AND HYDROCHEMICAL FEATURES OF FILDES PENINSULA LAKES (KING GEORGE ISL. ANTARCTICA) FORMATION (ID: 26591)

108 **Nedbalová, L.**; Kavan, J.; Elster, J.: CURRENT DISTRIBUTION OF THE ANTARCTIC FAIRY SHRIMP (BRANCHINECTA GAINI) IN LAKES AT THE JAMES ROSS ISLAND ARCHIPELAGO, NORTHEASTERN ANTARCTIC PENINSULA (ID: 26679)

109 **Özkundakci, D.**; Gsell, A. S.; Hintze, T.; Täuscher, H.; Adrian, R.: WINTER SEVERITY DETERMINES FUNCTIONAL TRAIT COMPOSITION OF PHYTOPLANKTON IN SEASONALLY ICE COVERED LAKES (ID: 26075)

022 THE BIOGEOCHEMISTRY OF DISSOLVED ORGANIC MATTER (DOM)

Chair(s): Thorsten Dittmar, thorsten.dittmar@uni-oldenburg.de
Aron Stubbins, aron.stubbins@skio.uga.edu

Location: Poster and Exhibit Area (Floor 1)

113 **Gonçalves-Araujo, R.**; Stedmon, C. A.; Kraberg, A.; Bracher, A.: DYNAMICS OF DOM IN THE LENA DELTA REGION (SIBERIA) REVEALED BY PARALLEL FACTORIAL ANALYSIS (ID: 27588)

114 **Burpee, B. T.**; Northington, R. M.; Simon, K. S.; Saros, J. E.: WITHIN-LAKE POTENTIAL FOR MICROBIAL DEGRADATION OF DOC IN ARCTIC LAKES OF SOUTHWESTERN GREENLAND (ID: 27312)

115 **Galletti, Y.**; Gonnelli, M.; Vestri, S.; Santinelli, C.: CDOM DYNAMICS IN OPEN WATERS OF THE MEDITERRANEAN SEA (ID: 27703)

116 **Masuda, Y.**; Taguchi, S.: PHOTO-DEGRADATION OF THE ALGAL CHROMOPHORIC DISSOLVED ORGANIC MATTER DERIVED FROM MARINE DIATOM (ID: 26740)

117 **Engel, A.**; Borchard, C.: EXTRACELLULAR RELEASE OF PRIMARY PRODUCTION BY EMILIANIA HUXLEYI: INSIGHTS TO STRUCTURE AND FUNCTION OF DISSOLVED COMBINED CARBOHYDRATES (ID: 25772)

118 **Morling, K.**; Tittel, J.: MICROBIAL DEGRADATION OF TERRESTRIAL DOC – EVIDENCE FOR AQUATIC PRIMING EFFECT (ID: 25641)

119 **Maydanov, A.**; Timko, S.; Luek, J.; Conte, M.; Gonsior, M.: TIME-RESOLVED PHOTOCHEMISTRY OF MARINE FLUORESCENT DISSOLVED ORGANIC MATTER (ID: 25625)

120 **Tittel, J.**; Müller, C.; Schultze, M.; Knoeller, K.: CONTEMPORARY AND ANCIENT CARBON MOBILIZED IN WATERSHEDS OF DIFFERENT LAND USE AND TOPOGRAPHY (ID: 26099)

121 **Halim, K. M.**; Liu, S.; Liu, Z.: EXAMINING CAPABILITIES OF TWO SINGLE BACTERIAL STRAINS ON PEPTIDE DEGRADATION (ID: 26447)

122 **Yoon, B.**; Raymond, P.: IN-SITU MEASUREMENT OF DISSOLVED ORGANIC MATTER REMOVAL – LEAF LEACHATE INJECTION EXPERIMENT IN A FIRST ORDER STREAM (ID: 27244)

123 **Jennings, M. K.**; Hansell, D. A.: ENHANCEMENT OF DEEP EQUATORIAL PACIFIC DOC: ALLOCHTHONOUS OR AUTOCHTHONOUS SOURCE? (ID: 27478)

124 **Li, Y.**; Harir, M.; Lucio, M.; Kanawati, B.; Hertkorn, N.; Flerus, R.; Schmitt-Kopplin, P.: PROPOSED GUIDELINES FOR SOLID PHASE EXTRACTION (SPE) OF SUWANNEE RIVER DISSOLVED ORGANIC MATTER (SR DOM) (ID: 26373)

023 BIOGEOCHEMISTRY AND ECOLOGY OF AFRICAN INLAND WATERS

Chair(s): Steven Bouillon, Steven.Bouillon@ees.kuleuven.be
Alberto Borges, alberto.borges@ulg.ac.be
Francois Darchambeau, Francois.Darchambeau@ulg.ac.be
Jean-Pierre Descy, jean-pierre.descy@fundp.ac.be

Location: Poster and Exhibit Area (Floor 1)

125 **Darchambeau, F.**; Muvundja Amisi, F.; Morana, C.; Leporcq, B.; Rugema , E.; Descy, J.; Bouillon, S.: FATE AND DOWNWARD FLUXES OF ORGANIC MATTER AND PHYTOPLANKTON PIGMENTS IN A DEEP TROPICAL LAKE (ID: 26290)

126 **Darchambeau, F.**; Descy, J. P.; Leporcq, B.; Stoyneva, M. P.; Bouillon, S.; Borges, A. V.: PLANKTON DIVERSITY AND METABOLISM IN THE CONGO RIVER DURING HIGH WATERS (DECEMBER 2013) AND LOW WATERS (JUNE 2014) (ID: 26104)

127 **Kelemen, Z.**; Gillikin, D. P.; Havel, H.; Graniero, L.; Yambélé, A.; Bouillon, S.: STABLE ISOTOPES IN FRESHWATER BIVALVE SHELLS: RECONSTRUCTING THE OUBANGUI RIVER (CONGO BASIN) DISCHARGE USING RECENT AND ARCHIVED MUSEUM SPECIMENS (ID: 26082)

128 **Bila-Isia, I.**; Zanga, A.; Mputu, A.; Willen, E.; Wilander, A.; Bishop, K.: AQUATIC ASSESSMENT OF THE LAKE TUMBA LANDSCAPE, DR CONGO (ID: 27627)

035 FROM PAST TO PRESENT: OCEAN PRODUCTIVITY AND BIOGEOCHEMISTRY

Chair(s): Francisca Martinez-Ruiz, fmruiz@ugr.es
 Adina Paytan, apaytan@ucsc.edu
 Gert de Lange, G.J.deLange@uu.nl
 Eva Calvo, ecalvo@icm.csic.es
 Isabel Cacho, icacho@ub.edu

Location: Poster and Exhibit Area (Floor 1)

- 173 **Català, A.**; Cacho, I.; Frigola, J.; Canals, M.: HOLOCENE CLIMATE VARIABILITY IN THE WESTERN ALBORAN SEA (ID: 27211)
- 174 **Gallego-Torres, D.**; de Lange, G. J.; Martinez-Ruiz, F.; Nieto-Moreno, V.; Rodrigo-Gámiz, M.; Ortega-Huertas, M.: ORGANIC MATTER DEPOSITION IN THE ALBORAN SEA BASIN AS RECORD OF PALEOCEANOGRAPHIC CONDITIONS DURING THE LAST 15KYR (ID: 27353)
- 175 **Gallego, M. A.**; Chikamoto, M.; Hauri, C.; Timmermann, A.: HOTSPOTS OF NATURAL VARIABILITY IN UPPER OCEAN PH AND CARBONATE ION CONCENTRATION (ID: 27746)
- 176 **Cacho, I.**; Pena, L.; Calvo, E.; Pelejero, C.: LAST DEGLACIATION CHANGES IN THE EQUATORIAL UPWELLING SYSTEM (ID: 27482)
- 177 **Jacobson, Y.**; Yam, R.; Chemello, R.; Shemesh, A.: VERMETID REEFS AS MULTIPLE-PROXY ARCHIVE FOR NATURAL AND ANTHROPOGENIC PROCESSES IN THE MEDITERRANEAN SEA (ID: 26950)
- 178 **Calvo, E.**; Quiros, L.; Bostock, H.; Neil, H.; Pelejero, C.: RECONSTRUCTION OF PAST SHIFTS IN THE POSITION OF THE SUBTROPICAL FRONT SOUTH OF NEW ZEALAND SINCE THE LAST GLACIAL PERIOD (ID: 25990)
- 179 **Dorador, J.**; Rodríguez-Tovar, F. J.: PALEOCЛИMATIC CHANGES AFFECTING DEEP-SEA ENVIRONMENT IN THE WESTERN IBERIAN MARGIN: THE ICHNOLOGICAL RECORD AS A PROXY FOR THE MEDITERRANEAN RESEARCH (ID: 25686)
- 180 **Morcillo-Montalbá, L.**; Martínez-Ruiz, F.; Ortega-Huertas, m.: WESTERNMOST MEDITERRANEAN PALEOCЛИMATE EVOLUTION OVER THE LAST 30 KYR: A HIGH-RESOLUTION GEOCHEMICAL RECORD OF THE LAST DEGLACIATION. (ID: 26593)
- 182 **Martinez-Ruiz, F.**; Gallego-Torres, D.; Rodrigo-Gámiz, M.; Nieto-Moreno, V.; Jiménez-Espejo, F. J.; Paytan, A.; Ortega-Huertas, M.: THE MEDITERRANEAN BARIUM RECORD: LINKING PRODUCTIVITY FLUCTUATIONS AND CLIMATE VARIABILITY OVER THE LAST 20 KYR (ID: 26358)
- 183 **Jakowczyk, M.**; Stramska, M.: VARIABILITY OF OCEAN COLOR IN COASTAL WATERS OF THE BARENTS SEA (ID: 26188)

036 HUMAN AND JELLYFISH INTERACTIONS

- Chair(s): Veronica Fuentes, vfuentes@icm.csic.es
 Stefano Piraino, stefano.piraino@unisalento.it
 Macarena Marambio, marambio@icm.csic.es
 Jennifer E. Purcell, purcelj3@wwu.edu
- Location: Poster and Exhibit Area (Floor 1)
- 184 **Hoehn, D.**; Lucas, C.; Thatje, S.: RESPIRATORY RESPONSE OF *AURELIA AURITA* POLYPS TO TEMPERATURE ACROSS ITS THERMAL LIMITS (ID: 27001)

- 185 **Alonso, C.**; Bordehore, C.; Sánchez-Fernández, L.; Canepa, A. J.; Acevedo, M.; Nogu , S.; Fuentes, V. L.: JELLYFISH PREVAIL AMONG LIFEGUARD ASSISTANCES AT THE SPANISH MEDITERRANEAN BEACHES. PROPOSALS FOR IMPROVING RISK MANAGEMENT. (ID: 26549)
- 186 **Isinibilir, M.**: DISTRIBUTION OF CHRYSORA HYSOSCELLA (LINNAEUS, 1767) IN THE MARMARA SEA (ID: 27160)

040 HIGH THROUGHPUT MOLECULAR TOOLS IN AQUATIC ECOLOGY

- Chair(s): Marc E. Frischer, marc.frischer@skio.uga.edu
 Christofer Troedsson, Christofer.Troedsson@uni.no
- Location: Poster and Exhibit Area (Floor 1)
- 196 **Gibson, D. M.**; Green, S.; Leandré, M.; Walters, T.; Elliott, D. T.: DOLIOLID BLOOMS: (ID: 27614)
- 197 **Lekang, K.**; Hadziavdic, K.; Jonassen, I.; Thompson, E. M.; Sandnes Skaar, K.; Lanz n, A.; Troedsson, C.: DEVELOPMENT AND EVALUATION OF MICROARRAYS TO INVESTIGATE EUKARYOTIC DIVERSITY IN MARINE SEDIMENTS (ID: 26336)
- 198 **Monchamp, M.**; Pomati, F.; Spaak, P.: INVESTIGATING THE LONG-TERM CYANOBACTERIAL RESPONSE TO EUTROPHICATION AND RE-OLIGOTROPHICATION USING GENETIC AND MONITORING DATA (ID: 26008)
- 199 **Hadziavdic, K.**; Lekang, K.; Lanzen, A.; Jonassen, I.; Thompson, E.; Troedsson, C.: HIGH THROUGHPUT SEQUENCING TECHNOLOGY FOR ENVIRONMENTAL MONITORING OF EUKARYOTIC BIODIVERSITY (ID: 25923)
- 200 **Parada, A. E.**; Needham, D. M.; Ahlgren, N. A.; Fuhrman, J. A.: TIME-SERIES AND SURFACE TO SEAFLOOR ANALYSIS OF MARINE ARCHAEL DIVERSITY THROUGH 16S rDNA AND METAGENOMIC SEQUENCING (ID: 25902)
- 201 **Frischer, M. E.**; Walters, T. L.; Bulski, K. E.; Walker, A. N.; Mathes, T.; Geer, P.; Lee, R. F.: SHRIMP BLACK GILL IN THE COASTAL SOUTHEAST USA, CAUSES AND CONSEQUENCES: INTEGRATING HIGH THROUGHPUT SEQUENCING DATA WITH OTHER LARGE DATA-SETS (ID: 25873)
- 202 **Israelsson, S.**; Berggren, H.; Lindh, M. V.; Lundin, D.; Legrand, C.; Forsman, A.; Pinhassi, J.: BACTERIAL COMMUNITIES IN FISH ARE SPECIFIC TO DIFFERENT FISH SPECIES AND DIFFER FROM THE BACTERIAL COMMUNITY COMPOSITION OF THE SURROUNDING SEAWATER (ID: 26017)

056 AQUATIC MICROBES IN A DROP OF WATER: FROM SINGLE CELLS TO COMMUNITY INTERACTIONS

- Chair(s): Dr Joseph Christie-Oleza, j.christie-oleza@warwick.ac.uk
 Dr Cristiana Callieri, c.callieri@ise.cnr.it
 Prof David Scanlan, D.J.Scanlan@warwick.ac.uk
- Location: Poster and Exhibit Area (Floor 1)
- 250 **Parada, C.**; Bravo, Z.; Orru , M.; Arana, I.: EFFECTS OF TEMPERATURE AND PREDATION ON PERMANENCE OF *VIBRIO HARVEYI* IN SEAWATER (ID: 26636)
- 251 **Dadon-Pilosof, A.**; Conley, K.; Lombard, F.; Sutherland, K.; Steindler, L.; Tikochinski, Y.; Richter, M.; Gilboa, M.; Genin, A.; Yahel, G.: NON-PHOTOSYNTHETIC BACTERIA ELUDE APPENDICULARIA FILTRATION IN SITU (ID: 25598)

WEDNESDAY

252 **Wyatt, K. H.**; Rober, A. R.; Turetsky, M. R.: ALGAE PROMOTE HETEROTROPHIC METABOLISM THROUGH THE RELEASE OF CARBON SUBSIDIES IN A BOREAL PEATLAND (ID: 25440)

253 Jobard, M.; Marie, D.; Vaulot, D.; Domaizon, I.; SIME-NGANDO , T.; Debroas, D.; **Lepere, C.**: FUNCTIONAL ROLE OF OVERLOOKED TINY PARASITES IN LACUSTRINE ECOSYSTEMS: A SINGLE CELL APPROACH (ID: 25445)

254 **Bertoni, R.**; Hernández-Avilés, S.; Salcher, M. M.; Callieri, C.: THAUMARCHEAOA IN THE WATER COLUMN OF SIX DEEP PREALPINE LAKES (ID: 25800)

255 **Huang, T.**; Ostrowski, M.; Mazard, S.; Jin, D.; Pauslen, I.: METAGENOMICS AND SINGLE CELL ANALYSES OF MARINE PHOTOSYNTHETIC PICOEUKARYOTES (ID: 25664)

068 EVOLUTIONARY EFFECTS OF OCEAN WARMING AND ACIDIFICATION

Chair(s): Sam Dupont, sam.dupont@bioenv.gu.se
Piero Calosi, piero.calosi@plymouth.ac.uk
Frank Melzner, fmelzner@geomar.de
Pierre de Wit, pierre.de_wit@bioenv.gu.se
Peter Thor, peter.thor@npolar.no
David Fields, dfields@bigelow.org

Location: Poster and Exhibit Area (Floor 1)

288 **Harney, E.**; Nunes, F.: RESPONSES OF MARINE MOLLUSCS TO CHANGING TEMPERATURE AND PH DURING EARLY DEVELOPMENT (ID: 26924)

289 **Kumar, A.**; Patti, F. P.; Castellano, I.; Delledonne, M.; Buia, M. C.; Palumbo, A.: ADAPTATION VERSUS ACCLIMATION IN *SARGASSUM VULGARE*: A KEY STUDY IN ACIDIFIED WATER (ID: 26531)

290 **Chiarore, A.**; Buia, M. C.; Patti, F. P.: GENETIC VARIABILITY OF *SARGASSUM VULGARE* POPULATIONS OFF ISCHIA ISLAND: THE CASE OF THE ACIDIFIED AREA "CASTELLO ARAGONESE" (ID: 27113)

080 DIAPAUSE STRATEGIES IN AQUATIC ORGANISMS: ECOLOGICAL AND EVOLUTIONARY CONSEQUENCES

Chair(s): Luc Brendonck, luc.brendonck@bio.kuleuven.be
José María Conde-Porcuna, jmconde@ugr.es

Location: Poster and Exhibit Area (Floor 1)

327 **Paes, T. A.**; Rietzler, A. C.; Maia-Barbosa, P. M.: TECHNIQUES FOR THE ISOLATION OF RESTING EGGS CONTAINED WITHIN EPHIPPIUM OF DAPHNIA (ID: 26878)

328 **Veiga-Neto, J.**; Moreno-Linares, E. J.; Pérez-Martínez, C.; Conde-Porcuna, J. M.: GENETIC VARIABILITY IN THE SPECIES COMPLEX OF *DAPHNIA PULEX-PULICARIA* FROM SIERRA NEVADA LAKES (SPAIN) (ID: 26753)

329 Paes, T. A.; Rietzler, A. C.; **BARBOSA, P. M.**: HIGH TEMPERATURES AND LACK OF LIGHT AFFECT THE HATCHING RESTING EGGS OF DAPHNIA IN THE TROPICS (ID: 27350)

082 AQUATIC MICROBIAL COMMUNITIES ACROSS GEOGRAPHIC AND TROPHIC GRADIENTS

Chair(s): Irina Izaguirre, iri@ege.fcen.uba.ar
Hugo Sarmento, hugo.sarmento@gmail.com
M. Romina Schiaffino, rominaschiaffino@ege.fcen.uba.ar

Location: Poster and Exhibit Area (Floor 1)

332 **Schiaffino, M. R.**; Lara, E.; Balagué, V.; Izaguirre, I.: INFLUENCE OF GEOGRAPHIC DISTANCE AND LOCAL ENVIRONMENTAL FACTORS IN SHAPING SMALL EUKARYOTE COMMUNITY STRUCTURE ALONG A LATITUDINAL GRADIENT OF LAKES (ID: 25733)

333 **Pajunen, V.**; Luoto, M.; Soininen, J.: ARE DIATOM ASSEMBLAGES USEFUL PREDICTORS OF CLIMATE? (ID: 26499)

334 **Gaynus, C.**; Howard, K.; Wallace, S.; Hatton, D.; Henry, C.; Fong , P.: HOW DO BIOTIC COMPONENTS OF SEDIMENT AFFECT TURF ALGAE GROWTH IN MO'OREA FRENCH POLYNESIA? (ID: 26329)

335 **Broman, E.**; Sjöstedt, J.; Pinhassi, J.; Dopson, M.: CHANGES IN BALTIC SEA SEDIMENT OXYGEN CONCENTRATIONS INDUCES CHANGES IN MICROBIAL COMMUNITY STRUCTURES (ID: 26674)

336 **Van Colen, W.**; Mosquera, P.; Vanderstukken, M.; Goiris, K.; Carrasco, M.; Decaestecker, E.; Alonso, M.; Tamariz, L.; Muylaert, K.: LIMNOLOGY AND HUMAN IMPACTS IN TROPICAL ALPINE LAKES IN THE ANDEAN PÁRAMO (CAJAS NATIONAL PARK, ECUADOR) (ID: 26912)

337 **Negreiros, O. P.**; Lansac-Tôha, F. M.; Meira, B. R.; Buosi, P. B.; Segóvia, B. T.; Cabral, A. F.; Machado Velho, L. F.: CHANGES IN THE PLANKTONIC CILIATES COMMUNITY ALONG A TROPHIC GRADIENT IN A GREAT TROPICAL RIVER (ID: 27617)

100 MICROBIAL BIOGEOCHEMISTRY OF TIDAL FLATS AND SHALLOW SEDIMENTS: PHYSICAL FORCING BY TIDES AND PHOTOPERIOD

Chair(s): Alfonso Corzo, alfonso.corzo@uca.es
Graham J. C. Underwood, gjcu@esssex.ac.uk
Sokratis Papaspyprou, sokratis.papaspyprou@uca.es

Location: Poster Area (Floor 2)

399 **Papaspyprou, S.**; García-Robledo , E.; Bohórquez , J.; Jiménez-Arias , J. L.; Calenti, D.; Corzo, A.: IS THE SEDIMENT AN INEXHAUSTIBLE NUTRIENT SUPPLY FOR BENTHIC MICROALGAE? (ID: 26003)

400 **Beraldó Bittar, T.**; Robertson, C. Y.; Thompson, M. E.; Tait, Z. S.; Savidge, W. B.; Edwards, C. R.; Stubbins, A. P.; Brandes, J. A.: TIDAL, DIURNAL AND SEASONAL DYNAMICS OF AUTOTROPHIC AND HETEROTROPHIC MICROBIAL COMMUNITIES IN A TIDAL SALTMARSH-CREEK ECOSYSTEM. (ID: 26350)

401 **Bohórquez, J.**; McGinity, T. J.; Sokratis, P.; García-Robledo, E.; Corzo, A.; Underwood, G., J. C.: HETEROTROPHIC BACTERIAL COMMUNITY CHANGES IN RESPONSE TO DIATOM-DERIVED CARBOHYDRATES FROM INTERTIDAL SEDIMENTS (ID: 26059)

402 **Corzo, A.**; Crespo, J. M.; Bohórquez, J.; García-Robledo, E.; Soria-Píriz, S.; Gómez, E.; Papaspyprou, S.: CHANGES IN OXYGEN CONCENTRATION AND NET METABOLISM AT THE SEDIMENT-WATER INTERFACE DURING TIDAL TRANSITIONS (ID: 26000)

108 OCEAN ACIDIFICATION AND LOWER TROPHIC LEVELS: IDENTIFYING THE KNOWLEDGE GAPS - POSTER SESSION

- Chair(s): Charles Trick, trick@UWO.ca
Mark L. Wells, mlwells@maine.edu
William P. Cochlan, Cochlan@sfsu.edu
- Location: Poster Area (Floor 2)
- 415 **Kim, D.**: ARAGONITE UNDERSATURATION IN JINHAE BAY, SOUTH KOREA (ID: 25662)
- 416 **Wells, M. L.**; Trick, C. G.; Trainer, V. L.; Ikeda, C. E.; Schellenbach, A.; Thornton, K.; Bill, B. D.: THE EFFECT OF OCEAN ACIDIFICATION ON THE AVAILABILITY OF AMBIENT FE IN UPWELLING WATERS (ID: 27453)
- 417 **de la Broise, D.**; Sutton, J. N.; Thuroczy, C. E.; Boye, M.: A NEW BIOREACTOR DESIGN FOR CULTIVATING MARINE PHOTOTROPHS UNDER CO₂-DRIVEN CONSTANT PH AND TRACE METAL CLEAN CONDITIONS (ID: 26707)

116 IMPACT OF MICROBIAL BIODIVERSITY ON AQUATIC ECOSYSTEM FUNCTIONING AND BIOGEOCHEMISTRY

- Chair(s): Adam Martiny, amartiny@uci.edu
Elena Litchman, litchman@msu.edu
Christopher Klausmeier, klausme1@msu.edu
Juan Bonachela, jabo@princeton.edu
Simon Levin, slevin@princeton.edu
- Location: Poster Area (Floor 2)
- 444 **Kopprio, G. A.**; Okuno, K.; Streitenberger, M. E.; Baldini, M.; Biancalana, F.; Yamasaki, S.; Lara, R. J.: VIBRIO spp. IN TWO ESTUARIES OF THE ARGENTINIAN PATAGONIA: HUMAN HEALTH RISKS AND IMPLICATION ON CLIMATE CHANGE (ID: 25558)

118 LIFE AT SMALL SCALE: MICROSCALE INSIGHTS INTO AQUATIC SYSTEMS

- Chair(s): Mimi Koehl, cnidaria@berkeley.edu
Thomas Kiorboe, tk@aqua.dtu.dk>
Roman Stocker, romans@MIT.EDU
Stuart Humphries, S.Humphries@hull.ac.uk
- Location: Poster Area (Floor 2)
- 445 **Orchard, M. J.**; Humphries, S.; Schuech, R.; Menden-Deuer, S.: THE INFLUENCE OF VISCOSITY ON PROTISTAN SWIMMING AND SENSORY ABILITIES (ID: 26083)
- 446 **García-Herrera, N.**; Kunzmann, A.; Ferse, S.; Genin, A.: PHYSIOLOGICAL EFFECTS OF THE MUTUALISTIC RELATIONSHIP BETWEEN *DASCYLLUS MARGINATUS* AND *STYLOPHORA PISTILLATA* IN THE NORTHERN RED SEA (ID: 27179)
- 447 **Romero-Niembro, V. M.**; Mayén-Estrada, R.; Vicencio-Aguilar, M.; Reyes-Santos, M.; González-Palma, C. A.; Medina-Durán, J. H.: REGIONAL AND GLOBAL DISTRIBUTION OF TEN SPECIES OF CILIATES FROM ZUMPANGO LAKE, MEXICO (ID: 26478)

120 KEY PLAYERS IN BENTHIC PROCESSES: MICRO VS. MACRO

- Chair(s): Diana Vasquez Cardenas, diana.vasquez@nizoz.nl
Francesc Montserrat, francesc.montserrat@nizoz.nl
- Location: Poster Area (Floor 2)
- 452 **Middelboe, A. L.**; Møhlenberg, F.; Rasmussen, E. K.; Birkeland, M. J.: PREDICTING IMPACTS OF DREDGING ACTIVITIES ON UNDERWATER LIGHT CLIMATE AND GROWTH OF BENTHIC MACROALGAE (ID: 26191)

- 453 **Bonaglia, S.**; Nascimento, E.; Bartoli, M.; Klawonn, I.; Brücher, V.: INTERACTIVE EFFECTS OF MEIOFAUNA AND MACROFAUNA ON NITROGEN CYCLING IN MARINE SEDIMENTS (ID: 27343)
- 454 **Ziebis, W.**; Dentinger, J.; Wankel, S. D.: DOES BIOTURBATION ACTIVITY ENHANCE NITROUS OXIDE FLUXES FROM BENTHIC ENVIRONMENTS? (ID: 27528)
- 455 **Mori, F.**; Yamaki, K.; Ueda, R.; Kondo, R.; Umezawa, Y.; Matsuoka, K.; Suzaki, K.; Nakata, H.; Wada, M.: SEASONAL VARIATION IN MICROBIAL COMMUNITY RESPIRATION OF DEAD ZONE SEDIMENTS OF OMURA BAY, JAPAN (ID: 26501)
- 456 **Herren, C. M.**; Webert, K. C.; Drake, M. D.; Einarsson, A.; Ives, A. R.: MUTUALISM BETWEEN CHIRONOMID LARVAE AND BENTHIC ALGAE AT LAKE MYVATN, ICELAND (ID: 26448)

121 NATURAL AND ANTHROPOGENIC DISTURBANCES ON DEEP-SEA ECOSYSTEMS

- Chair(s): Dick van Oevelen, Dick.van.Oevelen@nioz.nl
Andrew Sweetman, Andrew.Sweetman@iris.no
- Location: Poster Area (Floor 2)
- 457 **Juan-Díaz, X.**; Paradis, S.; Masqué, P.; Puig, P.; Gorelli, G.; Company, J. B.: ENHANCED IMPACT OF FISH-TRAWLING IN SEDIMENT ACCUMULATION RATES IN THE DEEP SEA IN THE LAST DECADE: THE CASE OF THE FOIX CANYON, NW MEDITERRANEAN (ID: 26335)

123 MULTI-METHODS CONNECTIVITY ESTIMATES TO IMPROVE MARINE PROTECTION DESIGN

- Chair(s): Katell Guizien, guizien@obs-banyuls.fr
Sophie Arnaud-Haond, s.arnaud@univ-montp2.fr
- Location: Poster Area (Floor 2)
- 458 **Barbut, L. M.**; Delerue-Ricard, S.; Vanden Bavière, A.; Maes, G.; Robbens, J.; Volckaert, F. A.; Lacroix, G.: INTEGRATING FIELD DATA TO PARAMETERIZE A LARVAL TRANSPORT MODEL OF SOLE AND IMPROVE KNOWLEDGE ON CONNECTIVITY IN THE NORTH SEA (ID: 25879)
- 459 **Taymans, M. M.**; Wolter, J.; Thomas, C.; Hanert, E.: TOWARDS THE ESTIMATION OF INTER-REEF CONNECTIVITY OF REEF FISHES POPULATIONS FOR IMPROVING THE DESIGN OF MARINE PROTECTED AREAS NETWORKS (ID: 27089)
- 460 **Guizien, K.**; Conchon, A.; Carpenter, A.; Acou, A.; Reveillac, E.; Feunteun, E.: COUPLING METAPOPULATION MODELLING AND POPULATION GENETICS TO GUIDE ALOSA FALLAX PROTECTION IN THE GULF OF LIONS (ID: 26958)

126 SCALES OF VARIABILITY IN SOURCES AND SINKS OF METHANE IN LAKES, RESERVOIRS AND RIVERS

- Chair(s): Bradford Sherman, csiro.brad@icloud.com
Tonya Delsontro, tdelsontr@gmail.com
- Location: Poster Area (Floor 2)
- 461 **Atkins, M. A.**; Santos, I. R.; Maher, D. T.: GROUNDWATER METHANE IN A POTENTIAL COAL BED METHANE EXTRACTION REGION (ID: 26465)
- 462 **Mello, N. A.**; Brighenti, L. S.; Barbosa, F. A.; **Bezerra-Neto, J. F.**: SPATIO-TEMPORAL VARIABILITY OF METHANE EBULLITION FROM A BRAZILIAN URBAN RESERVOIR: THE ROLE OF TEMPERATURE AND SILTATION (ID: 26206)

WEDNESDAY

- 463 Milucka, J.; Kirf, M.; Lu, L.; Krupke, A.; Lam, P.; Littmann, S.; Kuypers, M. M.; **Schubert, C. J.**: METHANE OXIDATION COUPLED TO OXYGENIC PHOTOSYNTHESIS IN ANOXIC WATERS (ID: 25467)

130 IN SITU STUDIES OF THE IMPACTS OF OCEAN ACIDIFICATION: OBSERVATIONS, CO₂ VENTS, AND FOCE EXPERIMENTS

- Chair(s): James P. Barry, barry@mbari.org
David Kline, dcline@ucsd.edu
Jean-Pierre Gattuso, gattuso@obs.vlfr.fr

Location: Poster Area (Floor 2)

- 468 **Wallace, R. B.**; Gobler, C. J.: CONTRASTING PATTERNS OF DIURNAL VARIABILITY IN DO, PH AND PCO₂ AMONG COASTAL HABITATS (ID: 26981)
469 **Tait, K.**; Stahl, H.; Taylor, P.; Watanabe, Y.; Hayashi, M.; Widdicombe, S.: INVESTIGATION OF THE IMPACT OF A CONTROLLED SUB-SEABED RELEASE OF CO₂ ON MICROBIAL COMMUNITIES (ID: 27111)
470 **Diaz-Castañeda, V.**; Delille, J.; Gazeau, F.; Cox, E.; Gattuso, J.: EFFECTS OF OCEAN ACIDIFICATION ON THE POLYCHAETES SPIROBRANCHUS TRIQUETER AND SPIRORBIS SPIRORBIS. (ID: 26495)
471 **Chace, P. J.**; Butterfield, D. A.: GEOCHEMICAL IMPACTS OF SHALLOW VOLCANIC GAS VENTS ON CORAL REEFS AT MAUG ISLAND (ID: 27561)
472 **Gambi, M. C.**; Teixidó, N.: NEW VOLCANIC CO₂ VENT SYSTEMS ALONG THE COAST OFF THE ISCHIA ISLAND (ITALY) TO ASSESS THE IMPACTS OF OCEAN ACIDIFICATION (ID: 25856)
473 **Horn, H. G.**; Sander, N.; Algueró-Muñiz, M.; Löder, M.; Boersma, M.; Aberle, N.: EFFECTS OF OCEAN ACIDIFICATION ON NORTH SEA MICROZOOPLANKTON COMMUNITIES (ID: 26333)

131 FRONTIERS IN INVASION ECOLOGY RESEARCH: THEORETICAL FRAMEWORKS, METHODS AND APPLICATIONS

- Chair(s): Anthony Ricciardi, tony.ricciardi@mcgill.ca
Hugh MacIsaac, hughm@uwindsor.ca
Jaimie Dick, j.dick@qub.ac.uk
Belinda Gallardo, belinda@ebd.csic.es
Andy Green, ajgreen@ebd.csic.es

Location: Poster Area (Floor 2)

- 474 Drolet, D.; DiBacco, C.; Locke, A.; McKenzie, C. H.; McKinsey, C. W.; **Moore, A. M.**; Webb, J. L.; Therriault, T. W.: CMIST: A NEW SCREENING-LEVEL RISK ASSESSMENT TOOL FOR MARINE INVERTEBRATE SPECIES (ID: 26171)
475 **Morden, A. L.**; Hendry, A. P.; Ricciardi, A.: VARIATION IN HYPOXIA TOLERANCE ACROSS INVASIVE ASIAN CLAM POPULATIONS (ID: 25478)
477 **Mychek-Londer, J. G.**; Heath, D. D.; Qureshi, S. A.; MacIsaac, H. J.: USE OF RNA BARCODING TO REDUCE BALLAST WATER INDUCED AQUATIC INVASIVE SPECIES TRANSFER AND SPREAD. (ID: 27383)
479 **Gallmetzer, I.**; Haselmair, A.; Tomasovych, A.; Stachowitsch, M.; Zuschin, M.: BIVALVE DEATH ASSEMBLAGES SUGGEST EARLY APPEARANCE OF THE INVASIVE SPECIES *ANADARA TRANSVERSA* (SAY, 1822) IN THE NORTHERN ADRIATIC SEA (ID: 26860)

133 AQUATIC SCIENCE EDUCATION AND OUTREACH: EXPANDING INTERNATIONAL SCIENCE LITERACY

- Chair(s): Bob Chen, bob.chen@umb.edu
Adrienne Sponberg, sponberg@aslo.org
Linda Duguay, duguay@usc.edu

Location: Poster Area (Floor 2)

- 486 **Rossi, F.**; Sembeil, B.; Dumons, L.; Paix, L.; Urbaniak, O.; Carcaillet, F.: UNDERSTANDING CITIZEN LITERACY TO INCREASE THEIR AWARENESS IN SEAGRASS CONSERVATION ISSUES FOR THE THAU LAGOON, SOUTH OF FRANCE (ID: 26195)
487 **Capello, M.**; Cutroneo, L.; Massa, F.; Castellano, M.; Canepa, G.; Di Luca, G.; Basile, M.; Costa, S.; Povero, P.; Tucci, S.: PUBLIC APPROACH TO INVOLVE DREDGING STAKEHOLDERS AND CITIZENS IN THE DEVELOPMENT OF A PORT AREA (ID: 26203)
488 **Huete-Stauffer, T. M.**; Bunse, C.; Closek, C.; Gradoville, R.; Mohamed, R.; Moreno, C.; Taylor, J.; Wilburn, P.; Budinich-Abara, M. A.; Burrel, T.; Gazitúa-Zavala, C. M.; Gimpel, C.; Kim, H.; Liao, W. H.; Peoples, L.; Vislova, A.: GENOMES TO BIOMES: A SUMMER COURSE ON MICROBIAL OCEANOGRAPHY (ID: 25863)
489 **Kemp, P. E.**; Baker, L. J.: ECOLOGICAL DISSERTATIONS IN THE AQUATIC SCIENCES (ID: 27599)
490 **Steen, A. D.**; Murray, P. J.; Ferriero, N.; Malcolm X Shabazz Aquatic Geochemistry Team, A.; Rosalsky, J.; Lloyd, K. G.: INVOLVING AT RISK HIGH SCHOOL STUDENT POPULATIONS IN PRIMARY RESEARCH: A CASE STUDY USING EXTRACELLULAR ENZYME ASSAYS (ID: 27752)
- 134 UNDERGRADUATE RESEARCH IN MARINE AND AQUATIC SCIENCES - POSTER SESSION**
- Chair(s): David Fields, dfields@bigelow.org
Lisa Rom, elrom@nsf.gov
- Location: Poster Area (Floor 2)
- 491 **Gray, L. D.**; Munroe, D. M.; Rowell, K.: SEDIMENT CHARACTERISTICS GOVERNING BIOLOGICAL PRODUCTIVITY IN ANCIENT CLAM GARDENS (ID: 27388)
492 **Hoeglund, A. E.**; Poultan, N. J.; Countway, P. D.; Anderson, S. R.; Haugen, E. M.: PROTOZOAN GRAZING ON SYNECHOCOCCUS: MOLECULAR DIVERSITY OF GRAZERS & THEIR IMPACT ON THE SEASONAL BLOOM IN BOOTH BAY, ME (ID: 27201)
493 **Dylla, N. P.**; Fox, R.; Fisher, T.: A POTENT GREENHOUSE GAS SOURCE: NITROUS OXIDE EMISSION DURING BASE FLOW AND STORM FLOW IN THE CHOPTANK RIVER BASIN (ID: 27257)
494 **Egan, K.**; Moseman-Valtierra, S.: GREENHOUSE GAS EMISSIONS VARY WITH SALT MARSH ZONATION IN WAQUOT BAY, MASSACHUSETTS, USA (ID: 27229)
495 **Patton, S. R.**; Miller, R. J.; Page, H. M.: CARBON TURNOVER IN TISSUES OF THREE SUSPENSION FEEDERS IN SOUTHERN CALIFORNIA (ID: 27461)
496 **Gustafson, A. E.**; Roesler, C.; Goodwin, D.: EVALUATING THE DEEP CHLOROPHYLL MAXIMUM: AN ANALYSIS OF FACTORS RESPONSIBLE FOR ITS FORMATION IN THE CENTRAL EQUATORIAL PACIFIC OCEAN (ID: 27750)
497 **Marquis, N. D.**; Fernandez-Robledo, J. A.: A SURVEY OF EASTERN OYSTERS(CRASSOSTREA VIRGINICA) IN MAINE FOR PATHOGENIC PROTOZOA (ID: 25520)

- 498 **Yazzie, A. T.**; Gallo, N.; Levin, L. A.: USING STABLE ISOTOPE ANALYSIS TO ASSESS CROSS-SLOPE TROPHIC PATTERNS IN BENTHIC AND DEMERSAL FISH COMMUNITIES IN AN UPWELLING REGION (ID: 25731)
- 499 **Funkhouser, C. H.**; Labonté, J.; Martínez Martínez, J.; Sievert, S.; Zhang, Y.; Stepanauskas, R.: BIOGEOGRAPHICAL CHARACTERIZATION AND IDENTIFICATION OF PHAGES IN SINGLE AMPLIFIED GENOMES OF EPSILONPROTEOBACTERIA FROM DEEP SEA VENTS (ID: 25578)
- 500 **Vomacka, E. R.**; Cheng, S.; Menden-Deuer, S.; Rynearson, T. A.: UNRAVELING COMPLEX BEHAVIORS THROUGH TRANSCRIPTOME AND GENE EXPRESSION ANALYSIS: THE CASE OF SALINITY TOLERANCE OF THE RAPHIDOPHYTE HETEROSIGMA AKASHIWO (ID: 25950)
- 501 **Tran, K. M.**; Sato, K.; Levin, L.; Schiff, K.: EVALUATING THE DISTRIBUTION OF DEPTH AND SPECIES DENSITY OF ECHINOIDS (SEA URCHIN) ALONG THE COAST OF SAN DIEGO, CA IN RESPONSE TO LOW OXYGEN CONCENTRATIONS (ID: 25660)
- 502 **Bock, M. E.**; Fitzgerald, C. L.; Roman, M. R.: EFFECTS OF ENVIRONMENTAL OXYGEN PARTIAL PRESSURE ON NAUPLII RESPIRATION RATES OF THE PLANKTONIC COPEPOD, *ACARTIA TONSA* (ID: 25665)
- 503 **Erskine, S. J.**; Whitney, L. P.; Lomas, M. W.: SPATIAL ABUNDANCE OF PICOEUKARYOTES IN THE NORTH ATLANTIC (ID: 26291)
- 504 **Seidman, D. N.**; Record, N. R.: A MODEL OF POPULATION DYNAMICS FOR THE LIFE STAGES OF *SALPA FUSIFORMIS* IN THE GULF OF MAINE (ID: 26473)
- 505 **Gyles, S. A.**; Perryman, W.: CAN NEAR-TERM PRGNANT GRAY WHALES (*ESCHRICHTIUS ROBUSTUS*) BE DISTINGUISHED FROM OTHER SOUTHBOUND GRAY WHALES IN VERTICAL AERIAL PHOTOGRAPHS BASED ON SHAPE? (ID: 25962)
- 506 **Brighi, C.**; Diaz, J. M.; Apprill, A.; Hansel, C.: TEMPERATURE AND LIGHT EFFECTS ON EXTRACELLULAR SUPEROXIDE PRODUCTION BY ALGAL AND BACTERIAL SYMBIOTS IN CORALS: IMPLICATIONS FOR CORAL BLEACHING (ID: 25916)
- 507 **Wessel, B. M.**; Williams, M. R.: FACTORS RESPONSIBLE FOR THE DEVELOPMENT OF IRON FLOCCULATE IN STREAMS WITH AND WITHOUT REGENERATIVE STORMWATER CONVEYANCE (RSC) STRUCTURES (ID: 25905)
- 138 FOOD WEB INTERACTIONS AND TROPHIC LINKAGES**
- Chair(s): Bill Richardson, wrichardson@usgs.gov
Location: Poster Area (Floor 2)
- 525 **Zhang, S. W.**; Liu, H. B.; Guo, C.; Wu, C. J.; Xu, J.: DIFFERENTIAL GRAZING BY NOCTILUCA SCINTILLANS ON MONOSPECIFIC AND MIXED DIET (ID: 26320)
- 526 **Maceda-Veiga, A.**; Webster, G.; Canals, O.; Salvadó, H.; Weightman, A. J.; Cable, J.: IMPACT OF TEMPERATURE AND NITRATE POLLUTION ON THE MICROBIAL AND MICRO-METAZOAN COMMUNITIES OF FRESHWATER ECOSYSTEMS (ID: 25998)
- 527 **Yang, E.**; Kang, S.: MICROZOOPLANKTON COMMUNITIES AND THEIR HERBIVORY IN THE CHUKCHI BORDERLAND AND MENDELEYEV RIDGE, ARCTIC OCEAN (ID: 25592)
- 528 Vannucchi, P. E.; **Peralta-Maraver, I.**; Tierno de Figueroa, J. M.; López-Rodríguez, M. J.: DYNAMIC OF THE MACROINVERTEBRATE COMMUNITY AND FOOD WEB OF A MEDITERRANEAN STREAM (ID: 25778)
- 529 **Fenoy, E.**; Casas, J. J.; Moyano, F. J.: DIGESTIVE ENZYME ACTIVITIES AS INDICATORS OF TROPHIC RESOURCE USE BY SHREDDERS FROM HEADWATER STREAMS LOCATED IN REGIONS OF CONTRASTING ARIDITY (ID: 27358)
- 530 **Gerea, M.**; Queimaliños, C. P.; Soto Cárdenas, C.; Unrein, F.: PREY SELECTIVITY OF MIXOTROPHIC FLAGELLATES AS THE MAIN PREDATORS OF PICOPLANKTON IN PATAGONIAN OLIGOTROPHIC SHALLOW LAKES (ID: 27264)
- 531 **Legezynska, J.**; Zaborska, A.; Włodarska-Kowalcuk, M.; Pazdro, K.: SMALL- AND MESOSCALE VARIABILITY OF BENTHIC FOOD WEBS IN ARCTIC (ID: 26779)
- 143 COMMUNITY ECOLOGY**
- Chair(s): Pia Bartels, pia.bartels.pb@gmail.com
Location: Poster Area (Floor 2)
- 566 **Del Arco, A. I.**; Parra, G.; Downing, A. L.: EFFECTS OF BIODIVERSITY AND ENVIRONMENTAL VARIABILITY ON THE STRUCTURE, COMPOSITION AND STABILITY OF AQUATIC FOOD WEBS (ID: 25942)
- 567 **Galindo Estronza, A. M.**; Alfaro, M.; Schizas, N. V.: A MORPHOLOGICAL AND MOLECULAR CONTRIBUTION ON BENTHIC OSTRACODS WITH EMPHASIS ON THE POPULATIONS OF CARIBBEAN MESOPHOTIC REEFS (ID: 25953)
- 568 **Oganjan, K.**; Lauringson, V.; Kotta, J.; Pärnoja, M.: FACTORS AFFECTING ZEBRA MUSSEL RECRUITMENT TO ARTIFICIAL SUBSTRATE (ID: 26078)
- 569 **Jyrkkäkallio-Mikkola, J. M.**; Heino, J.; Soininen, J. H.: WITHIN- AND ACROSS-STREAM VARIATION IN BETA DIVERSITY OF DIATOMS (ID: 26493)
- 570 **Amadeo, F. E.**; Dias, J. D.; Segovia, B. T.; Simoes, N. R.; Lansac-Toha, F. A.: EFFECTS OF BROMELIAD FLOWERING EVENT ON THE COMPOSITION OF AQUATIC LARVAE INSECT (ID: 27348)
- 571 **López, C.**; McCabe, D.: IMPACTS OF MOLLUSCA AND GASTROPODA SHELL PRODUCTION AND THEIR POSSIBLE ROLE AS ECOSYSTEM ENGINEERS IN MISSISQUOI BAY (ID: 27640)
- 572 **Nasi, F.**; Aleffi, I. F.; Bettoso, N.; Cibic, T.; Del Negro, P.: MACROZOOBENTHIC COMMUNITY RESPONSE TO CHANGING ENVIRONMENTAL CONDITIONS IN A LONG TERM ECOLOGICAL RESEARCH COASTAL SITE (ID: 25688)
- 573 **Pascual, J.**; Lastra, M.; Briones, M. J.; Page, H. M.: WARMING COULD ENHANCE INTER-SPECIFIC COMPETITIVE ABILITIES OF THE CORDGRASS *SPARTINA PATENS* (ID: 26762)
- 574 **Shull, D. H.**; Yang, S.; Walser, A.; Lim, S.: EFFECTS OF SEDIMENT PORE WATER HYDROGEN SULFIDE ON GROWTH AND PHOTOSYNTHETIC EFFICIENCY OF THE EELGRASS *ZOSTERA MARINA* (ID: 26486)
- 575 **Sakai, Y.**; Karube, Z.; Shibata, J.; Takeyama, T.; Tayasu, I.; Yachi, S.; Nakano, S.; Okuda, N.: THE IMPACT OF LAND USES ON BENTHIC MACROINVERTEBRATE DIVERSITY IN THE COASTAL ECOSYSTEM OF LAKE BIWA, JAPAN (ID: 27736)

WEDNESDAY

THURSDAY ORALS

003 PEOPLE POWER: THE ROLE OF CITIZEN SCIENTISTS IN AQUATIC SCIENCE - GLOBAL OPPORTUNITIES AND PERSPECTIVES

Chair(s): Steven Loiselle, loiselle@unisi.it

Paul Frost, paulfrost@trentu.ca

Davi Gasparini Fernandes Cunha, davig@sc.usp.br

Yuchao Zhang, yczhang@niglas.ac.cn

Location: Seminario 6-7 (Floor 1)

- 08:30 **Loiselle, S. A.**; Hall, C.; Baruch, A.; Bailey, N.: GREAT THINGS DONE BY A SERIES OF SMALL STEPS: RESULTS FROM THE FRESHWATER WATCH, A GLOBAL CITIZEN SCIENCE RESEARCH PROGRAMME* (ID: 26829)
- 08:45 **Thorpe, A. P.**; Jones, J. R.; Obrecht, D. V.: LESS PHOSPHORUS, MORE ALGAE: LONG-TERM CITIZEN SCIENCE PROGRAM MONITORS RESERVOIR BEFORE AND AFTER PHOSPHORUS REDUCTION (ID: 27331)
- 09:00 **Cunha, D. G.**; Marques, J. F.; Resende, J. C.; Falco, P. B.: URBAN RIVERS AND STREAMS MONITORING: CASE STUDY OF ENGAGEMENT OF BRAZILIAN CITIZEN SCIENTISTS* (ID: 25646)
- 09:15 **Frost, P. C.**; DeSellas, A. M.; Jones, F. C.; Paterson, A. M.; Rusak, J. A.: WATER QUALITY MONITORING WITH CITIZEN SCIENTISTS IN ONTARIO, CANADA: DIFFERENT APPROACHES TO GETTING THE JOB DONE (ID: 27501)
- 09:30 **Rodríguez-Ortiz, N. M.**; Walteros-Rodríguez, J. M.; Ramos, C.; Ramírez, A.: PARTICIPATIVE BIOMONITORING IN LATIN AMERICA: NEW TOOLS AND OPPORTUNITIES (ID: 26437)
- 09:45 **Zhang, Y.**; Li, J.; Ma, R.: COMBINING CITIZEN SCIENCE AND LAND USE DATA TO IDENTIFY DRIVERS OF EUTROPHICATION IN THE HUANGPU RIVER SYSTEM (ID: 25757)
- 10:30 **Hsueh, D. Y.**; Farnham, D. J.; Gibson, R. A.; McGillis, W. R.; Zheng, Y.; Buchanan, R.; Eddowes, D.; Zain, N.; Loiselle, S.; Butkiewicz, L.: NYC URBAN WATER QUALITY: MONITORING THE FLOW OF CSOS WITH CITIZEN SCIENTISTS (ID: 27684)
- 10:45 **Cigliano, J. A.**: THE CONCH AND THE BARNACLE: LESSONS-LEARNED FROM TWO MARINE CITIZEN SCIENCE PROJECTS (ID: 27593)
- 11:00 **de Vargas, C.**; Decelle, J.; Carmichael, M.; Le Bescot, N.; Berger, C.; Di Iorio, E.; Beaumont, C.; Troublé, R.; Karsenti, E.; Boss, E.: PLANKTON PLANET: SAIL FOR SCIENCE (ID: 27527)
- 11:15 **Busch, J. A.**; Bernard, E.; Ceccaroni, L.; Jeansou, E.; Piera, J.; Price, I.; Novoa, S.; Thijssse, P.; van der Woerd, H.; Wernand, M.; Zielinski, O.: CITCLOPS: CITIZEN SCIENCE APPROACH TO CHARACTERISE PHYTOPLANKTON DYNAMICS IN THE EBRO DELTA, NW MEDITERRANEAN (ID: 27314)
- 11:30 **Simon, C.**; Bardají, R.; Piera, J.: ESTIMATING WATER TRANSPARENCY FROM CITIZEN SCIENCE UNDERWATER PICTURES (ID: 25621)
- 11:45 **Branchini, S.**; Meschini, M.; Covi, C.; Piccinetti, C.; Zaccanti, F.; Goffredo, S.: RECREATIONAL MARINE CITIZEN SCIENCE: IMPLICATIONS FOR CONSERVATION MANAGEMENT AND ENVIRONMENTAL EDUCATION. (ID: 25788)

005 PROTIST-OMICS: A MULTIDISCIPLINARY EXPLORATION OF THE AQUATIC MICROEUKARYOTIC WORLD

Chair(s): Ramiro Logares, ramiro.logares@gmail.com
Colomban de Vargas, vargas@sb-roscoff.fr
Ramon Massana, ramonm@icm.csic.es

Location: Room C (Floor -3)

- 08:30 **Sieracki, M. E.**; Massana, R.; Logares, R.; Stepanauskas, R.; de Vargas, C.; Poulton, N.: SAMPLING THE DIVERSITY OF SINGLE OCEANIC PROTISTS FOR GENOMIC ANALYSIS* (ID: 27188)
- 08:45 **Krabberød, A. K.**; Orr, R. J.; Bjørklund, K. R.; Kristensen, T.; Shalchian-Tabrizi, K.: TAMING THE UNCULTURABLES - SINGLE CELL TRANSCRIPTOMICS AND GENOMICS OF UNCULTURABLE PROTISTS (ID: 26788)
- 09:00 **Grossmann, L.**; Beisser, D.; Jensen, M.; Nerat, N.; Bock, C.; Wodniok, S.; Hoffmann, D.; Rahmann, S.; Boenigk, J.: UNDERSTANDING PROTISTS: LINKING TRANSCRIPTOMICS, METATRANSCRIPTOMICS, AND METABARCODING (ID: 26040)
- 09:15 **Alexander, H.**; Haley, S. T.; Rouco-Molina, M.; Dyhrman, S. T.: EUKARYOTIC METATRANSCRIPTOME PROFILING IDENTIFIES THE UNIQUE RESPONSES OF PHYTOPLANKTON FUNCTIONAL GROUPS TO DEEP WATER UPWELLING AT STATION ALOHA (ID: 27246)
- 09:30 **Annenkova, N. V.**; Ahrén, D.; Rengefors, K.: EVOLUTIONARY RELATIONSHIPS OF RECENTLY DIVERGED DINOFLAGELLATES RESOLVED USING PHYLOTTRANSCRIPTOMIC ANALYSIS (ID: 25571)
- 09:45 **Orr, R.**; Yabuki, A.; Krabberød, A.; Nederbragt, L.; Van de Peer, Y.; Shalchian-Tabrizi, K.: GENOME DYNAMICS IN EARLY EUKARYOTIC EVOLUTION: IMPORTANCE OF ENIGMATIC LINEAGES (ID: 26965)
- 10:30 **Cabello, A. M.**; Logares, R.; Romac, S.; Massana, R.: GLOBAL DISTRIBUTION AND INTRASPECIFIC VARIABILITY OF MARINE PELAGOPHYTES (ID: 26999)
- 10:45 **Gimmler, A.**; Korn, R.; Stoeck, T.: GLOBAL DIVERSITY PATTERNS OF MARINE CILIATE PLANKTON (ID: 27297)
- 11:00 **Egge, E. S.**; Bittner, L.; Andersen, T.; Romac, S.; de Vargas, C.; Edvardsen, B.: DIVERSITY OF HAPTOPHYTES IN EUROPEAN COASTAL WATERS (ID: 27490)
- 11:15 **Giner, C. R.**; Logares, R.; Balague, V.; Massana, R.: SEASONAL DIVERSITY PATTERNS OF MARINE PICOEUKARYOTES FROM A MEDITERRANEAN COASTAL SITE (ID: 26991)
- 11:30 **Fuss, J.**; Mangot, J. F.; Bjorbækmo, M. M.; Freeman, M.; Bass, D.; Shalchian-Tabrizi, K.; Klaveness, D.: THE ENIGMATIC BASAL ALVEOLATE PARASITE X-CELL: CAN MULTIPLE GENOMIC APPROACHES REVEAL MORE? (ID: 27380)
- 11:45 **Bendif, E. M.**; Romac, S.; Audic, S.; Mahe, F.; Probert, I.; de Vargas, C.: A METABARCODING APPROACH TO ASSESS MICRO-DIVERSITY OF THE COSMOPOLITAN COCCOLITHOPHORE EMILIANIA/GEPHYROCAPSUS COMPLEX (ID: 27409)
- 15:00 **Kuwata, A.**; Ichinomiya, M.; Yoshikawa, S.; Yamada, K.; Kawachi, M.; Saitoh, K.; Nakamura, Y.; Sato, N.; Tajima, N.; Sawada, K.; Vaulot, D.; Lopes, A.; Audic, S.; de Vargas, C.: EXPLORING THE EVOLUTIONARY LINK BETWEEN PARMALES AND THE SUCCESS OF DIATOMS IN MARINE ECOSYSTEMS (ID: 27560)

* REPRESENTS TUTORIAL PRESENTATIONS

15:15	Lopes, A. S. ; Gourvil, P.; Romac, S.; Pollina, T.; Corre, E.; Rodriguez-Hernandez, F.; Garrido, J. L.; Audic, S.; de Vargas, C.; Vaulot, D.: ECOLOGICAL DIVERSITY OF PRASINOPHYTES CLADE VII, THE DOMINANT GREEN ALGAE IN OPEN OCEANS. (ID: 27110)	09:00	Biard, T. ; Stemmann, L.; Picheral, M.; Mayot, N.; Kiko, R.; Vandromme, P.; Haus, H.; Tara Ocean Consortium; Not, F.: RHIZARIA, THE ELUSIVE STARS OF THE OCEAN (ID: 26850)
15:30	Forster, D. ; Stoeck, T.; BioMarKs Consortium, : BENTHIC PROTISTAN COMMUNITIES HARBOR A HIGHER DIVERSITY THAN THEIR PLANKTONIC COUNTERPARTS (ID: 27208)	09:15	Lins, L. ; Esteves, A. M.; Vanreusel, A.: DIFFERENCES IN PRIMARY PRODUCTIVITY REGULATING BENTHIC STANDING STOCKS IN THE SOUTHERN OCEAN (ID: 26449)
15:45	Westphal, S. ; Wohlrbab, S.; Koch, B. P.; Cembella, A.; John, U.: DISCRIMINATION OF BIODIVERSITY PATTERNS AMONG MICROEUKARYOTIC PLANKTON IN ARCTIC COASTAL WATERS (ID: 27016)	09:30	Hennon, G. M. ; Howard, E.; Ribalet, F.; Stanley, R.; Armbrust, E. V.: CONTINUOUS FLOW CYTOMETRY AND GAS FLUX MEASUREMENTS ACROSS NUTRIENT AND TEMPERATURE GRADIENTS IN THE ATLANTIC OCEAN (ID: 27402)
16:00	Filker, S. ; Stoeck, T.; Willis, A.; Bunge, J.; Vila, I.; Sommaruga, R.: PROTISTAN PLANKTON BIODIVERSITY PATTERNS IN MOUNTAIN LAKES DISCRIMINATE BIOGEOGRAPHIC REGIONS (ID: 26595)	09:45	Teira, E. ; Hernando-Morales, V.; Cornejo-Castillo, F. M.; Alonso-Sáez, L.; Sarmiento, H.; Valencia-Vila, J.; Catalá, T. S.; Hernández-Ruiz, M.; Varela, M. M.; Ferrera, I.; Morán, X. AG.; Gasol, J. M.: EMPIRICAL LEUCINE-TO-CARBON CONVERSION FACTORS FOR ESTIMATING HETEROTROPHIC BACTERIAL PRODUCTION IN SURFACE WATERS OF THE WORLD OCEANS (ID: 26606)
16:15	Piredda, R. ; D'Erchia, A. M.; Manzari, C.; Pesole, G.; Tomasino, M. P.; Montresor, M.; Kooistra, H. W.; Sarno, D.; Zingone, A.: SEASONAL VARIABILITY OF PROTISTAN ASSEMBLAGES IN THE GULF OF NAPLES THROUGH HTS OF THE V4 AND V9 TAGS OF THE 18S rRNA GENE (ID: 27006)	10:30	Brum, J. R. ; Ignacio-Espinoza, J. C.; Roux, S.; Doulcier, G.; Bork, P.; Bowler, C.; Karsenti, E.; Sunagawa, S.; Wincker, P.; Sullivan, M. B.: GLOBAL PATTERNS AND ECOLOGICAL DRIVERS OF OCEAN VIRAL COMMUNITIES (ID: 26235)
17:00	Rengefors, K. ; Lebret, K.; Hägnström, K.; Svensson, M.; Ahrén, D.: EXPLORATION OF INVASION PATTERNS OF A HARMFUL ALGAL BLOOM SPECIES USING RAD-TAG SEQUENCING AND POPULATION GENOMICS* (ID: 27093)	10:45	Salazar, G. ; Cornejo-Castillo, F. M.; Gomes, A.; Benítez-Barrios, V.; Fraile-Nuez, E.; Catalá, T. S.; Moran, X. G.; Duarte, C. M.; Acinas, S. A.; Gasol, J. M. : THE PROKARYOTIC COMPONENT OF THE GLOBAL BATHYPELAGIC OCEAN: ABUNDANCE, ACTIVITY AND DIVERSITY (ID: 26523)
17:15	Takagi, H. ; Kimoto, K.; Fujiki, T.; Yuasa, T.; Kurasawa, A.; Hirano, H.: PHOTOSYMBIOSIS IN PLANKTIC FORAMINIFERS: NEW ASPECTS FROM CULTURE AND FAST REPETITION RATE FLUOROMETRY (ID: 26683)	11:00	Guidi, L. ; Chaffron, S.; Bittner, L.; Eveillard, D.; Gorsky, G.; Bowler, C.; Karsenti, E.; The TARA ocean consortium, T.: PLANKTON COMMUNITY AND GENE NETWORKS ASSOCIATED WITH CARBON EXPORT IN THE GLOBAL OCEAN (ID: 27014)
17:30	Joli, N. ; Logares, R.; Babin, M.; Lovejoy, C.: BATHYCOCCUS AND MICROMONAS IN AN WINTER ARCTIC METAGENOME (ID: 25876)	11:15	Arandia-Gorostidi, N. ; Weber, P. K.; Alonso-Sáez, L.; Morán, X. A.; Huete-Stauffer, T. M.; González, N.; Mayali, X.: EFFECT OF TEMPERATURE ON AUTOTROPHIC AND HETEROTROPHIC ACTIVITY BY MARINE MICROBES USING SINGLE-CELL ANALYSIS BY NANOSIMS (ID: 27541)
17:45	Bjorbækmo, M. M. ; Hartikainen, H.; Krabberød, A. K.; Bass, D.; Shalchian-Tabrizi, K.: THE DIVERSITY OF HIDDEN PROTIST IN SEAWEED (ID: 26946)	11:30	Alvarez Fernandez, S. ; Hátún, H.: RHYTHM IN THE WATER: SYNCHRONOUS CHANGES IN NORTH-EASTERN ATLANTIC PLANKTON COMMUNITIES (ID: 25684)
18:00	Flegontova, O.; Malviya, S.; Flegontov, P.; Audic, S.; Wincker, P.; Bowler, C.; de Vargas, C.; Lukeš, J.; Horák, A. : EXTREME DIVERSITY AND ABUNDANCE OF PLANKTONIC DIPLONEMIDS IN THE WORLD OCEANS AS REVEALED BY THE TARA OCEANS META-BARCODING DATASET (ID: 27127)	11:45	Delgado-Huertas, Antonio, A. D. ; Granados, Arsenio, A. G.; Metcalf, Amanda, A. M.; Mesa, Elena, E. M.; Galí, Martí, M. G.; Simó, Rafel, R. S.; Fernández, Bieito, B. F.; Tell, Elena, E. T.; Duarte, Carlos M., C. M.: STABLE ISOTOPES OF DISSOLVED NITROGEN IN OCEANIC WATERS (ID: 25777)
18:15	Pitz, K. J. ; Brosnahan, M. L.; Anderson, D. M.: SAXITOXIN GENE STRUCTURE AND REPRESENTATION IN NON-TOXIC AND TOXIC DINOFLAGELLATE SPECIES (ID: 27375)	15:00	Scharfe, M. ; Kraberg, A.: ASPECTS OF THE DECADAL VARIABILITY OF A MARINE ECOSYSTEM - RESULTS AND CONCLUSIONS FROM THE SOUTHERN NORTH SEA (ID: 26564)
008 THE GLOBAL OCEAN ECOSYSTEM: PATTERNS, DRIVERS AND CHANGE		15:15	Mesa, E. ; Delgado, A.; Granados, A.; García-Corral, L.; Carrillo de Albornoz, P.; Sanz Martín, M.; Wassmann, P.; Reigstad, M.; Duarte, C.: EVALUATION OF PLANKTONIC METABOLISM IN THE ARCTIC USING THE ^{18}O METHOD (ID: 26576)
Chair(s): Carlos M. Duarte, c.duarte@csic.es Susana Agustí, sagusti@imedeua.uib-csic.es Xose Anton Alvarez-Salgado, xsalgado@iim.csic.es		15:30	Fernandez de Puelles, M. L. ; Gazá, M.; Gonzalez-Gordillo, J.; Hernandez-Leon, S.; Cozar, A.; Acuña, J. L.; Irigoien, X.: VERTICAL BIOGEOGRAPHICAL OVERVIEW OF THE ZOOPLANKTON COMMUNITY ACROSS THE ATLANTIC, PACIFIC AND INDIAN OCEAN (35°N - 40°S) (ID: 27028)
Location: Auditorium Manuel de Falla (Floor 1)			
08:30	Menden-Deuer, S. ; Rowlett, J. M.: IS VARIETY THE SPICE OF LIFE? INTRA-SPECIFIC VARIATION MAINTAINS HIGH BIO-DIVERSITY IN THE PLANKTON (ID: 25727)		
08:45	Bode, A. M. ; Mompean, C.; Alvarez-Ossorio, M. T.; Fernandez de Puelles, M. L.; Echevarria, F.; Gonzalez-Gordillo, J. I.; Hernandez-Leon, S.; Irigoien, X.; Acuna, J. L.: VERTICAL VARIABILITY OF TROPHIC POSITIONS OF ZOOPLANKTON IN THE DEEP OCEAN (ID: 26730)		

- 15:45 **Hernández-León, S. M.**; Fraile-Nuez, E.; Garijo, J. C.; Ariza, A.; Irigoien, X.; Olivar, P.; González-Gordillo, I.; Fernández de Puelles, M. L.; Bode, A.; Gasol, J. M.: DIEL VERTICAL MIGRANTS AND THE OCEAN CARBON PUMP: IS THERE A LADDER OF MIGRATION? (ID: 26727)
- 16:00 **Hauff, M. J.**; Llopiz, J. K.; Blanco-Bercial, L.; Bucklin, A.: GELATINOUS PREY OF FISHES: QPCR ANALYSIS OF AN OVERLOOKED PATHWAY IN MESOPELAGIC FOODWEBS (ID: 27688)
- 16:15 **Winder, M.**; Carstensen, J.; Galloway, A. W.; Jakobsen, H. H.; Cloern, J. E.: THE LAND-SEA INTERFACE: A UNIQUE PLACE FOR PRODUCING FISH (ID: 25881)

009 RESERVOIR LIMNOLOGY

- Chair(s): John Harrison, john_harrison@wsu.edu
 Bridget Deemer, bridget.deemer@email.wsu.edu
 Cayelan Carey, cayelan@vt.edu
 John Little, jcl@vt.edu
 Justin Brookes, justin.brookes@adelaide.edu.au
 Francisco Rueda, fjrueda@ugr.es

Location: Andalucia 3 (Floor 1)

- 08:30 **Carey, C. C.**; Doubek, J. P.; Gerling, A. B.; Hamre, K. D.; Munger, Z. W.; Wilkinson, G. M.; Gantzer, P. A.; Little, J. C.; Pace, M. L.; Schreiber, M. E.: WHOLE-ECOSYSTEM OXYGENATION DEMONSTRATES THAT EPISODIC ANOXIC EVENTS PROMOTE INTERNAL LOADING OF METALS AND CARBON BURIAL IN A EUTROPHIC RESERVOIR (ID: 26117)
- 08:45 Toledo, J.; Bierlein, K. A.; Socolofsky, S. A.; Little, J. C.; **Rueda, F. J.**: SIGNATURES OF BUBBLE-PLUME OXYGENATION SYSTEMS ON LARGE-SCALE TRANSPORT PROCESSES IN LAKES AND RESERVOIRS* (ID: 27183)
- 09:00 **Martins, J. R.**; Vinçon-Leite, B.; Soulignac, F.; Lemaire, B. J.: BILLINGS RESERVOIR HYDRODYNAMICS: KEY TO SUSTAINABLE MANAGEMENT (ID: 27157)
- 09:15 **Hoyer, A. B.**; Schladow, S. G.; Rueda, F. J.: A HYDRODYNAMICS-BASED APPROACH TO EVALUATING THE RISK OF WATERBORNE PATHOGENS ENTERING DRINKING WATER INTAKES IN LAKES AND RESERVOIRS (ID: 27285)
- 09:30 **Gray, R. L.**; Mitrovic, S.; Hardwick, L.; Jones, H.: COLD WATER POLLUTION MITIGATION OF A LARGE DAM IN AUSTRALIA USING AN INNOVATIVE THERMAL CURTAIN; TEMPERATURE AND WATER QUALITY IMPROVEMENTS. (ID: 25420)
- 09:45 **Harrison, J. A.**; Deemer, B. R.; Birchfield, M. K.: RESERVOIR WATER LEVEL DRAWDOWN IS AN IMPORTANT AND MANAGEABLE CONTROL ON METHANE RELEASE TO THE ATMOSPHERE (ID: 27476)
- 10:30 **Castelo Branco, C. W.**; Leal, J. F.; Huszar, V. M.; Farias, D. S.; Sousa-Filho, I. F.; Oliveira, N. C.; Martínez, N.; Palermo, E. A.; Santos, P. T.; Gomes, A. R.: NEW LAKE IN A CHANGING WORLD: THE CASE STUDY OF THE FILLING AND STABILIZATION OF A BRAZILIAN SMALL-HYDROPOWER RESERVOIR (ID: 26405)
- 10:45 **Brown, M. E.**; Branstrator, D. K.: THE DYNAMICS OF AN INVASIVE ZOOPLANKTON IN RESERVOIRS (ID: 27460)
- 11:00 **El Ganainy, A. A.**; El Far, A. M.: ASSESSMENT OF LAKE NASSER FISHERY RESOURCES (ID: 27532)
- 11:15 **Obrecht, D. V.**; Jones, J. R.: FACTORS INFLUENCING RESERVOIR NUTRIENT CONCENTRATIONS IN MISSOURI, USA (ID: 27415)

- 11:30 **Jones, J. R.**; Obrecht, D. V.: LIMNOLOGY OF LAKE OF THE OZARKS, MISSOURI: SUMMARY OF A LONG-TERM DATASET (ID: 25419)
- 11:45 **Pierson, D. C.**; Samal, N. R.; Markensten, H.; Owens, E. M.: SIMULATING THE EFFECTS OF CLIMATE CHANGE ON THE PHYTOPLAKTON IN A NEW YORK CITY WATER SUPPLY RESERVOIR* (ID: 26996)

013 ASSESSING MARINE ECOSYSTEMS HEALTH IN AN INTEGRATIVE WAY

- Chair(s): Angel Borja, aborja@azti.es
 Benjamin Halpern, halpern@bren.ucsb.edu
 Philippe Archambault, Philippe_Archambault@uqar.ca

Location: Room D (Floor -3)

- 08:30 **Subida, M. D.**; González-Duarte, M. M.; Fernandez, M.: PATTERNS OF RESPONSE TO HARVEST IN KELP FORESTS UNDER CONTRASTING MANAGEMENT REGIMES (ID: 27611)
- 08:45 Mozetic, P.; France, J.; Kogovsek, T.; Lipej, L.; Mavric, B.; Orlando-Bonaca, M.; Talaber, I.; **Malej, A.**: AN INTEGRATIVE APPROACH TOWARDS THE ASSESSMENT OF MARINE ECOSYSTEM HEALTH (NORTHERN ADRIATIC) (ID: 25851)
- 09:00 **Simboura, N.**; Pavlidou, A.; Tsapakis, M.; Pagou, K.; Assimakopoulou, G.; Zeri, C.; Lampou, A.; Panayotidis, P.: INTEGRATIVE ASSESSMENT OF THE ECOLOGICAL STATUS IN HELLENIC COASTAL WATERS: TRANSITION FROM THE WFD TO THE MSFD. (ID: 25587)
- 09:15 **Martin, G.**; Torn, K.: TOOL FOR ASSESSMENT OF MARINE BIODIVERSITY, CASE STUDY FROM NORTHERN BALTIK SEA (ID: 27066)
- 09:30 Andersen, J. H.; **Borja, A.**; Berg, T.; Carstensen, J.; Cochrane, S.; Murray, C.; Uyarra, M. C.: DEVELOPMENT OF AN INDICATOR-BASED TOOL FOR ASSESSMENT OF MARINE BIODIVERSITY STATUS (ID: 26109)

015 LONG-TERM STUDIES OF ENVIRONMENTAL STRESSORS ON LAKE ECOSYSTEMS: COMMON IMPACTS AND DYNAMICS

- Chair(s): Sapna Sharma, sharma11@yorku.ca
 Richard Vogt, richardvogt@trentu.ca
 Catherine O'Reilly, cmoreil@ilstu.edu
 Gesa Weyhenmeyer, Gesa.Weyhenmeyer@ebc.uu.se
 Isabella Bertani, maggiesfarm@tin.it
 Hongtao Duan, htduan@niglas.ac.cn

Location: Seminario 3-4-5 (Floor 1)

- 17:00 **Fölster, J.**; Futter, M. N.; Johnson, R. K.; Wilander, A.: HOW TO ACHIEVE HIGH QUALITY LONG TERM DATA – THE SWEDISH CASE (ID: 26132)
- 17:15 **Villa, P.**; Duan, H.; Loiselle, S. A.: A DECADAL ASSESSMENT OF WATER QUALITY STRESSORS OVER LAKE TAIHU AREA USING IN SITU AND MODIS SATELLITE DATA (ID: 25846)
- 17:30 **Haig, H. A.**; Wissel, B.; Simpson, G. L.; Leavitt, P. R.: MECHANISM OF CLIMATE REGULATION OF LAKE HYDROLOGY REVEALED BY STABLE ISOTOPES OF WATER: INSIGHTS FROM DECADAL-SCALE LANDSCAPE ANALYSIS (ID: 25751)
- 17:45 **Huser, B. J.**; Futter, M. N.; Khalili, M. I.; Weyhenmeyer, G. A.; Fölster, J.: LONG-TERM CHANGES TO NUTRIENTS IN LAKES: EFFECTS OF CLIMATE, DEPOSITION, AND IN-LAKE CYCLING ON OLIGOTROPHICATION OF NORTHERN BOREAL AND ALPINE LAKES (ID: 27695)

* REPRESENTS TUTORIAL PRESENTATIONS

- 18:00 **Brothers, S. M.**; Sibley, P. K.; Vadeboncoeur, Y. M.: LONG-TERM PATTERNS IN PRIMARY PRODUCTIVITY IN THE LAURENTIAN GREAT LAKES: MULTIPLE STRESSORS, AND THE INCREASING ROLE OF BENTHIC PRODUCTIVITY (ID: 25900)
- 18:15 **Lenters, J. D.**; Read, J. S.; Sharma, S.; O'Reilly, C. M.; Hampton, S.; Gray, D.; McIntyre, P. B.; Hook, S. J.; Schneider, P.; GLTC Contributors, G. L.: ACCELERATED WARMING OF THE WORLD'S LAKES: A CENTURY OF DATA FROM IN SITU AND REMOTELY SENSED MEASUREMENTS (ID: 27555)

016 METACOMMUNITIES

- Chair(s): Eva Lindstrom, Eva.Lindstrom@ebc.uu.se
Luc De Meester, Luc.DeMeester@bio.kuleuven.be
- Location: Picasso (Floor -2)
- 10:30 **Declerck, S.**: AQUATIC COMMUNITY ECOLOGY AND THE METACOMMUNITY FRAMEWORK: WHERE ARE WE AND WHERE DO WE GO? (ID: 27206)
- 11:00 **Andersson, M. G.**; Berga, M.; Lindström, E. S.; Langenheder, S.: THE SPATIAL STRUCTURE OF BACTERIAL COMMUNITIES IS INFLUENCED BY HISTORICAL ENVIRONMENTAL CONDITIONS (ID: 26234)
- 11:15 **Suzuki, S.**; Kaneko, R.; Kodama, T.; Hashihama, F.; Suwa, S.; Tanita, I.; Furuya, K.; Hamasaki, K.: ENVIRONMENTAL AND SPATIAL FACTORS STRUCTURING FREE-LIVING AND PARTICLE-ASSOCIATED COMMUNITIES OF BACTERIA IN THE PACIFIC OCEAN (ID: 26520)
- 11:30 **Smeti, E.**; Tsirtsis, G.; Papanikolopoulou, L.; Spatharis, S.: THE RELATIVE ROLE OF NICHE AND NEUTRAL PROCESSES IN SHAPING PLANKTON COMMUNITIES ALONG A SALINITY GRADIENT (ID: 26042)
- 11:45 Costa, L.; Kruk, C.; Kosten, S.; Lacerot, G.; Nabout, J.; Lürling, M.; Mazzeo, N.; **Huszar, V.**: THE ROLE OF ENVIRONMENT AND SPACE ON THE PHYTOPLANKTON DIVERSITY IN SHALLOW LAKES ALONG A LARGE LATITUDINAL GRADIENT (6000 KM) IN SOUTH AMERICA (ID: 26474)
- 15:00 **Mousing, E. A.**; Katherine Richardson, K.; Bendtsen, J.; Cetinic, I.; Perry, M. J.: THE EFFECT OF SUB-MESOSCALE SPATIAL HETEROGENEITY ON PHYTOPLANKTON DIVERSITY IN THE NORTH ATLANTIC (ID: 27339)
- 15:15 **Mehner, T.**: MECHANISMS OF DISPERSAL LIMITATION IN EUROPEAN LAKE FISH COMMUNITIES (ID: 25491)
- 15:30 **de Mendoza, G.**; Ventura, M.; Catalan, J.: ENVIRONMENTAL FACTORS PREVAIL OVER DISPERSAL CONSTRAINTS IN DETERMINING THE DISTRIBUTION AND ASSEMBLY OF TRICHOPTERA SPECIES IN MOUNTAIN LAKES (ID: 25857)
- 15:45 **Gascón, S.**; Arranz, I.; Cañedo-Argüelles, M.; Nebra, A.; Ruhí, A.; Rieradevall, M.; Caiola, N.; Sala, J.; Ibáñez, C.; Quintana, X. D.; Boix, D.: ENVIRONMENTAL CONSTRAINT DETERMINES METACOMMUNITY STRUCTURE IN WETLAND MICROCRUSTACEANS (ID: 27251)
- 16:00 **Arim, M.**; Borthagaray, A. I.; Quintana, X. D.; Boix, D.; Sala, J.; Gascón, S.: ALLOMETRIC CONSTRAINTS TO LOCAL FOOD WEBS IN METACOMMUNITIES (ID: 27438)
- 16:15 **Borthagaray, A. I.**; Arim, M.; Sala, J.; Boix, D.; Quintana, X. D.; Gascón, S.: DETERMINANTS OF METACOMMUNITY NETWORK SHAPING LOCAL COMMUNITIES STRUCTURE (ID: 26839)

- 17:00 **Eggers, S. L.**; Horváth, Z.; Bengtsson, M. M.; Preller, C.; Ptacník, R.: THE ROLE OF DISPERSAL FOR THE MAINTENANCE OF DIVERSITY IN EXPERIMENTAL PLANKTON COMMUNITIES (ID: 25593)
- 17:15 **Fussmann, G. F.**; Scott, M. E.; Tadiri, C. P.; Kong, J.; Wang, H.: RIVERINE HOST-PARASITE METACOMMUNITIES: A MATHEMATICAL AND EXPERIMENTAL MODEL SYSTEM (ID: 25945)
- 17:30 **Hillebrand, H.**; Gölzow, N.: SPATIAL INSURANCE IN AQUATIC METACOOMUNITIES: BIODIVERSITY, RESILIENCE AND RECOVERY (ID: 26518)
- 17:45 **Limberger, R.**; Millette, K.; Cristescu, M.; Hahn, M.; Wickham, S. A.: INTERACTIVE EFFECTS OF ENVIRONMENTAL CHANGE AND HABITAT CONNECTIVITY ON THE DIVERSITY OF EXPERIMENTAL AQUATIC COMMUNITIES (ID: 26808)
- 18:00 **De Meester, L.**; Pantel, J.: EVOLUTION IN A METACOMMUNITY CONTEXT: FROM PROOF-OF-PRINCIPLE TO THE FIELD (ID: 25715)
- 18:15 **Leibold, M. A.**; Downing, A. L.; Brown, B. L.: LOW-LEVEL IMMIGRATION FROM A METACOMMUNITY ALTERS PLANKTON COMMUNITIES IN PONDS* (ID: 26396)

022 THE BIOGEOCHEMISTRY OF DISSOLVED ORGANIC MATTER (DOM)

- Chair(s): Thorsten Dittmar, thorsten.dittmar@uni-oldenburg.de
Aron Stubbins, aron.stubbins@skio.uga.edu
- Location: Auditorium Federico Garcia Lorca (Floor 0)
- 08:30 **Spencer, R. G.**; Stubbins, A.; Fellman, J. B.; Dittmar, T.; Raymond, P. A.; Hood, E.: STORAGE, RELEASE AND SOURCE OF ORGANIC CARBON IN GLACIER ENVIRONMENTS* (ID: 26446)
- 09:00 **Kothawala, D. N.**; Ji, X.; Laudon, H.; Ågren, A.; Futter, M. N.; Köhler, S. J.; Tranvik, L. J.: THE ROLE OF LAND COVER, HYDROLOGY AND IN-STREAM PROCESSING ON THE QUALITY OF DISSOLVED ORGANIC MATTER IN A NESTED BOREAL STREAM NETWORK (ID: 26856)
- 09:15 **Isidorova, A.**; Bravo, A. G.; Riise, G.; Bouchet, S.; Björn, E.; Sobek, S.: EFFECTS OF LAKE BROWNING ON THE ACCUMULATION AND FATE OF CARBON AND MERCURY IN BOREAL LAKE SEDIMENTS (ID: 26213)
- 09:30 **Mostovaya, A.**; Koehler, B.; Tranvik, L.: DISSOLVED ORGANIC CARBON REACTIVITY CONTINUUM: CHEMICAL DIVERSITY AND KINETICS OF DEGRADATION (ID: 27052)
- 09:45 **Stubbins, A.**; Mann, P. J.; Dittmar, T.; Eglington, T. I.; McIntyre, C.; Zimov, N.; Spencer, R. G.: RADIOCARBON AND MOLECULAR SIGNATURES OF ANCIENT PERMAFROST-DERIVED DISSOLVED ORGANIC CARBON BIODEGRADATION (ID: 26921)
- 10:30 **Mann, P. J.**; Vonk, J. E.; Holmes, R. M.; Zimov, N.; Davydova, A.; McIntyre, C.; Eglington, T. I.; Stubbins, A.; Spencer, R. G.: PREFERENTIAL LOSS OF ANCIENT TERRESTRIAL CARBON IN ARCTIC HEADWATER STREAMS (ID: 26851)
- 10:45 **Niggemann, J.**; Dittmar, T.; Vähätilo, A. V.; Riedel, T.: A PHOTOCHEMICALLY RESISTANT COMPONENT IN RIVERINE DISSOLVED BLACK CARBON (ID: 26631)
- 11:00 **Waggoner, D. C.**; Chen, H.; Hatcher, P. G.: HYDROXYL RADICAL INITIATED TRANSFORMATION OF LIGNIN DERIVED DOM (ID: 25656)
- 11:15 **Koehler, B.**; Broman, E.; Tranvik, L. J.: SUNLIGHT-INDUCED CARBON DIOXIDE EMISSIONS FROM INLAND WATERS (ID: 25472)

THURSDAY

* REPRESENTS INVITED PRESENTATIONS

- 11:30 **Hartman, B. E.**; Chen, H.; Hatcher, P. G.: NON-THERMOGENIC BLACK CARBON IN PEAT AND COAL DERIVES FROM PHOTOCHEMICAL OXIDATION OF DOM (ID: 25620)
- 11:45 Kasurinen, V.; Aarnos, H.; **Vähätalo, A. V.**: SUNLIGHT-INDUCED PRODUCTION OF BIOLOGICALLY LABILE PHOTOPRODUCTS FROM RIVERINE DOM (ID: 27034)
- 15:00 **Gonsior, M.**; Valle das Neves , J.; Schmitt-Kopplin, P.; Hertkorn, N.; Bastviken, D.; Luek, J.; Timko, S.; Harir, M.; Enrich-Prast, A.: DISSOLVED ORGANIC MATTER VARIABILITY IN THREE DIFFERENT AMAZON REGIONS ANALYZED BY ULTRAHIGH RESOLUTION MASS SPECTROMETRY AND EEM-PARAFAC (ID: 25632)
- 15:15 **Wagner, S.**; Riedel, T.; Niggemann, J.; Vähätalo, A.; Dittmar, T.; Jaffé, R.: LINKING THE MOLECULAR SIGNATURE OF HETEROATOMIC DOM TO WATERSHED CHARACTERISTICS IN WORLD RIVERS (ID: 25868)
- 15:30 **Knudsen-Leerbeck, H.**; Bronk, D. A.; Markager, S.: SIZE-FRACTIONATED PRODUCTION AND BIOAVAILABILITY OF DISSOLVED ORGANIC MATTER IN THE YORK RIVER, VIRGINIA (ID: 26842)
- 15:45 **Demeter, K.**; Sieczko, A.; Mayr, M.; Peduzzi, P.: BACTERIAL RESPIRATION AND CARBON METABOLISM IN FLOODPLAIN WATERS: RESULTS FROM AN EXPERIMENTAL APPROACH (ID: 26249)
- 16:00 **Peter, S.**; Isidorova, A.; Agstam, O.; Guillemette, F.; Sobek, S.: LAKE SEDIMENTS AS SOURCE OF DISSOLVED ORGANIC CARBON – THE MAGNITUDE AND FATE OF ORGANIC CARBON DIFFUSING FROM SEDIMENTS INTO ANOXIC LAKE WATER (ID: 27086)
- 16:15 **Larsen, S.**; Andersen, T.; Hessen, D. O.: DOM UNDER CHANGING CLIMATIC CONDITIONS. (ID: 27245)

035 FROM PAST TO PRESENT: OCEAN PRODUCTIVITY AND BIOGEOCHEMISTRY

- Chair(s): Francisca Martinez-Ruiz, fmruiz@ugr.es
 Adina Paytan, apaytan@ucsc.edu
 Gert de Lange, G.J.deLange@uu.nl
 Eva Calvo, ecalvo@icm.csic.es
 Isabel Cacho, icacho@ub.edu

- Location: Picasso (Floor -2)
- 08:30 **Stoll, H. M.**; Bolton, C.; Gonzalez-Lemos, S.; Mendez-Vicente, A.; Mejia, L. M.; Abrevaya, L.; Fuertes, M. A.; Flores, J. A.; Paytan, A.; Eisenhae, A.: ADAPTATION OF CALCIFICATION MECHANISMS IN COCCOLITHOPHORES TO CO₂, PAST AND PRESENT* (ID: 26663)
- 08:45 **Zeebe, R. E.**: A PALEO-PERSPECTIVE ON THE MAGNITUDE AND RATE OF ANTHROPOGENIC CO₂ EMISSIONS (ID: 25758)
- 09:00 **Povea, P.**; Cacho , I.; Moreno, A.; Pena, L.; Menéndez, M.; Calvo, E.; Canals, M.; Robinson, R. S.; Flores, J. A.; Méndez, F. J.: ATMOSPHERE-OCEAN COUPLING CONTROLLING EARLY PLEISTOCENE CHANGES IN THE DEEP CARBON STORAGE OF THE EASTERN EQUATORIAL PACIFIC (EEP) (ID: 27106)
- 09:15 **Lopes, C.**; Kucera, M.; Mix, A. C.: CLIMATE CHANGE DECOUPLES OCEANIC PRIMARY AND EXPORT PRODUCTIVITY AND ORGANIC CARBON BURIAL (ID: 26942)
- 09:30 **Cermeno, P.**; Falkowski, P. G.; Romero, O. E.; Schaller, M. F.; Vallina, S. M.: CONTINENTAL EROSION AND THE CENOZOIC RISE OF MARINE DIATOMS (ID: 27040)

- 09:45 **Sanchez-Baracaldo, P.**: EVOLUTIONARY ORIGIN OF MARINE PLANKTONIC CYANOBACTERIA (ID: 26761)

038 ADVANCES IN FLUX MEASUREMENTS IN AQUATIC ENVIRONMENTS USING THE EDDY CORRELATION TECHNIQUE

- Chair(s): Peter Berg, pb8n@virginia.edu
 Markus Huettel, mhuettel@fsu.edu
 Moritz Holtappels, mholtapp@mpi-bremen.de
- Location: Andalucia 3 (Floor 1)
- 15:00 **Baldocchi, D. D.**: EDDY COVARIANCE, A METHOD FOR MEASURING ECOSYSTEM-ATMOSPHERE FLUXES OF TRACE GASES^T (ID: 25628)
- 15:30 **Glud, R. N.**; Attard, K.; Rovelli, L.; Hancke, K.; McGinnis, D. F.; Holtappels, M.: OXYGEN EXCHANGE AND CARBON MINERALIZATION AT THE SEABED: ASSESSMENTS BY THE EDDY CORRELATION APPROACH* (ID: 25978)
- 15:45 **Attard, K. M.**; Glud, R. N.; Hancke, K. H.; McGinnis, D. F.; Rovelli, L.; Rygaard, S.: BENTHIC PRIMARY PRODUCTION IN TEMPERATE AND ARCTIC COASTAL MARINE ECOSYSTEMS QUANTIFIED USING THE EDDY CORRELATION TECHNIQUE (ID: 26555)
- 16:00 **Delgard, M. L.**; Berg, P.; McGlathery, K. J.: ECOSYSTEM METABOLISM IN EELGRASS (*ZOSTERA MARINA*) MEADOWS MEASURED BY EDDY CORRELATION TECHNIQUE (ID: 26406)
- 16:15 **Huettel, M. H.**; Berg, P.: EDDY CORRELATION AND CHAMBER FLUX MEASUREMENTS IN REEF LAGOON SANDS (ID: 25507)
- 17:00 **Reimers, C. E.**; Ozkan-Haller, H. T.; Berg, P.: EFFECTS OF ENERGETIC WAVE MOTIONS ON AQUATIC EDDY CORRELATION MEASUREMENTS * (ID: 25734)
- 17:15 **Holtappels, M.**; Noss, C.; Hancke, K.; Cathalot, C.; McGinnis, D. F.; Lorke, A.; Glud, R. N.: AQUATIC EDDY CORRELATION: QUANTIFYING THE ARTIFICIAL FLUX CAUSED BY STIRRING SENSITIVE O₂ SENSORS (ID: 25999)
- 17:30 **Kokic, J.**; Sahlée, E.; Brand, A.; Sobek, S.: SEDIMENT-WATER GAS EXCHANGE IN TWO SWEDISH LAKES MEASURED BY EDDY CORRELATION (ID: 25809)
- 17:45 **Koopmans, D.**; LaBuhn, S.; Berg, P.; Klump, J. V.: THE DRIVERS OF BENTHIC OXYGEN FLUX IN A HYPERUTROPHIC BAY (ID: 27674)
- 18:00 **Potes, M.**; Salgado, R.; Costa, M. J.: EXCHANGES OF ENERGY AND MASS BETWEEN THE ATMOSPHERE AND LAKE, CASE STUDY OF ALQUEVA RESERVOIR, PORTUGAL (ID: 27513)
- 18:15 **McGillis, W. R.**; Langdon, C.; Martz, T.; Hsueh, D. Y.; Loose, B.; Takeshita, Y.; Donham, E.; Price, N.; Smith, J.; Manzello, D.; Gledhill, D.; Enochs, I.; Moyer, R.; Turk, D.; Fajans, J.; Yates, K.; Karger, F. M.; Fong, P.; Baker, A.; Markowitz, M.; Smith, T.; Glynn, P.; Mate, J.; Rodriguez, M.; Toro-Farmer, G.; Brandtneris, V. W.; Palacio, A.; Paine, J.: AN INNOVATIVE APPROACH TO ASSESSING CORAL REEF HEALTH AT SEVEN SITES AROUND THE WORLD (ID: 27710)

042 COMPETITION WITHIN PLANKTONIC COMMUNITIES: WHAT ARE THE EFFECTS ON ECOSYSTEM FUNCTIONING AND BIOGEOCHEMICAL PROCESSES?

- Chair(s): Richard Rivkin, rrivkin@mun.ca
 Louis Legendre, legendre@obs-vlfr.fr
- Location: Machado (Floor -2)

10:30	Sommer, U. : THE EFFECT OF PHYTOPLANKTON COMPETITION ON BIODIVERSITY AND ECOSYSTEM FUNCTIONS ^t (ID: 26530)	17:45	Saito, H. ; Hashihama, F.; Ehama, M.; Sasaki, Y.; Sugahara, T.; Ogawa, H.; Fukkuda, H.; Kanda, J.: DYNAMICS OF SILICON AND SILICEOUS ORGANISMS IN THE NORTH PACIFIC OCEAN: COMPETITION FOR NITROGEN IN THE DIN DEPLETED SUBTROPICAL REGION (ID: 25968)
11:00	Griffiths, J. R. ; Hajdu, S.; Downing, A. E.; Hjerne, O.; Larsson, U.; Winder, M.: COASTAL AND OFFSHORE PHYTOPLANKTON COMMUNITY INTERACTIONS AND ENVIRONMENTAL SENSITIVITY DIFFER IN THE NORTHERN BALTIc SEA (ID: 25470)	18:15	Chen, J. ; Jin, H.; Wang, K.; Huang, D.; Ni, X.: MONITORING OF EUTROPHICATION AND ITS ECOLOGICAL RESPONCES IN THE CHANGJIANG ESTUARY, CHINA * (ID: 27152)
11:15	Vasconcelos, F. R. ; Diehl, S.; Rodríguez, P.; Karlsson, J. R.: SPATIALLY ASYMMETRIC CROSS-HABITAT COMPETITION BETWEEN BENTHIC AND PELAGIC ALGAE: FEEDBACKS BETWEEN LIGHT AND NUTRIENT SUPPLY (ID: 26963)		
11:30	Sandaa, R. A. ; Töpper, B.; Larsen, A.; Våge, S.; Pree, B.; Thingstad, T. F.: DIFFERENCES IN TOP DOWN VIRAL REGULATION AS A RESULT OF COMPETITION BETWEEN PLAYERS IN THE MICROBIAL FOOD-WEB (ID: 26046)		
11:45	Thingstad, T. F.; Pree, B.; Våge, S.: COMBINING INTERNAL AND EXTERNAL CONTROL OF ACTIVITY, ABUNDANCE AND COMPOSITION IN THE PELAGIC PROKARYOTE COMMUNITY* (ID: 25698)	08:30	Krom, M. D. ; Pierce, J.; Van Cappellen, P.; Poulton, S.; Kress, N.; Goodman, B.: NUTRIENT CYCLING IN THE EASTERN MEDITERRANEAN * (ID: 25614)
15:00	Legendre, L. ; Rivkin, R. B.: FLOWS OF BIOGENIC CARBON IN THE WORLD OCEANS: ROLE OF THE MICROBIAL COMPETITION SWITCHES IN PELAGIC FOOD WEBS (ID: 25991)	09:00	Kress, N. ; Silverman, J.: EXCESS NITROGEN OVER PHOSPHORUS: N:P RATIOS IN THE LEVANTINE BASIN (EASTERN MEDITERRANEAN) REVISITED (ID: 26587)
15:15	Artioli, Y. ; Allen, J. I.: MODELLING THE IMPACT OF PLANKTONIC INTERSPECIFIC COMPETITION ON ECOSYSTEM FUNCTIONS AND RESPONSES TO GLOBAL CHANGES (ID: 27217)	09:15	Petihakis, G.; Christodoulaki, S. ; Triantafyllou, G.; Tsiaras, K.; Mihalopoulos, N.; Kanakidou, M.: ATMOSPHERIC DEPOSITION AND MEDITERRANEAN SEA WATER PRODUCTIVITY – AN OVERVIEW OF ADAMANT PROJECT (ID: 26602)
15:30	Gypens, N. ; Ghysot, C.: HOW PHOSPHORUS LIMITATION CAN CONTROL CLIMATIC GAS EMISSION (ID: 25899)	09:30	Silverman, J. ; Kress, N.: LARGE HORIZONTAL VARIABILITY IN DEEP WATER TOTAL ALKALINITY AND DISSOLVED INORGANIC CARBON IN THE LEVANTINE BASIN (ID: 27531)
15:45	Jordi, A. ; Anglès, S.; Garcès, E.; Sampedro, N.; Reñé, A.; Basterretxea, G.: ROLE OF COMPETITION PROCESSES ON PHYTOPLANKTON DYNAMICS THROUGH ADVANCED DATA ASSIMILATION AND ADAPTIVE MODELING (ID: 26351)	09:45	Hannides, A. K. ; D'Ortenzio, F.; Hayes, D. R.; Mortier, L.; Testor, P.; Taillandier, V.: LEVANTINE BIOGEOCHEMICAL CYCLING ELUCIDATED BY GLIDER DATA FOR THE PERIOD 2009-2014 (ID: 27150)
16:00	Prieto, A. ; Barber-Lluch, E.; Hernández-Ruiz, M.; Martínez-García, S.; Fernández, E.; Teira, E.: ASSESSING THE ROLE OF PHYTOPLANKTON-BACTERIOPLANKTON COUPLING IN THE RESPONSE OF MICROBIAL PLANKTON TO NUTRIENT ADDITIONS (ID: 26217)	10:30	Rilov, G. : OCEAN WARMING AND MULTI-SPECIES COLLAPSES AT THE EDGE OF THE SEA – EVIDENCE OF A REGIME SHIFT IN THE LEVANT? (ID: 27744)
16:15	Rivkin, R. B. ; Anderson, M. R.: COMPETITION BETWEEN BACTERIA AND PHYTOPLANKTON: CHARACTERISTICS, CONTROLS AND CONSEQUENCES. (ID: 26310)	10:45	Hadjioannou, L. ; Jimenez, C.; Cvitkovic, I.; Despalatovic, M.; Evriavidou, M.; Andreou, V.; Petrou, A.: CLADOCORA CAESPITOSA, A MEDITERRANEAN CORAL UNDER THREAT? WAKE-UP CALL FROM RECENT MASS MORTALITY EVENTS (ID: 27159)
17:00	Bronk, D. A. ; Sipler, R. E.; Sanderson, M. P.; Roberts, Q. N.; Baer, S.: AFFECT OF TERRESTRIAL DISSOLVED ORGANIC MATTER ON THE COMPETITION BETWEEN PHYTOPLANKTON AND BACTERIA FOR NITRATE IN THE COASTAL CHUKCHI SEA* (ID: 27581)	11:00	Corrales, X. ; Coll, M.; Ofir, E.; Goren, M.; Edelist, D.; Heymans, J. J.; Gal, G.: MODELING THE STRUCTURE AND FUNCTIONING OF THE ISRAELI MARINE CONTINENTAL SHELF ECOSYSTEM: INSIGHTS OF THE IMPACT OF ALIEN SPECIES AND FISHING (ID: 25700)
17:15	Jin, H. ; Chen, J.; Zhuang, Y.; Gao, S.; Wang, B.; Tian, S.: THE EFFECT OF SEA ICE RETREAT ON PHYTOPLANKTON COMMUNITIES IN THE WESTERN ARCTIC OCEAN IN SUMMER (ID: 27654)	11:15	Ouba, A. ; Abboud-Abi Saab, M.; Stemmann, L.: INTERANNUAL (1999-2014) AND SEASONAL VARIATIONS OF ZOOPLANKTON IN THE LEVANTINE SEA UNDER CLIMATIC CHANGES (ID: 25892)
17:30	Larsen, A. ; Egge, J. K.; Nejstgaard, J. C.; Di Capua, I.; Thyraug, R.; Bratbak, G.; Thingstad, T. F.: PREDATOR'S INFLUENCE ON OSMOTROPHS' COMPETITION FOR MINERAL NUTRIENTS IN ARCTIC MARINE MICROBIAL PELAGIC FOOD WEBS (ID: 25853)	11:30	Hannides, C. C. ; Zervoudaki, S.; Frangoulis, C.; Lange, M. A.; Siokou, I.: MESOZOOPLANKTON STABLE ISOTOPE COMPOSITION IN THE EASTERN MEDITERRANEAN (ID: 27411)
		11:45	Jimenez, C. ; Achilleos, K.; Brook, G.; Petrou, A.; Hadjioannou, L.; Abu Alhaija, R.: ECOLOGICAL ENGINEERING IN THE DARK: BIOGENIC STALACTITES IN A SUBMERGED MARINE CAVE (CYPRUS) (ID: 27392)

058 MICROBIAL INTERACTIONS ACROSS THE DOMAINS OF LIFE

Chair(s): Susanne Wilken, swilken@mbari.org
 Valeria Jimenez, vjimenez@mbari.org
 Alexandra Worden, azworden@mbari.org

Location: Room B (Floor -3)

- 09:00 **Martin Platero, A. M.**; Cleary, B.; Kauffman, K. M.; Kearney, S.; Preheim, S. P.; Alm, E. J.; Polz, M. F.: RAPID TURNOVER OF MICROBIAL COMMUNITIES IN COASTAL OCEAN PLANKTON (ID: 25638)
- 09:15 **Lima-Mendez, G.**; Faust, K.; Henry, N.; Decelle, J.; Colin, S.; Carcillo, F.; Chaffron, S.; Ignacio-Espinoza, J. C.; Roux, S.; Vincent, F.; Bittner, L.; Darzi, Y.; Wang, J.; Audic, S.; Berline, L.; Bontempi, G.; Coppola, L.; Cornejo-Castillo, F. M.; d'Ovidio, F.; Demeester, L.; Garet-Delmas, M. J.; Guidi, L.; Pesant, S.; Salazar, G.; Dimier, C.; Picheral, M.; Searson, S.; Kandels-Lewis, S.: TOP-DOWN DETERMINANTS OF COMMUNITY STRUCTURE IN THE GLOBAL PLANKTON INTERACTOME (ID: 27252)
- 09:30 **Muñoz-Marín, M. C.**; Thompson, A. W.; Zehr, J. P.: TRANSCRIPTOMIC ANALYSIS IN THE CYANOBACTERIUM UCYN-A (ID: 26430)
- 09:45 **Brauer, V. S.**; Stomp, M.; Bouvier, T.; Fouilland, E.; Leboulanger, C.; Confurius-Guns, V.; Weissing, F. J.; Stal, L. J.; Huisman, J.: INTERACTIONS BETWEEN A MARINE NITROGEN-FIXING CYANOBACTERIUM AND ITS ASSOCIATED BACTERIAL COMMUNITY (ID: 26709)
- 10:45 **Hernández-Ruiz, M.**; Barber-Lluch, E.; Prieto, A.; Varela, M. M.; Fernández, E.; Teira, E.: MICROBIAL PLANKTON COMMUNITY RESPONSES TO NUTRIENT AND B12-VITAMIN ADDITIONS (ID: 26971)
- 11:00 **Allen, A. E.**; Bertrand, E. M.; McCrow, J. P.; Moustafa, A.: PHYTOPLANKTON-BACTERIAL COUPLING MEDIATES MICRONUTRIENT LIMITATION IN THE SOUTHERN OCEAN (ID: 27534)
- 11:15 **Hmelo, L. R.**; Amin, S.; Tseng, B. S.; Harrison, J. J.; van Tol, H.; Armbrust, E. V.; Parsek, M. R.: BIOFILM FORMATION IS AN IMPORTANT FACTOR IN THE SYNERGISTIC RELATIONSHIP BETWEEN *SULFITOBACTER* STRAIN SA11 AND *PSEUDO-NITZSCHIA MULTISERIES* (ID: 27677)
- 11:30 **Baker, L. J.**; Kemp, P. F.: BACTERIAL COLONIZATION OF DIATOM SURFACES: STRATEGIES, WINNERS AND LOSERS (ID: 26438)
- 11:45 **Vincent, F.**; Mendez, G. L.; Colin, S.; de Vargas, C.; Raes, J.; Bowler, C.: DIATOM INTERACTIONS IN THE OPEN OCEAN: AN ECOLOGICAL NETWORK BASED APPROACH TO STUDY DIATOM COMMUNITY (ID: 27757)
- 15:00 **Decelle, J.**; Mordret, S.; Henry, N.; Romac, S.; Carmichael, M.; Colin, S.; Berney, C.; Garet-Delmas, M.; De Vargas, C.: THE SYMBIOTIC LIFE OF SYMBIODINIUM IN THE OCEANIC PLANKTON WITH A NEW SPECIES OF CALCIFYING CILIATE (ID: 26676)
- 15:15 **Beinart, R. A.**; Pachiadaki, M. G.; Bernhard, J. M.; Leadbetter, E. R.; Edgcomb, V. P.: INSIGHTS INTO THE METABOLIC FUNCTIONING OF A MULTI-PARTNER CILIATE SYMBIOSIS FROM OXYGEN-DEPLETED SEDIMENTS (ID: 27354)
- 15:30 **Hamilton, M. M.**; Hennon, G. M.; Morales, R.; Needoba, J. A.; Peterson, T.; Schatz, M.; Swalwell, J.; Zuber, P.; Armbrust, E. V.; Ribalet, F.: INVESTIGATING THE INTERACTIONS BETWEEN THE CILIATE *MESODINIUM* MAJOR AND CRYPTOPHYTE ALGAE IN THE COLUMBIA RIVER ESTUARY. (ID: 27442)

15:45 **Hansen, P. J.**; Ojamäe, K.; Berge, T.; Trampe, E.; Nielsen, L. T.; Lips, I.; Kuhl, M.: PHOTOREGULATION IN A KLEPTOCHLOROPLASTIDIC DINOFAGELLATE, DINOPHYSIS ACUTA (ID: 27038)

16:00 **Park, M. G.**; Kim, M.; Kim, S.: TROPHIC INTERACTIONS OF THE FACULTATIVE MIXOTROPHIC DINOFAGELLATE FRAGILIDIUM DUPLOCAMPANAEOFORME WITH DINOFAGELLATES DINOPHYSIS spp. AND A CILIATE MESODINIUM (ID: 26582)

16:15 **Fischer, R.**; Hillebrand, H.; Giebel, H.; Ptacnik, R.: DEFINING THE NICHE OF MIXOTROPHIC BACTERIVORES (ID: 27537)

17:00 **Grossart, H. P.**; Rieck, A.; Wurzbacher, C.: FUNGAL DIVERSITY AND FUNCTION IN AQUATIC SYSTEMS (ID: 25974)

17:15 **Frenken, T.**; Velthuis, M.; Aben, R.; Kosten, S.; Van Donk, E.; Van de Waal, D. B.: IMPACT OF GLOBAL WARMING ON THE FUNGAL INFECTON OF A PHYTOPLANKTON SPRING BLOOM (ID: 26155)

17:30 **Alacid, E.**; Park, M. G.; Turon, M.; Garcés, E.: *PARVILUCIFERA SINERAES* IS A GENERALIST PARASITE BUT SHOWS CLEAR PREFERENCES AMONG ITS DINOFAGELLATES HOSTS (ID: 25832)

17:45 **George, A.**; De Palmas, S.; Chen, C. A.: CHARACTERIZING BACTERIA COMMUNITIES OF CORAL DISEASES IN CHINA AND TAIWAN (ID: 27250)

18:00 **Davis, J.**; Vicente, J.; Hill, R. T.: PHOTOSYNTHETIC SEA SLUG *E. CRISPATA* HARBORS SIMILAR BACTERIAL COMMUNITIES IN TWO GEOGRAPHICALLY DISTINCT CARIBBEAN LOCATIONS (ID: 25937)

066 STRENGTHENING THE PALAEOOLIMNOLOGICAL CONTRIBUTION TO GLOBAL CHANGE

Chair(s): Jordi Catalan, j.catalan@creaf.uab.cat
 Alexander P. Wolfe, awolfe@ualberta.ca
 Oliver Heiri, oliver.heiri@ips.unibe.ch
 John Tibby, john.tibby@adelaide.edu.au
 Carmen Pérez-Martínez, cperezm@ugr.es
 Eduardo L Piovano, eduardopiovano@gmail.com

Location: Albeniz (Floor -2)

08:30 Schilder, J. C.; van Hardenbroek, M.; Bodelier, P.; Kirilova, E. P.; Leuenberger, M.; Lotter, A. F.; **Heiri, O.**: PRODUCTIVITY CHANGES AFFECT THE IMPORTANCE OF METHANOGENIC CARBON IN THE FOOD WEB OF A SMALL TEMPERATE LAKE* (ID: 26917)

08:45 **Rioual, P.**; Chu, G.; Mingram, J.; Han, J.; Liu, J.: DIATOM SEASONALITY ASSESSED FROM SEDIMENT TRAPS AND IMPLICATIONS FOR THE INTERPRETATION OF AN ANNUALLY LAMINATED SEDIMENTARY RECORD FROM CHINA* (ID: 26463)

09:00 **Catalan, J.**; Pla-Rabès, S.; Rivera-Rondón, C. A.; Camarero, L.: RECONSTRUCTING INORGANIC CARBON CHANGES IN LAKES USING THE DIATOM RECORD* (ID: 26022)

09:15 **Milan, M.**; Bigler, C.; Szeroczyńska, K.; Salmaso, N.; Tolotti, M.: MULTI-PROXY APPROACH TO EVALUATE THE EFFECTS OF CLIMATE CHANGE AND NUTRIENT ENRICHMENT ON THE PLANKTONIC COMMUNITY IN LAKE GARDA (ITALY) AT SECULAR SCALE * (ID: 27181)

09:30 **Rivera-Rondón, C. A.**; Catalan, J.: THE RATIO BETWEEN CHRYSOPHYCEAN CYSTS AND DIATOMS AS AN INDEX FOR WATER LEVEL RECONSTRUCTION (ID: 26488)

* REPRESENTS TUTORIAL PRESENTATIONS

09:45	Lami, A. ; Buchaca, T.; Marchetto, A.; Musazzi, S.; Catalan, J.; Guilizzoni, P.: DIFFERENTIAL PATTERNS IN THE RESPONSE TO GLOBAL CHANGE OF HIGH ALTITUDE LAKES IN TWO MOUNTAIN RANGES IN EUROPE* (ID: 26179)
10:30	Wendt-Potthoff, K. ; Scharf, B. W.; Boehrer, B.; Völkner, C.; Tittel, J.; Merkt, J.: VARVE FORMATION IN THE ACIDIC (PH 2.7) PIT LAKE 111 (LUSATIA, GERMANY)* (ID: 25811)
10:45	Reavie, E. D. ; Sgro, G. V.; Allinger, L. E.; Bramburger, A. J.; Shaw Chraibi, V. L.: SHOULD WE BE CONCERNED ABOUT CLIMATE-DRIVEN REORGANIZATION OF AQUATIC PRIMARY PRODUCERS?* (ID: 25861)
11:00	Moorhouse, H. L. ; McGowan, S.; Jones, M. D.; Taranu, Z.; Barker, P.; Leavitt, P. R.; Gregory-Eaves, I.; Brayshaw, S.; Haworth, E. Y.: LANDSCAPE-SCALE PALAEOCLIMATOLOGY IN LAKES OF THE WINDERMERE CATCHMENT TO IDENTIFY THE DRIVERS OF RECENT LIMNOLOGICAL CHANGE. * (ID: 25789)
11:15	Pérez-Martínez, C. ; Jiménez, L.; Rühland, K. M.; Jeziorski, A.; Michelutti, N.; Conde-Porcuna, J. M.; Smol, J. P.: MULTI-PROXY EVIDENCE OF 20TH CENTURY CLIMATE WARMING IN SIERRA NEVADA ALPINE LAKES* (ID: 26058)
11:30	Pla-Rabes, S. ; Monteith, D.; Flower, R.; Rose, N.; Catalan, J.: REMOTE LAKE PHYTOPLANKTON VARIABILITY MATCHES THE NORTHERN HEMISPHERE CLIMATE CHANGE PATTERN* (ID: 26105)
11:45	Rubio-Inglés, M. J. ; Shanahan, T. M.; Sáez, A.; Pueyo, J.; Raposeiro, P. M.; Hernández, A.; Sánchez-López, G.; Gonçalves, V. M.; Masqué, P.; Giralt, S.: TEMPERATURE RECONSTRUCTION BY GDGTs FOR THE LAST 700 YEARS IN AZORES ARCHIPELAGO: AN EXAMPLE OF A CONTINENTAL RECORD IN THE NORTH ATLANTIC.* (ID: 26615)
15:00	Toney, J. L. ; McColl, J. L.; Seki, O.; Couto, J.; Bendle, J. A.; Henderson, A. C.; Phoenix, V. R.; Uchida, M.; Kawamura, K.: TEMPERATURE AND HYDROLOGICAL VARIABILITY FROM LAKE TOYONI, HOKKAIDO, JAPAN OVER THE LAST 1,000 YEARS* (ID: 26056)
15:15	García-Alix, A. ; Toney, J. L.; Jiménez-Moreno, G.; Anderson, R. S.; Moosen, H.; Seki, O.: PRELIMINARY RECONSTRUCTION OF THE PRECIPITATION/EVAPORATION BALANCE DURING THE HOLOCENE IN SIERRA NEVADA (S SPAIN)* (ID: 26106)
15:30	Stevenson, M. A. ; McGowan, S.; Swann, G. E.; Pearson, E. J.: VARIABILITY IN ARCTIC LAKE CARBON PROCESSING DURING THE HOLOCENE ALONG A LANDSCAPE GRADIENT, DISKO ISLAND, WEST GREENLAND* (ID: 26675)
15:45	Frugone, M.; Carrevedo, M.; Latorre, C.; Maldonado, A.; Cárdenas, D.; Bernárdez, P.; Prego, R.; Barreiro-Lostres, F.; Giralt, S.; Valero-Garcés, B. L. : RECENT AND HOLOCENE ENVIRONMENTAL VARIABILITY IN HIGH ALTITUDE ANDEAN LAKES: LAGUNA DEL MAULE, CENTRAL CHILE (ID: 27503)
16:00	Jimenez-Moreno, G. ; Ramos-Roman, M. J.; Garcia-Alix, A.; Toney, J. L.; Anderson, R. S.; Jimenez-Espejo, F. J.; Martinez-Ruiz, F.; Kaufman, D.; Bright, J.; Larrasoña, J. C.: A NEW LONG SEDIMENT RECORD FROM EL PADUL, SIERRA NEVADA (SOUTHERN SPAIN)* (ID: 25466)

071 PHYSIOLOGICAL RESPONSES OF PHYTOPLANKTON TO RESOURCE AVAILABILITY

Chair(s): Kimberly Halsey, halseyk@science.oregonstate.edu
 Amanda Cockshutt, acockshu@mta.ca
 Mario Giordano, m.giordano@me.com
 Ondrej Prasil, prasil@alga.cz
 Bethan Jones, bethan.jones@science.oregonstate.edu

Location: Seminario 3-4-5 (Floor 1)
 08:30 **Vardi, A.**: REDOX-BASED SENSING OF ENVIRONMETAL STRESS- FROM ORGANELLE SIGNALING TO CELL FATE DECISION * (ID: 25884)

08:45 **Huete-Ortega, M.**; McKew, B. A.; Finch, S. J.; Metodieva, G.; Metodiev, M.; Geider, R. J.: PROTEOMIC AND PHOTOPHYSIOLOGICAL CHANGES IN *EMILIANIA HUXLEYI* CCMP 1516 UNDERLYING PHOTOACCLIMATION TO INCREASING LIGHT INTENSITIES (ID: 26318)

09:00 **Lacour, T.**; Ferland, J.; Larivière, J.; Babin, M.: ARCTIC DIATOM ADAPTATION AND ACCLIMATION TO IRRADIANCE AND TEMPERATURE (ID: 26309)

09:15 **Domínguez-Martín, M. A.**; Gómez-Baena, G.; Diez, J.; Seidel, G.; Burkovski, A.; Beynon, R. J.; García-Fernández, J. M.: DIVERSITY OF REGULATORY MECHANISMS OF C/N METABOLISM IN DIFFERENT PROCHLOROCOCCUS ECOTYPES (ID: 26072)

09:30 **Eichner, M. J.**; Kranz, S. K.; Thoms, S.; Rost, B.: PHYSIOLOGY OF A N₂-FIXER UNDER OCEAN ACIDIFICATION – THE ROLES OF INTERNAL CARBON FLUXES AND ENERGY ALLOCATION (ID: 27549)

09:45 **Felcmanova, K.**; Kotabova, E.; Lukes, M.; Kana, R.; Halsey, K.; Prasil, O.: REGULATION OF PHOTOSYNTHESIS AND PRIMARY PRODUCTION OF PROKARYOTE MICROORGANISM *PROCHLOROCOCCUS MARINUS* (ID: 26538)

10:30 **Dyrhman, S. T.**; Alexander, H.; Jenkins, B. D.; Rynearson, T. A.: LEVERAGING TRANSCRIPTOME DATA TO IDENTIFY RESOURCE PARTITIONING OF PHYTOPLANKTON NICHE SPACE IN THE FIELD* (ID: 27234)

10:45 **Wirtz, K. W.**: RICHNESS IN PHYTOPLANKTON STOICHIOMETRIC RESPONSES EXPLAINED BY INTERMITTENCY AND VARIABLE CO-LIMITATION (ID: 25979)

11:00 **Giordano, M.**; Prioretti, L.: ALGAE AND SULFATE: SOME INSIGHTS ON ALGAL ATP SULFURYLASE (ID: 26239)

11:15 **Wilken, S.**; Schuurmans, J. M.; Matthijs, H. C.; Worden, A. Z.: HOW LIGHT AND PREY AVAILABILITY SHAPE THE PHYSIOLOGY OF MIXOTROPHIC FLAGELLATES (ID: 26477)

11:30 **Barber-Lluch, E.**; Hernández-Ruiz, M.; Prieto, A.; Martínez-García, S.; Sobrino, C.; Teixeira, I.; Fernández, E.; Teira, E.; Arbones, B.; Figueiras, F.: RESPONSE PATTERNS OF AUTOTROPHIC MICROBIAL PLANKTON TO NUTRIENT INPUTS: CONSTRUCTING A PREDICTIVE TOOL (ID: 26287)

11:45 **Jones, B. M.**; Fisher, N. L.; Halsey, K. H.: PHYSIOLOGICAL AND TRANSCRIPT-RELATED RESPONSES OF *THALASSIOSIRA PSEUDONANA* TO NITRATE LIMITATION (ID: 26419)

15:00 **Graff, J. R.**; Fisher, N. L.; Milligan, A. J.; Behrenfeld, M. J.; Halsey, K. J.: OUT OF THE DARKNESS: SHEDDING LIGHT ON PHYTOPLANKTON PHOTOACCLIMATION IN THE NATURAL MARINE ENVIRONMENT (ID: 27330)

- 15:15 **Dugenne, M.**; Thyssen, M.; Grégori, G. J.: PHYSIOLOGICAL-BASED ESTIMATIONS OF GROWTH RATES IN NATURAL AND CONTROLLED PHYTOPLANKTONIC POPULATIONS BY AUTOMATED FLOW CYTOMETRY (ID: 27062)
- 15:30 **Lawrenz, E.**; Charvát, F.; Prášil, O.: RECONCILING PHOTOSYNTHETIC ELECTRON TRANSFER WITH CARBON FIXATION AND OXYGEN EVOLUTION IN MARINE PHYTOPLANKTON (ID: 25679)
- 15:45 **Köhler, J.**: ESTIMATION OF MINIMUM LIGHT REQUIREMENTS OF PHYTOPLANKTON IN MIXED WATER LAYERS (ID: 27151)
- 16:00 **Sabbe, K.**; Barnett, A.; Blommaert, L.; Mélédier, V.; Lepetit, B.; Dupuy, C.; Gaudin, P.; Vyverman, W.; Lavaud, J.: GROWTH FORM DETERMINES PHYSIOLOGICAL PHOTOPROTECTIVE CAPACITY IN MARINE INTERTIDAL DIATOMS (ID: 26228)
- 16:15 **Stomp, M.**; Matthijs, H.; Stal, L. J.; Huisman, J.: SPECTRAL TUNING OF CYANOBACTERIAL PIGMENTS SHAPED BY VIBRATIONS OF THE WATER MOLECULE (ID: 26715)

072 PHYSICAL AND BIOLOGICAL PROCESSES ASSOCIATED WITH THE EXCHANGE THROUGH STRAITS: THE CASE OF GIBRALTAR AND OTHER NARROW STRAITS.

- Chair(s): Fidel Echevarría, fidel.echevarria@uca.es
Jesús García-Lafuente, glafuente@ctima.uma.es
Carlos M. García, carlos.garcia@uca.es
Bouchta El Moumni, bmouumni@yahoo.fr
- Location: Press Room (Floor 2)
- 15:00 **Echevarría, F.**; García Lafuente, J. M.; García, C. M.; El Moumni, B.; Bruno, M.: PHYSICAL AND BIOLOGICAL PROCESSES ASSOCIATED WITH THE EXCHANGE THROUGH STRAITS* (ID: 27570)
- 15:15 **Macias, D.**; García-Gorri, E.; Stips, A.: DISCRIMINATING LOCAL AND REMOTE ATMOSPHERIC FORCING OF THE ATLANTIC JET DYNAMICS IN THE ALBORAN SEA^T (ID: 26487)
- 15:45 **huertas cabilla, E.**; flecha, s.; Ríos, A.; García-Lafuente, J.; Hilmi, K.; de la Paz, M.; Pérez, F.: GIFT (GIBRALTAR FIXED TIME SERIES): A SENSOR FOR GLOBAL CHANGE IN THE MEDITERRANEAN SEA (ID: 26701)
- 16:00 **Mercado, J. M.**; Cortés, D.; Gómez, F. J.; Salles, S.; Yebra, L.; León, P.; Putzeys, S.: DISCRIMINATING EFFECTS OF HYDROLOGICAL VARIABILITY AND ANTROPOGENIC PRESSURES ON NUTRIENT BUDGET AND PLANKTON PRODUCTION IN THE BAY OF ALGECIRAS (ID: 26010)
- 16:15 Sánchez Garrido, J. C.; Naranjo, C.; Macías, D.; García-Lafuente, J.: MODELLING THE BIOLOGICAL RESPONSE TO TIDAL FORCING IN THE STRAIT OF GIBRALTAR-ALBORAN SEA SYSTEM (ID: 25820)
- 17:00 **Park, K.**; Powers, S. P.; Bosarge, G. S.; Jung, H.: EFFECT OF A HURRICANE-INDUCED PASS ON HABITAT QUALITY FOR OYSTERS IN A NORTHERN GULF OF MEXICO ESTUARY (ID: 25748)
- 17:15 **Sanchez-Leal, R. F.**; Bellanco-Esteban, M. J.; Sanchez-Garrido, J. C.; Sammartino, S.; Naranjo-Rosa, C.; García-Lafuente, J.; Ruiz-Villarreal, M.; Gonzalez-Pola, C.; Peliz, A.; Relvas, P.: THE SPREADING PATTERN OF THE MEDITERRANEAN OUTFLOW WATER (MOW) WEST OF THE STRAIT OF GIBRALTAR. (ID: 27101)

- 17:30 **Oguz, T.**; Macias, D.; Garcia-Lafuente, J.; Pasqual, A.; Tintore, J.: FUELING PLANKTON PRODUCTION BY A MEANDERING FRONTAL JET: A CASE STUDY FOR THE ALBORAN SEA (WESTERN MEDITERRANEAN) (ID: 26443)
- 17:45 **Akhir, M. F.**; Kok, P. H.; Zainol, Z.: SHALLOW SHELF UPWELLING DYNAMICS AND COOL WATER MIXING BETWEEN TWO DIFFERENT REGION THROUGH KARIMATA STRAITS (ID: 26513)
- 18:00 **Psarra, S.**; Zervakis, V.; Lagaria, A.; Frangoulis, C.; Giannakourou, A.; Gogou, A.; Karageorgis, A.; Kokkini, Z.; Krasakopoulou, E.; Mara, P.; Parinos, C.; Pitta, E.; Pitta, P.; Tragou, E.; Tsiola, A.; Triantaphyllou, M.; Zeri, C.: EFFECTS OF THE BLACK SEA WATER INFLOW ON THE ECOSYSTEM FUNCTIONING OF THE NE AEGEAN SEA (NE MEDITERRANEAN) (ID: 27553)
- 18:15 **del Rosal Salido, J.**; Zarzuelo Romero, C.; Díez Minguito, M.; Ortega Sánchez, M.; Losada Rodríguez, M.: RESIDUAL CIRCULATION IN THE BAY OF CADIZ (SW SPAIN): FIELD DATA ANALYSIS AND NUMERICAL MODELING (ID: 26183)

075 MARINE MICROBIAL BIODIVERSITY, BIOINFORMATICS, AND BIOTECHNOLOGY

- Chair(s): Frank Oliver Glockner, fog@mpi-bremen.de
Chris Bowler, cbowler@biologie.ens.fr
Linda Amaral Zettler, amaral@mbl.edu
- Location: Andalucia 1 (Floor 1)
- 10:30 Sunagawa, S.; **Coelho, L. P.**; Chaffron, S.; Kultima, J. R.; Labadie, K.; Salazar, G.; Djahanschiri, B.; Zeller, G.; Mende, D.; Alberti, A.; Cornejo-Castillo, F. M.; Costea, P. I.; Cruaud, C.; d'Ovidio, F.; Engelen, S.; Ferrera, I.; Gasol, J. M.; Guidi, L.; Hildebrand, F.; Kokoszka, F.; Lepoivre, C.; Lima-Mendez, G.; Poula, J.; Poulos, B. T.; Royo-Llonch, M.; Sarmento, H.; Vieira-Silva, S.; Celine, D., et al: STRUCTURE AND FUNCTION OF THE GLOBAL OCEAN MICROBIOME* (ID: 27509)
- 11:00 **Kirillovsky, A.**; Pelletier, E.; Caputi, L.; Paz-Yepes, J.; Boccara, M.; Aury, J. M.; Bowler, C.; Wincker, P.; Not, F.; Iudicone, D.: METABOLIC RESPONSE OF A PLANKTONIC ECOSYSTEM TO ENVIRONMENTAL PERTURBATION* (ID: 26092)
- 11:15 **Amaral-Zettler, L. A.**; Slikas, B.; Carlson, L.; Blum, L.; Booth, M.; Boyer, J.; Carlson, C.; Ducklow, H.; Tittensor, D.: GLOBAL PATTERNS AND PREDICTORS IN BACTERIAL BIODIVERSITY * (ID: 26164)
- 11:30 **Kottmann, R.**; Schnetzer, J.; Pop Ristov, A.; Glöckner, F. O.: THE MICRO B3 INFORMATION SYSTEM: MANAGING THE DATA FLOW OF THE OCEAN SAMPLING DAY* (ID: 26126)
- 11:45 **Chaouni, B.**; ZAID, E.; GHAZAL, H.: CHARACTERIZATION OF MICROBIAL DIVERSITY IN MOROCCAN LAGOONS USING METAGENOMICS APPROACH* (ID: 27391)
- 15:00 **Balestreri, C.**; Schroeder, J.; Schroeder, D. C.: MICROBIAL DIVERSITY IN THE WESTERN CHANNEL OBSERVATORY AS OBSERVED BY NGS* (ID: 27193)
- 15:15 Hugerth, L. W.; Alneberg, J.; Larsson, J.; Pinhassi, J.; **Andersson, A. F.**: RECONSTRUCTION OF BALTIMORE SEA BACTERIOPLANKTON GENOMES FROM TIME-SERIES METAGENOMES UNCOVERS A GLOBAL BRACKISH MICROBIOME* (ID: 27387)

^T REPRESENTS TUTORIAL PRESENTATIONS

15:30	Partensky, F. ; Grebert, T.; Humily, E.; Farrant, G. K.; Ratin, M.; Bisch, A.; Pitt, F. D.; Scanlan, D. J.; Garczarek, L.: ADAPTATION TO LIGHT COLOR IN THE OCEAN: INSIGHTS FROM COMPARATIVE ANALYSES OF MARINE SYNECHOCOCCUS GENOMES AND PHYCOSOMES GENE REGIONS FROM THE FIELD* (ID: 26818)	15:30	Merbt, S. N. ; Ribot, M.; Casamayor, E. O.; Martí, E.; Bernal, S.: MAIN ROLE OF EPILITHIC BIOFILMS IN WHOLE-REACH NITRIFICATION IN AN URBAN STREAM UNDER HIGH NITROGEN LOAD CONDITIONS (ID: 27042)
15:45	Martin-Cuadrado, A. ; Garcia-Heredia, I.; Gonzaga Molto, A.; López-Úbeda, R.; Kimes, N.; López-García, P.; Moreira, D.; Rodriguez-Valera, F.: NEW CLASSES OF MARINE EURYARCHAEOTA GROUP II FROM THE MEDITERRANEAN DCM* (ID: 27053)	15:45	Hernández-del Amo, E. ; Gich, F.; Bañeras, L.: COMMUNITY COMPOSITION DETERMINES NITRITE FATE IN A FREE WATER SURFACE CONSTRUCTED WETLAND (ID: 26394)
16:00	Logares, R. ; Perera-Bel, J.; Pernice, M. C.; Giner, C. R.; Sánchez, P.; Salazar, G.; Sebastián, M.; Acinas, S. G.; Gasol, J. M.; Massana, R.; Cornejo-Castillo, F. M.; Duarte, C. M.: WHAT CAN METAGENOMES TELL US ABOUT DEEP-SEA PROTISTS? A GLOBAL PERSPECTIVE* (ID: 26757)	16:00	Sala-Faig, M. ; Camarero, L.; Casamayor, E. O.; Catalan, J.: MOLECULAR AND ISOTOPIC ANALYSIS REVEAL HIGH NITRIFICATION ACTIVITY PERFORMED BY AMMONIA-OXIDIZING BACTERIA IN A DEEP OLIGOTROPHIC MOUNTAIN LAKE (ID: 26226)
16:15	Hardge, K. ; Stock, A.; Neuhaus, S.; Weinisch, L.; Peeken, I.; Stoeck, T.; Metfies, K.: FROM MELT PONDS TO THE WATER COLUMN: PROTIST DIVERSITY IN THE CENTRAL ARCTIC OCEAN* (ID: 26620)	16:15	Welti, N. D. ; Siljanen, H.; Rajasakaren, S.; Biasi, C.; Martikainen, P.: MECHANISMS OF NITROUS OXIDE UPTAKE IN BOREAL PEATLANDS QUANTIFIED BY ISOTOPIC AND MOLECULAR METHODS (ID: 25668)
17:00	Fernandez-Guerra, A. ; Kottmann, R.; Barberan Torrents, A.; Casamayor, E. O.; Glöckner, F. O.: EXPLORING THE DARK SIDE OF THE METAGENOMES* (ID: 26094)	17:00	Vila, M. ; Pulido, C.; Chappuis, E.; Casamayor, E. O.; Gacia, E. : MACROPHYTE LANDSCAPE MODULATES ECOSYSTEM-LEVEL NITROGEN LOSSES THROUGH TIGHTLY COUPLED PLANT-MICROBE INTERACTIONS (ID: 27247)
17:15	Jaillon, O. ; Vannier, T.; Wincker, P.: A FIRST LARGE SCALE CHARACTERIZATION OF EUKARYOTIC UNKNOWN GENES OF PLANKTON * (ID: 25623)	17:15	Palacin-Lizarbe, C. ; Camarero, L.; Casamayor, E. O.; Catalan, J.: DENITRIFICATION IN MOUNTAIN LAKES FROM THE PYRENNES: RATES & GENE COPIES (ID: 26088)
17:30	Mangot, J. F. ; Logares, R.; Sieracki, M. E.; Wincker, P.; de Vargas, C.; Massana, R.: TOWARDS A COMPLETE DESCRIPTION OF THE GENOMES OF MARINE UNCULTURED STRAMENOPILES USING SINGLE CELL GENOMICS* (ID: 27065)	17:30	Giménez-Grau, P. ; Felip, M.; Pla-Rabés, S.; Camarero, L.; Catalan, J.: PROKARYOTE PHYLOGENETIC MAJOR GROUPS' RESPONSE TO P AND N EXPERIMENTAL ENRICHMENTS IN AN ULTRAOLIGOTROPHIC LAKE (ID: 26314)
17:45	Veluchamy, A.; Rastogi, A.; Lin, X.; Thomas, Y.; Murik, O.; Lombard, B.; Loew, D.; Allen, A. E.; Bowler, C.; Tirichine, L. : PHAEODACTYLUM TRICORNUTUM, A MODEL SYSTEM FOR STUDYING THE GENETIC AND EPIGENETIC BASES OF ADAPTATION IN OCEANIC PLANKTON COMMUNITIES* (ID: 25436)	17:45	Fillol, M. ; Villanueva, L.; Hopmans, E. C.; Borrego, C. M.; Sinnighe Damsté, J. S.: CHARACTERIZATION OF ARCHAEOAL COMMUNITIES IN SEDIMENT FROM A KARSTIC LAKE USING ISOPRENOID GDGT MEMBRANE LIPID AND GENE-BASED MOLECULAR ANALYSES (ID: 26053)
18:00	Schroeder, J. L. ; Balestreri, C.; Yilmaz, P.; Paszkiewicz, K. H.; Moore, K. A.; Thorpe, S. E.; Glockner, F. O.; Schroeder, D.: IN NEXT GENERATION AMPLEON SEQUENCING PROJECTS IS REPPLICATION A NECESSARY EXPENSE?* (ID: 25860)	18:00	Peura, S. ; Sinclair, L.; Eiler, A.: VERTICAL COMPARTMENTALIZATION IN THE WATERCOLUMN OF HUMIC LAKES (ID: 26659)
18:15	Wesnigk, J. B. : CAPACITY BUILDING IN ENVIRONMENTAL BIOINFORMATICS AND MARINE BIOTECHNOLOGY* (ID: 25591)	18:15	Ruiz-Jiménez, C. ; Hernández-del Amo, E.; Bañeras, L.; Sánchez-Carrillo, S.: TOWARDS AN UNDERSTANDING OF THE N TRANSFORMATION IN AN OLIGOTROPHIC LAKE OF SPAIN: 15N REACH-SCALE ENRICHMENT AND QUANTIFICATION OF N CYCLING FUNCTIONAL GENES (ID: 25865)

086 A MEETING POINT FOR FRESHWATER BIOGEOCHEMISTRY AND MICROBIAL BIODIVERSITY: WHO IS DOING THE WORK, AT WHAT PACE ARE THEY WORKING?

Chair(s): Jordi Catalan, j.catalan@creaf.uab.cat Diane McKnight, Diane.Mcknight@colorado.edu Lluis Camarero, camarero@ceab.csic.es	Location: Andalucia 2 (Floor 1)
15:00 Kleinteich, J. ; Stelmach-Pessi, I.; Velazquez, D.; Javaux, E.; Storme, J. Y.; Darchambeau, F.; Borges, A. V.; Compère, P.; Golubic, S.; Wilmette, A.: CYANOBACTERIA – THE CONSTRUCTORS OF TRAVERTINES? (ID: 27480)	15:00
15:15 Meziti, A. ; Tsementzi, D.; Kormas, K.; Konstantinidis, K.; Karayanni, H.: SHIFTS IN PHYLOGENETIC DIVERSITY AND FUNCTIONAL GENE CONTENT ALONG SPACE AND TIME IN A HUMAN-IMPACTED RIVER IN NORTHWEST GREECE (ID: 25561)	15:15

089 INFOCHEMICAL CONTROLS ON BIOGEOCHEMICAL PROCESSES IN AQUATIC AND MARINE ECOSYSTEMS

Chair(s): Benjamin Van Mooy, bvanmooy@whoi.edu Kay Bidle, bidle@marine.rutgers.edu Matt Johnson, mattjohnson@whoi.edu Tracy Mincer, tmincer@whoi.edu Assaf Vardi, Assaf.Vardi@weizmann.ac.il	Location: Room D (Floor -3)
15:00 Pohnert, G. : CHEMICAL SIGNALS IN THE SEA - FROM MICROSCOPIC GRADIENTS TO GLOBAL REGULATION* (ID: 27682)	15:00
15:15 Echevarria, M. L. ; Taylor, A. R. : PLANKTON SENSORY BIOLOGY: UNRAVELING CELLULAR RESPONSES TO ENVIRONMENTAL CUES* (ID: 26274)	15:15

THURSDAY

15:30	Van Mooy, B. A. ; Bidle, K. D.; Dyhrman, S. T.; Johnson, M. D.; Mincer, T. J.; Vardi, A.: CONNECTIONS BETWEEN INFOCHEMICAL COMMUNICATION AND UPPER OCEAN ELEMENTAL IMPORT AND EXPORT. (ID: 27458)
15:45	Edwards, B. R. ; Collins, J. R.; Fredricks, H. F.; Ossolinski, J. E.; McNair, H.; Brzezinski, M. A.; Krause, J. W.; Thamatrakoln, K.; Bidle, K. D.; Van Mooy, B. A.: COMPARATIVE LIPIDOMICS LINK BLOOM DECLINE TO INFOCHEMICAL PRODUCTION IN THE CALIFORNIA UPWELLING ZONE (ID: 27405)
16:00	Amin, S. A. ; Hmelo, L. R.; Durham, B. P.; van Tol, H. M.; Carlson, L. T.; Heal, K. R.; Ingalls, A. I.; Parsek, M. R.; Moran, M. A.; Armbrust, E. V.: INTERACTION AND SIGNALING BETWEEN A COSMOPOLITAN DIATOM AND ASSOCIATED BACTERIA (ID: 27445)
16:15	Johnson, M. D. ; Edwards, B. R.; Beaudoin, D. J.; Van Mooy, B. A.; Vardi, A.: INFOCHEMICAL SIGNALING MEDIATES MICROZOOPLANKTON INTERACTIONS WITH DIATOMS (ID: 27363)
17:00	Harvey, E. L. ; Poulsom-Elestad, K.; Mincer, T.; Van Mooy, B.; Bidle, K. D.; Johnson, M.: THE COMBINED INFLUENCE OF MORPHOLOGY AND CHEMISTRY IN MEDIATING HETEROTROPHIC PROTIST GRAZING INTERACTIONS (ID: 25669)
17:15	Poulson-Elestad, K. L. ; Harvey, E. L.; Ranson, H. J.; Johnson, M. D.; Mincer, T. J.: LISTENING IN ON COCCOLITHOPHORE-GRAZER INTERACTIONS (ID: 27116)
17:30	Frada, M. J. ; Rosenwasser, S.; Ben-Dor, S.; Vardi, A.: REGULATION OF SEXUAL LIFE CYCLE IN THE BLOOM-FORMING COCCOLITHOPHORE <i>EMILIANIA HUXLEYI</i> IN RESPONSE TO VIRAL INFECTION (ID: 25678)
17:45	Nissimov, J. I. ; Fredricks, H.; Van Mooy, B.; Bidle, K. D.: THE IMPACT OF BIOCHEMICAL DIVERSITY ON INFOCHEMICAL PRODUCTION AND VIRAL DEMISE OF <i>EMILIANIA HUXLEYI</i> (ID: 27328)
18:00	Murik, O. ; Tirichine, L.; Thomas, Y.; Bailleul, B.; Petroutossos, D.; Prihoda, J.; Finazzi, G.; Bowler, C.: THE ROLE OF CALCIUM SIGNALING IN CHLOROPLAST-MITOCHONDRIA INTERACTIONS DURING THE ADAPTATION OF DIATOMS TO CHANGING ENVIRONMENTAL CONDITIONS (ID: 26069)
18:15	Mincer, T. J. ; Poulson-Elestad, K. L.; Ranson, H. J.: ETHYLENE PRODUCTION AND RESPONSE IN MARINE PHYTOPLANKTON: A POTENTIAL UNIVERSAL SIGNAL (ID: 27440)

095 NITROGEN LIMITATION IN FRESHWATER - IS NITROGEN REDUCTION ECOLOGICALLY MEANINGFUL?

Chair(s): Claudia Wiedner, wiedner@tu-cottbus.de
Andrew M. Dolman, andrew.dolman@tu-cottbus.de
Helmut Fischer, helmut.fischer@bafg.de

Location: Room D (Floor -3)

10:30	Wurtsbaugh, W. A. ; McCarthy, M. J.: THE IMPORTANCE OF PHOSPHORUS AND NITROGEN FOR CONTROLLING ALGAL GROWTH AND EUTROPHICATION (ID: 26479)
10:45	Dolman, A. M. ; Wiedner, C.: NITROGEN-, PHOSPHORUS- OR CO LIMITATION OF PHYTOPLANKTON BIOMASS AND THE IMPLICATIONS FOR NUTRIENT TARGETS. (ID: 26717)

11:00	Filstrup, C. T. ; Oliver, S. K.; Stanley, E. H.; Stow, C. A.; Wagner, T.; Webster, K. E.; Downing, J. A.: REGIONAL DIVERGENCE IN NITROGEN SUBSIDY-STRESS EFFECTS ON LAKE PHYTOPLANKTON (ID: 27602)
11:15	Kolzau, S. ; Wiedner, C.; Rücker, J.; Voss, M.; Dolman, A. M.: NITROGEN FIXATION ALONG GRADIENTS OF N:P RATIO AND LIGHT AVAILABILITY (ID: 27265)
11:30	Aalto, S. L. ; Rissanen, A.; Juusela, V.; Tiirila, M.: NITROGEN TRANSFORMATIONS IN FRESHWATER SEDIMENTS UNDER TEMPORAL AND SPATIAL WASTE WATER GRADIENT (ID: 26692)
11:45	Mutz, D. ; Horbat, A.; Matzinger, A.; Remy, C.; Rouault, P.; Meyerhoff, J.; Matranga, M.; Venohr, M.: IS FURTHER NITROGEN REDUCTION IN SURFACE WATERS ECONOMICALLY JUSTIFIABLE? (ID: 25675)
098 ECOSYSTEM-SCALE APPROACHES TO ECOSYSTEM-SCALE QUESTIONS	
Chair(s): Jens C. Nejstgaard, nejstgaard@igb-berlin.de Paraskevi Pitta, vpitta@hcmr.gr Hans H Jakobsen, hhja@dmu.dk	
Location: Machuca (Floor -2)	
08:30	Mooij, W. ; Van Gerven, L.; Janssen, A.; Kuiper, J.: ECOSYSTEM MODELS TO ADDRESS ECOSYSTEM QUESTIONS IN FRESHWATER ECOSYSTEMS (ID: 26995)
08:45	Deyle, E. R. ; Munch, S. B.; Ye, H.; Sugihara, G.: QUANTIFYING CHANGING INTERACTIONS IN DYNAMIC ECOSYSTEMS (ID: 27545)
09:00	Gutiérrez Cánovas, C. ; Sánchez-Fernández, D.; Millán, A.; Velasco, J.; Bonada, N.: A NEW METHOD FOR ESTIMATING FUNCTIONAL COMPONENTS AT TAXON AND COMMUNITY LEVELS USING INTRASPECIFIC TRAIT DATA (ID: 25636)
09:15	Jones, S. E. ; Craig, N.; Kelly, P. T.; Solomon, C. T.; Weidel, B. C.; Zwart, J. A.: SPATIAL SURVEYS VS. WHOLE ECOSYSTEM EXPERIMENTS: DOES SPACE SUBSTITUTE FOR TIME WHEN PREDICTING LAKE RESPONSES TO ELEVATED TERRESTRIAL DOM SUPPLY (ID: 27477)
09:30	Deininger, A. ; Karlsson, J.; Bergström, A. K.: EFFECTS OF WHOLE-LAKE N ENRICHMENT ON BASAL PELAGIC PRODUCTION AND CONSUMER RESOURCE USE IN BOREAL LAKES (ID: 27226)
09:45	Vesterinen, J. P. ; Devlin, S. P.; Syväraanta, J.; Jones, R. I.: DOMINANCE OF LITTORAL PRIMARY PRODUCTION IN A HIGHLY HUMIC BOREAL LAKE (ID: 26043)
10:30	Diehl, S. ; Berger, S. A.; Giling, D.; Stibor, H.: AN EXPERIMENTAL DEMONSTRATION OF SVERDRUP'S CRITICAL DEPTH PRINCIPLE (ID: 25414)
10:45	Thrane, J. E. ; Hessen, D. O.; Andersen, T.: THE ABSORPTION OF LIGHT IN LAKES: NEGATIVE EFFECT OF DISSOLVED ORGANIC CARBON ON PRIMARY PRODUCTIVITY (ID: 26157)
11:00	Hilt, S. ; Attermeyer, K.; Brothers, S.; Gaedke, U.; Grossart, H. P.; Köhler, J.; Lischke, B.; Scharnweber, K.; Vanni, M. J.; Mehner, T.: UNDERSTANDING TERRESTRIAL SUBSIDIES TO AQUATIC CONSUMERS: LESSONS FROM WHOLE-LAKE EXPERIMENTS IN EUTROPHIC LAKES (ID: 26212)
11:15	Jakobsen, H. H. ; Blanda, E.; Pedersen, M. F.; Hansen, B. W.: FROM PHYTOPLANKTON TO FISH LARVAL SURVIVAL: HOW EXCESS NUTRIENTS MAY DISCONNECT FOOD WEB CASCADING (ID: 27414)

^T REPRESENTS TUTORIAL PRESENTATIONS

- 11:30 **Mostajir, B.**; et al.: PLANKTONIC FOOD WEB RESPONSES TO ORGANIC AND INORGANIC PHOSPHORUS ADDITIONS IN THE EASTERN MEDITERRANEAN SEA (CRETAN SEA): AN IN SITU MESOCOSM STUDY (ID: 26328)
- 11:45 **Pitta, P.**; Dimitriou, P. D.; Giannakourou, A.; Lagaria, A.; Papageorgiou, N.; Psarra, S.; Santi, I.; Tsapakis, M.; Tsiola, A.; Violaki, K.: DOES SAHARAN DUST HAVE ANY EFFECT ON THE BIOLOGICAL PRODUCTIVITY OF THE EASTERN MEDITERRANEAN? A FOOD WEB STUDY BASED ON A MESOCOSM EXPERIMENT (ID: 26037)
- 15:00 Hart, J.; Prairie, Y. T.; **Beisner, B. E.**: A WHOLE ECOSYSTEM APPROACH REVEALS NOVEL EFFECTS OF ELEVATED CO₂ ON FRESHWATER PLANKTON COMMUNITIES (ID: 25862)
- 15:15 **Lichtschlag, A.**; James, R. H.; Connelly, D.; Stahl, H.; Haeckel, M.; Blackford, J.: A LARGE-SCALE EXPERIMENT TO ASSESS THE EFFECTS OF CO₂ LEAKAGE ON THE BENTHIC ENVIRONMENT (ID: 26279)
- 15:30 **Segovia, M.**; Lorenzo, M. R.; Maldonado, M. T.; Larsen, A.; Lazaro, F. J.; Iñiguez, C.; Palma, A.; Garcia-Gomez, C.; Berger, S. A.; Et, a. l.: EFFECT OF INCREASED CO₂ AND IRON LEVELS ON THE MARINE PLANKTON FOOD WEB DURING A MESOCOSM EXPERIMENT (ID: 26264)
- 15:45 **McCoy, S. J.**; Allesina, S.; Pfister, C. A.: ACIDIFICATION SUPPLANTS TROPHIC CONTROL OF COMPETITIVE INTERACTIONS AMONG CORALLINE ALGAE (ID: 25545)
- 16:00 **Nejstgaard, J. C.**; Berger, S. A.; Giling, D. P.; Penske, A.; Lenz, M.; Hornick, T.; Grossart, H. P.; Kasprzak, P.; Gessner, M. O.: STORM IN A TEAPOT: SIMULATING AN EXTREME WEATHER EVENT IN A LARGE-SCALE MESOCOSM PLATFORM (ID: 27591)
- 16:15 **Berger, S. A.**; Nejstgaard, J. C.; Giling, D. P.; Penske, A.; Lentz, M.; Sareyka, J.; Selmezy, G. B.; Kasprzak, P.; Grossart, H. P.; Gessner, M. O.: IMPACT OF AN EXTREME WEATHER EVENT ON LAKE PHYTOPLANKTON IN A LARGE-SCALE MESOCOSM EXPERIMENT (ID: 27598)
- 17:00 **Giling, D. P.**; Nejstgaard, J. C.; Berger, S. A.; Penske, A.; Lentz, M.; Grossart, H.; Kasprzak, P.; Engelhardt, C.; Kirillin, G.; Gessner, M. O.: EXTREME WEATHER EVENTS INCREASE NET ECOSYSTEM PRODUCTIVITY IN LAKE ECOSYSTEMS: EVIDENCE FROM A LARGE-SCALE ENCLOSURE EXPERIMENT (ID: 27566)
- 17:15 **Striebel, M.**; Spörl, G.; Hodapp, D.; Hartmann, L.; Hein, T.; Hillebrand, H.: INTERACTING EFFECTS OF DIVERSITY, PRODUCTIVITY AND DISTURBANCE ON PLANKTON COMMUNITIES (ID: 26819)
- 17:30 **Raddatz, S.**; Pansch, A.; Guy-Haim , T.; Rilov, G.; Wahl, M.: BENTHIC COMMUNITY RE-ORGANIZATION AND RE-FUNCTIONING UNDER CLIMATE CHANGE INDUCED STRESS – A MULTIFACTORIAL APPROACH USING NOVEL MESOCOSMS (ID: 26673)
- 17:45 **Lewandowska Aleksandra, A. M.**; Boyce, D. G.; Hansen, T.; Hofmann, M.; Matthiessen, B.; Sommer, U.; Worm, B.: HOW OCEAN WARMING SHAPES PLANKTON COMMUNITIES (ID: 26786)
- 18:00 **Hedström, P.**; Bystedt, D.; Byström, P.: CLIMATE CHANGE HAS NEGATIVE CONSEQUENCES FOR WINTER SURVIVAL IN FISH (ID: 25885)
- 18:15 **Gessner, M. O.**; Nejstgaard, J. C.: THE VALUE OF MESOCOSM EXPERIMENTS TO ADDRESS ECOSYSTEM-SCALE QUESTIONS (ID: 27615)

105 VIRUSES AND VIRAL MEDIATED PROCESSES IN AQUATIC SYSTEMS

- Chair(s): Curtis A Suttle, suttle@Science.ubc.ca
Dolors Vaque, dolors@icm.csic.es
Steven W Wilhelm, wilhelm@utk.edu
- Location: Auditorium Manuel de Falla (Floor 1)
- 17:00 **Brussaard, C.**: AQUATIC VIRUSES AND THEIR ENVIRONMENT^T (ID: 27341)
- 17:30 **Winter, C.**; Köstner, N.; Kruspe, C. P.; Muck, S.; Urban, D.; Herndl, G. J.: MIXING OF WATER MASSES AND ITS EFFECTS ON PROKARYOTIC MORTALITY DUE TO VIRUSES (ID: 25773)
- 17:45 **Ankrah, N. Y.**; Dearth, S.; Erik, Z. R.; Wilhelm, S. W.; Campagna, S. R.; Buchan, A.: METABOLISM OF VIRAL LYSATES BY MARINE BACTERIOPLANKTON COMMUNITIES (ID: 27472)
- 18:00 **Köstner, N.**; Scharmreitner, L.; Jürgens, K.; Labrenz, M.; Herndl, G. J.; Winter, C.: VIRUSES AS PROKARYOTIC MORTALITY FACTOR IN THE REDOXCLINE OF THE CENTRAL BALTIC SEA (ID: 25607)
- 18:15 **Lara, E.**; Sà, E. L.; Salazar, G.; Sánchez, P.; Holmfeldt, K.; Duhaime, M. B.; Ignacio-Espinoza, J. C.; Sullivan, M. B.; Vaqué, D.; Acinas, S.; G.: *PSEUDOALTEROMONAS* PHAGES: PHAGE-HOST INTERACTIONS, COMPARATIVE GENOMICS AND BIOGEOGRAPHY (ID: 25844)

110 CANYONS AND THEIR DEEP-SEA FANS: WHEN GEOLOGY MEETS BIOLOGY

- Chair(s): Christophe Rabouille, rabouill@lsce.ipsl.fr
Karine Olu, karine.olu@ifremer.fr
Amanda Demopoulos, ademopoulos@usgs.gov
Francois Baudin, francois.baudin@upmc.fr
- Location: Press Room (Floor 2)
- 08:30 **Rabouille, C.**; Olu, K.; Baudin, F.; Congolobe-group, A.: GENERAL PRESENTATION OF THE CONGOLOBE PROJECT: A MULTIDISCIPLINARY STUDY OF THE CONGO DEEP-SEA FAN LOBES (ID: 25477)
- 08:45 **Dennielou, B.**; DROZ, L.; JACQ, C.; PICOT, M.; LE SAOUT, M.; SAOUT, J.; RABOUILLE, C.; OLU, K.: CONGOLOBE: DETAILED ANALYSIS OF CHANNELIZATION AND MASS WASTING PROCESSES AT THE DISTAL LOBES OF THE CONGO DEEP-SEA FAN. (ID: 27095)
- 09:00 Croguennec, C.; **Ruffine, L.**; Dennielou, B.; Caprais, J.; Brandily, C.; Le Bruchec, J.; Bollinger, C.; Germain, Y.; Droz, L.; Olu, K.; Rabouille, C.: EVIDENCE OF SEDIMENTARY INSTABILITIES AT THE MORE DISTAL LOBE OF THE CONGO DEEP-SEA FAN USING PORE WATER PROFILES (ID: 26678)
- 09:15 **Karageorgis, A. P.**; Kontoyiannis, H.; Stavrakakis, S.; Krasakopoulou, E.; Lykousis, V.: PARTICLE DYNAMICS AND FLUXES IN THE SOUTHERN CRETAN MARGIN: THE ROLE OF INTERMITTENT CANYON ACTIVITY (ID: 26797)
- 09:30 **Stetten, E.**; Huguet, A.; Vétion, G.; Wang, H.; Baudin, F.; Pruski, A.: ORGANIC MATTER SOURCES AND REACTIVITY IN SEDIMENTS FROM THE TERMINAL LOBE COMPLEX OF THE CONGO DEEP SEA FAN (ID: 25828)
- 09:45 **Pozzato, L.**; Berrached, C.; Tisnérat-Laborde , N.; Toussaint, F.; Bomblet, B.; Cathalot, C.; Dumoulin, J.; Olu, K.; Rabouille, C.: HOTSPOTS OF ORGANIC MATTER REMINERALIZATION IN THE CONGO DEEP-SEA FAN SYSTEM (ID: 25476)

THURSDAY

- 10:30 **Taillefert, M.**; Beckler, J. S.; Cathalot, C.; Michalopoulos, P.; Corvaisier, R.; Caprais, J. C.; Olu, K.; Rabouille, C.: IRON-SULFUR COUPLING IN DEEP-SEA FANS DOMINATED BY MASSIVE TERRIGENOUS DEPOSITS (ID: 27619)
- 10:45 **Besette, S.**; Morrison, H. G.; Godfroy, A.; Toffin, L.: INSIGHTS INTO MICROBIAL COMMUNITIES OF MARINE SEDIMENT FROM THE UNEXPLORED CONGO DEEP-SEA FAN LOBES (ID: 27005)
- 11:00 **Olu, K.**; Decker, C.; Morineaux, M.; Ain Baziz, M.; Menot, L.; Caprais, J. C.; Cathalot, C.; Krylova, E.; Rabouille, C.: VARIABILITY OF MACROFAUNAL COMMUNITY STRUCTURE IN REDUCING SEDIMENTS OF THE CONGO DEEP-SEA FAN AND SIMILARITIES WITH COLD-SEEP COUNTERPARTS (ID: 26695)
- 11:15 **Demopoulos, A. W.**; Bourque, J. R.; Kovacs, K.; Phillips, R.; Robertson, C. M.: SEDIMENT MACROFAUNAL COMMUNITIES ASSOCIATED WITH HARD-BOTTOM HABITATS IN NORFOLK CANYON, USA (ID: 27102)
- 11:45 **Prouty, N. G.**; Campbell-Swarzenski, P.; Mienis, F.; Davies, A.; Demopoulos, A.; Robertson, C.; Duineveld, G.; Ross, S.; Brooke, S.: SOURCES OF ORGANIC MATTER TO DEEP-SEA CORALS LIVING IN SUBMARINE CANYONS OF THE MID-ATLANTIC BIGHT REGION, U.S. (ID: 27449)

132 MICROBIAL DIVERSITY AND DYNAMICS IN EXTREME ENVIRONMENTS

Chair(s): Isabel Reche, ireche@ugr.es
Josefa Antón, anton@ua.es

Location: Albeniz (Floor -2)

- 17:00 **Huerta-Díaz, M. A.**; Valdivieso-Ojeda, J.; Delgadillo-Hinojosa, F.; Segovia-Zavala, J. A.: HIGH MOŁYBDENUM ENRICHMENTS IN THE HYPERSALINE REGION OF GUERRERO NEGRO, BAJA CALIFORNIA SUR, MEXICO* (ID: 25460)
- 17:15 **Edwardson, C. F.**; Hollibaugh, J. T.: METATRANSCRIPTOMIC ANALYSIS OF BACTERIAL ARSENIC AND SULFUR CYCLING ALONG A REDOX GRADIENT IN ALKALINE, HYPERSALINE, MONO LAKE, CA* (ID: 27579)
- 17:30 **Meier, J.**; Wendt-Pothoff, K.: SULFATE REDUCING BACTERIA FROM ACIDIC PIT LAKES – ACIDOPHILIC OR RATHER ACIDOTOLERANT?* (ID: 27120)
- 17:45 **Soria-Píriz, S.**; García-Robledo, E.; Papaspyrou, S.; Úbeda, B.; Jiménez-Arias, J. L.; Bohórquez, J.; Gálvez, J. A.; Gómez, E. H.; Revsbech, N. P.; Corzo, A.: ECOLOGY OF A DEEP CHLOROPHYLL MAXIMUM DEVELOPED DURING STRATIFICATION IN AN ACID MINE DRAINAGE IMPACTED RESERVOIR (HUELVA, SPAIN)* (ID: 26065)
- 18:00 **Santos, F.**; Martínez-García, M.; Ramos, M. D.; Villamor, J.; Moreno-Paz, M.; Parro, V.; Antón, J.: MICROARRAY TOOLS TO UNVEIL VIRUS-HOST INTERACTIONS IN HYPERSALINE ENVIRONMENTS (ID: 26859)
- 18:15 **Nigro, O. D.**; Jungbluth, S. P.; Lin, H. T.; Hsieh, C. C.; Mueller, J.; Schvarcz, C.; Rappe, M. S.; Steward, G. F.: CHARACTERIZATION OF A DEEP SUBSURFACE VIRAL COMMUNITY FROM THE BASEMENT FLUIDS OF THE JUAN DE FUCA RIDGE FLANK* (ID: 27652)

139 PLANKTON ECOLOGY - PHYTOPLANKTON

Chair(s): Lisette Senerpont Domis, L.deSenerpontDomis@nioo.knaw.nl
Location: Machado (Floor -2)

- 08:30 **Morgan-Kiss, R. M.**; Stahl, S. E.; Kiss, A. J.: PHOTOOXIDATIVE STRESS RESPONSE IN MESOPHILIC AND PSYCHROPHILIC ALGAL STRAINS OF CHLAMYDOMONAS RAUDENSIS: LINKING TRANSCRIPTOMICS WITH COMPARATIVE PHYSIOLOGY (ID: 27069)
- 08:45 **Eick, K. C.**; Pohnert, G.: THE STIMULATORY EFFECT OF THE DIATOM SKELETONEMA COSTATUM ON THE DIATOM THALASSIOSIRA WEISSFLOGII - POSITIVE ALLELOPATHY OR ADAPTION TO A COMPETITOR? (ID: 25681)
- 09:00 **Low-Decarie, E.**; Bell, G.; Fussmann, G.: FRESHWATER PHYTOPLANKTON RESPONSE TO CHANGE IN CO₂ CONCENTRATION (ID: 25624)
- 09:15 **Latasa, M.**; Cabello, A.; Scharek, R.; Cabeza, C.; González, F.; Massana, R.: VERTICAL ALIGNMENT OF PHYTOPLANKTON GROUPS WITHIN THE DEEP CHLOROPHYLL MAXIMUM (ID: 25504)
- 09:30 **Hodapp, D. M.**; Hillebrand, H.; Blasius, B.; Ryabov, A.: ENVIRONMENTAL AND TRAIT DIMENSIONALITY CONSTRAIN COMMUNITY STRUCTURE AND THE BIODIVERSITY-PRODUCTIVITY RELATIONSHIP (ID: 26778)
- 09:45 **Rumyantseva, A. S.**; Henson, S. A.; Martin, A. P.; Heywood, K. J.; Damerell, G. M.; Kaiser, J.; Painter, S. C.; Taylor, J. R.; Thompson, A. F.: SEAGLIDERS IN THE BLOOMING NORTH ATLANTIC OCEAN. (ID: 25826)

140 PLANKTON ECOLOGY - ZOOPLANKTON

Chair(s): Amy Burgess, burgess5@uoregon.edu

Location: Seminario 6-7 (Floor 1)

- 15:00 **Alurralde, G.**; Fuentes, V. L.; Olariaga, A.; Orejas, C.; Movilla, J.; Schloss, I.; Tatián, M.: ASSIMILATION OF DIFFERENT FOOD SOURCES BY THE ANTARCTIC KRILL (EUPHAUSIA SUPERBA): IMPLICATIONS FOR BENTHO-PELAGIC COUPLING IN AN ANTARCTIC COASTAL ECOSYSTEM (ID: 27079)
- 15:15 **Teurlincx, S.**; Velthuis, M.; van de Waal, D.; Declerck, S.: CHOOSING YOUR FOODSOURCE: DIFFERENCES IN FEEDING SELECTIVITY AFFECTING COMMUNITY STOICHIOMETRY AND COMPOSITION IN PHYTO- AND ZOOPLANKTON (ID: 26589)
- 15:30 **García-Comas, C.**; Chiba, S.; Sugisaki, H.; Hashioka, T.; Sasai, Y.; Smith, S. L.: DYNAMIC RELATIONSHIP OF FUNCTIONAL DIVERSITY WITH SPECIES DIVERSITY IN COPEPOD COMMUNITIES ACROSS THE OYASHIO-KUROSHIO OCEANIC FRONT, WESTERN SUBARTIC PACIFIC (ID: 26613)
- 15:45 **Liu, X.**; Beyrend, D.; Dur, G.; Ban, S.: TEMPERATURE-MEDIATED FOOD EFFECTS ON SOMATIC AND POPULATION GROWTH RATES IN TEMPERATE FRESHWATER COPEPOD *EODIAPTOMUS JAPONICUS* (ID: 25977)
- 16:00 **IRISSON, J. O.**; FAILLETTAZ, R.; LUO, J. Y.; GUIGAND, C.; COWEN, R. K.: DIEL FINE-SCALE DISTRIBUTION OF ZOOPLANKTON OVER A MESOSCALE FRONT EXPLORED THROUGH HIGH FREQUENCY IMAGING (ID: 27114)
- 16:15 **Gómez, M.**; Packard, T. T.; Osma, N.; Fernández-Urruzola, I.; Herrera, A.; Romero-Kutzner, V.; Martínez, I.; Maldonado, F.; Tamés-Espinosa, M.; Viera-Rodríguez, M. A.: FROM BACTERIA TO ZOOPLANKTON, THE IMPACT OF FOOD-LIMITATION ON THEIR PHYSIOLOGY AND BIOCHEMISTRY (ID: 25903)

17:15	Drugá, B. ; Spaak, P.; Pomati, F.: DYNAMICS OF ZOOPLANKTON GENOTYPES IN THE PRESENCE OF CYANOBACTERIA (ID: 26855)	17:15	Poehle, S. ; Koschinsky, A.: NON-CONSERVATIVE DISTRIBUTION OF DISSOLVED W AND MO IN THE ATLANTIC OCEAN (ID: 26002)
17:30	Sánchez, M. I. ; Pons, I.; Petit, C.; Martínez-Haro, M.; Taggart, M.; Green, A. J.: MULTIPLE STRESSORS IN NATIVE AND INVASIVE BRINE SHRIMP ARTEMIA: INTERACTIVE EFFECTS OF CLIMATE CHANGE, PARASITES AND POLLUTION (ID: 26023)	17:30	Resing, J. A. ; Sedwick, P. N.; Sohst, B. M.; Jenkins, W. J.; Tagliabue, A.; German, C. R.; Moffett, J.: TRANSPORT OF HYDROTHERMAL IRON, MANGANESE AND ALUMINUM ACROSS THE EASTERN SOUTH PACIFIC OCEAN DURING THE U.S. GEOTRACES EASTERN PACIFIC ZONAL TRANSECT CRUISE (ID: 27653)
17:45	Di Mauro, R. P. ; Kupchik, M.; Benfield, M.: TWO SEMI-AUTOMATED SYSTEMS, ONE GOAL: IDENTIFY ZOOPLANKTON (ID: 26295)	17:45	Castrillejo, M. ; Casacuberta, N.; Christl, M.; Vockenhuber, C.; Synal, H. A.; Masqué, P.; Garcia-Orellana, J.: FIRST COMPREHENSIVE MAPPING OF ^{236}U AND ^{129}I IN THE MEDITERRANEAN SEA (ID: 26267)
18:00	Bierschenk, B. M. ; Closs, G. P.: TURBULENCE ACTS AS ORIENTATION AID FOR SWIMMING MYSIDAE (ID: 27347)	18:00	Casacuberta, N. ; Rutgers van der Loeff, M.; Masqué, P.; Herrmann, J.; Lachner, J.; Henderson, G.; Walther, C.; Vockenhuber, C.; Synal, H. A.; Christl, M.: ^{236}U AS A NEW OCEANOGRAPHIC TRACER: FIRST DATA IN THE NORTH SEA, THE ARCTIC OCEAN AND THE WESTERN NORTH ATLANTIC OCEAN (ID: 26554)
18:15	Takahashi, K. ; Ichikawa, T.: DIEL COLOUR CHANGES IN MALE <i>SAPPHIRINA NIGROMACULATA</i> (CYCLOPOIDA, COPEPODA) (ID: 25754)	18:15	Burd, A. B. : SIZE CLASSES AND SIZE SPECTRA: HOW SIMPLE A THEORY DO WE NEED TO INTERPRET OBSERVATIONS AND ESTIMATE GEOCHEMICAL RATES? (ID: 27322)

142 CHEMICAL OCEANOGRAPHY/GEOTRACES

Chair(s): Andrea Kochinsky, a.kochinsky@jacobs-university.de

Location: Auditorium Federico Garcia Lorca (Floor 0)

17:00 **Kochinsky, A.**; Poehle, S.: DISTRIBUTION OF DISSOLVED ZR AND NB IN THE OCEANIC WATER COLUMN UNDER CONSIDERATION OF THE COLLOIDAL PHASE (ID: 26060)

THURSDAY

THURSDAY POSTERS

028 THE BLACK BOXES HAVE JUST BEEN OPENED: LINKING ORGANIC MATTER COMPOSITION AND MICROBIAL DIVERSITY IN AQUATIC ENVIRONMENTS

Chair(s): Eva Ortega-Retuerta, ortegaretuerta@icm.csic.es
 Jutta Niggemann, jutta.niggemann@uni-oldenburg.de
 Hans Peter Grossart, hgrossart@igb-berlin.de
 Ingrid Obernosterer, ingrid.obernosterer@obs-banyuls.fr
 Lihini Aluwihare, laluwihare@ucsd.edu

Location: Poster and Exhibit Area (Floor 1)

- 137 **Sharrar, A. M.**; Aepli, C.; Orcutt, B. N.: INFLUENCE OF TEMPERATURE AND NUTRIENTS ON THE CHEMISTRY AND MICROBIOLOGY OF CRUDE OIL BIODEGRADATION IN COASTAL SEDIMENT (ID: 25484)
- 138 **Sanchez-Perez, E. D.**; Pujo-Pay, M.; Conan, P.; Marassé, C.: SPATIAL AND TEMPORAL VARIABILITY OF CDOM FLUORESCENCE IN A COASTAL STATION (NW MEDITERRANEAN) (ID: 26232)
- 139 **Reinthalter, T.**; Frank, A. H.; Garcia, J.; Herndl, G. J.: PROKARYOTIC PRODUCTIVITY-DIVERSITY RELATIONSHIP IN THE NORTH ATLANTIC WATER MASSES (ID: 26030)
- 140 **Richert, I.**; Hubalek, V.; Saw, J.; Ettema, T.; Wendeberg, A.; Bertilsson, S.: TIGHTLY LINKED RESPONSE BY MICROBIAL COMMUNITIES IN COMPOSITION AND FUNCTIONAL POTENTIAL TO HIGH POLYCYCLIC AROMATIC HYDROCARBONS LOADS IN LAKE SEDIMENT (ID: 27009)
- 141 **Garzón Cardona, J. E.**; Alonso, C.; Martinez, A. M.; Pantoja, S.; Ferrero, C.; Guinder, V.; Freije, H. R.; Lara, R. J.: STRONG LINKS BETWEEN DOM AND MICROBIAL COMMUNITIES IN A SOUTH ATLANTIC COASTAL AREA (EL RINCÓN, ARGENTINA) (ID: 27273)

029 WHEN, AND WHY THEN? PHENOLOGY AND EVOLUTIONARY ADAPTATIONS TO SEASONALITY IN AQUATIC ECOSYSTEMS

Chair(s): Øystein Varpe, oystein.varpe@unis.no
 Monika Winder, monika.winder@su.se

Location: Poster and Exhibit Area (Floor 1)

- 142 Heinrich, F.; Eiler, A.; Andersson, A. F.; **Bertilsson, S.**: OXYGEN DEPLETION IN STRATIFIED LAKES ALTERS BACTERIAL DIVERSITY AND COMMUNITY COMPOSITION (ID: 27282)
- 143 Niehoff, B.: GONAD DEVELOPMENT IN JUVENILE CALANUS GLACIALIS DURING OVERWINTERING IN A HIGH ARCTIC FJORD (ID: 27294)
- 144 Oghenekaro, E. U.; Acheampong, A. O.; Oseji, O. F.; Chigbu, P.: LIFE HISTORY AND REPRODUCTIVE BIOLOGY OF MARINE PODONIDS (EVADNE NORDMANNI AND PSEUDEVADNE TERGESTINA) IN MARYLAND COASTAL LAGOONS. (ID: 27726)
- 145 **Grenvald, J. C.**; Darnis, G.; Berge, J.; Renaud, P.: ZOOPLANKTON VERTICAL MIGRATION IN THE POLAR NIGHT – IS MIGRATION MORE “RANDOM” THAN DIEL DURING THE DARKEST PERIOD OF WINTER? (ID: 26994)
- 146 **Aberle, N.**; Malzahn, A. M.; Lewandowska, A. M.; Sommer, U.: SOME LIKE IT HOT: THE PROTOZOOPLANKTON-COPEPOD LINK IN A WARMING OCEAN (ID: 26270)

147 **Tirelli, V.**; Kogovšek, T.; de Olazabal, A.; Cozzi, S.; Malej, A.: SEASONAL CHARACTERISTICS OF MESOZOOPLANKTON IN THE NORTHERNMOST MEDITERRANEAN GULF (GULF OF TRIESTE, ADRIATIC SEA) (ID: 27074)

- 148 **Varpe, O.**: OPTIMAL LIFE HISTORIES IN SEASONAL ENVIRONMENTS: MODELLING COPEPOD STRATEGIES (ID: 26900)
- 149 **Kimmel, D. G.**; Tarnowski, M.; Newell, R. I.: REGIONAL SCALE WEATHER VARIABILITY INFLUENCES EASTERN OYSTER (*CRASSOSTREA VIRGINICA*) LARVAL SETTLEMENT IN CHESAPEAKE BAY (ID: 25634)

031 RESTORATION OF LAKES, RESERVOIRS, AND COASTAL ECOSYSTEMS BY REDUCING INTERNAL NUTRIENT RECYCLING

Chair(s): Henning S. Jensen, hsj@biology.sdu.dk
 Inmaculada de Vicente, ivicente@ugr.es
 Brian Huser, brian.huser@slu.se
 Michael Hupfer, hupfer@igb-berlin.de
 Martin Sondergaard, ms@dmu.dk
 Frede O. Andersen, foa@biology.sdu.dk

Location: Poster and Exhibit Area (Floor 1)

- 150 **Funes, A.**; de Vicente, J.; Álvarez-Manzaneda Salcedo, M. I.; Cruz-Pizarro, L.; de Vicente, I.: IRON MAGNETIC PARTICLES AS A NEW TOOL FOR LAKE RESTORATION. A MICROCOISM EXPERIMENT AS PREVIOUS STEP FOR FUTURE IN SITU APPLICATION. (ID: 25770)
- 151 **Álvarez-Manzaneda Salcedo, M. I.**; Ramos-Rodriguez, E.; López-Rodríguez, M. J.; Parra, G.; Funes, A.; De Vicente Álvarez-Manzaneda, I.: ECOTOXICOLOGICAL EFFECTS OF MAGNETIC MICROPARTICLES ON CHIRONOMUS SP. AND DAPHNIA MAGNA (ID: 25606)
- 152 **Waters, K. E.**; Willby, N. J.; Yasseri, S.; Cole, S.; Gunn, I. D.; Kelly, A.; Madgwick, G.; Meis, S.; Pitt, J.; Sime, I.; Spears, B. M.: ASSESSING MACROPHYTE RECOVERY IN LAKES TREATED WITH PHOSLOCK (ID: 26783)
- 153 **Moore, A. L.**; Kelly, A.; Phillips, G.; Spears, B. M.: LONG-TERM EFFECTS OF DREDGING ON SEDIMENT PHOSPHORUS IN A SHALLOW LAKE – BARTON BROAD, NORFOLK, UK (ID: 27000)
- 154 **De Brabandere, L.**; Bonaglia, S.; Kononets, M.; Viktorsson, L.; Thamdrup, B.; Hall, P.: RESPONSE OF BENTHIC NITROGEN CYCLING TO A WHOLE-FJORD OXYGENATION EXPERIMENT (ID: 27281)

033 THE ROLE OF NATURAL ECOSYSTEMS IN COASTAL PROTECTION: MECHANISMS, QUANTIFICATION AND APPLICATION

Chair(s): Iris Moeller, im10003@cam.ac.uk
 Inigo Losada, losada@unican.es
 Tjeerd Bouma, Tjeerd.Bouma@nioz.nl
 Mindert de Vries, Mindert.deVries@deltares.nl
 Bregje van Wesenbeeck, Bregje.vanWesenbeeck@deltares.nl
 Edward P. Morris, edward.morris@uca.es

Location: Poster and Exhibit Area (Floor 1)

- 163 **Canals, M. F.**; Morell, J.; Quiñones, E.: DEVELOPMENT AND IMPLEMENTAION OF A NUMERICAL SURFZONE WAVE FORECASTING SYSTEM FOR PUERTO RICO AND THE UNITED STATES VIRGIN ISLANDS (ID: 26401)

- 164 Krestenitis, Y. N.; Androulidakis, Y. S.; Kombiadou, K. D.; **Makris, C. V.**; Baltikas, V.: OPERATIONAL FORECAST SYSTEM OF STORM TIDES IN THE AEGEAN SEA (GREECE) (ID: 26887)
- 330 Donker, J. J.; **van der Vegt, M.**; van der Deijl, E. C.; Hoekstra, P.: MUSSLE HUMMOCKS AFFECT FLOW PATTERNS AND FOOD UPTAKE IN INTERTIDAL MUSSLE BEDS. (ID: 26545)

038 ADVANCES IN FLUX MEASUREMENTS IN AQUATIC ENVIRONMENTS USING THE EDDY CORRELATION TECHNIQUE

- Chair(s): Peter Berg, pb8n@virginia.edu
Markus Huettel, mhuettel@fsu.edu
Moritz Holtappels, mholtapp@mpi-bremen.de
- Location: Poster and Exhibit Area (Floor 1)
- 192 **Lee, J.**; Noh, J.; Choi, D.; Baek, H.; Lee, C.; Choi, Y.; Na, T.: COMPARISONS OF NET ECOSYSTEM METABOLISMS IN TYPICAL HABITATS OFF TROPIC SAMOA ISLAND AND THEIR IMPLICATIONS FOR ECOLOGICAL FUNCTIONS (ID: 25580)
- 193 **LaBuhn, S.**; Koopmans, D.; Berg, P.; Klump, J. V.: CONSTRUCTING AN OXYGEN BUDGET FOR GREEN BAY, LAKE MICHIGAN (ID: 27483)

041 LAKE ICE DYNAMICS: HYDROLOGY OF COLD WATER BODIES

- Chair(s): Klaus D. Joehnk, klaus.joehnk@csiro.au
Nihar R. Samal, samalnr@gmail.com
Matti Lepparanta, matti.lepparanta@helsinki.fi
Donald C. Pierson, dpierson@dep.nyc.gov
- Location: Poster and Exhibit Area (Floor 1)
- 203 **Engelhardt, C.**; Poeschke, F.; Graves, K.; Äijala, C.; Kirillin, G.: DIRECT MEASUREMENTS OF SEICHE-DRIVEN MIXING UNDER LAKE ICE (ID: 26162)
- 204 **Shumskaya, N.**; Fedorova, I.; Lavinen, N.; Skorospekhova, T.: HYDROCHEMICAL CHARACTERISTICS OF ANTARCTICA OASES LAKES NEARBY RUSSIAN STATIONS. (ID: 26628)

042 COMPETITION WITHIN PLANKTONIC COMMUNITIES: WHAT ARE THE EFFECTS ON ECOSYSTEM FUNCTIONING AND BIOGEOCHEMICAL PROCESSES?

- Chair(s): Richard Riaykin, rriykin@mun.ca
Louis Legendre, legendre@obs-vlfr.fr
- Location: Poster and Exhibit Area (Floor 1)
- 205 **Li, Q.**; Legendre, L.; Jiao, N. Z.: PHYTOPLANKTON RESPONSES TO NITROGEN AND IRON LIMITATION IN THE PACIFIC OCEAN (ID: 26630)
- 206 **Wang, K.**; Chen, J.: SUMMER NUTRIENT DYNAMICS AND BIOLOGICAL CARBON UPTAKE RATE IN THE CHANGJIANG RIVER PLUME INFERRED USING A THREE END-MEMBER MIXING MODEL (ID: 26935)
- 207 **Narcy, F.**; De Schryver, V.; Leynaert, A.; Floch'lay, A.; Pondaven, P.; Stibor, H.: CONTRASTING EFFECTS OF DOC INPUT ON PLANKTON DEPENDING ON P LIMITATION LEVELS (ID: 27590)
- 208 **Pree, B.**; Larsen, A.; Egge, J. K.; Simonelli, P.; Madhusoodhanan, R.; Våge, S.; Thingstad, T. F.: A MESOCOSM EXPERIMENT WITH HIGH MICROBIAL RESILIENCE TO TOP-DOWN PERTURBATIONS (ID: 27050)

- 209 **Russo, E.**; Franke, K.; Hager, H.; Stibor, H.; Schultes, S.: ZOOPLANKTON COMMUNITY CHANGES OVER TIME AFTER MORPHOLOGICAL GROUPS MANIPULATION (ID: 27129)
- 210 **Shou, L.**; Liao, Y.; Chen, J.: EFFECT OF MODERATE HYPOXIA ON MACROBENTHIC COMMUNITY STRUCTURE IN THE YANGTZE RIVER ESTUARY (ID: 27147)
- 211 **Jiang, Z.**; Chen, J.; Zhou, F.; Tao, B.: PHYTOPLANKTON DISTRIBUTION IN RELATION TO SUMMER HYPOXIA OFF THE CHANGJIANG ESTUARY (ID: 27146)
- 212 **Kerkhof, L. J.**; González Benítez, N.; McGuinness, L. R.; Bronk, D. A.; Paul, J. H.; Morell, J. M.; Corredor, J. E.: DETERMINING IN SITU GROWTH PATTERNS IN COASTAL BACTERIA AND EUKARYOTES BY RAPID ¹⁵N STABLE ISOTOPE PROBING (ID: 27301)
- 213 **Currie, W. J.**; Bowen, K.; Niblock, H.: CENTIMETRES TO KILOMETRES: SPATIAL ANALYSIS OF A PLANKTONIC ECOSYSTEM ALONG THE CROSS-BASIN 2013 CSMI TRANSECT (ID: 26339)
- 214 **Muñiz, O.**; Revilla, M.; Franco, J.; Laza-Martínez, A.; Mendiola, D.; Solaun, O.; Valencia, V.: PHYTOPLANKTON COMMUNITIES IN RELATION WITH PHYSICO-CHEMICAL CONDITIONS WITHIN AN OFFSHORE BIVALVE FARMING AREA, IN THE NORTH OF SPAIN (ID: 25534)

047 AQUATIC CHEMICAL ECOLOGY - HOW ORGANIC COMPOUNDS REGULATE TROPHIC INTERACTIONS

- Chair(s): Patrick Fink, patrick.fink@uni-koeln.de
Alexander Wacker, wackera@uni-potsdam.de
- Location: Poster and Exhibit Area (Floor 1)
- 227 **Morillo-García, S.**; Bartual, A.; Ortega, M. J.; Cózar, A.: MACROECOLOGICAL PATTERNS OF PHYTOPLANKTON-DERIVED POLYUNSATURATED ALDEHYDES IN RELATION WITH RESOURCES AND TEMPERATURE (ID: 26074)
- 228 **Le Jeune, A. H.**; Martin Creuzburg, D.; Saulnier, G.; Perrière, F.; Desvillettes, C.; Bourdier, G.; Bec, A.: EXPLORING EICOSANOID SYNTHESIS PATHWAYS DURING THE DEVELOPMENT OF DAPHNIA MAGNA (ID: 26639)
- 229 **Kagiorgi, M.**; Tsiala, A.; Callol, A.; Kalantzi, I.; Mylona, K.; Pergantis, S.; Toncelli, C.; Pitta, P.; Tsapakis, M.: THE IMPACT OF SILVER NANOPARTICLES ON THE PICO-PLANKTONIC COMMUNITY OF THE EASTERN MEDITERRANEAN SEA, STUDIED WITH THE USE OF A MICROCOSM EXPERIMENT (ID: 27260)
- 230 **Franze, G.**; Lavrentyev, P. J.; Pierson, J. J.; Stoecker, D. K.: SPECIES-SPECIFIC EFFECTS OF DIATOM-PRODUCED CYTOTOXIC SECONDARY METABOLITES ON MICROZOOPLANKTON GROWTH RATES (ID: 27360)

050 NITROGEN-CYCLE FEEDBACKS: DRIVERS OF CHANGE?

- Chair(s): Angela Landolfi, alandolfi@geomar.de
Wolfgang Koeve, wkoeve@geomar.de
Valeria Ibello, valeria.ibello@ims.metu.edu.tr
- Location: Poster and Exhibit Area (Floors 1 and 2)
- 236 Bernard, R. J.; **Mortazavi, B.**: NITROGEN CYCLING IN THE GULF OF MEXICO ESTUARIES: HOW DO NITRATE REDUCTION PATHWAYS DIFFER BETWEEN RIVER-DOMINATED AND GROUNDWATER-DOMINATED ESTUARIES? (ID: 27185)

THURSDAY

- 237 Peng, X.; Fuchsman, C. A.; Devol, A. H.; Ward, B. B.: NITRIFICATION RATES IN THE EASTERN TROPICAL SOUTH PACIFIC OXYGEN MINIMUM ZONE (ID: 26393)
- 238 Kamp, A.; Glud, R. N.; Bristow, L. A.; Thamdrup, B.; Stief, P.: CONTRIBUTION OF DIATOMS TO ANAEROBIC NITRATE METABOLISM IN SINKING AGGREGATES (ID: 25843)
- 239 Benavides, M.; Bonnet, S.; Moisander, P. H.; Berthelot, H.; Grosso, O.: SIGNIFICANT MESOPELAGIC N₂ FIXATION IN THE BISMARCK AND SOLOMON SEAS (SW PACIFIC) (ID: 25849)
- 240 Sippo, J. Z.; Santos, I. R.; Tait, D. R.; Maher, D. T.; Holloway, C.; Macklin, P. A.; Williams, D.: ARE PRISTINE MANGROVE WATERS A GLOBAL SOURCE OR SINK OF NITROUS OXIDE? (ID: 25972)
- 241 Landolfi, A.; Koeve, W.; Dietze, H.; Kähler, P.; Oschlies, A.: EXPANDING THE NICHE OF MARINE N₂ FIXERS (ID: 26632)
- 242 de la Paz Arandiga, M.; Huertas, E. I.; Flecha, S.; Ríos, A. F.; Pérez, F. F.: DISTRIBUTION OF NITROUS OXIDE IN ATLANTIC AND MEDITERRANEAN WATERS THROUGH THE STRAIT OF GIBRALTAR (ID: 27148)
- 243 Mulholland, M. R.; Widner, B.; Bernhardt, P. W.; Jayakumar, A.; Chang, B.: DINOTROGEN FIXATION IN OXYGEN DEFICIENT WATERS OF THE EASTERN TROPICAL SOUTH PACIFIC OCEAN (ID: 27535)
- 244 Garate, M. H.; Moseman-Valtierra, S. M.; Moen, A.; Ventura, R. E.: INVERTEBRATES MAY INCREASE NITROUS OXIDE FLUXES FROM NITROGEN-IMPACTED COASTAL SUBTIDAL AND INTERTIDAL ECOSYSTEMS (ID: 27589)
- 245 Moen, A. L.; Garate, M.; Moseman-Valtierra, S.: EPIPHYTIC CONTRIBUTIONS TO THE PRODUCTION OF NITROUS OXIDE BY BENTHIC INVERTEBRATES, *MYTILUS EDULIS* AND *MERCENARIA MERCENARIA* (ID: 27457)
- 418 Suter, E. A.; Montes, E.; Pachiadaki, M.; Edgcomb, V. P.; Taylor, G. T.: ASSESSING NITROGEN LOSS FROM THE CARIACO BASIN USING ¹⁵N ISOTOPIC PAIRING AND GENE EXPRESSION APPROACHES (ID: 26197)

058 MICROBIAL INTERACTIONS ACROSS THE DOMAINS OF LIFE

- Chair(s): Susanne Wilken, swilken@mbari.org
Valeria Jimenez, vjimenez@mbari.org
Alexandra Worden, azworden@mbari.org
- Location: Poster and Exhibit Area (Floor 1)
- 257 Jimenez, V.; Sudek, S.; Bachy, C.; Choi, C. J.; Worden, A. Z.: PHYTOPLANKTON DIVERSITY, GROWTH AND MORTALITY IN NORTH PACIFIC MESOTROPHIC AND OLIGOTROPHIC REGIONS. (ID: 25944)
- 258 Sarañana-Alonso, A. A.; Dorado-García, I.; Carrillo, P.; Villar-Argaiz, M.; Medina-Sánchez, J. M.: MICROBIAL BIOMANIPULATION UNDER EUTROPHICATION: RESPONSE OF MICROBIAL COMMUNITY COMPOSITION TO AN EXPERIMENTAL GRADIENT OF LABILE ORGANIC CARBON ENRICHMENT (ID: 26222)
- 259 Gerphagnon, M.; Rad-Menéndez, C.; Sime-Ngando, T.; Gachon, C. M.: "FROM MICROSCOPE TO NGS: A CASE STUDY OF DIATOM-CHYTRID PAIRINGS" (ID: 26143)

- 260 De Corte, D.; Elisabeth, N. H.; Sintes, E.; Koski, M.; Herndl, G. J.: INTERACTIONS BETWEEN COPEPODS AND BACTERIA IN THE NORTH ATLANTIC OCEAN DURING DIEL VERTICAL MIGRATION (ID: 27073)

060 NEW INSIGHTS AND PERSPECTIVES IN ECOLOGICAL STOICHIOMETRY

- Chair(s): Manuel Villar Argaiz, mvillar@ugr.es
Dag Olav Hessen, d.o.hessen@ibv.uio.no
- Location: Poster and Exhibit Area (Floor 1)
- 265 Currier, C. M.; Learned, J. K.; Elser, J. J.: RICH IN PHOSPHORUS, POOR IN PERFORMANCE: ASSESSING *DAPHNIA* spp. RESPONSES TO PHOSPHORUS-ENRICHED FOOD UNDER FIELD CONDITIONS (ID: 26485)
- 266 Pavlidou, A.; Hatzianestis, I.: N:P RATIOS RELATED TO DSP TOXIN PRODUCTION (ID: 27332)

061 GLOBAL CLIMATE CHANGE: OCEAN ACIDIFICATION EXPERIMENTS AT CO₂ VENTS

- Chair(s): Stefano Goffredo, s.goffredo@unibo.it
Zvy Dubinsky, zvykalmog@gmail.com
Katharina Fabricius, K.Fabricius@aims.gov.au
Jason Hall Spencer, jason.hall-spencer@plymouth.ac.uk
Hajime Kayanne, kayanne@eps.s.u-tokyo.ac.jp
- Location: Poster and Exhibit Area (Floor 1)
- 267 Martins, M.; Leitão, F.; Hall-Spencer, J. M.; Couto, R.; Martins, G. M.; Carreiro-Silva, M.; Monteiro, J.; Parra, H.; Chicharo, L.; Range, P.; Pena, V.; Guilini, K.: CHRONIC EFFECTS OF OCEAN ACIDIFICATION ON BENTHIC ASSEMBLAGES: A CASE STUDY IN CENTRAL ATLANTIC VOLCANIC CO₂ VENTS (ID: 26684)
- 268 Campoy, A. N.; Cruz, J.; Teodósio, M. A.; Barcelos e Ramos, J.; Gallo, F.; Viveiros, E.; Silva, C.; Rodriguez, L. M.; Ferreira, T.; Range, P.; Domingues, R. B.; Barbosa, A.; Schlosser, C.: OBSERVATIONAL AND MANIPULATIVE EXPERIMENTS USING PLANKTONIC ASSEMBLAGES IN NEARSHORE NORTH ATLANTIC CO₂ VENTS (ID: 26654)

- 269 Rodríguez Ramos, J. C.; Bingham, B.; Dimond, J.: IRRADIANCE AND TEMPERATURE AFFECT H₂O₂ PRODUCTION OF SYMBIOTIC ALGAE HOSTED BY SEA ANEMONE *ANTHOPLERA ELEGANTISSIMA* (ID: 26827)

- 270 Celis-Plá, P. S.; Hall-Spencer, J.; Horta, P.; Milazzo, M.; Korbee, N.; Figueroa, F. L.: NUTRIENT LEVELS AFFECT SEAWEED RESPONSES TO OCEAN ACIDIFICATION (ID: 26049)

066 STRENGTHENING THE PALAEOOLIMNOLOGICAL CONTRIBUTION TO GLOBAL CHANGE

- Chair(s): Jordi Catalan, j.catalan@creaf.uab.cat
Alexander P. Wolfe, awolfe@ualberta.ca
Oliver Heiri, oliver.heiri@ips.unibe.ch
John Tibby, john.tibby@adelaide.edu.au
Carmen Pérez-Martínez, cperezm@ugr.es
Eduardo L Piovano, eduardopiovano@gmail.com
- Location: Poster and Exhibit Area (Floor 1)
- 280 Lenz, J.; Grosse, G.; Jones, B. M.; Wetterrich, S.: PALEOLIMNOLOGICAL DYNAMICS IN THE ALASKAN ARCTIC (ID: 27416)

- 281 **Diaz de Quijano, D.**; Felip, M.; Catalan, J.: PHOSPHATASE IN CYCLOTELLA spp. AND ITS IMPLICATIONS FOR THE GLOBAL CHANGE INTERPRETATIONS OF PALEOLIMNOLOGICAL RECORDS (ID: 26742)
- 282 **Ramos-Roman, M. J.**; García-Alix, A.; Jimenez-Moreno, G.; Anderson, R. S.; Toney, J. L.; Jimenez-Espejo, F. J.: LATE HOLOCENE CLIMATE CHANGE AND HUMAN IMPACT IN ALPINE BOG SEDIMENTS: BORREGUIL DE LA CALDERA, SIERRA NEVADA (SOUTHEASTERN IBERIAN PENINSULA) (ID: 25462)
- 283 **Jiménez, L.**; Conde-Porcuna, J. M.; Pérez-Martínez, C.: RECENT CHANGES IN RIO SECO LAKE (SIERRA NEVADA, SPAIN): PALEOLIMNOLOGICAL EVIDENCES (ID: 26096)
- 284 **Mata, M. P.**; Morellón, M.; Vegas, J.; Ballesteros, P.; Sánchez, J.; Valero, B. L.; Moreno, A.; Rodriguez-García, J. A.; Rieradevall, M.; Tarrats, P.: RECENT ENVIRONMENTAL CHANGES IN THE SEDIMENTARY RECORD OF THE ENOL LAKE (PICOS DE EUROPA NATIONAL PARK, SPAIN) (ID: 26018)
- 299 Combe, C.; Hartmann, P.; Bernard, O.; Rabouille, S.; Talec, A.; Pruvost, E.; **sciandra, A.**: LONG-TERM ADAPTIVE RESPONSE TO HIGH-FREQUENCY LIGHT SIGNALS IN THE UNICELLULAR PHOTOSYNTHETIC EUKARYOTE *DUNALIELLA SALINA* (ID: 25779)
- 300 **David, H.**; Laza-Martinez, A.; Kromkamp, J. C.; Orive, E.: PHOTOPHYSIOLOGY OF THE BENTHIC DINOFLAGELLATE *COOLIA MONOTIS* FROM THE ATLANTIC IBERIAN PENINSULA (ID: 25810)
- 301 **Dávila-Santiago, E.**; Sastre, M. P.; Vélez-Villamil, S. M.: BIOESSAYS OF THE EFFECT OF COMMERCIAL GRADE 5% DEET MOSQUITO REPELLENT ON "IN VITRO" POPULATIONS OF THE DINOFLAGELLATE *GYMNODINIUM INSTRIATUM* (ID: 25956)
- 302 **Pérez-Lorenzo, M.**; Cermeño, P.; Chouciño, P.; Mourino-Carballido, B.; Sobrino, C.; Marañón, E.: USING CHEMOSTATS TO INVESTIGATE THE TEMPERATURE-DEPENDENCE OF PHYTOPLANKTON METABOLIC RATES UNDER NUTRIENT-LIMITED GROWTH (ID: 26128)

071 PHYSIOLOGICAL RESPONSES OF PHYTOPLANKTON TO RESOURCE AVAILABILITY

Chair(s): Kimberly Halsey, halseyk@science.oregonstate.edu
 Amanda Cockshutt, acockshu@mta.ca
 Mario Giordano, m.giordano@me.com
 Ondrej Prasil, prasil@alga.cz
 Bethan Jones, bethan.jones@science.oregonstate.edu

Location: Poster and Exhibit Area (Floor 1)

- 291 **Shen, C.**; Hopkinson, B. M.: THE COSTS AND BENEFITS OF PRODUCING EXTRACELLULAR CARBONIC ANHYDRASE FOR CO₂ UPTAKE IN CENTRIC DIATOMS AND MODULATION BY CO₂ CONCENTRATION (ID: 27342)
- 292 **Cockshutt, A. M.**; Li, G.; Brown, C. M.; Campbell, D. A.: LIGHT DEPENDENCE OF RESOURCE ALLOCATIONS AND PROTEIN MAINTENANCE COSTS FOR PHYTOPLANKTON (ID: 27334)
- 294 **Jiang, Y.**; Ho, A. Y.; Yin, K.; Harrison, P. J.: INFLUENCE OF TEMPERATURE AND DIFFERENT NITROGEN SOURCES ON THE GROWTH, BIOCHEMICAL COMPOSITION OF THALASSIOSIRA WEISSFLOGII (ID: 27668)
- 295 **Halsey, K. H.**; Fisher, N. L.; Jones, B. M.: PHOTOSYNTHETIC ENERGY ALLOCATION STRATEGIES: RESOURCE AND TRAIT-BASED DEPENDENCIES (ID: 27628)
- 296 **Price, L. M.**; Filippino, K. C.; Mulholland, M. R.: THE LAFAYETTE RIVER: THE SPECIES SUCCESSION OF PHYTOPLANKTON COMMUNITIES IN CORRELATION TO ENVIRONMENTAL AND PHYSICAL TRIGGERS (ID: 27049)
- 297 **Bibby, T. S.**; Ryan-Keogh, T. J.; Richier, S.; Macey, A. I.; Moore, C. M.: STOICHIOMETRY OF PHOTOSYNTHETIC CATALYSTS ACROSS OCEANIC GRADIENTS OF NUTRIENT, LIGHT AND TEMPERATURE (ID: 26978)
- 298 **Yun-Chi, L.**; Chang, J.; Lee-Kuo, K.: EVALUATING THE RELATIONSHIP BETWEEN 18S rRNA/RDNA RATIO AND POPULATION GROWTH IN MARINE PHYTOPLANKTON (ID: 25434)

072 PHYSICAL AND BIOLOGICAL PROCESSES ASSOCIATED WITH THE EXCHANGE THROUGH STRAITS: THE CASE OF GIBRALTAR AND OTHER NARROW STRAITS.

Chair(s): Fidel Echevarría, fidel.echevarria@uca.es
 Jesús García-Lafuente, glafuente@ctima.uma.es
 Carlos M. García, carlos.garcia@uca.es
 Bouchta El Moumni, bmouumni@yahoo.fr

Location: Poster and Exhibit Area (Floor 1)

- 303 **Kodama, T.**; Kuga, M.; Watanabe, T.; Igeta, Y.; Honda, N.; Iguchi, N.; Morimoto, H.; Okazaki, M.; Katoh, O.: SHALLOW TSUSHIMA STRAIT INDUCES BASIN-WIDE SUBSURFACE NUTRIENT INVERSION LAYER IN THE TSUSHIMA WARM CURRENT DURING SUMMER (ID: 25761)
- 304 **Bellanco, M. J.**; Sanchez-Leal, R. F.: TERMOHALINE AND TRANSPORT VARIABILITY IN THE EASTERN GULF OF CADIZ FROM IN-SITU AND SATELLITE OBSERVATIONS. (ID: 26975)
- 305 **Ramirez-Romero, E.**; Valcarcel-Perez, N.; Macias, D. M.; Bruno, M.; Garcia, C. M.: TRANSPARENT EXOPOLYMER PARTICLES (TEP) IN THE STRAIT OF GIBRALTAR: GENERAL DISTRIBUTION AND THEIR ROLE IN AGGREGATION PROCESSES (ID: 27003)
- 306 **Navarro, G.**; Vicent, J.; Caballero, I.; Morris, E. P.; Sabater, N.; Bruno, M.; Vazquez, A.: HYPERSPECTRAL IMAGING OF INTERNAL WAVES IN THE STRAIT OF GIBRALTAR (ID: 26690)

075 MARINE MICROBIAL BIODIVERSITY, BIOINFORMATICS, AND BIOTECHNOLOGY

Chair(s): Frank Oliver Glockner, fog@mpi-bremen.de
 Chris Bowler, cbowler@biologie.ens.fr
 Linda Amaral Zettler, amaral@mbl.edu

Location: Poster and Exhibit Area (Floor 1)

- 316 **Budinich, M.**; Eveillard, D.; Larhlimi, A.; Bourdon, J.: RELATIONS IN MICROBIAL ECOSYSTEM: APPLICATION IN A HOT SPRING COMMUNITY (ID: 26168)

- 317 **Ferrera, I.**; Giner, C. R.; René, A.; Flo, E.; Logares, R.; Massana, R.; Gasol, J. M.; Camp, J.; Garcés, E.: MARINE PLANKTONIC BIODIVERSITY MONITORING AND ASSESSMENT OF ECOSYSTEM HEALTH STATUS THROUGH HIGH-THROUGHPUT SEQUENCING (ID: 26089)
- 319 **Sieradzki, E.**; Sachdeva, R.; Fichot, E.; Fuhrman, J.: HUMAN IMPACT ON MARINE MIROBIAL COMMUNITY COMPOSITION (ID: 25730)
- 320 **Hamasaki, K.**; Kaneko, R.; Fujimura, R.; Shiozaki, T.; Takasu, H.; Kogure, K.: DYNAMICS OF BACTERIOPLANKTON COMMUNITY STRUCTURES IN RELATION TO ENVIRONMENTAL FACTORS OFF THE COAST OF TOHOKU AREA, NORTHERN JAPAN (ID: 26989)
- 321 **Lankiewicz, T. S.**; Cottrell, M. T.; Kirchman, D. L.: GROWTH RATES OF ABUNDANT MARINE BACTERIAL CLADES IN PURE CULTURES AND IN THE DELAWARE ESTUARY (ID: 26985)
- 322 **Lee, T. L.**; Tas, N.; Falcon, L. I.; Parker, A. E.; Cornwell, J.; Wilkerson, F. P.: SALINITY AND "ECO-TYPE" CONSTRAINTS ON BENTHIC MICROBIAL COMMUNITIES (ID: 26429)
- 323 **Agogue, H.**; Hugoni, M.; Dupuy, C.; Lavergne, C.: THE C3 GROUP : A RARE BUT ACTIVE THAUMARCHEAL GROUP IN INTERTIDAL MUDDY SEDIMENT (ID: 26667)
- 324 **Fotedar, R.**; **Breiner, H. W.**; Filker, S.; Zeyara, A.; Al Malaki, A.; Abdel-Moati, M. A.; Bukhari, S. J.; Febbo, E.; Boekhout, T.; Stoeck, T.: PROTISTAN AND BACTERIAL PLANKTON COMMUNITIES IN COASTAL WATERS OF QATAR (ARABIAN GULF) (ID: 26714)

083 ENVIRONMENTAL CONSEQUENCES OF ANTHROPOGENIC STRUCTURE IN THE OFFSHORE ENVIRONMENT: A REGIONAL COMPARISON

- Chair(s): Donna M. Schroeder, donna.schroeder@boem.gov
Ann Scarborough Bull, ann.bull@boem.gov
- Location: Poster and Exhibit Area (Floor 1)
- 338 **Weber, S. C.**; Fernandez, A.; Battles, J. J.; Peterson, L.; Roberts, B. J.; Peterson, R. N.; Hollander, D. J.; Chanton, J. P.; Joye, S. B.; Montoya, J. P.: TIMESCALES OF ECOSYSTEM RESPONSE: AN OIL AND GAS BLOWOUT EVENT COMPARISON (ID: 27600)
- 339 **Cruz-Marrero, W.**; Bradley, B. G.: IN SITU HABITAT CHARACTERIZATION OF MID-ATLANTIC OFFSHORE WIND POWER SITES (ID: 26382)
- 340 **Mesner, N. O.**; Arentsen, P. R.; Gillies, R. R.: THE EFFECTS OF URBANIZATION ON WATERSHED FUNCTIONS: THE RELATIONSHIP BETWEEN IMPERVIOUS SURFACE AREA AND WATER QUALITY (ID: 26854)
- 341 **Giraud, M.**; Boye, M.; Garçon, V.; Auveray, C.; Lejart, M.; De la Broise, D.: OCEAN THERMAL ENERGY CONVERSION, THE POTENTIAL IMPACT ON MICROPLANKTON OF BOTTOM WATER DISCHARGE AT SUB-SURFACE (ID: 26233)
- 342 **Ndimele, P. E.**; Pedro, M. O.: HEAVY METAL ACCUMULATION IN ORGANS OF OREOCHROMIS NILOTICUS (LINNAEUS, 1758) FROM INDUSTRIAL EFFLUENT-POLLUTED AQUATIC ECOSYSTEM IN LAGOS, NIGERIA (ID: 25555)

089 INFOCHEMICAL CONTROLS ON BIOGEOCHEMICAL PROCESSES IN AQUATIC AND MARINE ECOSYSTEMS

- Chair(s): Benjamin Van Mooy, bvanmooy@whoi.edu
Kay Bidle, bidle@marine.rutgers.edu
Matt Johnson, mattjohnson@whoi.edu
Tracy Mincer, tmincer@whoi.edu
Assaf Vardi, Assaf.Vardi@weizmann.ac.il
- Location: Poster and Exhibit Area (Floor 1)
- 358 **Bormans, M.**; Briand, E.; Humbert, J. F.; Gerwick, W.: DEGRADATION OF CYANOBACTERIAL SECONDARY METABOLITES BY A NATURAL BACTERIAL COMMUNITY ASSOCIATED WITH MICROCYSTIS (ID: 26071)
- 359 **Collins, J. R.**; Fredricks, H. F.; Ducklow, H. W.; Van Mooy, B. A.: BIOTIC AND ABIOTIC PRODUCTION OF OXYLIPIN INFOCHEMICALS ALONG THE WESTERN ANTARCTIC PENINSULA (ID: 26138)
- 360 **Campagna, S. R.**; May, A. L.; Richardson, L. L.; Van Mooy, B. A.; Buchan, A.: APPLICATION OF METABOLOMICS AND KINETIC FLUX PROFILING TO PROBE THE LINKAGE OF SIGNALING AND METABOLISM IN AQUATIC MICROBIAL INTERACTIONS (ID: 26454)
- 361 **John, u.**; Lu, Y.; Wohlrab, S.; Groth, M.; Guillou, L.; Glöckner, G.: A GENOMIC VIEW INTO THE PROCESSES DRIVING THE INFECTION OF ALEXANDRIUM BY THE PARASITOID AMOEBOPHRYA (ID: 26889)
- 362 **Hunter, J. E.**; Frada, M. J.; Fredricks, H. F.; Vardi, A.; Van Mooy, B. A.: MOLECULAR INSIGHTS ON VIRAL INFECTION AND LIFE CYCLE IN EMILIANA HUXLEYI FROM TARGETED AND UNTARGETED LIPIDOMICS (ID: 26629)
- 363 **Johns, C. T.**; Knapp, V.; Mui, A.; Natale, F.; Fredricks, H.; Van Mooy, B. A.; Bidle, K. D.: MUTUAL INTERPLAY BETWEEN VIRUSES AND CELLULAR PIC QUOTAS IN EMILIANIA HUXLEYI (ID: 27356)
- 364 **Liu, Q.**; Nishibori, N.; Imai, I.; Hollibaugh, J. T.: POLYAMINES OF MARINE PHYTOPLANKTON AND THE RESPONSE OF POLYAMINE POOLS TO ENVIRONMENTAL STRESSES AND NUTRIENT LIMITATIONS (ID: 27300)
- 365 **Schieler, B. M.**; Bidle, K. D.: NITRIC OXIDE SIGNALING DURING GROWTH AND VIRAL-INDUCED DEMISE OF EMILIANIA HUXLEYI (ID: 27200)

091 BIO-OPTICS, OPTICAL BIOGEOCHEMISTRY, AND REMOTE SENSING OF OPTICALLY COMPLEX WATERS

- Chair(s): Stefan Simis, stsi@pml.ac.uk
Peter Hunter, p.d.hunter@stir.ac.uk
- Location: Poster and Exhibit Area (Floor 1)
- 371 **Brandão, L. P.**; Brighenti, L. S.; Costa, P.; Bezerra-Neto, J. F.: THE ROLE OF DISSOLVED AND PARTICULATE MATTER IN THE VARIATION OF VISIBLE AND ULTRAVIOLET RADIATION IN TROPICAL LAKE (ID: 26268)
- 372 **Ortiz-Rosa, S.**; Armstrong, R.; López-Rosado, R.: SPATIAL AND TEMPORAL VARIATIONS IN REMOTE SENSING REFLECTANCE IN A TROPICAL ESTUARINE AREA: CHLOROPHYLL AND CHROMOPHORIC DISSOLVED ORGANIC MATTER SIGNALS (ID: 25649)
- 373 **Capuzzo, E.**; Stephens, D.; Silva, T.; Barry, J.; Forster, R. M.: DECREASE IN WATER CLARITY OF THE SOUTHERN AND CENTRAL NORTH SEA DURING THE TWENTIETH-CENTURY (ID: 25429)

- 374 **Laber, C. P.**; Schofield, O. M.; Bidle, K. D.: DETECTION OF COCCOLITHOVIRUS INFECTION USING FOURTH DERIVATIVE SPECTRAL ABSORPTION (ID: 27573)
- 375 **Sastri, A. R.**; Krogh, J.; Phillips, S.; Costa, M.: HIGH-RESOLUTION MONITORING OF BIO-OPTICAL PROPERTIES IN DYNAMIC COASTAL SYSTEM: FERRY-BASED MEASUREMENTS IN THE STRAIT OF GEORGIA, CANADA (ID: 27190)

095 NITROGEN LIMITATION IN FRESHWATER - IS NITROGEN REDUCTION ECOLOGICALLY MEANINGFUL?

Chair(s): Claudia Wiedner, wiedner@tu-cottbus.de
Andrew M. Dolman, andrew.dolman@tu-cottbus.de
Helmut Fischer, helmut.fischer@bafg.de

Location: Poster Area (Floor 2)

- 383 **Rücker, J.**; Knie, M.; Nixdorf, B.; Kolzau, S.; Voss, M.; Wiedner, C.: NITROGEN FIXATION IN TWO POLYMICHTIC LAKES (ID: 26967)
- 384 **Thomsson, G. C.**; Diehl, S.; Kahlert, M.; Karlsson, J.; Liess, A.: OPPOSITE TRENDS IN LIGHT VS NITROGEN LIMITATION PROMOTE N₂ FIXERS ALONG A BOREAL CDOM GRADIENT (ID: 25618)

098 ECOSYSTEM-SCALE APPROACHES TO ECOSYSTEM-SCALE QUESTIONS

Chair(s): Jens C. Nejstgaard, nejstgaard@igb-berlin.de
Paraskevi Pitta, vpitta@hcmr.gr
Hans H Jakobsen, hhja@dmu.dk

Location: Poster Area (Floor 2)

- 385 **Korneeva, Y. A.**; Simonova, N. N.; Degteva, G. N.: CONDITIONS AND FACTORS OF THE PARASITIC DISEASES PREVALENCE IN THE COASTAL AREAS IN ARCTIC CLIMATE CHANGE (ID: 25822)
- 386 **Bobyreva, N. S.**; Degteva, G. N.: INTERCONNECTION OF PARASITIC DISEASES AND CLIMATE CHANGE ON THE ARCTIC COASTAL TERRITORIES OF THE RUSSIAN FEDERATION. (ID: 25877)
- 387 **Tsikopoulou, I.**; Santi, I.; Kalogeropoulou, V.; Geropoulos, A.; Dimitriou, P. D.; Moraaitis, M.; Papageorgiou, N.; Pitta, P.; Karakassis, I.: BACTERIAL VIABILITY IN HYPOXIC MARINE SEDIMENTS: A MESOCOSM EXPERIMENT (ID: 27025)
- 388 **Lorenzo, M. R.**; Maldonado, M. T.; Lazaro, F. J.; Cullen, J. T.; Segovia, M.: TRACE-METAL DYNAMICS IN RESPONSE TO INCREASED CO₂ AND IRON AVAILABILITY IN A COASTAL MESOCOSM EXPERIMENT (ID: 27510)
- 389 **Charles, C.**; Gillis, D. M.; Blanchfield, P. J.; Hrenchuk, L. E.: A METHOD OF SPATIAL CORRECTION FOR ACOUSTIC POSITIONING TELEMETRY (ID: 27630)
- 390 Paterson, M.; Higgins, S.; **Rennie, M. D.**; McCandless, M.; Rodgers, C.; Hrenchuk, L.; Mollot, R.; Charles, C.: THE EXPERIMENTAL LAKES AREA: OVER 45 YEARS OF WHOLE ECOSYSTEM MONITORING AND MANIPULATION EXPERIMENTS AND A FOCUS ON THE FUTURE (ID: 27697)
- 391 **Kalogeropoulou, V.**; Lampraki, S.; Tsikopoulou, I.; Santi, I.; Dimitriou, P.; Papageorgiou, N.; Pitta, P.; Karakassis, I.: MEIOFAUNAL ASSEMBLAGES IN HYPOXIC COASTAL SEDIMENTS: A BENTHIC MESOCOSM EXPERIMENT (ID: 27489)

101 MICROSCOPIC PLASTIC DEBRIS AND ITS IMPACT ON AQUATIC ECOSYSTEMS

Chair(s): Tamara Galloway, t.s.galloway@exeter.ac.uk
Dr Ceri Lewis, c.n.lewis@exeter.ac.uk
Matthew Cole, m.cole@exeter.ac.uk

Location: Poster Area (Floor 2)

- 404 **Gabel, F.**; Eibes, P.; Blodau, C.: SPATIAL DISTRIBUTION OF FLOATING MICROPLASTICS ALONG THE COURSE OF A SANDY LOWLAND STREAM (ID: 26252)
- 405 Michels, J.; Stippkugel, A.; Wirtz, K.; **Engel, A.**: AGGREGATION OF MICROPLASTICS WITH MARINE BIOGENIC PARTICLES (ID: 25808)
- 406 **Schrank, I.**; Imhof, H.; Löder, M.; Laforsch, C.: MICROPLASTIC IN BAVARIAN WATERS – CONTAMINATION, SOURCE AND EFFECTS ON ORGANISMS (ID: 26804)
- 407 **Frère, L. Z.**; Paul-Pont, I.; Lambert, C.; Huvet, A.: MICROPLASTICS: A THREAT FOR THE BAY OF BREST, FRANCE? (ID: 26990)
- 408 **Syberg, K.**; Khan, F. R.; Selck, H.; Palmqvist, A.; Banta, G.; Daley, J.; Sano, L.; Duhaime, M.; Burton, A.: MICROPLASTIC: ADDRESSING ECOLOGICAL RISK THROUGH LESSONS LEARNED (ID: 26590)
- 409 Fischer, M.; **Scholz-Böttcher, B. M.**: SIMULTANEOUS TRACE ANALYSIS OF NINE COMMON PLASTICS IN ENVIRONMENTAL SAMPLES VIA PYROLYSIS GAS CHROMATOGRAPHY MASS SPECTROMETRY (PY-GCMS) (ID: 27498)

105 VIRUSES AND VIRAL MEDIATED PROCESSES IN AQUATIC SYSTEMS

Chair(s): Curtis A Suttle, suttle@Science.ubc.ca
Dolors Vaque, dolors@icm.csic.es
Steven W Wilhelm, wilhelm@utk.edu

Location: Poster Area (Floor 2)

- 410 Gilg, I. C.; Archer, S. D.; **Martínez Martínez, J.**; Floge, S. A.; Fields, D. M.; Vermont, A. I.; Waller, J.; Wilson, W. H.: NEW INSIGHTS INTO THE MECHANISM DRIVING THE REDUCTION OF PHOTOCHEMICAL EFFICIENCY IN EMILIANIA HUXLEYI DURING VIRAL INFECTION (ID: 27655)
- 411 **Haramaty, L.**; Johns, C. T.; Starovoytov, V.; Natale, F.; Bidle, K. D.: INFECTIVITY AND STABILITY OF COCCOLITHOVIRUSES (ID: 27370)
- 412 Palesse, S.; Pradeep Ram, A. S.; Colombe, J.; **Sime-Ngando, T.**: HOST PROKARYOTE PHYSIOLOGY REGULATES VIRAL LIFE STRATEGIES: EVIDENCE FROM A TEMPERATE FRESHWATER LAKE (LAKE PAVIN, FRANCE) (ID: 25689)
- 413 Vermont, A. I.; Waller, J. D.; Martínez Martínez, J.; Gilg, I. C.; Leavitt, A. H.; Floge, S. A.; Archer, S. A.; Wilson, W. H.; **Fields, D. M.**: VIRUS INFECTED ALGAE DETERS GRAZING BY MARINE COPEPODS. (ID: 27417)
- 414 **Vaque, D.**; Lara, E.; Sa, E.; Hendriks, I.; Holding, J.; Agusti, S.; Arrieta, J. M.; Wassmann, P. F.; Duarte, C. M.: COULD EXPERIMENTAL WARMING AND ACIDIFICATION PRODUCE CHANGES IN THE VIRUS LIFE CYCLE IN THE ARCTIC? (ID: 25568)

THURSDAY

110 CANYONS AND THEIR DEEP-SEA FANS: WHEN GEOLOGY MEETS BIOLOGY

- Chair(s): Christophe Rabouille, rabouill@lsce.ipsl.fr
 Karine Olu, karine.olu@ifremer.fr
 Amanda Demopoulos, ademopoulos@usgs.gov
 Francois Baudin, francois.baudin@upmc.fr
- Location: Poster Area (Floor 2)
- 425 **Baudin, F.**; Stetten, E.; Martinez, P.; Charlier, K.; Schnyder, J.; Pruski, A.; Congolobe Group, ... BULK GEOCHEMICAL CHARACTERIZATION OF SEDIMENTARY ORGANIC MATTER IN THE TERMINAL LOBES OF THE CONGO DEEP-SEA FAN (ID: 26137)
- 427 **Wilson, J. L.**; Stevens, B. G.: AGE DETERMINATION OF RED DEEP-SEA CRAB (*CHACEON QUINQUEDENS*) BY GROWTH RING ANALYSIS. (ID: 26347)
- 428 **Kanari, M.**; Bookman, R.; Ben-Avraham, Z.; Tibor, G.; Niemi, T. M.; Goodman-Tchernov, B. N.; Al-Zoubi, A.; Ash, A.; Taha, N.; Marco, S.: RECONSTRUCTING A HOLOCENE EARTHQUAKE RECORD IN THE NORTHERN GULF OF AQABA-EILAT FROM SUBMARINE CORES (ID: 25567)
- 429 **Bourque, J. R.**; Demopoulos, A. W.; Stamler, K. M.; Robertson, C. M.; Mienis, F.; Duineveld, G.: MEIOFAUNAL COMMUNITY STRUCTURE AND FUNCTION IN RELATION TO SEDIMENT BIOGEOCHEMISTRY IN BALTIMORE CANYON, USA (ID: 27119)
- 430 **Serrano, M. A.**; Bergillos, R. J.; Díez-Minguito, M.; Ortega-Sánchez, M.; Losada, M. A.: THE EFFECT OF A SHELF-INDENTING CANYON IN THE PROPAGATION OF LONG WAVES: THE CASE OF JOLUCAR CANYON (GRANADA, SPAIN) (ID: 25802)
- 431 **Muñoz, M.**; Reul, A.; Vargas-Yáñez, M.; Plaza, F.; Rodríguez, V.; Bautista, B.; Moya, F.; Palomino-Torres, R. L.; Jiménez-Gómez, F.; Rodríguez, J.: COMPOSITION, SIZE STRUCTURE AND NICTIMERAL MIGRATION OF ZOOPLANKTON IN THE GARRUCHA CANYON (SOUTHERN SPAIN). (ID: 27098)
- 432 Decker, C.; Potier, N.; Zorn, N.; Caprais, J. C.; Leize-Wagner, E.; Lallier, F.; Rabouille, C.; **Olu, K.**; Andersen, A. C.: GLOBINS AND THEIR CHARACTERISTICS IN TWO VESICOMYID BIVALVE SPECIES, ENABLING THEIR LIFE IN THE REDUCED ENVIRONMENT OF THE CONGO DEEP-SEA FAN (ID: 26514)
- 433 **Brandily, C.**; Cathalot, C.; De Prunelé, A.; Ruffine, L.; Le Bruchec, J.; Bessette, S.; Croguennec, C.; Pignet, P.; Caprais, J. C.; Rabouille, C.: PORE FLUID GEOCHEMISTRY FROM SURFACE SEDIMENT IN THREE SELECTED HABITATS AT A DEEP-SEA CONGO LOBE: SIMILARITIES AND DIFFERENCES (ID: 26832)
- 434 **Raimonet, M.**; Ragueneau, O.; Jacques, V.; Corvaisier, R.; Moriceau, B.; Khripounoff, A.; Pozzato, L.; Rabouille, C.: RAPID TRANSPORT AND HIGH ACCUMULATION OF AMORPHOUS SILICA IN THE CONGO DEEP-SEA FAN: A PRELIMINARY BUDGET (ID: 26521)

119 INTEGRATED PERSPECTIVES OF EASTERN BOUNDARY UPWELLING SYSTEMS

- Chair(s): Eric Desmond Barton, barton@iim.csic.es
 Javier Aristegui Ruiz, javier.aristegui@ulpgc.es
 P. Ted Strub, tstrub@coas.oregonstate.edu
- Location: Poster Area (Floor 2)

- 448 **Barton, E. D.**; Castro, C. G.; Figueiras, F. G.; Alvarez Salgado, X. A.; Perez, F. F.; Largier, J.; Torres, R.; Pazos, Y.; Gil Coto, M.: THE RÍA DE VIGO: A CANARY IN THE COAL MINE? (ID: 26752)

- 449 **Arístegui, J.**; Sangrá, P.; Alonso-González, I.; Baños, I.; Barceló, B.; Hernández-Hernández, N.; Montero, M. F.; Barton, E. D.: THE HIDDEN LIFE IN EDDIES (ID: 27303)

- 450 **Packard, T. T.**; Osma, N.; Fernández-Urruzola, I.; Maldonado, F.; Martínez, I.; Herrera, A.; Tames, M.; Kutzner, V.; Bru, E.; Gómez, M.: NUTRIENT RETENTION EFFICIENCY, A NEW OCEAN METRIC DERIVED FROM PLANKTON RESPIRATION AND CARBON FLUX (ID: 25747)

- 451 **Castro, C. G.**; Collins, C. A.; Pennington, T. A.; Michisaki, R.; Chavez, F. P.: TEMPORAL VARIABILITY OF DOWNWARD FLUXES OF ORGANIC CARBON OFF MONTEREY BAY (ID: 26559)

128 PLANKTONIC BIODIVERSITY: SPATIAL & TEMPORAL COMPONENTS

- Chair(s): W. Charles Kerfoot, wkerfoot@mtu.edu
- Location: Poster Area (Floor 2)
- 464 **Preza, E.**; Kordbacheh, A.; Walsh, E. J.: CRYPTIC SPECIATION IN GNESIOTROCHAN ROTIFERS (ID: 26423)
- 465 **Chaparro, G.**; Fontanarrosa, M. S.; O'Farrell, I.: COLONIZATION AND SUCCESSION OF ZOOPLANKTON AFTER DROUGHT IN A FLOODPLAIN LAKE: INFLUENCE OF HYDROLOGY AND MACROPHYTE DYNAMICS (ID: 25812)
- 466 **Kaneko, R.**; Suzuki, S.; Nagata, T.; Honda, M.; Hamasaki, K.: SPATIOTEMPORAL DYNAMICS OF PLANKTONIC ARCHAEA IN THE WESTERN NORTH PACIFIC OCEAN (ID: 26592)
- 467 Shin, K. H.; **Park, S. Y.**; Choi, B. H.; Lee, Y. J.; Lee, W. C.; Kim, H. C.: ESTIMATION OF ANNUAL PRIMARY PRODUCTIVITY IN COASTAL OYSTER FARM AREA, KOREA PENINSULA (ID: 26913)

132 MICROBIAL DIVERSITY AND DYNAMICS IN EXTREME ENVIRONMENTS

- Chair(s): Isabel Reche, ireche@ugr.es
 Josefa Antón, anton@ua.es
- Location: Poster Area (Floor 2)
- 480 **Anton, J.**; Schmitt-Kopplin, P.; Lucio, M.; Rosselló-Móra, R.: METABOLOMICS AS A TOOL TO UNVEIL PROKARYOTIC MICRODIVERSITY AND DYNAMICS IN HYPERSALINE ENVIRONMENTS (ID: 26849)
- 481 **Kurosawa, N.**; Kubo, S.; Chaya, A.; Kawamata, A.; Kosugi, M.; Imura, S.: COMMUNITY STRUCTURES OF PROKARYOTES AND PROTISTAN MICROPLANKTON IN THE ANTARCTIC SALINE LAKE NURUME-IKE REVEALED BY SSU RIBOSOMAL RNA GENE CLONE ANALYSIS (ID: 26440)
- 482 **Sánchez-Castro, I.**; Amador-García, A.; López-Fernández, M.; Phrommavanh, V.; Nos, J.; Descotes, M.; Merroun, M. L.: BACTERIAL DIVERSITY IN POREWATERS FROM URANIUM MILL TAILINGS REVEALED BY CULTURE-DEPENDENT APPROACHES (ID: 27317)
- 483 **Batanero, G. L.**; Green, A. J.; Suttle, C. A.; Mazuecos, I. P.; Vittecoq, M.; Amat, J.; Reche, I.: PROKARYOTES AND VIRUSES IN SALINE WETLANDS OF THE WESTERN MEDITERRANEAN BASIN (ID: 26300)

^T REPRESENTS TUTORIAL PRESENTATIONS

- 484 **León-Palmero, E.**; Batanero, G. L.; Green, A. J.; Rendón-Martos, M.; Reche, I.: GUANOTROPHICATION BY FLAMINGOS AND THE HYDROLOGICAL BUDGET CONTROL NUTRIENT AND MICROBIAL DYNAMICS IN AN ATHALASSOHALINE LAGOON (ID: 25894)
- 485 **Teufel, A. G.**; Li, W.; Morgan-Kiss, R. M.: CLIMATE CHANGE IN ANTARCTICA: IMPACT OF NUTRIENT AVAILABILITY ON ANTARCTIC LAKE PHYTOPLANKTON COMMUNITIES (ID: 25859)

136 ADVANCES IN BLUE CARBON RESEARCH: THE ROLE OF COASTAL ECOSYSTEMS IN THE CARBON CYCLE

Chair(s): Charles Hopkinson, chopkins@uga.edu
 Robert Chen, bob.chen@umb.edu
 Carlos Duarte, carlos.duarte@uwa.edu.au
 Nuria Marb, nmarba@imedeua.uib-csic.es
 Oscar Serrano, o.serranogras@ecu.edu.au

Location: Poster Area (Floor 2)

- 508 **Egea, L. G.**; Jimenez Ramos, R.; Hernandez, I.; Vergara, J. J.; Brun, F. G.: PLAYING WITH A FUTURE SCENARIO: RESPONSE OF THE SEAGRASS *CYMODOCEA NODOSA* TO THE JOINT ACTION OF CLIMATE CHANGE STRESSORS (ID: 26581)
- 509 **Landis, E. C.**; Sommerfield, C. K.; Tucker, K.: SPATIAL VARIATION OF CARBON ACCUMULATION IN GREAT MARSH, DELAWARE, USA (ID: 26416)
- 510 **Kim, B.**; Hyun, J.; Kim, S.; Mok, J.; Lee, K.; Kang, C.: SULFATE REDUCTION AT TWO SEAGRASS BEDS (*INDIGENOUS ZOSTERA MARINA* AND INVADING *HALOPHILA NIPPONICA*) IN THE SOUTHERN COAST OF KOREA (ID: 27701)
- 511 **Cotovicz Jr, L. C.**; Knoppers, B. A.; Brandini, N.; Santos, S. J.; Abril, G.: A LARGE ANNUAL CO₂ SINK IN A HYPERTROPHIC TROPICAL COASTAL EMBAYMENT (GUANABARA BAY, RIO DE JANEIRO, BRAZIL) (ID: 27596)

137 NEXT GENERATION IN SITU SENSORS FOR AQUATIC SYSTEMS

Chair(s): Jay Pearlman, jay.pearlman@ieee.org
 Douglas Connolly, douglas.connolly@noc.ac.uk
 Marie-Louise Tercier Waeber, Marie-Louise.Tercier@unige.ch
 Raquel de Sousa, rdesousa@leitat.org

Location: Poster Area (Floor 2)

- 512 **Sánchez Polo, A. M.**; López Peñalver, J. J.; Medina Castillo, A. L.; Sánchez Polo, M.; Fernández Sánchez, J. F.; Rivera Utrilla, J.: SILVER-NANOPARTICLES FOR HALIDES REMOVAL FROM DRINKING WATER (ID: 26746)
- 513 **Coll Crespi, M.**; Tercier-Waeber, M. L.; Pankratova, N.; Pomati, F.; Bakker, E.: INNOVATIVE APPROACH TO STUDY TRACE METAL DYNAMIC AND THEIR SYNERGISTIC INTERACTION WITH PHYTOPLANKTON COMMUNITIES. (ID: 26619)
- 514 **Fischer, J. P.**; Thar, R.; Holtappels, M.; Borisov, S.; Klimant, I.: ROBUST AND FAST RESPONDING FIBER OPTODES – TOOLS, METHODS, AND APPLICATIONS (ID: 26758)
- 515 **Pankratova, N.**; Crespo, G. A.; Tercier-Waeber, M. L.; Crespi, M. C.; Pomati, F.; Bakker, E.: ELECTROCHEMICAL NUTRIENT SENSORS FOR IN-SITU MONITORING OF AQUATIC ECOLOGICAL PROCESSES (ID: 26698)

- 516 Clarke, J.; Achterberg, E. P.; Mowlem, M.: DEVELOPMENT OF HIGH RESOLUTION IN SITU FLUORESCENCE PH SENSOR (ID: 26716)
- 517 **Kane, M. K.**; Yopak, R.; Casagrande, D. S.; Roman, C.; Menden-Deuer, S.: *IN SITU* QUANTIFICATION OF WINTER VERTICAL DISTRIBUTIONS OF ANTARCTIC KRILL AS SEEN THROUGH A NEW STEREO CAMERA SYSTEM (ID: 27230)
- 518 **Walker, S. A.**; Wallace, D.; Azetsu-Scott, K.: OXYGEN ISOTOPE MEASUREMENTS IN SEAWATER USING CAVITY RING-DOWN SPECTROSCOPY (CRDS) (ID: 27396)
- 519 **Bombar, D.**; Taylor, C.; Wilson, S. T.; Robidart, J. C.; Turk-Kubo, K. A.; Karl, D. M.; Zehr, J. P.: MEASUREMENTS OF N₂ FIXATION IN THE OLIGOTROPHIC NORTH PACIFIC SUBTROPICAL GYRE USING A FREE-DRIFTING SUBMERSIBLE INCUBATION DEVICE (ID: 26380)
- 520 **Fritzsche, E.**; Schutting, S.; Jokic, T.; Strobl, M.; Borisov, S. M.; Klimant, I.: NEW HIGH PERFORMANCE OPTICAL PCO₂ SENSORS BASED ON BF₂-CHELATES OF DIHYDROXY-AZA-DIPYRROMETHENES (ID: 25453)
- 521 **Mistlberger, G.**; Müller, B. J.; Holly, C.; Klimant, I.: MULTI-CHANNEL MINIATURIZED ALGAE DETECTION MODULE (ID: 26121)
- 522 **Athavale, R.**; Wehrli, B.; Crespo, G. A.; Bakker, E.; Brand, A.: IN- SITU PROFILING ACROSS THE REDOXCLINE OF STRATIFIED LAKES USING SOLID CONTACT ION SELECTIVE ELECTRODES - NEW OPPORTUNITIES FOR SENSOR DEVELOPMENT (ID: 26110)
- 523 **Müller, B.**; Mistlberger, G.; Klimant, I.: EVALUATION OF DIFFERENT OPTICAL DETECTION METHODS FOR THE MARINE BIOTOXIN SAXITOXIN (ID: 26340)
- 524 **Prado, E.**; Nixon, J.; Mongin, S.; Tercier Weaber, M.; Nardin, C.: BIOMACROMOLECULES BASED DETECTION OF POLLUTION IN MARINE AQUATIC ENVIRONMENTS (ID: 26251)

139 PLANKTON ECOLOGY - PHYTOPLANKTON

Chair(s): Lisette Senerpont Domis, L.deSenerpontDomis@nioo.knaw.nl
 Location: Poster Area (Floor 2)

- 533 **Cunningham, A.**; Mitchell, C.: SPECTRAL DEPENDENCE OF PHYTOPLANKTON LIGHT HARVESTING AND ITS IMPLICATIONS FOR PRIMARY PRODUCTION IN CDOM-COLOURED WATERS (ID: 27145)
- 534 **Hunter-Cevera, K. R.**; Sosik, H. M.; Neubert, M. G.; Solow, A. R.; Olson, R. J.; Shalapyonok, A.: ANNUAL ABUNDANCE CYCLE OF TEMPERATE *SYNECHOCOCCUS* DETERMINED BY SEASONAL CHANGES IN DIVISION RATE (ID: 26857)
- 535 **Fiedler, D.**; Pritzkow, W.; Zwirnmann, E.; Köhler, J.: DON – UTILIZATION, INTERACTION AND IMPACT ON PHYTOPLANKTON (ID: 26529)
- 536 **Sánchez-Viruet, I. C.**; Gilbert, P. M.: RESPONSE OF PHYTOPLANKTON COMMUNITY TO NUTRIENT QUALITY AND QUANTITY CHANGE IN MARYLAND/ VIRGINIA COASTAL BAYS (ID: 27546)
- 537 **Noh, J. H.**; Choi, D. H.; Yang, E. C.; Lee, C. M.: ECOSYSTEM RESPONSES TO ENVIRONMENTAL CHANGES IN THE EAST CHINA SEA (ID: 27672)
- 538 **Sakai-Kimura, S.**; Takee, H.; Ban, S.; Koyama, M.; Toda, T.: EFFECTIVE NUTRIENT REMOVAL FROM ANAEROBIC DIGESTATES OF AQUATIC MACROPHYTES USING GREEN MICROALGAE (ID: 27728)

- 140 PLANKTON ECOLOGY - ZOOPLANKTON**
- Chair(s): Amy Burgess, burgess5@uoregon.edu
Location: Poster Area (Floor 2)
- 548 Intxausti, L.; Villate, F.; **Iriarte, A.**; Uriarte, I.: ANCHOVY LARVAE PRESERVATION IN ETHANOL AND FORMALIN: DIFFERENCES IN BODY MEASUREMENT INDEXES (ID: 26332)
- 549 **Suzuki, S.**; Kurosawa, N.: ANALYSIS OF GENETIC DIVERSITY OF THE PLANKTONIC COPEPOD *ACARTIA STEUERI* (COPEPODA, CALANOIDA, ACARTIIDAE) (ID: 26420)
- 550 **Hsieh, H.**; Chen, H.; Meng, P.: CHANGES OF HYDROGRAPHIC CONDITIONS AND LARVAL FISH ASSEMBLAGES IN THE COASTAL WATERS SOUTHWEST OF TAIWAN AFTER THE TYPHOON TEMBIN (ID: 25444)
- 539 **Pineda, A.**; Rodrigues, L. C.; Bortolini, J. C.: HYDROLOGICAL FACTORS ARE THE MAIN DRIVERS OF PHYTOPLANKTON IN BRAZILIAN SUBTROPICAL RESERVOIRS (ID: 27556)
- 540 **Carrera, A.**; Rivera, F.; Rosa, B.; Sastre, M.: RECOVERY OF THE *PYRODINUM BAHAMENSE* (DINOPHYCEAE) POPULATION AFTER A SEVERE DECLINE, IN LAGUNA GRANDE, PUERTO RICO (ID: 27606)
- 541 Hevia-Orube, J.; David, H.; Laza-Martinez, A.; Miguel, I.; Seoane, S.; **Orive, E.**: COMPARATIVE MOLECULAR AND MORPHOLOGICAL ANALYSES OF SOLITARY FORMS OF CENTRIC DIATOMS WITH PARTICULAR EMPHASIS ON THE PHENOTIPIC PLASTICITY (ID: 25806)
- 542 **Satoh, Y.**; Otosaka, S.; Suzuki, T.: ACCUMULATION OF IODINE INTO PHYTOPLANKTON IN THE COASTAL REGION IN THE NORTH PACIFIC (ID: 25677)
- 543 **Rothenberger, M. B.**; Calomeni, A. J.; Swaffield, T.: TOP-DOWN AND BOTTOM-UP REGULATION OF PHYTOPLANKTON ASSEMBLAGES IN A EUTROPHIC ESTUARY (ID: 25411)
- 544 **Masuda, T.**; Šedivá, B.; Felcmanová, K.; Lawrenz, E.; Kotabová, E.; Kana, R.; Bernát, G.; Rabouille, S.; Clauquin, P.; Prášil, O.: PHOTOSYNTHETIC METABOLISM IN THE UNICELLULAR DIAZOTROPHIC CYANOBACTERIA *ACROCOSPHAERA WATSONII* CCY0601 AND *CYANOTHECE* SP. ATCC 51142 (ID: 26221)
- 545 **Katayama, T.**; Taguchi, S.: ROLE OF DIATOXANTHIN FORMATION THROUGH THE XANTHOPHYLL CYCLE AND DE NOVO SYNTHESIS IN THE PROTECTION OF PHOTOSYNTHESIS IN THREE MARINE DIATOMS (ID: 25992)
- 546 **Hammerstein, S. K.**; Vogt, H.; Büttner-Koch, C.; Stockenreiter, M.; Stibor, H.: TESTING TECHNIQUES FOR ESTABLISHING DIVERSITY GRADIENTS WITHIN NATURAL PHYTOPLANKTON COMMUNITIES (ID: 25922)
- 547 **Cabrerozo, M. J.**; Redondo-Hasselerharm, P.; Carrillo, P.; Villafráñe, V. E.; Medina-Sánchez, J. M.; Helbling, E. W.: PHOTOSYNTHETIC RESPONSES OF PHYTOPLANKTON FROM HIGH-MOUNTAIN LAKES TO THE COMBINED IMPACT OF VERTICAL MIXING, UVR, CO₂ AND NUTRIENTS: A TRANSPLANT EXPERIMENT (ID: 26357)
- 551 **Rodriguez, A. E.**; Otero, E.: AN EVALUATION OF ZOOPLANKTON ENTRAINMENT BY THE COOLING WATER INTAKE SYSTEM OPERATED BY ECOELECTRICA, LP. (ID: 27432)
- 552 **Webb, A. E.**; Fields, D. M.; Lasley-Rasher, R. S.: TOO SCARED TO EAT; CAN PREDATOR KAIROMONES AFFECT PRIMARY PRODUCTION THROUGH CHANGES IN COPEPOD GRAZING? (ID: 26338)
- 553 **Hildebrandt, N.**; Thomisch, K.; Niehoff, B.: MESOZOOPLANKTON ABUNDANCE AND DISTRIBUTION IN FRAM STRAIT IN COMPARISON BETWEEN A COLD AND A WARM YEAR (ID: 27576)
- 554 **Wickline, A. T.**; Cohen, J. H.: SEASONALITY IN THE ZOOPLANKTON COMMUNITY OF DELAWARE BAY (USA): AN APPLICATION OF ZOOSCAN ANALYSIS TO A DYNAMIC AND UNDERSTUDIED ESTUARINE SYSTEM (ID: 27224)
- 555 Wuerz, M. T.; Huebner, E.; **Huebner, J. D.**: AN EXAMINATION OF THE HISTOLOGY OF MALE *DAPHNIA MAGNA* (ID: 27176)
- 142 CHEMICAL OCEANOGRAPHY/GEOTRACES**
- Chair(s): Andrea Kochinsky, a.kochinsky@jacobs-university.de
Location: Poster Area (Floor 2)
- 556 **Menzel, J. L.**; Schlosser, C.; Planquette, H.; Cheize, M.; Boutorh, J.; Shelley, R.; Contreira, L.; Gledhill, M.; Sarthou, G.; Achterberg, E. P.: HIGH RESOLUTION DISSOLVED ALUMINUM (DAL) MEASUREMENTS ALONG THE GEOVIDE SECTION (GEOTRACES SECTION GA01) AND AEROSOLS DEPOSITION RATES TO THE NORTH ATLANTIC (ID: 27368)
- 557 **Abat, J. R.**; Cabrera, O. C.; Villanoy, C. L.: TOPOGRAPHIC WAKE OFF BENHAM BANK, PHILIPPINES (ID: 27734)
- 558 **Solera, L. A.**; Villanoy, C. L.: INVESTIGATING FATE OF LARVAE IN A HIGHLY VARIABLE EDDYING REGIME (ID: 27730)
- 559 **Morell, J. M.**; Pomales, L. O.; Canals, M. F.; Capella, J. E.: SKILL ASSESSMENT OF EXISTING OPERATIONAL CIRCULATION MODELS FOR THE EASTERN CARIBBEAN IN SUPPORT OF THE IOOS-CARICOOS COASTAL MODELLING PROGRAM (ID: 26705)
- 560 **Androulidakis, Y. S.**; Krestenitis, Y. N.; Kourafalou, V.: ETESIAN WINDS AND COASTAL UPWELLING OVER THE NE AEGEAN SEA: MONITORING AND MODELING (ID: 26911)
- 561 **Cheize, M.**; Planquette, H. F.; Fitzsimmons, J.; Sherrell, R. M.; Sarthou, G.; Buccarelli, E.; Lambert, C.; Le Goff, M.; Viollier, E.: CONTRIBUTION OF SUSPENDED MARINE PARTICLES TO THE DISSOLVED TRACE METALS POOL: AN EXPERIMENTAL STUDY WITH SEDIMENTS FROM CONTRASTING ENVIRONMENTS (ID: 26806)
- 562 **Xie, R. C.**; Galer, S. J.; Abouchami, W.; Rijkenberg, M.; De Jong, J.; de Baar, H. J.: BIOGEOCHEMICAL AND CIRCULATION CONTROL ON CADMIUM ISOTOPE DISTRIBUTION IN THE WESTERN SOUTH ATLANTIC (ID: 26890)
- 563 **Venturini, N.**; Nuñez, L.; Salaroli, A. B.; F. Angeli, J. L.; Sasaki, S. T.; Taniguchi, S.; Bícego, C. M.; L. Figueira, R. C.; Pantoja, S.: ORGANIC MATTER DIAGENETIC STATE IN A TROPICAL ESTUARY, NORTHEASTERN BRAZIL: EVIDENCE FROM AMINO ACID BIOGEOCHEMISTRY IN SURFACE SEDIMENTS (ID: 25415)

564 **Gourain, A.**; Planquette, H.; Cheize, M.; Menzel, J.; Boutorh, J.; Shelley, R.; Pereira Contreira, L.; Sarthou, G.; Bassoullet, C.: SIZE FRACTIONATED PARTICULATE IRON ALONG THE GEOVIDE SECTION (GEOTRACES SECTION GA01) (ID: 26795)

565 **Sousa, L.**; Weingartner, T. J.; Winsor, P.; Danielson, S. L.; Dobbins, E. L.; Irvine, C. B.: INTER-ANNUAL VARIABILITY IN SURFACE CIRCULATION IN THE CHUKCHI AND BEAUFORT SEAS: SATELLITE-TRACKED DRIFTER MEASUREMENTS (ID: 25955)

THURSDAY

FRIDAY ORALS

006 ECOLOGICAL IMPACTS OF DROUGHTS ON FRESHWATER ECOSYSTEMS

Chair(s): Jose Luiz Attayde, attayde@cb.ufrn.br
 Erik Jeppesen, ej@dmu.dk

Meryem Beklioglu, meryem@metu.edu.tr

Location: Andalucia 2 (Floor 1)

- 15:00 **Jeppesen, E.**; Bucak, T.; Cappens, J.; Levi, E.; Çakiroglu, I.; Tavsanoglu, N.; Bezirci, G.; Erdogan, S.; Filiz, N.; Menezes, R.; Brucet, S.; Naselli-Flores, L.; Papastergiadou, E.; Kostas, ; Stefanidis, ; Nöges, T.; Nöges, P.; Attayde, J. L.; Kernan, M.; Søndergaard, M.; Beklioglu, M.: ECOLOGICAL IMPACTS OF DROUGHT ON LAKES INDUCED THROUGH WATER ABSTRACTION AND CLIMATE CHANGE (ID: 27761)
- 15:15 **Attayde, J. L.**; Brasil, J.; Huszar, V.: DROUGHT-INDUCED WATER LEVEL REDUCTION FAVOR CYANOBACTERIAL BLOOMS IN LAKES AND RESERVOIRS OF A SEMI ARID TROPICAL REGION (ID: 25562)
- 15:30 Medeiros, L. M.; Mattos, A.; Lurling, M.; **Becker, V.**: IS THE FUTURE BLUE-GREEN OR BROWN? THE EFFECT OF EXTREME EVENTS ON PHYTOPLANKTON DYNAMICS IN A SEMI-ARID MAN-MADE LAKE (ID: 25448)
- 15:45 **Barbosa, L. G.**; Pereira da Silva, K. D.; Dantas, E. W.: PHYTOPLANKTON IN INTERMITTENT SHALLOW LAKES IN THE BRAZILIAN CAATINGA (ID: 27762)
- 16:00 **Cappens, J.**; Bucak, T.; Tavsanoglu, Ü. N.; Trolle, D.; Beklioglu, M.: IMPACT OF CLIMATE CHANGE ON THE HYDROLOGICAL AND NUTRIENT BALANCE OF TWO SHALLOW MEDITERRANEAN LAKES USING CATCHMENT AND LAKE MODELLING APPROACHES (ID: 26724)
- 16:15 **Teferi, M.**; DeClerck, S. A.; De Bie, T.; Lemmens, P.; Gebrekidan, A.; Asmelash, T.; Dejenie, T.; Gebrehiwot, K.; Bauer, H.; Deckers, J. A.; Snoeks, J.; De Meester, L.: STRONG EFFECTS OF OCCASIONAL DRYING ON SUBSEQUENT WATER CLARITY AND CYANOBACTERIAL BLOOMS IN COOL TROPICAL RESERVOIRS* (ID: 27760)
- 17:15 **Joehnk, K. D.**; Ye, Q.; Nicol, J.: ANALYSING THE IMPACT OF DROUGHTS AND ENVIRONMENTAL WATERS ON SALINITY, WATER LEVEL, MACROPHYTE AND FISH HABITATS IN THE COORONG, SOUTH AUSTRALIA (ID: 27704)
- 17:30 **Mora-Gómez, J.**; Duarte, S.; Cassio, F.; Pascoal, C.; Romaní, A. M.: DROUGHT DURATION AFFECTS MICROBIAL PROCESSING OF PLANT LITTER IN A TEMPERATE STREAM (ID: 27070)
- 17:45 **Corti, R.**; Gelbrecht, J.; Premke, K.; Behounek, B.; Del Mar Sánchez-Montoya, M.; Grossart, H. P.; Singer, G.: DOES MIXING DIFFERENTLY PRECONDITIONED LEAVES AFFECT DOWNSTREAM MICROBIAL DECOMPOSITION IN PERENNIAL RIVERS? (ID: 26988)
- 18:00 **Pesce, S.**; Zoghalmi, O.; Bender, C.; Margoum, C.; Artigas, J.; Chaumot, A.; Foulquier, A.: COMBINED EFFECTS OF DROUGHT AND FUNGICIDE EXPOSURE ON AQUATIC LEAF LITTER DECOMPOSITION (ID: 26569)
- 18:15 **Martinez, A.**; Kominoski, J. S.; Larrañaga, A.: EFFECTS OF EUCALYPTUS DISSOLVED ORGANIC MATTER ON AQUATIC BIOFILM METABOLISM: IMPLICATIONS OF WATER SCARCITY (ID: 27747)

011 THE IMPACT OF GLOBAL CHANGE ON TOXIC PHYTOPLANKTON

Chair(s): Val H. Smith, vsmith@ku.edu
 Dedmer B. Van de Waal, d.vandewaal@nioo.knaw.nl
 Hans W. Paerl, hans_pael@unc.edu

Location: Picasso (Floor -2)

- 08:30 Harris, T. D.; Smith, V. H.; Graham, J. L.; **Van de Waal, D. B.**; Tedesco, L. P.; Clercin, N.: COMBINED EFFECTS OF THE NITROGEN TO PHOSPHORUS RATIO AND NITROGEN SPECIATION ON THREE CYANOBACTERIAL METABOLITE CONCENTRATIONS IN EUTROPHIC RESERVOIRS (ID: 27165)
- 08:45 **Paerl, H. W.**; Gardner, W. S.; McCarthy, M. J.; Otten, T. G.; Peierls, B. L.; Rossignol, K. L.; Hall, N. S.; Wilhelm, S. W.: NUTRIENT CONTROLS OF TOXIC CYANOBACTERIAL BLOOMS IN THE CONTEXT OF GLOBAL CHANGE: MOVING BEYOND THE "PHOSPHORUS ONLY" PARADIGM (ID: 25573)
- 09:00 **Gardner, W. S.**; McCarthy, M. J.; Paerl, W. S.; Lu, K.; Newell, S. E.; Lin, X.; Bruesewitz, D.; Hou, L.: COMMUNITY AMMONIUM DEMAND (CAD), REFLECTS N-LIMITATION IN EUTROPHIC AQUATIC ECOSYSTEMS (ID: 25579)
- 09:15 **Newell, S. E.**; McCarthy, M. J.; Lu, Z.; Gardner, W. S.: NITRIFICATION IN LAKE TAIHU, CHINA (ID: 27512)
- 09:30 **Glibert, P. M.**; Maranger, R.; Sobota, D. J.; Bouwman, L.: THE HABER BOSCH – HARMFUL ALGAL BLOOM (HB-HAB) LINK (ID: 27384)
- 09:45 Steffen, M. M.; Bourbonnierre, R. A.; Watson, S. B.; Krausfeldt, L. E.; Paerl, H. W.; Wilhelm, S. W.: METATRANSCRIPTOMIC AND TARGETED INSIGHTS INTO WHAT MAKES *MICROCYSTIS* BLOOM* (ID: 27267)
- 10:30 **Urrutia Cordero, P.**; Ekwall, M. K.; Hansson, L. A.: CLIMATE CHANGE IMPACTS ON LAKE PHYTOPLANKTON DIVERSITY AND TOXIC CYANOBACTERIA: A MESOCOSM APPROACH (ID: 26894)
- 10:45 **Otten, T. G.**; Dreher, T. W.: PAIRING PHYSICOCHEMICAL DATA AND METAGENOMICS TO ELUCIDATE THE ENVIRONMENTAL DRIVERS OF TOXIN-PRODUCING CYANOBACTERIAL BLOOMS (ID: 27723)
- 11:00 **Faassen, E. J.**; Lürling, M.: CYANOBACTERIA AND MICROCYSTINS: DO THEY LIKE IT HOT, NUTRITIOUS OR BOTH? (ID: 26178)
- 11:15 **Verspagen, J.**; Van De Waal, D.; Visser, P.; Huisman, J.: RISING CO₂ CONCENTRATIONS WILL INTENSIFY PHYTOPLANKTON BLOOMS IN EUTROPHIC AND HYPERTROPHIC LAKES* (ID: 25600)
- 11:30 **Eberlein, T.**; Van de Waal, D. B.; John, U.; Rost, B.: HARMFUL ALGAL BLOOMS UNDER GLOBAL CHANGE: INTERACTIVE EFFECTS OF OCEAN ACIDIFICATION AND NUTRIENT LIMITATION ON TWO DINOFLAGELLATE SPECIES (ID: 26785)
- 11:45 **Griffith, A. W.**; Gobler, C. J.: EFFECTS OF TEMPERATURE ON THE GROWTH AND TOXICITY OF THE DINOFLAGELLATE, *COCHLODINIUM POLYKRIKOIDES*. (ID: 27290)
- Location: Andalucia 1 (Floor 1)
- 17:00 **Gallego, I.**; Brasil, J.; Huszar, V.; Attayde, J. L.; Fuentes-Rodríguez, F.; Juan, M.; Pérez-Martínez, C.; Sánchez-Castillo, P. M.; Casas, J. J.: GLOBAL WARMING AND EUTROPHICATION INDUCE SHIFTS FROM CHLOROPHYCEANS TO CYANOBACTERIAL DOMINANCE IN SEMI-ARID TEMPERATE CLIMATE (ID: 26166)

* REPRESENTS TUTORIAL PRESENTATIONS

17:15	Rigosi, A. ; Carey, C. C.; Ibelings, B. W.; Brookes, J. D.: CYANOBACTERIA: CAN NUTRIENT REDUCTION OFFSET TEMPERATURE INCREASE? (ID: 25406)	11:15	Ye, H. ; Beamish, R. J.; Glaser, S. M.; Grant, S. C.; Hsieh, C. H.; Richards, L. J.; Schnute, J. T.; Sugihara, G.: APPARENT REGIME SHIFTS OR NONLINEAR STATE-DEPENDENCE? ENVIRONMENTAL DRIVERS OF FRASER RIVER SOCKEYE SALMON RECRUITMENT (ID: 27646)
17:30	Johnson, A. N. ; Parker, A.; Wilkerson, F.: CLIMATE CHANGE EFFECTS ON THE SAN FRANCISCO ESTUARY DELTA PHYTOPLANKTON COMMUNITY: THE ROLE OF TEMPERATURE AND SALINITY TOLERANCE ON GROWTH (ID: 26407)	11:30	Soudijn, F. H. ; Heino, M.; Dieckmann, U.; de Roos, A. M.: COLLAPSES OF LARGE PISCIVOROUS FISH POPULATIONS DUE TO OVERFISHING CAN BE PREVENTED AND REVERSED BY HARVESTING THEIR PREY (ID: 25538)
17:45	Ralston, D. K. ; Brosnahan, M. L.; Anderson, D. M.: USING GROWING DEGREE DAYS TO COLLAPSE INTERANNUAL VARIABILITY IN THE DEVELOPMENT AND DECLINE OF AN ESTUARINE HARMFUL ALGAL BLOOM (ID: 26127)	11:45	Den Haan, J. ; Visser, P. M.; Brocke, H. J.; Pander, J.; Brunner, R.; De Wit, M.; Mes, D.; De Baat, M. L.; Vermeij, M. J.; Huisman, J.: SHIFTS IN PRIMARY PRODUCTIVITY DURING THE TRANSITION FROM CORAL TO ALGAL DOMINANCE IN A REEF COMMUNITY (ID: 25423)
18:00	Cembella, A. D. ; John, U.; Krock, B.; Tillmann, U.; Westphal, S.; Koch, B.; Wohlrab, S.; Zielinski, O.: DEFINING EMERGING BIOGEOGRAPHICAL PATTERNS OF HARMFUL ALGAL BLOOMS ASSOCIATED WITH GLOBAL CHANGE REGIMES IN ARCTIC AND SUB-ARCTIC COASTAL SYSTEMS* (ID: 27337)	15:00	Khouri, R. S. ; Beaulieu, C.; Henson, S. A.; Martin, A. P.: SHIFTS IN PHYTOPLANKTON POPULATIONS OF THE NORTHEAST ATLANTIC AND NORTH SEA (ID: 25839)
026 REGIME SHIFTS IN LAKES, RIVERS, AND OCEANS		15:15	Bennett, S. ; Wernberg, T.; Harvey, E.; Santana-Garcon, J.; Saunders, B.: TROPICAL HERBIVORES: DRIVERS OR PASSENGERS OF CLIMATE MEDIATED PHASE-SHIFTS ON TEMPERATE REEFS? (ID: 26498)
Chair(s): David Seekell, das9xx@virginia.edu Vasilis Dakos, vasilis.dakos@gmail.com Jessica Gephart, jag5sa@virginia.edu		15:30	Ross, O. N. ; Fraysse, M.; Pinazo, C.; Pairaud, I.: HOW INTRUSIONS OF THE NORTHERN CURRENT LEAD TO REGIME SHIFTS IN THE BIOGEOCHEMISTRY OF THE GULF OF LION (ID: 27220)
Location: Room B (Floor -3)		15:45	Carballeira, R. ; Vázquez-Loureiro, D.; López-Rodríguez, M. C.; Otero, X. L.; Blanco, R.; Bao, R.; Leira, M.: REGIME SHIFTS, TRENDS AND INTERANNUAL VARIATIONS IN SHALLOW LAGOON IN NW SPAIN (ID: 26927)
08:30	Verbeek, L. ; Vanhamel, M.; Striebel, M.; De Meester, L.; Hillebrand, H.: STABILIZING EFFECTS OF PHYTOPLANKTON DIVERSITY IN SMALL FARMLAND PONDS (ID: 26815)	16:00	Barquín, J. ; Álvarez-Martínez, J. M.; Álvarez-Cabria, M.; Peñas, F. J.; Silió, A.; Rodríguez-Castillo, T.; González, A. M.; Estévez, E.; Lezcano, M.: FORESTS CONFER RESILIENCE TO THE FUNCTIONING OF RIVER ECOSYSTEMS (ID: 26898)
08:45	Ishikawa, K. ; Haga, H.: CHANGES IN THE ECOSYSTEM OF THE SOUTH BASIN OF LAKE BIWA: FOCUS ON ALGAL BLOOMS AND SUBMERGED MACROPHYTE OVERGROWTH (ID: 26512)	16:15	Robinson, C. T. ; Scheurer, T.; Ortlepp, J.: EXPERIMENTAL FLOWS INCREASE RESILIENCE OF A REGULATED RIVER TO CATASTROPHIC DISTURBANCE (ID: 25753)
09:00	Ives, S. C. ; May, L.; Heal, K. V.; Elliott, A.; Spears, B. M.: INVESTIGATING MULTIPLE CRITICAL TRANSITIONS IN LOCH LEVEN (1968-2013) (ID: 26775)	17:15	Thoms, M. C. ; Cossart, R.: REGIME SHIFTS IN A TERMINAL FLOODPLAIN WETLAND COMPLEX (ID: 27071)
09:15	Shatwell, T. ; Adrian, R.; Kirillin, G.: CARDINAL PLANKTON EVENTS MEDIATE MIXING REGIME SHIFTS IN TEMPERATE SHALLOW LAKES (ID: 27393)	17:30	Stips, A. K. ; Macias, D.; Lilover, M. J.: REPRODUCIBLE DETECTION OF REGIME SHIFTS (ID: 26141)
09:30	Martinez, G. ; Sotomayor, D.; Santos, C.; Macciavelli, R.: NUMERIC NUTRIENT CRITERIA FOR RESERVOIRS IN PUERTO RICO: AN ASSESSMENT BASED ON DESIGNATED USE IMPAIRMENT (ID: 25855)	17:45	Lucena-Moya, P. ; Brawata, R.; Kath, J.; Harrison, E.; ElSwah, S.; Dyer, F.: THRESHOLD ESTIMATES TO FACE CHALLENGES IN BAYESIAN NETWORKS (ID: 26325)
09:45	Rippey, B. ; Macintosh, K.; Forasacco, E.; McElarney, Y.; Vaughan, L.; Gallagher, K.: A NEW FRAMEWORK FOR LAKE ECOLOGICAL CHANGE DUE TO EUTROPHICATION (ID: 25993)	028 THE BLACK BOXES HAVE JUST BEEN OPENED: LINKING ORGANIC MATTER COMPOSITION AND MICROBIAL DIVERSITY IN AQUATIC ENVIRONMENTS	
10:30	Gsell, A. S. ; Dakos, V.; Özkundakci, D.; Hansson, L. A.; Nöges, P.; Reid, P. C.; Schindler, D. E.; Van Donk, E.; Walters, A.; Adrian, R.: EARLY WARNING SIGNALS PRECEDE CRITICAL TRANSITIONS IN NATURAL AQUATIC ECOSYSTEMS (ID: 26028)	Chair(s): Eva Ortega-Retuerta, ortegaretuerta@icm.csic.es Jutta Niggemann, jutta.niggemann@uni-oldenburg.de Hans Peter Grossart, hgrossart@igb-berlin.de Ingrid Obernosterer, ingrid.obernosterer@obs-banyuls.fr Lihini Aluwihare, aluwihare@ucsd.edu	
10:45	Pace, M. L. ; Batt, R. D.; Buelo, C.; Carpenter, S. R.; Cole, J.; Kurtzweil, J. T.; Wilkinson, G. M.: EARLY WARNINGS OF PHYTOPLANKTON BLOOMS? A WHOLE LAKE EXPERIMENT (ID: 25633)	Location: Machuca (Floor -2)	
11:00	Dakos, V.; Glazer, S. M.; Hsieh, C. ; Sugihara, G.: NONLINEARITY, VARIABILITY, AND AUTOCORRELATION AS SIGNATURES OF CRITICAL TRANSITIONS IN THE DYNAMICS OF EXPLOITED POPULATIONS (ID: 25996)	10:30	Orellana, M. V. ; Baliga, N. S.: MICROBIAL ECOLOGY AND OCEAN BIOGEOCHEMISTRY: A SYSTEMS PERSPECTIVE (ID: 26467)
		10:45	Kujawinski, E. B. ; Longnecker, K.; Johnson, W.; Fiore, C. L.; Furtelle, J.: IDENTIFICATION OF NOVEL MICROBIAL METABOLITES IN THE OCEAN (ID: 27612)

FRIDAY

- 11:00 **Mayali, X.**; Weber, P. K.; Bryson, S.; Pan, C.; Pett-Ridge, J.; Hettich, R.; Mueller, R.: THE USE OF STABLE ISOTOPE SUBSTRATES TO LINK MICROBIAL POPULATIONS WITH THEIR DOM INCORPORATION PATTERNS USING NANOSIMS AND MICROARRAYS (CHIP-SIP) (ID: 27625)
- 11:15 **Hoarfrost, A.**; Arnosti, C.: MICROBIAL EXTRACELLULAR ENZYMATIC HYDROLYSIS OF ORGANIC CARBON ALONG DEPTH AND LATITUDINAL GRADIENTS IN THE SOUTH ATLANTIC (ID: 26223)
- 11:30 **Borrull, E.**; Aparicio-Bernat, F. L.; Antequera, C.; Marrasé, C.; Gasol, J. M.; Sala, M. M.: SEASONAL PATTERNS OF FREE-LIVING AND ATTACHED BACTERIAL ACTIVITY IN THE COASTAL NW MEDITERRANEAN (ID: 26870)
- 11:45 **Mestre, M.**; Gasol, J. M.; Sala, M. M.: SEASONAL CHANGES IN THE BACTERIAL COMMUNITIES INHABITING PARTICULATE MATTER OF DIFFERENT SIZES (ID: 26326)
- 15:00 **Amaral, V.**; Graeber, D.; Calliari, D.; Alonso, C.: MAJOR GROUPS OF AQUATIC BACTERIA RESPOND TO DIFFERENT DOM COMPONENTS IN A SUBTROPICAL ESTUARY (ID: 27283)
- 15:15 **Aparicio-Bernat, F. L.**; Borrull, E.; Romero, E.; Nieto-Cid, M.; Stedmon, C. A.; Gasol, J. M.; Marrasé, C.: MECHANISMS DRIVING THE FATE OF THE ORGANIC MATTER IN DEEP SEA WATERS: QUALITY AND QUANTITY OF THE SUBSTRATES (ID: 25823)
- 15:30 **Marrase, C.**; Aparicio-Bernat, F. L.; Borrull, E.; Romero, E.; Nieto-Cid, M. M.; Gasol, J. M.; Cortes, N.; Caixach, J.; Sala, M. M.; Rios, A. F.: TOTAL DOM REMINERALIZATION IN THE OCEAN: IS IT POSSIBLE? (ID: 27492)
- 15:45 Logue, J. B.; Stedmon, C. A.; Kellerman, A. M.; Nielsen, N. J.; Laudon, H.; **Lindström, E. S.**; Kritzberg, E. S.: THE SIGNIFICANCE OF AQUATIC BACTERIAL COMMUNITY COMPOSITION TO THE DEGRADATION OF TERRESTRIALLY-DERIVED DISSOLVED ORGANIC MATTER (ID: 27012)
- 16:00 **Simon, M.**; Wemheuer, B.; Meier, D.; Klempert, P.; Wemheuer, F.; Billerbeck, S.; Giebel, H. A.; Scherber, C.; Daniel, R.: DIFFERENT ENVIRONMENTAL AND BIOGEOCHEMICAL ADAPTATION OF TOTAL AND ACTIVE BACTERIOPLANKTON COMMUNITIES ACROSS A LATITUDINAL GRADIENT IN THE NORTH SEA (ID: 26243)
- 16:15 **Osterholz, H.**; Singer, G.; Wemheuer, B.; Daniel, R.; Meinhard, S.; Niggemann, J.; Dittmar, T.: TERRIGENOUS INPUT AND MICROBIAL PROCESSING – DRIVING FORCES OF DISSOLVED ORGANIC MATTER COMPOSITION IN THE NORTH SEA (ID: 25464)
- 17:00 **Wegley Kelly, L.**; Nelson, C. E.; Haas, A. F.; Smith, J. E.; Carlson, C. A.; Rohwer, F.: TAXONOMIC AND FUNCTIONAL GENE ANALYSIS OF THE MICROBIAL COMMUNITIES STIMULATED BY THE DOM RELEASED FROM THREE BENTHIC CORAL REEF PRIMARY PRODUCERS (ID: 27671)
- 17:15 **Fox, C.**; Lewicki, J. P.; Hussain, A.; Burdige, D.; Magen, C.; Chanton, J.; Komada, T.: CHARACTERIZATION OF WHOLE POREWATER DISSOLVED ORGANIC MATTER IN ANOXIC SEDIMENTS BY 1H NMR (ID: 25755)
- 17:30 **Mayr, M.**; Sieczko, A.; Demeter, K.; Besemer, K.; Teubner, I.; Meisterl, K.; Peduzzi, P.: FACTORS DRIVING THE BACTERIOPLANKTON COMMUNITY COMPOSITION IN A DANUBE FLOODPLAIN (AUSTRIA) (ID: 26952)
- 17:45 **Singer, G. A.**; Besemer, K.; Wilhelm, L.; Dittmar, T.; Battin, T. J.: LINKING HIGH RESOLUTION DESCRIPTIONS OF DISSOLVED ORGANIC MATTER AND MICROBIAL COMMUNITY COMPOSITION IN ALPINE STREAM ENVIRONMENTS (ID: 27540)
- 18:00 **Steen, A. D.**; Murray, P. J.; Ferriero, N.; Malcolm X Shabazz Aquatic Geochemistry Team, ; Rosalsky, J.; Mulligan, K. H.; Hagen, S. M.; Ziervogel, K.; Lloyd, K. G.: ACTIVITIES OF EXTRACELLULAR PEPTIDASES ACROSS AQUATIC ENVIRONMENTS: DO DIVERSE HETEROTROPHIC COMMUNITIES SHARE SIMILAR TASTES? (ID: 27400)
- 18:15 **del Giorgio, P. A.**; Hutchins, R.; Ruiz Gonzalez, C.; Niño, J. P.; Dittmar, T.; Stubbins, A.: PATTERNS IN BACTERIA AND MOLECULES ALONG THE TERRESTRIAL-AQUATIC CONTINUUM IN BOREAL AQUATIC NETWORKS (ID: 27333)

029 WHEN, AND WHY THEN? PHENOLOGY AND EVOLUTIONARY ADAPTATIONS TO SEASONALITY IN AQUATIC ECOSYSTEMS

- Chair(s): Oystein Varpe, oystein.varpe@unis.no
Monika Winder, monika.winder@su.se
- Location: Seminario 6-7 (Floor 1)
- 08:30 **Atkinson, A.**; Harmer, R. A.; Widdicombe, C. E.; McEvoy, A. J.; Smyth, T. J.; Cummings, D. G.; Somerfield, P. J.; Maud, J. L.; McConville, K.: QUESTIONING THE ROLE OF PHENOLOGY SHIFTS AND TROPHIC MISMATCH IN A PLANKTONIC FOOD WEB (ID: 26198)
- 08:45 **Mackay, E. B.**; Thackeray, S. J.; Henrys, P.: UNDERSTANDING PHYTOPLANKTON COMMUNITY PHENOLOGY: CREATING A LONG TERM INDEX OF SEASONAL TIMING RELATED TO TRAITS AND PHYSICAL DRIVERS (ID: 26794)
- 09:00 **Kuhn, A. M.**; Fennel, K.; Mattern, J. P.: MODEL INVESTIGATIONS OF THE NORTH ATLANTIC SPRING BLOOM INITIATION (ID: 25442)
- 09:15 **Zarubin, M.**; Lindemann, Y.; Genin, A.: MIXING, CRITICAL DEPTH AND SPRING PHYTOPLANKTON BLOOM IN A DEEP-MIXING OLIGOTROPHIC SEA (ID: 25468)
- 09:30 **Hylander, S.**; Kiørboe, T.; Snoeijns Leijonmalm, P.; Sommaruga, R.; Nielsen, T. G.: IS THERE A TRADE-OFF BETWEEN FEEDING AND UV-EXPOSURE IN CALANUS SPECIES DURING THE ARCTIC SPRING BLOOM? (ID: 26814)
- 09:45 **Arnott, S. E.**; Nelson, W. A.; Grubb, L.: CONNECTING LIFE-HISTORY TRAITS TO ECOSYSTEM FUNCTION TO UNDERSTAND LAKE RESPONSE TO CLIMATE CHANGE (ID: 25880)
- 10:30 **Dam, H. G.**; Finiguerra, M.; Cournoyer, B.; Avery, D.: PREDICTING RESPONSE TO WARMING IN THE COPEPOD GENUS ACARTIA: INTERPLAY OF PLASTICITY AND CLIMATOLOGY (ID: 27298)
- 11:00 **Ejsmond, M. J.**; McNamara, J. M.; Søreide, J.; Varpe, Ø.: EXPLAINING BODY SIZE AND REPRODUCTION OF THE COPEPODS CALANUS spp.: PREDICTIONS FROM A LIFE HISTORY MODEL (ID: 27420)
- 11:15 **Halvorsen, E.**: SIGNIFICANCE OF LIPID STORAGE LEVELS FOR REPRODUCTIVE OUTPUT IN THE ARCTIC COPEPOD CALANUS HYPERBOREUS (ID: 26647)

- 11:30 **Freese, D.**; Søreide, J. E.; Sartoris, F. J.; Niehoff, B.: INDICATION FOR THE TIMING OF DIAPAUSE - SEASONAL DEVELOPMENT OF METABOLIC ACTIVITY IN THE ARCTIC COPEPOD *CALANUS GLACIALIS* (ID: 26904)
- 11:45 **Mattfeldt, T.**; Teschke, M.; Waller, N.; Kawaguchi, S.; Meyer, B.: INCREASED SEAWATER TEMPERATURES CAUSE TEMPORAL SHIFTS IN CATABOLIC PATHWAYS OF ANTARCTIC KRILL *EUPHAUSIA SUPERBA* (ID: 27500)
- 031 RESTORATION OF LAKES, RESERVOIRS, AND COASTAL ECOSYSTEMS BY REDUCING INTERNAL NUTRIENT RECYCLING**
- Chair(s): Henning S. Jensen, hsj@biology.sdu.dk
Inmaculada de Vicente, ivicente@ugr.es
Brian Huser, brian.huser@slu.se
Michael Hupfer, hupfer@igb-berlin.de
Martin Sondergaard, ms@dmu.dk
Frede O. Andersen, foa@biology.sdu.dk
- Location: Seminario 6-7 (Floor 1)
- 15:00 **Spears, B. M.**: CONTROLLING INTERNAL PHOSPHORUS LOADING IN LAKES USING GEO-ENGINEERING: LESSONS FROM MULTIPLE WHOLE LAKE EXPERIMENTS (ID: 26920)
- 15:15 **Lürling, M.**; Waajen, G.; Maliaka, V.; Van Oosterhout, F.: A FLOCK & LOCK TECHNIQUE TO CONTROL INTERNAL LOADING (ID: 26142)
- 15:30 **Waajen, G.**; Lürling, M.: FLOCK & LOCK TECHNIQUE TO CONTROL INTERNAL PHOSPHORUS LOADING: MORE THAN FIVE YEARS EXPERIENCE FROM A WHOLE-LAKE APPLICATION (ID: 26196)
- 15:45 **van Oosterhout, F.**; Lürling, M.: EFFECTIVENESS, DURABILITY AND TOXICOLOGY OF THE PAC -LMB FLOCK & LOCK IN LAKE RAUWBRAKEN (ID: 26035)
- 16:00 **Reitzel, K.**; Nielsen, U. G.; Dithmer, L.: PHOSPHATE REMOVAL BY PHOSLOCK – EFFECTS OF DISSOLVED ORGANIC CARBON (ID: 26077)
- 16:15 **de Vicente, I.**; de Vicente, J.; Funes, A.; Merino Martos, A.; Alvarez-Manzaneda Salcedo, M. I.; Cruz Pizarro, L.: NEW ADSORBENTS FOR REMOVING PHOSPHORUS FROM AQUEOUS SOLUTIONS: THE CASE OF MAGNETIC MICROPARTICLES (ID: 25610)
- 17:00 **Riemann, B.**; Carstensen, J.; Dahl, K.; Fossing, H.; Hansen, J. W.; Jakobsen, H. H.; Josefson, A.; Krause-Jensen, D.; Markager, S.; Stæhr, P. A.: RECOVERY OF DANISH COASTAL ECOSYSTEMS AFTER REDUCTIONS IN NUTRIENT LOADING: TRENDS AND TIME LAGS (ID: 25530)
- 17:15 **Vonk, J. A.**; Admiraal, W.; Van der Geest, H. G.: SEDIMENT'S HISTORY DEFINES LAKE'S FUTURE: LONG-TERM DEVELOPMENT OF SHALLOW RESERVOIRS IN RIVER DELTAS (ID: 27558)
- 17:30 **Rydin, E.**; Kumblad, L.: WATER COLUMN NUTRIENT RESPONSES TO DISSOLVED ALUMINUM INJECTION INTO ANOXIC BALTIC SEA SEDIMENT (ID: 25473)
- 17:45 **Hupfer, M.**; Lewandowski, J.; Kleeberg, A.; Reitzel, K.: LONG-TERM EFFICIENCY OF A LAKE RESTORATION BY CHEMICAL PHOSPHORUS PRECIPITATION: SCENARIO ANALYSES WITH A PHOSPHORUS BALANCE MODEL (ID: 26802)
- 18:00 **Søndergaard, M.**; Bjerring, R.; Jeppesen, E.: IMPACT OF BIOLOGICAL STRUCTURE ON INTERNAL NUTRIENT CYCLING IN SHALLOW LAKES (ID: 26583)

- 18:15 **Jensen, H. S.**; Hupfer, M.; Huser, B.; Søndergaard, M.; Vicente, I.; Reitzel, K.; Andersen, F. Ø.: RESTORATION OF LAKES AND RESERVOIRS BY REDUCING INTERNAL NUTRIENT RECYCLING – SOME DIRECTIONS FOR FUTURE RESEARCH (TUTORIAL) (ID: 26743)

033 THE ROLE OF NATURAL ECOSYSTEMS IN COASTAL PROTECTION: MECHANISMS, QUANTIFICATION AND APPLICATION

- Chair(s): Iris Moeller, im10003@cam.ac.uk
Inigo Losada, losada@unican.es
Tjeerd Bouma, Tjeerd.Bouma@nioz.nl
Mindert de Vries, Mindert.deVries@deltas.nl
Bregje van Wesenbeeck, Bregje.vanWesenbeeck@deltas.nl
Edward P. Morris, edward.morris@uca.es
- Location: Seminario 3-4-5 (Floor 1)
- 08:30 **Moeller, I.**: THE COASTAL PROTECTION FUNCTION OF SALT MARSHES: CONSIDERING BIO-PHYSICAL COMPLEXITY (ID: 25604)
- 08:45 **Osorio-Cano, J. D.**; Alcerreca-Huerta, J. C.; Zapata, L. M.; Osorio-Arias, A. F.; Toro, F. M.; Oumeraci, H.: NUMERICAL MODELLING OF WAVE ENERGY DISSIPATION OVER A SUBMERGED REEF, STUDY CASE: TESORO ISLAND, COLOMBIA (ID: 26301)
- 09:00 **Temmerman, S.**; Smolders, S.; Stark, J.; Bouma, T. J.; Meire, P.: ECOSYSTEM-BASED ADAPTATION TO INCREASING COASTAL FLOOD RISKS: LOCAL INSIGHTS AND GLOBAL POTENTIALS* (ID: 26013)
- 09:15 **Vanegas Giraldo, C. A.**; Osorio Arias, A. F.; Urrego Giraldo, L. E.; Toro Botero, F. M.; Osorio Cano, J. D.: WAVE DISSIPATION ACROSS RHIZOPHORA MANGROVE PATCH AT ISLA GRANDE, COLOMBIA (ID: 26896)
- 09:30 **van Wesenbeeck, B. K.**; de Boer, W.; Narayan, S.; van der Star, W. R.; de Vries, M. B.: COASTAL AND RIVERINE ECOSYSTEMS AS ADAPTIVE FLOOD DEFENSES UNDER A CHANGING CLIMATE (ID: 25784)
- 09:45 **Ondiviela, B.**; Losada, I. J.; Maza, M.; Javier, L. L.; Bouma, T.; Trinogga, J.; Juanes, J. A.; Puent, A.: ECOHYDRAULICS MODELLING OF LIVING PLANTS FOR WAVE AND CURRENT ATTENUATION: GUIDELINES AND RECOMMENDATIONS (ID: 26682)
- 10:30 **Losada, I. J.**; Maza, M.; Lara, J. L.; Bouma, T.; Ondiviela, B.; Trinogga, J.: COASTAL PROTECTION SERVICES BY SALT MARSHES: A LARGE-SCALE EXPERIMENTAL ANALYSIS (ID: 26729)
- 10:45 **van der Vegt, M.**; Donker, J.; van der Deijl, E.; Hoekstra, P.: ENHANCED WAVE ATTENUATION BY MUSSEL BEDS SIGNIFICANT FOR ITS OWN SURVIVAL (ID: 27365)
- 11:00 **Morris, E. P.**; Caballero, I.; Benavente, J.; Navarro, G.; Bouma, T.; Peralta, G.: COASTAL MACROPHYTES CONTRIBUTE TO THE LONG TERM GEOMORPHOLOGICAL STABILITY OF CADIZ BAY (ID: 26892)
- 11:15 **Bergillos, R. J.**; Serrano, M. A.; Ortega-Sánchez, M.; López-Ruiz, A.; Lobo, F. J.; Losada, M. A.: THE ROLE OF COMPLEX INNER SHELF BATHYMETRY IN COASTAL PROTECTION: THE CARCHUNA SYSTEM (GRANADA, SPAIN) (ID: 25797)
- 11:30 **Bouma, T. J.**; van Belzen, J.; Balke, T.; Callaghan, D. P.; Temmerman, S.; Herman, P. M.: SHORT-TERM MUDFLAT DYNAMICS DRIVE LONG-TERM CYCLIC SALT MARSH DYNAMICS: UNDERLYING MECHANISMS & IMPLICATIONS FOR COASTAL DEFENSE (ID: 26389)

FRIDAY

* REPRESENTS INVITED PRESENTATIONS

- 11:45 **Rodil, I. F.**; Jaramillo, E.; Hubbard, D. M.; Dugan, J. E.; Melnick, D.; Velasquez, C.: INTERACTION BETWEEN EXTREME EVENTS AND COASTAL ARMOURING ON DUNE PLANT COMMUNITIES: THE 2010 MAULE EARTHQUAKE IN CENTRAL CHILE* (ID: 26284)
- 15:00 **Wamsley, T. V.**: QUANTIFYING THE CONTRIBUTION OF NATURAL ECOSYSTEMS IN COASTAL RISK REDUCTION* (ID: 27275)
- 15:15 **Tintore Parra, A.**; Reyes Merlo, M. A.; Jimenez Robles, A. M.; Ortega Sanchez, M. O.; Losada Rodriguez, M. A.: MANAGEMENT STRATEGIES FOR HIGHLY ALTERED ESTUARIES: THE CASE OF PUNTA UMBRIA (HUELVA, SPAIN). (ID: 26139)
- 15:30 **Venn, C.**; Whisner, J. B.; Mattesini, M. M.; McElhaney, D.; Cornell, S. R.: ESTABLISHMENT OF A HYDROLOGIC NETWORK TO MONITOR THE EFFECTS OF SEA-LEVEL CHANGE ON VEGETATION IN A MID-ATLANTIC SALT MARSH NEAR WALLOPS ISLAND, VIRGINIA, USA (ID: 27090)
- 15:45 **Ibáñez, C.**; Callaway, J.; Fennessy, S.; Caiola, N.: THE RESPONSE OF DELTAIC WETLANDS TO RELATIVE SEA LEVEL RISE: NATURAL MECHANISMS AND MANAGEMENT OPTIONS IN MEDITERRANEAN ECOSYSTEMS (ID: 26772)
- 16:00 **Mattesini, M. M.**; Venn, C.; Whisner, J. B.; Shepard, M.: ASSESSING SALT MARSH VEGETATION AND QUANTIFYING THE EFFECTS OF STORMS AND SEA LEVEL RISE IN COASTAL VIRGINIA, USA, USING SATELLITE IMAGERY (ID: 27121)
- 16:15 **De Vries, M. B.**; Van Der Wal, D.; Moller, I.; Van Wesenbeeck, B. K.; Peralta, G.; Morris, E. P.; Smith, G.; Bouma, T. J.: PREDICTION OF FLOOD PROTECTION SERVICES DELIVERED BY FORESHORE ECOSYSTEMS USING SPACE BASED SENSORS (ID: 25696)

041 LAKE ICE DYNAMICS: HYDROLOGY OF COLD WATER BODIES

Chair(s): Klaus D. Joehnk, klaus.joehnk@csiro.au
 Nihar R. Samal, samalnr@gmail.com
 Matti Lepparanta, matti.lepparanta@helsinki.fi
 Donald C. Pierson, dprierson@dep.nyc.gov

Location: Press Room (Floor 2)

- 15:00 **Duguay, C. R.**; Surdu, C.: MONITORING ICE COVER ON SHALLOW ARCTIC LAKES WITH REMOTE SENSING: THE WAY FORWARD* (ID: 25652)
- 15:15 **Surdu, C. M.**; Duguay, C. R.; Fernández Prieto, D.: EVIDENCE OF RECENT CHANGES IN THE ICE REGIME OF HIGH ARCTIC LAKES FROM SPACEBORNE SATELLITE OBSERVATIONS (ID: 27249)
- 15:30 **Kouraev, A. V.**; Zakhарова, Е. А.; Науменко, М. А.; Shimaraev, M. N.; Kostianoy, A. G.; Suknev, A. Y.; Remy, F.: ICE AND SNOW REGIME OF EURASIAN WATER BODIES FROM SATELLITE AND IN SITU OBSERVATIONS (ID: 26115)
- 15:45 **Kirillin, G. B.**: CIRCULATION IN ICE-COVERED FRESHWATER LAKES.* (ID: 26129)
- 16:00 **Lindgren, E. A.**; Leppäranta, M.; Kokkonen, T.: TRANSMISSION OF SOLAR RADIATION THROUGH MELTING ICE IN AN ARCTIC LAKE (ID: 25488)
- 16:15 **Boehrer, B.**; Klaveness, D.; Fukuyama, R.; Rahn, K.; Golmen, L.; Løvik, J. E.; Chikita, K.: THERMOBARIC STRATIFICATION IN LAKES (ID: 26987)

- 17:00 **Tominaga, K.**; Andersen, T.; Blumentrath, S.; Englund, G.; Finstad, A. G.; Hessen, D. O.; Laken, B. A.; Larsen, S.; Stordal, F.; Yang, H.: PHYSICAL STATUS OF LAKES IN NORTHERN EUROPE FOR THE NEXT 100 YEARS (ID: 27306)
- 17:15 **Obryk, M. K.**; Doran, P. T.; Hicks, J. A.; McKay, C. P.; Priscu, J. C.: PERENNIAL ICE COVERS ON STRATIFIED LAKES OF THE TAYLOR VALLEY, ANTARCTICA: RESPONSE TO CHANGING CLIMATE (ID: 25909)
- 17:30 **Lyons, W. B.**; Welch, K. A.; Fair, A. C.; Webster-Brown, J.; Dowling, C. B.; Doran, P. T.; Priscu, J. C.: USING THE GEOCHEMISTRY OF ANTARCTIC LAKES AS INDICATORS OF RECENT CLIMATIC VARIATION (ID: 26248)
- 17:45 **Shadrina, A.**; Fedorova, I.; Golosov, S.; Boike, J.: THERMAL REGIME OF ARCTIC LAKES FOR INSTANCE THE RIVER LENA DELTA, YAKUTIA, RUSSIA (ID: 27758)
- 18:00 **Fedorova, I. V.**; Chetverova, A. A.; Frolova, L. A.; Dmitriev, V. V.; Morgenstern, A.; Shumskaya , N. K.; Skoroperekhova, T. V.; Bobrova, O. N.; Shadrina, A. A.: EMERGENCE OF THE POLAR LIMNOSYSTEMS AS A RESULT OF CHANGES IN PALEOECOLOGICAL AND CURRENT INFLUENCES (ID: 27233)
- 18:15 **Doran, P. T.**; Mikucki, J. A.; Tulaczyk, S.; Priscu, J. C.; Obryk, M. K.; Dugan, H. A.; Virginia, R. A.; Auken, E.: NEW OBSERVATIONS OF HYDROLOGIC CONNECTIVITY IN MCMURDO DRY VALLEY LAKES (ID: 25919)

047 AQUATIC CHEMICAL ECOLOGY - HOW ORGANIC COMPOUNDS REGULATE TROPHIC INTERACTIONS

- Chair(s): Patrick Fink, patrick.fink@uni-koeln.de
 Alexander Wacker, wackera@uni-potsdam.de
- Location: Room D (Floor -3)
- 08:30 **Selander, E.**; Kubanek, J.; Hamberg, M.; Andersson, M.; Cervin, G.; Pavia, H.: CHEMICAL SIGNALS -MODULATING FOOD WEBS BEYOND DIRECT TROPHIC INTERACTIONS ^t (ID: 27171)
- 09:00 **Berglund, C.**; Selander, E.: THE CHEMICAL FINGERPRINT OF COPEPODS (ID: 27441)
- 09:15 **Wohlrab, S.**; Selander, E.; Dawodu, D.; Iversen, M.; John, U.: INFOCHEMICAL INDUCED TRAIT CHANGES IN ALEXANDRIUM (ID: 27352)
- 09:30 **Butera, E.**; Fink, P.; Di Natale, M.; Mutualipassi, M.; Massa Gallucci, A.; Porzio, L.; Zupo, V.: EPIPHYTE-BORNE VOLATILE INFOCHEMICALS INFLUENCE THE BEHAVIORAL PATTERNS OF SEAGRASS-ASSOCIATED MESOGRAZERS (ID: 25981)
- 09:45 **Fink, P.**; Moelzner, J.: OPTIMIZED FORAGING IN A BENTHIC HERBIVORE MEDIATED BY OXYLIPIN INFOCHEMICALS (ID: 26841)
- 10:30 **Bjørke, O.**; Jonsson, P. R.; Alam, A.; Selander, E.: PHYTOPLANKTON CHAIN FORMATION IS REGULATED TO EVADE PREDATION (ID: 26837)
- 10:45 **Pavia, H.**: CHEMISTRY RELEASES AN INVASIVE SEAWEED FROM NATIVE ENEMIES (ID: 27305)
- 11:00 **Toth, G. B.**: MICROGEOGRAPHICAL DIFFERENCES IN CHEMICALLY MEDIATED ESCAPE RESPONSES IN A SEA STAR (ID: 27374)
- 11:15 Charpentier, C. L.; Cohen, J. H.: FROM CHEMICAL CUE TO PREDATOR AVOIDANCE: HOW FISH KAIROMONES ALTER MARINE ZOOPLANKTON DEFENSE RESPONSES (ID: 26322)

^t REPRESENTS TUTORIAL PRESENTATIONS

11:30	Effertz, C.; Von Elert, E.: LIGHT INTENSITY CONTROLS ANTI-PREDATOR DEFENCES IN DAPHNIA (ID: 25886)	08:30	Moore, C. M.; Snow, J. T.; Achterberg, E. P.; Bibby, T. S.; Mahaffey, C. A.; Mills, M. M.; Schlosser, C.; Woodward, E. M.: ENVIRONMENTAL CONTROL OF DINITROGEN FIXATION OVER MULTIPLE SCALES IN THE ATLANTIC OCEAN* (ID: 26749)
11:45	Laforsch, C.; Herzog, Q. T.: MORPHOLOGICAL PLASTICITY WITH A TWIST: PREDATOR SPECIFIC REVERSIBILITY OF INDUCIBLE DEFENSES IN DAPHNIA BARBATA (ID: 27269)	08:45	Oschlies, A.; Landolfi, A.; Kriest, I.; Somes, C.; Dietze, H.; Koeve, W.: A MODELER'S PERSPECTIVE ON ENVIRONMENTAL CONTROLS OF N2 FIXATION (ID: 26940)
15:00	Martinez-Crego, B.; Weinberger, F.; Santos, R.: ANTI-HERBIVORY CHEMICAL METABOLITES IN THE SEAGRASS CYMODOCEA NODOSA (ID: 25795)	09:00	Granger, J.; Dabundo, R.; Lehmann, M. F.; Moisander, P.; Altabet, M.: THE CONTAMINATION OF COMMERCIAL 15N2 GAS STOCKS WITH 15N-NITRATE AND AMMONIUM – IMPLICATIONS FOR NITROGEN FIXATION MEASUREMENTS (ID: 27072)
15:15	Marzett, V.; Spijkerman, E.; Wacker, A.: DOES INTERSPECIFIC COMPETITION LEAD TO CHANGED COMPOSITION OF ESSENTIAL MINERAL AND BIOCHEMICAL NUTRIENTS IN PHYTOPLANKTON? (ID: 26747)	09:15	Moreira-Coello, V.; Mouríño-Carballido, B.; Marañón, E.; Fernández, A.; Chouciño, P.; Varela, M. M.; Bode, A.: NITROGEN FIXATION IN THE UPWELLING REGION OFF NW IBERIA (ID: 26148)
15:30	Werbrouck, E.; Van Gansbeke, D.; Tiselius, P.; De Troch, M.: EFFECT OF TEMPERATURE RISE ON FIRST-LEVEL CONSUMERS AND THEIR FOOD SOURCES AS REVEALED BY FATTY ACID TROPHIC MARKERS (ID: 25986)	09:30	Fernández Castro, B.; Pahlow, M.; Marañón, M.; Mouríño Carballido, B.; Oschlies, A.: PHOSPHORUS-LIMITED N2 FIXATION IN A FUTURE OCEAN (ID: 26664)
15:45	Schwarzenberger, A.; Koussoroplis, A. M.; Wacker, A.: ADJUSTMENT OF DAPHNIA LIPASES TO DIFFERENCES IN FOOD-QUALITY (ID: 25480)	09:45	Shiozaki, T.; Takeda, S.; Itoh, S.; Kodama, T.; Liu, X.; Hashihama, F.; Furuya, K.: WHY DOES TRICHODESMIUM BECOME ABUNDANT IN THE KUROSHIO? (ID: 25764)
16:00	Denoux, C.; Martin-Creuzburg, D.; Koussoroplis, A. M.; Perrière, F.; Desvillettes, C.; Bourdier, G.; Bec, A.: DIETARY PHOSPHOLIPID-BOUND EPA EFFECTS ON SOMATIC GROWTH AND FECUNDITY OF DAPHNIA (ID: 26021)	10:30	Gimenez, A.; Baklouti, M.; Moutin, T.; Berthelot, H.; Bonnet, S.: INVESTIGATING THE FATE OF DIAZOTROPH DERIVED N DURING THE VAHINE MESOCOSM EXPERIMENT USING A MECHANISTIC BIOGEOCHEMICAL MODEL (ID: 26649)
16:15	Parrish, C. C.; Pethybridge, H.; Nichols, P. D.; Young, J. W.: REGIONAL DIFFERENCES IN ESSENTIAL FATTY ACIDS IN ALBACORE TUNA FROM THE SOUTHWESTERN PACIFIC OCEAN AND THE IMPORTANCE OF TEMPERATURE (ID: 26280)	10:45	Devol, A.; Horak, R.; Ingalls, A.; Armbrust, V.; Moffett, J.; Stahl, D.: MEASUREMENTS OF AMMONIA OXIDATION AND NITRITE OXIDATION IN THE NORTH PACIFIC OCEAN (ID: 27424)
17:00	Grzesiuk, M.; Spijkerman, E.; Wacker, A.; Wacker, A.: PHYTOPLANKTON CHRONICALLY EXPOSED TO PHARMACEUTICALS INFLUENCE LIFE HISTORY PARAMETERS OF THEIR CONSUMERS DAPHNIA. (ID: 25407)	11:00	Babbin, A. R.; Peters, B. D.; Mordy, C. W.; Casciotti, K. L.; Ward, B. B.: HIGH-RESOLUTION NITRITE-CENTRIC NITROGEN CYCLING IN THE EASTERN TROPICAL SOUTH PACIFIC (ID: 26417)
17:15	Grace, M. R.; Robson, S. V.; Browne, K. J.: WATERWAYS ON DRUGS – EFFECTS ON KEY ECOSYSTEM PROCESSES (ID: 25947)	11:15	Fuchsman, C. A.; Devol, A. H.; Penn, J.; Deutsch, C.; Ward, B. B.; Rocap, G.: INTEGRATING METAGENOMICS WITH BIOGEOCHEMISTRY TO UNDERSTAND THE DOUBLE N2 MAXIMA IN THE ETNP OXYGEN MINIMUM ZONE (ID: 27473)
17:30	Heynen, M.; Fick, J.; Jonsson, M.; Klaminder, J.; Brodin, T.: FOOD-WEB TRANSFER OF THE NEUROACTIVE PHARMACEUTICAL OXAZEPAM IN FISH AND INVERTEBRATE PREDATORS (ID: 26641)	11:30	Stief, P.; Kamp, A.; Glud, A.; Marzocchi, U.; Birch Lundgaard, A. S.; Thamdrup, B.; Glud, R. N.: SINKING DIATOM AGGREGATES: OVERLOOKED ANAEROBIC HOTSPOTS IN THE MARINE NITROGEN CYCLE (ID: 25771)
17:45	Stoecker, D. K.; Nejstgaard, J. C.; Madhusoodhanan, R.; Pohnert, G.; Wolfram, S.; Jakobsen, H. H.; Larsen, A.: INHIBITION OF MICROZOOPLANKTON GRAZING DURING SKELETONEMA AND PHAEOCYSTIS BLOOMS: FACT OR ARTIFACT? (ID: 25645)	11:45	Grundle, D. S.; Altabet, M. A.; Fiedler, B.; Hauss, H.; Karstensen, J.; Krahmann, G.; Löscher, C.; Schütte, F.; Santos, C.; Kortzinger, A.; Bange, H.: LOW OXYGEN EDDIES: IMPLICATIONS FOR NITROUS OXIDE PRODUCTION (ID: 27092)
18:00	Lavrentyev, P. J.; Franze, G.; Pierson, J. J.; Stoecker, D. K.: DIATOM ALLELOPATHY-INDUCED CASCADING EFFECTS IN PLANKTONIC FOOD WEBS (ID: 27346)	15:00	Dale, A. W.; Sommer, S.; Altabet, M. A.; Bourbonnais, A.; Lomnitz, U.; Wallmann, K.: BIOLOGICAL NITRATE TRANSPORT AND REDUCTION IN SEDIMENTS IN THE PERUVIAN OXYGEN MINIMUM ZONE (ID: 26194)
18:15	Bartual, A.; Vicente-Cera, I.; Prieto, L.: EXPERIMENTAL EVIDENCE THAT DIATOM DERIVED POLYUNSATURATED ALDEHYDES ALTER THE SIZE DISTRIBUTION OF TEPS (ID: 25611)	15:15	Somes, C. J.; Schmittner, A.; Oschlies, A.: ESTIMATING THE CHANGE TO THE GLOBAL OCEANIC FIXED NITROGEN INVENTORY DURING THE LAST GLACIAL MAXIMUM* (ID: 25712)

050 NITROGEN-CYCLE FEEDBACKS: DRIVERS OF CHANGE?

Chair(s): Angela Landolfi, alandolfi@geomar.de
 Wolfgang Koeve, wkoeve@geomar.de
 Valeria Ibello, valeria.ibello@ims.metu.edu.tr

Location: Andalucia 1 (Floor 1)

FRIDAY

15:30	Dekaezemacker, J. ; Loescher, C.; Schunk, H.; Callbeck, C.; Marchant, H.; Kalvelage, T.; Hach, P.; Schmitz-Streit, R.; Kuypers, M. M.; Lavik, G.: THE N BUDGET IN THE COASTAL OMZ OFF PERU: LINKING N2 FIXATION AND N-LOSS (ID: 26547)
15:45	Bonaglia, S. ; Klawonn, I.; De Brabandere, L.; Deutsch, B.; Thamdrup, B.; Brüchert, V.: THE BALTIC SEA OXYCLINE HOSTS A COMPLETE MICROBIAL NITROGEN CYCLE (ID: 27318)
16:00	Kähler, P. ; Koeve, W.: FEEDBACKS IN THE CYCLES OF N AND P IN ANOXIC WATERS – NEGATIVE OR POSITIVE? (ID: 26045)
16:15	Montoya, J. P. ; Weber, S. C.; Fernandez, A.; Lee-Patterson, D. A.; Villareal, T. A.; Bracco, A.; Joye, S. B.: SPILLS, SEEPS, AND CYCLES: METHANE LINKS THE CARBON AND NITROGEN CYCLES THROUGH DIAZOTROPHY (ID: 27212)

060 NEW INSIGHTS AND PERSPECTIVES IN ECOLOGICAL STOICHIOMETRY

Chair(s): Manuel Villar Argaiz, mvillar@ugr.es
Dag Olav Hessen, d.o.hessen@ibv.uio.no

Location: Albeniz (Floor -2)

08:30	Balseiro, E. G. ; Laspoumaderes, C.; Souza, M. S.; Modenutti, B. E.: FOOD QUALITY, UVR AND THE RESPONSE OF HERBIVORES TO GLOBAL CHANGE (ID: 25431)
08:45	Lomas, M. W. ; Baer, S. E.; Talarmin, A.; Mouginot, C.; Terpis, K. X.; Martiny, A. C.: REGIONAL VARIATION IN PHYTOPLANKTON STOICHIOMETRY (ID: 25487)
09:00	Baer, S. E. ; Lomas, M. W.; Terpis, K. X.; Mouginot, C.; Martiny, A. C.: STOICHIOMETRY OF PHYTOPLANKTON POPULATIONS IN THE NORTH ATLANTIC OCEAN (ID: 25489)
09:15	Spilling, K. ; Kremp, A.; Klais, R.; Camarena, T.; Lipsewers, T.; Olli, K.; Tamminen, T.: CHANGE IN PHYTOPLANKTON COMMUNITY COMPOSITION MODIFIES CARBON PATHWAYS AND C : N : P : CHL-A STOICHIOMETRY OF COASTAL MATERIAL FLUXES (ID: 25496)
09:30	Arteaga, L. ; Pahlow, M.; Oschlies, A.: CHANGES IN PHYTOPLANKTON STOICHIOMETRY INFERRED FROM AN OPTIMALITY-BASED MODEL (ID: 25617)
09:45	Garcia, N. S. ; Martiny, A. C.: GROWTH MODULATION OF ELEMENTAL STOICHIOMETRY AND NUCLEIC ACID COMPOSITION OF MARINE SYNECHOCOCCUS (ID: 25644)
10:30	Sperfeld, E. ; Clissold, F. J.; Halvorson, H. M.; Malishev, M.; Wagner, N. D.: NUTRITIONAL ECOLOGY - SCALING ANIMALS TO ECOSYSTEMS USING NUTRITIONAL GEOMETRY AND ECOLOGICAL STOICHIOMETRY (ID: 25663)
10:45	Burson, A. ; Stomp, M.; Akil, L.; Brussaard, C. P.; Huisman, J.: SHIFTS OF THE N:P STOICHIOMETRY OF RIVERINE INPUTS HAVE CREATED AN OFFSHORE GRADIENT FROM PHOSPHORUS TO NITROGEN LIMITATION IN THE NORTH SEA (ID: 25703)
11:00	Nifong, R. L. ; Cohen, M. J.: THE COUPLING OF AUTOTROPHIC STOICHIOMETRY AND ECOSYSTEM FUNCTION (ID: 25723)
11:15	Boersma, M. ; Mathew, K. A.; Niehoff, B.; Schoo, K. L.: TEMPERATURE DRIVEN CHANGES IN DIETARY PREFERENCES IN COPEPODS (ID: 25740)

11:30	Bullejos, F. J. ; Carrillo, P.; Gorokhova, E.; Medina-Sánchez, J. M.; Balseiro, E. G.; Villar-Argaiz, M.: ONTOGENETIC PATTERNS OF CONSUMER GROWTH RESPONSE TO RESOURCE QUALITY: STOICHIOMETRIC “GOLDEN MEANS” IN THE LIFE HISTORY. (ID: 25866)
11:45	Van de Waal, D. B. ; Velthuis, M.; Frenken, T.; Van Donk, E.; De Senerpont Domis, L. N.: COMMUNITY COMPOSITON MATTERS: CONTRASTING EFFECTS OF WARMING AND NUTRIENT LIMITATION ON GROWTH AND STOICHIOMETRY OF PHYTOPLANKTON (ID: 26210)
15:00	Laspoumaderes, C. ; Modenutti, B.; Elser, J.; Balseiro, E.: DOES THE STOICHIOMETRIC CARBON:PHOSPHORUS KNIFE EDGE APPLY FOR PREDACEOUS COPEPODS? (ID: 26275)
15:15	Hessen, D. O. ; Larsen, S.; Andersen, T.: CLIMATE, NITROGEN DEPOSITION AND TERRESTRIAL VEGETATION AS MAJOR DRIVERS OF LAKE DOC AND STOICHIOMETRY (ID: 26299)
15:30	Velasco Ayuso, S. ; Medina-Sánchez, J. M.; Carrillo, P.: EXTRACELLULAR ENZYME ACTIVITIES IN RESPONSE TO UVR AND C:N:P RATIOS IN A HIGH-MOUNTAIN LAKE (ID: 26400)
15:45	Villar-Argaiz, M. ; Rajic, S.; González Olalla, J. M.; Medina-Sánchez, J. M.; Carrillo, P.; Cabrerizo, M. J.: DO ATMOSPHERIC DEPOSITIONS OF NUTRIENTS COMPENSATE FOR THE EFFECTS OF CO ₂ ON THE GROWTH RATE OF <i>DAPHNIA MAGNA</i> ? (ID: 26626)
16:00	Cotner, J. B. ; Godwin, C. M.; Little, A.: BACTERIAL GROWTH AND STOICHIOMETRY IN DIVERSE FRESHWATER TROPHIC REGIMES (ID: 27198)
16:15	Whitaker, E. A. ; Godwin, C. M.; Cotner, J. B.: WHAT IS THE RESOURCE STOICHIOMETRY EXPERIENCED BY HETEROTROPHIC BACTERIA IN AQUATIC ENVIRONMENTS? (ID: 27377)
17:00	Benitez-Nelson, C. R. ; Thunell, R. C.; Pinckney, J.; Lorenzoni, L.; Montes, E.; Muller-Karger, F.; Scranton, M.; Taylor, G.; Varela, R.; Astor, Y.: ELEMENTAL COMPOSITION (C, N AND P) OF SINKING AND SUSPENDED PARTICULATE MATTER IN THE CARIACO BASIN, VENEZUELA (ID: 27446)
17:15	Tromboni, F. ; Zandonà, E.; Lourenço-Amorim, C.; Silva-Junior, E. F.; Feijó de Lima, R.; Neres-Lima, V.; Moulton, T. P.; Gücker, B.; Boéchat, I.; Thomas, S. A.: ASSESSING NUTRIENT LIMITATION IN A PRISTINE TROPICAL STREAM – COMPARING NUTRIENT DIFFUSING SUBSTRATES WITH NUTRIENT UPTAKE ESTIMATES (ID: 27670)
17:30	Spackeen, J. L. ; Xu, K.; Hutchins, D. A.; Sipler, R. E.; Bronk, D. A.: STOICHIOMETRIC UPTAKE OF CARBON, NITROGEN, AND PHOSPHORUS UNDER A MATRIX OF TEMPERATURE AND FE BY THREE ANTARCTIC PHYTOPLANKTON SPECIES (ID: 27729)

061 GLOBAL CLIMATE CHANGE: OCEAN ACIDIFICATION EXPERIMENTS AT CO₂ VENTS

Chair(s): Stefano Goffredo, s.goffredo@unibo.it
Zvy Dubinsky, zvykalmog@gmail.com
Katharina Fabricius, K.Fabricius@aims.gov.au
Jason Hall Spencer, jason.hall-spencer@plymouth.ac.uk
Hajime Kayanne, kayanne@eps.s.u-tokyo.ac.jp

Location: Auditorium Federico Garcia Lorca (Floor 0)

08:30	Law, C. S. ; Burrell, T. J.; Sander, S.; Maas, E. W.: BACTERIAL EXOENZYME ACTIVITY IN HIGH CO ₂ VENT WATERS (ID: 27471)
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[†] REPRESENTS TUTORIAL PRESENTATIONS

08:45	Hassenrück, C. ; Fink, A.; Tegetmeyer, H.; de Beer, D.; Ramette, A.: MICROBIAL COMMUNITY COMPOSITION AND FUNCTIONS IN SEDIMENTS OF NATURALLY CO ₂ -RICH CORAL REEFS (ID: 25512)	15:30	Silva, J. ; Costa, M. M.; Olivé, I.; Barrote, I.; Ruocco, M.; Lauritano, C.; Procaccini, G.; Santos, R.: SEAGRASS PHOTOSYNTHETIC RESPONSES TO A NATURAL HIGH-CO ₂ ENVIRONMENT: PHYSIOLOGY MEETS GENE EXPRESSION (ID: 26974)
09:00	Hall-Spencer, J. M. ; Fabricius, K.; Kayanne, H.; Milazzo, M.: LEARNING FROM CO ₂ SEEPS TO PREPARE SOCIETY FOR COMING DECADES OF OCEAN CHANGE (ID: 25896)	15:45	Kamenos, N. A. ; Perna, G.; Gambi, M. C.; Micheli,, F.; Kroeker, K.: SKELETAL MINERALOGY AND ECOSYSTEM STRUCTURE DETERMINE CORALLINE ALGAL PERSISTENCE IN CO ₂ ENRICHED ENVIRONMENTS (ID: 27153)
09:15	Wall, M. ; Fietzke, J.; Fink, A.; Schmidt, G. M.; de Beer, D.; Fabricius, K.: BORON ISOTOPES IN TROPICAL CORALS: A PH PROXY OR INDICATOR OF FUTURE PHYSIOLOGICAL CONSTRAINTS? A CASE STUDY FROM THE PAPUA NEW GUINEA CO ₂ SEEPS (ID: 27263)	16:00	Tomas, F. ; Hernan Martinez, G.; Buia, M. C.; Terrados, J.: OCEAN ACIDIFICATION MODIFIES WITHIN-PLANT HERBIVORY PATTERNS IN THE SEAGRASS POSIDONIA OCEANICA. (ID: 27664)
09:30	Strahl, J. ; Fabricius, K.: PHYSIOLOGICAL PERFORMANCE DIFFERS IN FOUR TROPICAL CORAL TAXA AT VOLCANIC CARBON DIOXIDE SEEPS (ID: 25682)	16:15	Iglesias-Prieto, R. ; Galindo-Martínez, C. T.; Carricart-Ganivet, J. P.; Enríquez, S.: BIO-OPTICAL MODELS OF CORAL CALCIFICATION AS A TOOL FOR ATTRIBUTING CHANGES IN CALCIFICATION RATES TO ENVIRONMENTAL VARIABLES (ID: 27709)
09:45	Smith, J. N. ; Fabricius, K. E.; De'ath, G.; Cornils, A.; Richter, C.: OCEAN ACIDIFICATION CAUSES ABUNDANCE LOSS IN RESIDENTIAL ZOOPLANKTON LIVING WITHIN CORAL REEFS (ID: 26623)	17:00	Manzello, D. P. ; Enochs, I. C.; Bruckner, A.; Renaud, P.; Kolodziej, G.; Budd, D.; Carlton, R.; Glynn, P.: GALÁPAGOS CORAL REEF PERSISTENCE AFTER ENSO WARMING ACROSS AN ACIDIFICATION GRADIENT (ID: 27258)
10:30	Fink, A. ; Lichtschlag, A.; Fabricius, K.; de Beer, D.: SEDIMENT BIOGEOCHEMISTRY ALONG A NATURAL PH GRADIENT IN A TROPICAL CORAL REEF (ID: 26635)	17:15	Enochs, I. C. ; Manzello, D. P.; Johnston, L.; Price, N.; Donham, E. M.; Kolodziej, G. E.; Clark, S. J.; Young, C.: NATURALLY ACIDIFIED CORAL REEFS AT MAUG ATOLL: SIMILARITIES AND DIFFERENCES WITH OTHER HIGH-CO ₂ SYSTEMS (ID: 26298)
10:45	Guilini, K. ; Molari, M.; Meyer, S.; Weber, M.; Lott, C.; Wenzhöfer, F.; Ramette, A.; de Beer, D.; Boetius, A.; Vanreusel, A.: THE EFFECT OF LONG-TERM EXPOSURE TO ACIDIFIED SEAWATER ON MEIO- AND MACROFAUNA AT THE NATURAL CO ₂ SEEP SITES AT PANAREA, MEDITERRANEAN SEA (ID: 25446)	17:30	Parra, G. ; Guerrero, F.; Jiménez-Gómez, F.; Sánchez-Moyano, E.; Jiménez-Melero, R.; Galotti, A.; Conradi, M.: INDIRECT AND SUBLETHAL EFFECTS OF LONG-TERM CO ₂ EXPOSURE: FROM INCREASING THE RISK OF BEING GRAZED TO CHANGES IN BEHAVIOUR. (ID: 25741)
11:00	Molari, M. ; Meyer, S.; Ramette, A.; Wenzhöfer, F.; de Beer, D.; Weber, M.; Guilini, K.; Vanreusel, A.; Cibic, T.; Boetius, A.: EFFECT OF NATURAL SEABED CO ₂ EMISSION ON BIOGEOCHEMISTRY AND MICROBIOTA OF MEDITERRANEAN SANDY SEDIMENTS: PANAREA ISLAND (ITALY) (ID: 26282)	17:45	Carreiro-Silva, M. ; Monteiro, J.; Parra, H.; de Potter, K.; Viveiros, F.; Raimundo, J.; Caetano, M.; Nogueira, M.; Oliveira, A. P.; Bongiorni, L.: OCEANA-LAB: AN OCEAN ACIDIFICATION LABORATORY IN THE NE ATLANTIC (FAIAL ISLAND, AZORES) (ID: 27270)
11:15	Gizzi, F. ; De Mas, L.; Marisaldi, L.; Lazzari, V.; Airi, V.; Caroselli, E.; Prada, F.; Falini, G.; Dubinsky, Z.; Goffredo, S.: EFFECTS OF OCEAN ACIDIFICATION ON THE REPRODUCTIVE OUTPUT OF THREE MEDITERRANEAN CORALS TRANSPLANTED AT AN UNDERWATER CRATER CHARACTERIZED BY CO ₂ EMISSIONS (ID: 26167)		
11:30	Caroselli, E. ; Prada, F.; Capaccioni, B.; Levy, O.; Falini, G.; Dubinsky, Z.; Kaandorp, J.; Goffredo, S.: GROWTH AND POPULATION DYNAMICS OF THE MEDITERRANEAN ENDEMIC SOLITARY CORAL BALANOPHYLLIA EUROPaea LIVING ALONG A NATURAL PCO ₂ GRADIENT (ID: 26187)		
11:45	Prada, F. ; Caroselli, E.; Capaccioni, B.; Levy, O.; Fabricius, K. E.; Weaver, J. C.; Falini, G.; Dubinsky, Z.; Goffredo, S.: DIFFERENT SENSITIVITY OF MEDITERRANEAN SCLERACTINIAN CORALS TO SEASONAL CHANGES IN TEMPERATURE ALONG A NATURAL CO ₂ GRADIENT (ID: 27141)		
15:00	Santos, R. ; Cabaço, S.; Mishra, A.; Vizzini, S.; Apostolaki, E. T.: POPULATION DYNAMICS OF SEAGRASSES IN THE VICINITY OF VOLCANIC VENTS: WHAT IS THE ROLE OF CO ₂ ? (ID: 26610)	17:00	Kriest, I. ; Oschlies, A.: REGULATION OF GLOBAL OCEANIC NITROGEN AND OXYGEN BY MARINE BIOGEOCHEMICAL PROCESSES* (ID: 26852)
15:15	Olivé, I. ; Costa, M. M.; Barrote, I.; Santos, R.; Silva, J.: PRODUCTIVITY OF THE SEAGRASS POSIDONIA OCEANICA NEAR VOLCANIC VENTS: TWO DIFFERENT CASE STUDIES (ID: 26657)	17:15	Bardin, A. M. ; Primeau, F. W.; Moore, J. K.: A STUDY OF OXYGEN CONCENTRATIONS IN THE INDIAN OCEAN USING A LIMITED-DOMAIN TRANSPORT MATRIX TECHNIQUE (ID: 26368)
		17:30	Garcia-Robledo, E. ; Revsbech, N. P.; Tiano, L.; Paulmier, A.; Stewart, F.; Lehner, P.; Larndorfer, C.; Klimant, I.: SECONDARY CHLOROPHYLL MAXIMUM IN OXYGEN MINIMUM ZONES: PHOTOSYNTHESIS AND AEROBIC RESPIRATION AT NANOMOLAR OXYGEN LEVELS (ID: 26044)
		17:45	Martínez-García, S. ; Karl, D. M.: MICROBIAL RESPIRATION IN THE EUPHOTIC ZONE AT STATION ALOHA (ID: 26025)
		18:00	Klimant, I. ; Staudinger, C.; Lehner, P.; Larsen, M.; Garcia-Robledo, E.; Glud, R. N.; Revsbech, N. P.; Borisov, S. M.: RELIABLE QUANTIFICATION OF DISSOLVED OXYGEN IN "ANOXIC SYSTEMS" WITH OPTODES (ID: 26861)

* REPRESENTS INVITED PRESENTATIONS

- 18:15 **Koeve, W.**; Kähler, P.: A PUZZLE OF OCEANIC OXYGEN UTILIZATION (ID: 26055)

083 ENVIRONMENTAL CONSEQUENCES OF ANTHROPOGENIC STRUCTURE IN THE OFFSHORE ENVIRONMENT: A REGIONAL COMPARISON

- Chair(s): Donna M. Schroeder, donna.schroeder@boem.gov
Ann Scarborough Bull, ann.bull@boem.gov
- Location: Andalucia 3 (Floor 1)
- 17:00 **Schroeder, D. M.**; Bull, A. S.; Zaleski, S. S.: A REVIEW OF ENVIRONMENTAL CONSEQUENCES OF ANTHROPOGENIC STRUCTURE IN THE OFFSHORE ENVIRONMENT (ID: 27681)
- 17:15 **Page, H. M.**; Zaleski, S.; Miller, R. J.; Dugan, J. E.; Simons, R.; Schroeder, D. M.; Doheny, B.: THE EXOTIC BRYOZOAN *WATERSIPORA SUBTORMA* ON OFFSHORE OIL PLATFORMS: DISTRIBUTIONAL CHANGES, DISPERSAL PATHWAYS, AND MANAGEMENT CONSIDERATIONS (ID: 27278)
- 17:30 **Vodopivec, M.**; Malej, A.; Peliz, Á. J.: OFFSHORE MARINE CONSTRUCTIONS AS STEPPING-STONES FACILITATING DISPERSAL OF MOON JELLYFISH POLYPS (ID: 26765)
- 17:45 **Bull, A. S.**; Schroeder, D. M.: UNEXPECTED CONSEQUENCES: CONSERVING FISHERIES WITH OFFSHORE PETROLEUM PLATFORMS (ID: 25461)
- 18:00 **Paxton, A. B.**; Smith, D. M.: MIRROR, MIRROR ON THE REEF: FISH UTILIZATION OF NOVEL PERCEIVED HABITAT ON AN ARTIFICIAL REEF IN ALBANIA (ID: 26376)
- 18:15 **Claisse, J. T.**; Pondella, D. J.; Love, M.; Zahn, L. A.; Williams, C. M.; Williams, J. P.; Bull, A. S.: OIL PLATFORMS OFF CALIFORNIA ARE AMONG THE MOST PRODUCTIVE MARINE FISH HABITATS GLOBALLY (ID: 27248)

091 BIO-OPTICS, OPTICAL BIOGEOCHEMISTRY, AND REMOTE SENSING OF OPTICALLY COMPLEX WATERS

- Chair(s): Stefan Simis, stsi@pml.ac.uk
Peter Hunter, p.d.hunter@stir.ac.uk
- Location: Picasso (Floor -2)
- 15:00 **Gernez, P.**; Barillé, L.; Lerouxel, A.; Mazeran, C.; Larnicol, M.; Doxaran, D.: REMOTE SENSING OF SUSPENDED PARTICULATE MATTER AND CHLOROPHYLL-A IN TURBID OYSTER-FARMING ECOSYSTEMS (ID: 25931)
- 15:30 **Mitchell, C.**; Cunningham, A.: INTERPRETATION OF TEMPORAL AND SPATIAL VARIABILITY OF REMOTE SENSING SIGNALS IN AN OPTICALLY COMPLEX SHELF SEA IN TERMS OF PHYTOPLANKTON AND MINERAL PARTICLES. (ID: 27103)
- 15:45 **Matthews, M. W.**; Bernard, S.; Evers-King, H.; Robertson Lain, L.: DISTINGUISHING CYANOBACTERIA FROM ALGAE IN OPTICALLY COMPLEX WATERS: A FRAMEWORK FOR A RADIATIVE TRANSFER INVERSION ALGORITHM (ID: 25691)
- 16:00 **Simis, S. G.**; Li, L.; Bresciani, M.; Giardino, C.; Li, L.; Matthews, M. W.: REMOTE SENSING OF SUN-STIMULATED FLUORESCENCE FROM PHYCOBILIPIGMENTS (ID: 26090)
- 16:15 **Hunter, P. D.**; Spyros, E.; O'Donnell, R.; Miller, C. A.; Scott, E. M.; Simis, S. G.; Groom, S. B.; Martinez, V. M.; Tyler, A. N.: THE VALIDATION OF REMOTE SENSING ALGORITHMS FOR RETRIEVAL OF BIOGEOCHEMICAL PROPERTIES IN DIFFERENT LAKE OPTICAL TYPES (ID: 27015)

- 17:00 **Kahlert, M.**; McKie, B. G.: COMPARING NEW AND CONVENTIONAL METHODS TO ESTIMATE BENTHIC ALGAL BIOMASS AND COMPOSITION IN FRESHWATERS (ID: 25532)

- 17:15 **Aulló-Maestro, M. E.**; Hunter, P. D.; Spyros, E.; Riddick, C. A.; Mercatoris, P.; Présing, M.; Kovács, A. W.; Horváth, H.; Tyler, A. N.: OPTICAL PROPERTIES AND PHOTOBLEACHING OF CHROMOPHORIC DISSOLVED ORGANIC MATTER (CDOM) IN LAKE BALATON (HUNGARY) (ID: 26586)
- 17:30 **Murray, C.**; Markager, S.; Stedmon, C. A.: PREDICTING SPECTRAL AND PAR LIGHT ATTENUATION IN GREENLANDIC COASTAL WATERS (ID: 25803)
- 17:45 **Minor, E. C.**; Austin, J. A.; Sun, L.; Mopper, K.: USING A DUAL-DYE LAGRANGIAN APPROACH TO MEASURE PAR EXPOSURE IN LAKE SUPERIOR'S SURFACE WATERS: SNAPSHOTS FROM SPRING AND SUMMER (ID: 25408)

098 ECOSYSTEM-SCALE APPROACHES TO ECOSYSTEM-SCALE QUESTIONS

- Chair(s): Jens C. Nejstgaard, nejstgaard@igb-berlin.de
Paraskevi Pitta, vpitta@hcmr.gr
Hans H Jakobsen, hhja@dmu.dk
- Location: Machuca (Floor -2)
- 08:30 **Mohr, S.**; Berghahn, R.; Feibicke, M.; Meinecke, S.; Loth, S.; Schmiediche, R.; Schmidling, I.; Schmidt, R.: THE MESOCOSM DILEMMA: NEED AND TROUBLE OF SYNCHRONIZING ECOLOGICAL PROCESSES IN PREPARATION OF ECOTOXICOLOGICAL STUDIES^T (ID: 26036)
- 09:00 **Xenopoulos, M. A.**; Rearick, D. C.; Paterson, M. J.; Frost, P. C.: FROM BOTTLES TO ECOSYSTEMS; THE EFFECTS OF SILVER NANOPARTICLES ACROSS SPATIAL EXPERIMENTAL SCALES (ID: 26831)
- 09:15 **Rearick, D. C.**; Frost, P. C.; Xenopoulos, M. A.: AN ECOSYSTEM SCALE EXPERIMENT: FATE AND EFFECTS OF SILVER NANOPARTICLES FOLLOWING WHOLE-LAKE ADDITION AT THE EXPERIMENTAL LAKES AREA (ID: 27253)
- 09:30 **Franzo, A.**; Cibic, T.; Rogelja, M.; Nasi, F.; Auriemma, R.; Fabbro, C.; Vojvoda, J.; Del Negro, P.: BENTHIC ECOSYSTEM FUNCTIONING AS A TOOL FOR SUSTAINABLE MANAGEMENT OF PORT AREAS (ID: 25463)
- 09:45 **Bierschenk, A. M.**; Matthaei, C. D.; Savage, C.: CATCHMENT LAND USE INFLUENCES ECOSYSTEM FUNCTIONING ALONG A FRESHWATER-MARINE CONTINUUM (ID: 27325)

101 MICROSCOPIC PLASTIC DEBRIS AND ITS IMPACT ON AQUATIC ECOSYSTEMS

- Chair(s): Tamara Galloway, t.s.galloway@exeter.ac.uk
Dr Ceri Lewis, c.n.lewis@exeter.ac.uk
Matthew Cole, m.cole@exeter.ac.uk
- Location: Machado (Floor -2)
- 08:30 **Rummel, C.**; Löder, M.; Gerdts, G.; Fricke, N.; Lang, T.: PLASTIC INGESTION BY PELAGIC AND DEMERSAL FISH FROM NORTH AND BALTIK SEA (ID: 27539)
- 08:45 **Watts, A. J.**; Lewis, C.; Urbina, M. A.; Goodhead, R. M.; Beckett, S. J.; Tyler, C. R.; Galloway, T. S.: UPTAKE ROUTES AND RETENTION OF MICROPLASTICS WITHIN THE SHORE CRAB *CARCINUS MAENAS* (ID: 26578)

^T REPRESENTS TUTORIAL PRESENTATIONS

09:00	Höher, N.; von Moos, N.; Köhler, A.; Broeg, K. : EFFECTS OF POLYETHYLENE MICROPLASTICS ON IMMUNE RESPONSES AND HAEMOCYTES OF <i>MYTILUS EDULIS</i> (ID: 25503)	09:00	Rensen, E.; Mochizuki, T.; Prangishvili, D.; Krupovic, M. : PYROBACCULUM FILAMENTOUS VIRUS 1, A NEW MEMBER OF THE LIPOTHRIXVIRIDAE FAMILY (ID: 26209)
09:15	Cole, M. J. : IMPACT OF MICROPLASTICS ON FEEDING, ENERGY UPTAKE AND SURVIVAL IN MARINE BIOTA (ID: 25543)	09:15	Talmy, D. ; Follows, M. J.: THE INFLUENCE OF VIRAL REPRODUCTION STRATEGIES ON MARINE MICROBIAL COMMUNITY DYNAMICS (ID: 27495)
09:45	Hartmann, N. B. ; Nolte, T.; Soerensen, M.; Jensen, P. R.; Baun, A.: AQUATIC ECOTOXICITY TESTING OF NANOPLASTICS – LESSONS LEARNED FROM NANOCETOXICOLOGY (ID: 27479)	09:30	Gainer, P. J. ; Pound, H. L.; DeBruyn, J. M.; LeCleir, G. R.; Zinser, E. R.; Johnson, Z. I.; Wilhelm, S. W.: BACTERIAL DIVERSITY AND VIRUSES: A STUDY OF PHAGE DYNAMICS IN THE NORTH PACIFIC OCEAN (ID: 25505)
10:30	Zettler, E. R. ; Mincer, T. J.; Slikas, B.; Boyd, G.; Melvin, W.; Fields, J.; Saleem, K.; Dooley, K.; Amaral-Zettler, L. A.: MICROBE-MICROBE, MICROBE-ANIMAL INTERACTIONS IN THE PLASTISPHERE (ID: 26192)	09:45	Lopez-Bueno, A.; Rastrojo, A.; Peiro, R.; Arenas, M.; Velazquez, D.; Quesada, A.; Alcamí, A. : ECOLOGICAL CONNECTIVITY SHAPES VIRAL ASSEMBLAGES AND VARIABILITY IN FRESHWATER ANTARCTIC ENVIRONMENTS (ID: 27436)
10:45	Oberbeckmann, S. ; Duhaime, M. B.; Osborn, A. M.; Labrenz, M.: EXPLORING THE PLASTIC MICROBIOME IN THE MARINE SYSTEM (ID: 27426)	10:30	Needham, D. M. ; Fuhrman, J. A.: DAILY SUCCESSIONAL PATTERNS OF MARINE VIRUS, BACTERIA, ARCHAEA, AND PROTISTAN COMMUNITIES FOLLOWING A DIATOM BLOOM VIA MARKER GENES AND SHOTGUN METAGENOMICS (ID: 26344)
11:00	Kirstein, I. V. ; Kirmizi, S.; Wichels, A.; Erler, R.; Löder, M.; Gerdts, G.: DANGEROUS HITCHHIKERS? EVIDENCE FOR POTENTIALLY PATHOGENIC <i>VIBRIO</i> spp. ON MICROPLASTIC PARTICLES (ID: 25799)	10:45	Boccara, M. ; Fedala, Y.; Bowler, C.; Boccara, A. C.: COUNTING AND CLASSIFYING VIRUSES FROM AQUATIC ENVIRONMENTS BY FULL FIELD INTERFEROMETRY AND BROWNIAN MOTION (ID: 26107)
11:15	Turk, V. ; Tinta, T.; Glavaš, N.; Kovac, N.; Francé, J.: BIOFOULING AND DEGRADATION OF BIOPLASTIC BY MARINE MICROBIAL COMMUNITY (ID: 26969)	11:00	Calvo-Díaz, A. ; Huete-Stauffer, T. M.; Díaz-Pérez, L.; Morán, X. A.: VIRUS-PHYTOPLANKTON INTERACTIONS IN COASTAL WATERS OF THE SOUTHERN BAY OF BISCAY (ID: 26136)
11:30	Andradý, A. L. ; Lavender-Law, K.; Donohue, J.: PHYSICAL FEATURES AND MECHANICAL INTEGRITY OF MARINE PLASTIC DEBRIS. (ID: 27741)	11:15	Thamatrakoln, K.; Maniscalco, C.; Haramaty, L.; Allen, L.; Allen, A.; Van Mooy, B.; Bidle, K. : THE ROLE OF LIGHT AND PHOTOSYNTHESIS IN VIRAL INFECTION OF MARINE, EUKARYOTIC PHOTOAUTOTROPHS (ID: 27568)
11:45	Tagg, A. S. ; Sapp, M.; Harrison, J. P.; Ojeda, J. J.: ANALYSIS OF MICROPLASTICS IN WASTEWATER USING FPA-BASED MICRO-FT-IR IMAGING AND HYDROGEN PEROXIDE PRE-TREATMENT (ID: 25405)	11:30	Staniewski, M. A. ; Short, C. M.; Fitzpatrick, M.; Short, S. M.: QUANTITATIVE MOLECULAR DETERMINATIONS OF PHYTOPLANKTON MORTALITY SUGGEST THAT VIRUSES CAN HAVE BOTH LYtic AND STIMULATORY EFFECTS (ID: 26434)
15:00	Cózar, A.; Sanz-Martín, M. ; González-Gordillo, J. I.; Ubeda, B.; Gálvez, J. Á.; Irigoien, X.; Duarte, C. M.: FLOATING PLASTIC DEBRIS IN THE MEDITERRANEAN SEA (ID: 25836)	11:45	Kegel, J. U. ; Egge, E. S.; Sandaa, R. A.; Edvardsen, B.; John, U.: DIVERSITY OF HAPTOPHYTES IN THE NORTHERN HEMISPHERE AND THEIR CO-OCCURRING DNA VIRUSES. (ID: 26507)
15:15	Piehl, S. ; Bochow, M.; Atwood, E.; Franke, J.; Siegert, F.; Englhart, S.; Laforsch, C.: CONTAMINATION OF AQUATIC ECOSYSTEMS WITH PLASTIC DEBRIS: GLOBAL AND LOCAL MONITORING USING REMOTE SENSING METHODS (ID: 26769)	15:00	Hurwitz, B. L. ; Choi, I.; Youens-Clark, C. K.; Hartman, J. H.: BIG DATA ANALYTICS FOR VIRAL ECOLOGY ^T (ID: 25635)
15:30	Imhof, H. K. ; Ivleva, N. P.; Wiesheu, A. C.; Schmid, J.; Niessner, R.; Laforsch, C.: COLORFUL POLYMER PARTICLES AND PAINT PARTICLES IN LIMNETIC ECOSYSTEMS (ID: 26543)	15:30	Lebredonchel, H. ; Grimsley, N.; Desdevines, Y.: THE IMPACT OF ENVIRONMENTAL VARIABLES ON PRASINOVIRUS-HOST DIVERSITY AND ABUNDANCE MEASURED BY MONTHLY GENOMIC ANALYSES OVER ONE YEAR (ID: 25457)
15:45	Mani, T. A. ; Burkhardt-Holm, P.: MICROPLASTICS IN THE RHINE RIVER BETWEEN BASEL (CH) AND ROTTERDAM (NL) (ID: 26047)	15:45	Schatz, D. ; Malitsky, S.; Vardi, A.: LIFE CYCLE STRATEGIES OF A LARGE VIRUS THAT INFECTS THE BLOOM FORMING <i>EMILIANIA HUXLEYI</i> (ID: 25494)
16:00	Löder, M. G. ; Gerdts, G.; Laforsch, C.: MICROSPECTROSCOPY FOR THE ANALYSIS OF MICROPLASTICS IN ENVIRONMENTAL SAMPLES (ID: 26643)	16:00	Coloma, S. E. ; Hiltunen, T.: THE KEY ROLE OF VIRAL PARASITES ON ECO-EVOLUTIONARY DYNAMICS IN TOXIC CYANOBACTERIAL POPULATIONS (ID: 25615)
08:30	Prangishvili, D. : VIRUS-HOST INTERACTIONS IN EXTREME GEOTHERMAL ENVIRONMENTS ^T (ID: 26271)	16:15	Short, S. M. ; Mirza, S.; Short, C. M.; Staniewski, M. A.: A NEWLY ISOLATED VIRUS INFECTING FRESHWATER PRYMNESIOPHYTE (HAPTOPHYTE) PHYTOPLANKTON SHARES FEATURES WITH BOTH PHYCODNAVIRUSES AND MIMIVIRUSES (ID: 27316)

105 VIRUSES AND VIRAL MEDIATED PROCESSES IN AQUATIC SYSTEMS

Chair(s): Curtis A Suttle, suttle@Science.ubc.ca
Dolors Vaque, dolors@icm.csic.es
Steven W Wilhelm, wilhelm@utk.edu

Location: Auditorium Manuel de Falla (Floor 1)

08:30 **Prangishvili, D.**: VIRUS-HOST INTERACTIONS IN EXTREME GEOTHERMAL ENVIRONMENTS^T (ID: 26271)

FRIDAY

- 17:00 **Moniruzzaman, M.**; Gann, E.; LeCleir, G. R.; Brown, C. M.; Gobler, C. J.; Bidle, K. D.; Wilson, W. H.; Wilhelm, S. W.: PROBING THE DIVERSITY OF ALGAL MEGAVIRIDAE MEMBERS DURING A HARMFUL BROWN TIDE BLOOM (ID: 25930)
- 17:15 **Carlson, M. G.**; McCary, N.; Leach, T.; Rocap, G.: DIATOM-VIRUS INFECTION NETWORKS REVEAL PATTERNS OF VIRUS SEASONALITY AND HOST PERMISSIVITY (ID: 27448)
- 17:30 **Thamatrakoln, K.**; Maniscalco, C.; Fredricks, H. F.; Allen, L. Z.; Allen, A. E.; Van Mooy, B.; Bidle, K. D.: DIFFERENTIAL EFFECTS OF VIRAL INFECTION ON HOST PHYSIOLOGY IN TWO STRAINS OF THE DIATOM, *CHAETOCEROS TENUISSIMUS* (ID: 27722)
- 17:45 **Allen, L. Z.**; McCrow, J. P.; Moustafa, A.; Allen, A. E.: MULTI-STUDY ANALYSIS OF VIRAL/HOST INTERACTIONS AND IMPLICATIONS FOR VIRAL-MEDIATED EFFECTS ON HOST PHYSIOLOGY (ID: 27398)
- 18:00 **Payet, J. P.**; McMinds, R.; Bukerpile, D. E.; Vega-Thurber, R. L.: BIOGEOGRAPHY AND GENETIC DIVERSITY OF VIRUSES IN CORAL REEF ECOSYSTEMS OF THE SOUTH PACIFIC OCEAN (ID: 25672)
- 18:15 **Hewson, I.**; Button, J. B.: ON THE PERSISTENCE OF INVERTEBRATE-ASSOCIATED SINGLE-STRANDED DNA VIRUSES IN SEAWATER: HOW IS INFECTION PROPAGATED? (ID: 25508)

119 INTEGRATED PERSPECTIVES OF EASTERN BOUNDARY UPWELLING SYSTEMS

Chair(s): Eric Desmond Barton, barton@iim.csic.es
 Javier Aristegui Ruiz, javier.aristegui@ulpgc.es
 P. Ted Strub, tstrub@coas.oregonstate.edu

Location: Press Room (Floor 2)

- 08:30 **Pegliasco, C.**; Chaigneau, A.; Morrow, R.: MESOSCALE EDDIES IN THE FOUR MAJOR EASTERN BOUNDARY UPWELLING SYSTEMS: VERTICAL STRUCTURE AND EVOLUTION IN OBSERVATIONS (ID: 26781)
- 08:45 **Alvarez-Salgado, X. A.**; Arístegui, J.; Alonso-Perez, F.; Anabalón, V.; Baltar, F.; Benavides, M.; Espino, M.; Frojan, M.; Graña, R.; Montero, M. F.; Reinthaler, T.; Padín, X. A.; Sangrá, P.; Teixeira, I. G.; Troupin, C.; Barton, E. D.: A TALE OF THE BIOGEOCHEMISTRY AND MICROBIAL ECOLOGY OF A PARCEL OF WATER TRANSPORTED BY THE CAPE GUIR FILAMENT (NW AFRICA): A LAGRANGIAN VIEW (ID: 25697)
- 09:00 **Santana-Falcón, Y.**; Benavides, M.; Sangrà, P.; Mason, E.; Barton, E.; Arístegui, J.: ANNUAL CYCLE OF OFFSHORE TRANSPORT OF ORGANIC MATTER BY AN UPWELLING FILAMENT OFF CAPE GHIR (NW AFRICA) (ID: 25934)
- 09:15 **Zúñiga, D.**; Villacíeros-Robineau, N.; Salgueiro, E.; Fernández-Bastero, S.; Bañuelos, R.; Alonso-Pérez, F.; Abrantes, F.; Figueiras, F. G.; Rosón, G.; Castro, C. G.: LONG TERM TIME SERIES OF VERTICAL PARTICLE FLUXES IN THE NW IBERIAN COASTAL UPWELLING SYSTEM (NE ATLANTIC) (ID: 26553)
- 09:30 **Villamaña, M.**; Mouriño-Carballedo, B.; Cermeño, P.; Chouciño, P.; da Silva, J.; Fernández-Castro, B.; Gilcoto, M.; Graña, R.; Latasa, M.; Maraño, E.: ROLE OF INTERNAL WAVES ON MIXING, NUTRIENT SUPPLY AND PHYTOPLANKTON COMPOSITION DURING SPRING AND NEAP TIDES IN THE RÍA DE VIGO (NW IBERIAN PENINSULA) (ID: 26269)

- 09:45 **Lozano, J.**; Serret, P.; Aranguren-Gassis, M.; Herrera, J. L.; González, J.; Varela, R.; Perez-Lorenzo, M.; Garcia-Martín, E. E.; Hidalgo-Robatto, B. M.; Martinez-Castrillo, D.: SEASONAL VARIATION OF PHYTOPLANKTON SIZE-STRUCTURE AND PLANKTON METABOLISM IN THE RÍA DE VIGO (NW SPAIN) (ID: 27219)
- 10:30 **Davis, K. A.**; Banas, N. S.; Giddings, S. N.; Siedlecki, S. A.; MacCready, P.; Lessard, E. J.; Kudela, R. M.; Hickey, B. M.: FRESHWATER INFLUENCE ON COASTAL PRODUCTIVITY IN THE U.S. PACIFIC NORTHWEST UPWELLING ZONE (ID: 26846)
- 10:45 **Fewings, M. R.**; Washburn, L.; Dorman, C. E.; Gotschalk, C.; Brown, K. S.; Chen, K.; Bane, J.: WIND RELAXATIONS IN THE CALIFORNIA CURRENT UPWELLING SYSTEM (ID: 27499)
- 11:00 **Strub, P. T.**; James, C.: WIND-DRIVEN CHANGES IN SEA LEVEL ALONG EASTERN BOUNDARIES (ID: 25946)
- 11:15 **Figueiras, F. G.**; Arbones, B.; Castro, C. G.; Froján, M.; Teixeira, I. G.: ABOUT PIGMENTED NANOPLANKTON AND THE IMPORTANCE OF MIXOTROPHIC NUTRITION IN COASTAL UPWELLING SYSTEMS: THE CASE OF NW IBERIAN MARGIN (ID: 26618)
- 11:30 **Santos, A. P.**; Garrido, S.; Peliz, A.; Dos Santos, A.; Moita, T.; Teodósio, A.; Dominguez, R.; Pastor, J.; Ré, P.: PHYSICAL-BIOLOGICAL INTERACTIONS IN THE LIFE HISTORY OF SMALL PELAGIC FISH IN THE NORTHERN CANARY CURRENT UPWELLING ECOSYSTEM (ID: 27213)
- 11:45 **Bednarsek, N.**; **Ohman, M. D.**: CHANGES IN PTEROPOD DISTRIBUTIONS AND SHELL DISSOLUTION ACROSS A FRONTAL SYSTEM IN THE CALIFORNIA CURRENT ECOSYSTEM (ID: 27645)

128 PLANKTONIC BIODIVERSITY: SPATIAL & TEMPORAL COMPONENTS

Chair(s): W. Charles Kerfoot, wkerfoot@mtu.edu

Location: Andalucia 2 (Floor 1)

- 08:30 **Hobmeier, M. M.**; Kerfoot, W. C.; Yousef, F.; Hirsch, J. K.; Maki, R. P.: SPINY CLADOCERAN IMPACTS ON LAKE FOOD WEBS* (ID: 25738)
- 08:45 **Straile, D.**: NUMERICAL, PHENOTYPIC AND EVOLUTIONARY RESPONSE OF *DAPHNIA* TO OLIGOTROPHICATION * (ID: 27032)
- 09:00 **Frisch, D.**; Morton, P. K.; Roy Chowdhury, P.; Culver, B.; Munoz, J.; Jeyasingh, P. D.; Weider, L. J.: PALEOGENETIC RECORDS OF *DAPHNIA PULICARIA* IN TWO NORTH AMERICAN LAKES REVEAL THE IMPACT OF CULTURAL EUTROPHICATION * (ID: 27564)
- 09:15 **Kerfoot, W. C.**; Hobmeier, M. M.: AQUATIC PREDATORS AND PREY: USING INDUCTION TO TEST INTERACTION STRENGTHS* (ID: 25517)
- 09:30 **Marcolin, C. R.**; Jackson, G. A.; Lopes, R. M.: PLANKTON VERTICAL DISTRIBUTIONS ON THE BRAZILIAN CONTINENTAL SHELF DETERMINED BY COMBINING OBSERVATIONS FROM LASER OPTICAL PLANKTON COUNTER (LOPC) AND ZOOSCAN (ID: 25898)
- 09:45 **Wickham, S.**; Claessens, M.; Post, A. F.: LOW NUTRIENTS, STRONG SEASONALITY, HIGH DIVERSITY: CILIATES IN THE GULF OF AQABA* (ID: 27081)
- 10:30 **Idrisi, N.**: PLANKTONIC THIN LAYERS: MECHANISM FOR PHYTOPLANKTON COMMUNITY DIVERSITY* (ID: 26145)

* REPRESENTS TUTORIAL PRESENTATIONS

- 10:45 **Le Tortorec, A. H.**; Tahvanainen, P.; Kremp, A.; Simis, S. G.: DIVERSITY OF BIOLUMINESCENCE AND THE LUCIFERASE GENE IN BALTIC SEA *ALEXANDRIUM OSTENFELDII* POPULATIONS (ID: 25804)
- 11:00 **Pérez, L.**; Guinda, X.; Puente, A.; Juanes, J. J.: RELATIONSHIP BETWEEN HYDROMORPHOLOGICAL CONDITIONS AND THE STRUCTURE OF PHYTOPLANKTON COMMUNITIES IN ESTUARIES * (ID: 26865)
- 11:15 **Ptaacnik, R.**; Olli, K.; Lehtinen, S.; Tamminen, T.: PHYTOPLANKTON DIVERSITY ALONG THE FRESHWATER-MARINE CONTINUUM* (ID: 25940)
- 11:30 **Izaguirre, I.**; Saad, J. F.; Schiaffino, M. R.; Unrein, E.; Lancelotti, J.: MICROBIAL PLANKTONIC COMMUNITIES OF LAKES FROM THE PATAGONIAN STROBEL PLATEAU (ARGENTINA): INFLUENCE OF FISH INTRODUCTION * (ID: 26374)

136 ADVANCES IN BLUE CARBON RESEARCH: THE ROLE OF COASTAL ECOSYSTEMS IN THE CARBON CYCLE

Chair(s): Charles Hopkinson, chopkins@uga.edu
 Robert Chen, bob.chen@umb.edu
 Carlos Duarte, carlos.duarte@uwa.edu.au
 Nuria Marb, nmarba@imedeua.uib-csic.es
 Oscar Serrano, o.serranogras@ecu.edu.au

Location: Andalucia 3 (Floor 1)

- 08:30 **Arias-Ortiz, A.**; Masqué, P.; García-Orellana, J.; Serrano, O.; Lovelock, C. E.; Mazarrasa, I.; Marbà, N.; Lavery, P.; Stevens, A.; Duarte, C. M.: USE OF ^{210}PB IN VEGETATED COASTAL SEDIMENTS: A BLUE CARBON ACCOUNTING METHODOLOGY (ID: 26273)
- 09:00 **Pidgeon, E. J.**; Howard, J. F.: BLUE CARBON: A TRANSFORMATIONAL TOOL FOR MARINE MANAGEMENT AND CONSERVATION GLOBALLY (ID: 27633)
- 09:15 **Strong, A. L.**: MANAGING COASTAL BLUE CARBON: CURRENT PRACTICES AND FUTURE OPPORTUNITIES (ID: 27643)
- 09:30 **Herrera Silveira, J. A.**; Teutli, C. H.; Adame, M. F.; Caamal, J. S.; Gutiérrez, J.; Morales, S. M.; Carrillo, L.; Pech, E.; Liceaga, M. A.; Arellano, L.: BLUE CARBON PROJECT IN YUCATAN PENINSULA, MEXICO. (ID: 26897)
- 10:30 **Rossi, F.**; Callier, M.; Ferraton, F.; Caro, A.; Dupuy, C.; Agogue, H.; Bouvy, M.: THE EFFECT OF MULTIPLE STRESSORS ON SHORT-TERM CARBON ASSIMILATION BY AN EELGRASS BENTHIC ECOSYSTEM (ID: 26175)
- 10:45 **Vizzini, S.**; Apostolaki, E. T.; Polymenakou, P.: CARBON SINK CAPACITY OF SEAGRASS MEADOWS IN NATURALLY ACIDIFIED CO₂ VENTS (ID: 26807)
- 11:00 **Ricart, a. m.**; Pérez, M.; Macreadie, P.; York, P.; Romero, J.: VARIABILITY OF SEDIMENT ORGANIC MATTER SOURCES ON SEAGRASS LANDSCAPES (ID: 27687)
- 11:15 **Belshe, E. F.**; Hoeijmakers, D.; Teichberg, M.: LINKING CARBON SINK CAPACITY TO COMMUNITY COMPOSITION WITHIN HIGHLY DIVERSE SEAGRASS MEADOWS OF THE INDO-PACIFIC (ID: 27044)
- 11:30 **Mazarrasa, I.**; Marbà, N.; García-Orellana, J.; Masqué, P.; Arias-Ortiz, A.; Duarte, C. M.: THE EFFECT OF WAVE EXPOSURE AND HUMAN ACTIVITY ON LONG-TERM SEAGRASS (POCEANICA) CARBON SINK CAPACITY (ID: 25768)

- 11:45 **Serrano, O.**; Rozaimi, M.; Arias-Ortiz, A.; Duarte, C. M.; Lavery, P.; Kendrick, G.; Masqué, P.; Mateo, M. A.; Steven, A.: UNDERSTANDING THE CARBON SEQUESTRATION CAPACITY OF SEAGRASS MEADOWS (ID: 26258)
- 15:00 **Schiebel, H. N.**; Peri, F.; Chen, R. F.: DISSOLVED ORGANIC CARBON PRODUCTION FROM SALT MARSH SEDIMENTS (ID: 25481)
- 15:15 **Peri, F.**; Chen, R. F.; Gardner, G. B.; Schiebel, H. N.: A SYSTEMATIC APPROACH TO QUANTIFYING THE DISSOLVED ORGANIC CARBON FLUX FROM A NEW ENGLAND SALT MARSH (ID: 27443)
- 15:30 **Chen, R. F.**; Cable, J. E.; Cherrier, J.; Meile, C.; Schalles, J.; Gardner, G. B.; Wang, X. C.; Peri, F.; Schiebel, H. N.: A DISSOLVED ORGANIC CARBON (DOC) BUDGET FOR A PRISTINE SALT MARSH (ID: 26462)
- 15:45 **Wang, Z. A.**; Chu, S. N.; Kroeger, K. D.; Hoering, K. A.; Gonnea, M. E.: THE PARADOX OF SALT MARSHES AS A SOURCE OF ALKALINITY AND LOW PH, HIGH CARBON DIOXIDE WATER TO THE OCEAN (ID: 27338)
- 16:00 **Morris, J. T.**; Hagen, S.; Medeiros, S.; Weishampel, J.; Edwards, J.; Alizad, K.: FORECASTING CURRENT AND FUTURE CARBON STOCKS IN GULF COAST ESTUARIES (ID: 26241)
- 16:15 **Hopkinson, C.**; Forbrich, I.; Giblin, A.: SPATIAL SCALES AND PROCESS MEASUREMENT MISMATCHES IN WETLAND BLUE CARBON RESEARCH (ID: 27321)

137 NEXT GENERATION IN SITU SENSORS FOR AQUATIC SYSTEMS

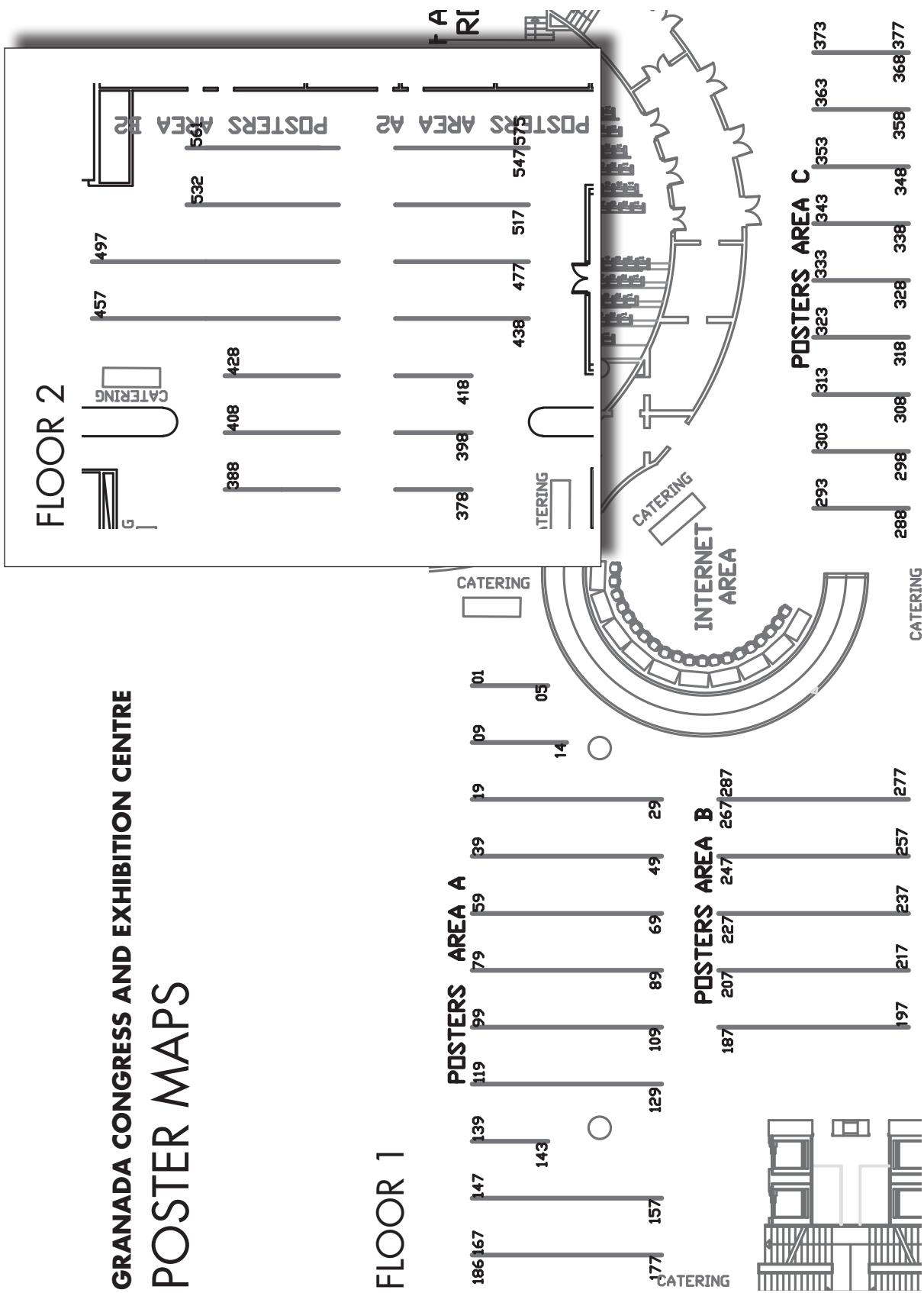
Chair(s): Jay Pearlman, jay.pearlman@ieee.org
 Douglas Connelly, douglas.connelly@noc.ac.uk
 Marie-Louise Tercier Waeber, Marie-Louise.Tercier@unige.ch
 Raquel de Sousa, rdesousa@leitat.org

Location: Room C (Floor -3)

- 08:30 **Bresnahan, P. J.**; Martz, T. R.: CHARACTERIZATION OF GAS DIFFUSION CELL GEOMETRY IN MICROFLUIDIC ANALYZERS FOR MARINE DISSOLVED INORGANIC CARBON (ID: 25552)
- 08:45 **Chu, S. N.**; Wang, Z. A.; Sonnichsen, F. N.; Bradley, A. M.; Hoering, K. A.; Lanagan, T. M.; Hammar, T. R.; Camilli, R.: A HIGH RESOLUTION, IN SITU SENSOR TO SIMULTANEOUSLY MEASURE TOTAL DISSOLVED INORGANIC CARBON AND PH IN AQUATIC ENVIRONMENTS (ID: 27494)
- 09:00 **Staudinger, C.**; Strobl, M.; Fischer, J. P.; Müller, B. J.; Lehner, P.; Thar, R.; Mistlberger, G.; Mayr, T.; Borisov, S. M.; Kliment, I.: A PH-OPTODE FOR SEAWATER MONITORING (ID: 26182)
- 09:15 **Yin, T.**; Rerolle, V.; Arundell, M.; Loucaides, S.; Cardwell, C. L.; Walk, J. A.; Slavik, G. J.; Wyatt, J. B.; Saw, K. A.; Mowlem, M. C.; Palmer, M. R.: AN AUTOMATED MICROFLUIDIC SPECTROPHOTOMETRIC SENSOR FOR IN SITU SEAWATER PH MEASUREMENTS (ID: 27533)
- 09:30 **Aßmann, S.**; Frank, C.; Petersen, W.; Kötztinger, A.; Linke, P.: TOTAL ALKALINITY AND PH DETERMINATION: AUTONOMOUS SENSORS FOR USE IN SEAWATER (ID: 27323)
- 09:45 **Mallios, A.**; Pizarro, O.; Arey, J. S.; Samanipour, S.; De Mol, B.; Hurtós, N.; Johnson-Roberson, M.; Dansereau, D. G.; Toohey, L.; Lemmin, U.; Camilli, R.: SYNOPTIC IDENTIFICATION OF GREENHOUSE GAS SOURCES AND SINKS IN LAKE LEMAN (ID: 27295)

FRIDAY

10:30	Beaton, A. D. ; Nightingale, A.; Slavik, G. J.; Saw, K.; Pascal, R.; Amalou, F.; Mowlem, M. C.: LAB-ON-CHIP CHEMICAL SENSORS: LATEST DEPLOYMENTS, TECHNOLOGICAL ADVANCES AND FUTURE TRENDS (ID: 25893)	15:45	Tercier-Waeber, M. L. : INTEGRATED MODULAR CHEMICAL SENSING PROBES FOR IN SITU HIGH RESOLUTION MAPPING OF A RANGE OF ANTHROPOGENIC AND NATURAL CHEMICAL COMPOUNDS (ID: 26536)
10:45	Chen Legrand, D. ; Barus, C.; Comtat, M.; Tailhades, E.; Fajerwerg, K.; Fau, P.; Kahn, M.; GARCON, V.: GOLD ELECTRODE MODIFIED WITH SILVER NANOPARTICLES FOR IN SITU NITRATE DETECTION IN SEA WATER (ID: 26103)	16:00	Fitzgerald, J. ; Maguire, I.; Heery, B.; Murphy, C.; Nwankire, C.; Ducr��e, J.; O'Kennedy, R.; Regan, F.: NOVEL ONE-STEP CENTRIFUGAL SENSOR SYSTEM FOR THE DETECTION OF CYANOBACTERIAL TOXIN MICROCYSTIN-LR (ID: 27351)
11:00	Barus, C. ; Aguilar, D.; Savy, J. P.; Striebig, N.; Armengaud, M.; Comtat, M.; Garcon, V.: DEVELOPMENT OF MINIATURIZED AUTONOMOUS SILICATE AND PHOSPHATE SENSORS (ID: 26111)	16:15	S��nchez Polo, M.; Velo Gala, I. ; L��pez Pe��nalver, J. J.; Fern��ndez S��nchez, J. F.; Medina Castillo, A. L.; Rivera Utrilla, J.: MOLECULAR IMPRINTED POLYMER TO REMOVE TETRACYCLINE FROM AQUEOUS SOLUTIONS (ID: 26766)
11:15	McCaul, M. ; Cleary, J.; McNamara, E.; Diamond, D.: SENSORS FOR IN-SITU MONITORING OF EUTROPHICATION IN MARINE ENVIRONMENTS (ID: 27585)	17:00	Novellino, A. ; Confalonieri, F.; Povero, P.; D'Angelo, P.; Tercier-Waeber, M. L.: SCHEMA PROJECT: FROM REMOTE SENSING TO OCEAN OBSERVING SYSTEMS INTEROPERABILITY (ID: 26604)
11:30	Wollschl��ger, J. ; R��ttgers, R.; Petersen, W.: USING AN INTEGRATING CAVITY APPROACH (PSICAM) FOR THE DETERMINATION OF CHL-A, SUSPENDED MATTER, AND PHYTOPLANKTON GROUPS IN THE NORTH SEA (ID: 26237)	17:15	Zielinski, O. ; Golmen, L.; Goutx, M.; Heuermann, R.; Masson, M.; Petersen, W.; S��rensen, K.; Tedetti, M.; Voss, D.; Wollschl��ger, J.: LIGHT INTERACTIONS IN AQUATIC MEDIA: OPTICAL SENSORS WITHIN NEXOS (ID: 26872)
11:45	Meyer, D. ; Prien, R. D.; Dellwig, O.; Kr��ger, S.; Schulz-Bull, D. E.: ON THE IN SITU APPLICATION OF A WET CHEMICAL MANGANESE(II) ANALYZER IN THE BALTIC SEA USING A DEEP SEA TELEMETRY SYSTEM FOR HIGH SPEED SERIAL DATA TRANSMISSION (ID: 25786)	17:30	Buck, J. J. ; Leadbetter, A.; Williams, C.: BORN SEMANTIC: LINKING DATA FROM SENSORS TO USERS AND BALANCING HARDWARE LIMITATIONS WITH DATA STANDARDS (ID: 26014)
15:00	Ramon-Marquez, T. ; Orriach-Fernandez, F. J.; Medina-Castillo, A. L.; Mu��oz de la Pe��a Castrillo, A.; Fernandez-Sanchez, J. F.; Fernandez-Gutierrez, A.: A SENSING MICROFIBRE MAT PRODUCED BY ELECTROSPINNING FOR DETERMINATION OF HG2+ IN WATER SAMPLES (ID: 26566)	17:45	Del Rio, J. ; Toma, D. M.; Ruiz, P.; Corradino, L.; Pearlman, J.; Delory, E.: A NEW PASSIVE ACOUSTIC MONITORING SYSTEM (PAMS) BASED ON THE NEXOS SMART ELECTRONIC INTERFACE (ID: 26881)
15:15	Revsbech, N. P. ; Nielsen, M.; Lichtenberg, M.; Trampe, E.; Ward, D. M.; K��hl, M.: NEW HYDROGEN MICROSENSORS AND THEIR USE IN MARINE AND HOT SPRING MICROBIAL MATS (ID: 25988)	18:00	Prinz, H.; Haunschmid, R.; Schneider, P. : ESTIMATION OF FISH BIOMASS IN A SHALLOW CANAL: A COMPARISON OF RESULTS FROM TRADITIONAL HYDROACOUSTICS AND IMAGING SONAR TECHNIQUES (ID: 27597)
15:30	Duffy, G. ; Fay, C.; Nightingale, A.; Mowlem, M.; Diamond, D.; Regan, F.: ON-CHIP OPTICAL SENSING METHODS FOR DETERMINATION OF PHOSPHATES IN FRESHWATER. (ID: 26378)	18:15	Ramey, E. ; DiMarco, S. F.; Dreger, K.; Lambert, S.; Zimmerle, H.; Howard, M. K.; Kobara, S.: GULF OF MEXICO COASTAL HYPOXIA GLIDER DEMONSTRATION EXPERIMENT OF SUMMER 2014 (ID: 27399)



AUTHOR INDEX

A

- Aalto, S. L. 78, 112
 Aarnos, H. 106
 Abad, N. 80, 94
 Abass, R. 77
 Abat, J. R. 124
 Abaya, L. M. 44
 Abboud-Abi Saab, M. 107
 Abchiche, A. 48
 Abdel-Moati, M. A. 120
 Abdulla, A. A. 82
 Abdul Malak, D. 82
 Aben, R. 108
 Aberle-Malzahn, N. 86
 Aberle, N. 100, 116
 Abós-Herràndiz, R. 95
 Abouchami, W. 124
 Abrantes, F. 136
 Abrevaya, L. 106
 Abril, G. 63, 64, 72, 123
 Abril, M. 86
 Abu Alhajja, R. 107
 Acena, J. 54
 Acevedo, M. 85, 97
 Acevedo-Merino, A. 90
 Acevedo, M. J. 85
 Acha, D. 60
 Acheampong, A. O. 116
 Achilleos, K. 107
 Achterberg, E. 61, 83, 123, 124, 131
 Achterberg, E. P. 83, 123, 124, 131
 Acinas, S. A. 103
 Acinas, S. G. 111, 113
 Acuna, J. L. 103
 Acuña, J. L. 85, 103
 Acuña, V. 52, 54, 55, 75
 Adame, M. F. 137
 Adiyanti, S. 49
 Admiraal, W. 129
 Adrian, R. 96, 127
 Aepli, C. 116
 Afshinnekoo, E. 58
 Agawin, N. R. 68
 Ageev, A. V. 55
 Agersted, M. D. 73
 Agha, R. 47
 Agogue, H. 137
 Agogué, H. 90
 Agostinho, A. A. 93
 Ågren, A. 105
 Agstam, O. 106
 Aguilar-Barquero, V. 90
 Aguilar, C. 64, 69, 95
 Aguirre de Carcer, D. 83
 Aguirre de Cácer García, D. 83
 Agustí, S. 81, 94, 121
 Agustí, S. 81
 Agustí, S. 81, 94
 Aguzzi, J. 69
 Aharonovich, D. 45
 Ahlgren, N. A. 97
 Ahlvik, L. 78
 Ahmerkamp, S. 49
 Aho, K. S. 77
 Ahrén, D. 102, 103
 Ahrenstorff, T. 87
 Äijala, C. 117
 Aikawa, Y. 75
 Aiken, C. 82
 Aiken, G. 60
 Airi, V. 133
 Airs, R. L. 68
 Aita, M. N. 58
 Aiwohi, M. 44
 Åkerblom, S. 61
 Akhir, M. F. 110
 Akil, L. 132
 Aksnes, D. 85
 Alabia, I. D. 50
 Alam, A. 130
 Albano, P. G. 82
 Alberti, A. 110
 Alcamí, A. 135
 Alcamí, A. 83
 Alcaraz, C. 79
 Alcaraz, M. 58, 59, 73
 Alcón, E. 68
 Alcoverro, T. 82
 Aldebert, C. 46
 Aleffi, I. F. 101
 Alexander, H. 102, 109
 Alfaro, M. 101
 Algar, C. K. 68
 Algueró-Muñiz, M. 46, 100
 Al-Horani, F. A. 63
 Alhou, B. 57
 Ali, N. 90
 Alizad, K. 137
 Al-Janabi, B. 50
 Allen, A. 48, 108, 135, 136
 Allen, A. E. 48, 108, 136
 Allen, J. I. 46, 107
 Allen, L. 135, 136
 Allen, L. Z. 136
 Allen, M. R. 67
 Aller, R. C. 48, 69
 Allesina, S. 113
 Allesson, L. 52
 Allinger, L. E. 109
 Allison, A. S. 60
 Allison, S. D. 67
 Almeda, R. 59
 Almeida, R. M. 63
 Almeida-Val, M. V. 61
 Alm, E. J. 108
 Almén, A. K. 50
 Almendinger, J. E. 59
 Alm, J. 52
 Almodóvar-Acevedo, L. 67
 Almogi-Labin, A. 84
 Almröth-Rosell, E. 48
 Alneberg, J. 110
 Alonso, A. 58
 Alonso, C. 85, 97, 116, 128
 Alonso-González, I. 122
 Alonso, M. 98
 Alonso-Perez, F. 49, 136
 Alonso-Pérez, F. 136
 Alonso-Sáez, L. 81, 103
 Al-Raei, A. M. 75
 Alshboul, Z. 67, 92
 Altabet, M. 51, 131
 Altabet, M. A. 131
 Altin, D. 89
 Alurralde, G. 114
 Aluwihare, L. I. 83
 Álvarez-Cabria, M. 77, 80, 127
 Alvarez Fernandez, S. 103
 Alvarez, J. 71
 Alvarez, J. 95
 Alvarez, J. M. 77
 Alvarez, M. 65, 78, 80
 Alvarez-Manzaneda Salcedo, M. I. 129
 Alvarez-Manzaneda Salcedo, M. I. 116
 Alvarez-Martínez, J. M. 80, 127
 Alvarez-Osorio, M. T. 81
 Alvarez-Ossorio, M. T. 103
 Alvarez, P. 80
 Alvarez, S. A. 94
 Alvarez-Salgado, X. A. 122
 Alvarez-Salgado, X. A. 65, 136
 Álvarez-Salgado, X. A. 83
 Álvarez-Salgado, X. A. 65, 68, 80, 83
 Alvarez-Troncoso, R. 67, 69
 Alves Soares, A. R. 77
 Al-Zoubi, A. 122
 Amadeo, F. E. 101
 Amador-García, A. 122
 Amalfitano, S. 88
 Amalou, F. 138
 Amann, R. 63
 Amano, C. 51
 Amano-Sato, C. 76
 Amaral, J. H. 53
 Amaral, V. 128
 Amaral-Zettler, L. A. 44, 110, 135
 Amarasinghe, U. S. 95
 Amat, J. 122
 Amato, A. 45
 Amin, S. 108, 112
 Amin, S. A. 112
 Amouroux, D. 60
 Anabalón, V. 136
 Andersen, A. 90, 122
 Andersen, A. C. 122
 Andersen, F. Ø. 129
 Andersen, J. H. 82, 104
 Andersen, K. H. 46
 Andersen, T. 66, 67, 86, 102, 106, 112,
 130, 132
 Anderson, D. M. 66, 103, 127
 Anderson, I. C. 64, 65
 Anderson, M. R. 107
 Anderson, N. J. 59
 Anderson, R. S. 109, 119
 Anderson, S. R. 100
 Anderson, T. R. 45
 Andersson, A. 47, 110, 116
 Andersson, A. F. 110, 116
 Andersson, M. 105, 130
 Andersson, M. G. 105
 Andersson, P. 64
 Andrade, A. L. 135
 Andreou, V. 107
 Andriana, E. 71
 Androulidakis, Y. S. 78, 117, 124
 Angel, D. L. 85
 Angell, J. A. 44
 Anglès, S. 48, 50, 107
 Ankrah, N. Y. 113
 Annadotter, H. 74
 Annenkova, N. V. 102
 Ann, V. 75
 Anschutz, P. 64
 Antequera, C. 81
 Anthony, K. L. 71
 Antler, G. 53, 78
 Antler, G. A. 53
 Antoniou, M. G. 47
 Anton, J. 122
 Antón, J. 114
 Aparicio-Bernat, F. L. 128
 Apostolaki, E. T. 133, 137
 Apple, J. K. 71
 Apprill, A. 101
 Aquarium Team La Rochelle, x. 62
 Arana, I. 97
 Arandia-Gorostidi, N. 51, 81, 103
 Aránguiz-Acuña, A. 89
 Aranguren-Gassis, M. 46, 136
 Arbones, B. 65, 76, 109, 136
 Arce, M. I. 63
 Archambault, P. 55
 Archer, S. D. 121
 Arellano, L. 137
 Arellano, S. 44, 95
 Arenas, M. 135
 Arentsen, P. R. 120
 Arey, J. S. 137
 Argillier, C. 92
 Ariano, S. S. 63
 Arias-Ortiz, A. 137
 Arim, M. 56, 105
 Arístegui, J. 78, 83, 122, 136
 Aristi, I. 55
 Aristi, I. 54
 Ariyarathna, T. S. 49
 Ariza, A. 78, 104
 Armbrust, E. V. 66, 103, 108, 112
 Armbrust, V. 131
 Armengaud, J. 88
 Armengol, J. 63, 72, 89
 Armengol, L. 44
 Armstrong, R. 120
 Arnosti, C. 128
 Arnott, S. E. 128
 Arp, C. D. 74, 83
 Arranz, I. 92, 105
 Arranz, I. U. 92
 Arrieta, J. 91, 121
 Arrieta, J. M. 121
 Arrizabalaga, H. 80
 Arroita, M. 54, 55
 Arteaga, L. 132
 Artigas, J. 126
 Artigas, L. F. 65, 66
 Artigas, M. L. 60
 Artioli, Y. 107
 Arundell, M. 137
 Arvanitidis, C. 82
 Arvola, L. 78
 Aschenbroich, A. 69
 Ash, A. 122
 Asher, S. 91
 Ask, J. 83
 Asmala, E. 84
 Asmelash, T. 126
 Asper, V. 78
 Aspillaga, E. 91
 Assimakopoulou, G. 82, 104
 Aßmann, S. 50, 137
 Astorg, L. 82
 Astor, Y. 84, 132
 Athavale, R. 123
 Atkins, M. A. 99
 Atkinson, A. 46, 128
 Atkinson, D. 46
 Atoui, A. K. 47
 Attard, K. 63, 106
 Attard, K. M. 63, 106
 Attard, M. 62
 Attayde, J. L. 126
 Attermeyer, K. 93, 112
 Atwood, E. 135
 Aubert, A. B. 82
 Audic, S. 102, 103, 108
 Audras, A. 76
 Auilar-Islas, A. 58
 Auken, E. 130
 Aulicino, G. 72
 Aulló-Maestro, M. E. 134
 Auriemma, R. 82, 134
 Aury, J. M. 110
 Austin, J. A. 134
 Auvray, C. 120
 Avery, D. 128
 Avila, A. 58
 Axenov-Gribanov, D. V. 87
 Ayalon, A. 84

Ayo, B. 80, 81, 94
 Ayyala, I. 44
 Azetsu-Scott, K. 123
 Azevedo, S. F. 72
 Azevedo, S. M. 72
 Azua, I. 80, 94
 Azúa, I. 81

B

Baba, R. 86
 Babbin, A. R. 131
 Babin, M. 103, 109
 Bach, L. 61, 81
 Bach, L. T. 61
 Bachi, C. 118
 Baden, S. P. 61
 Badosa, A. 56
 Baer, S. 107, 132
 Baer, S. E. 132
 Baggini, C. 61
 Baigún, C. R. 95
 Bailey, A. M. 61
 Bailey, N. 102
 Bailey, S. A. 55
 Bailleul, B. 112
 Baker, A. 106
 Baker, B. J. 44
 Baker, L. J. 100, 108
 Baker Wood, H. L. 61
 Bakke, J. 71
 Bakker, D. 46
 Bakker, E. 123
 Balague, V. 102
 Balagué, V. 98
 Balascio, N. L. 71
 Balch, W. M. 60, 88
 Balcí, M. 89
 Baldini, M. 99
 Bald, J. 80
 Baldocchi, D. D. 106
 Baldó, F. 75
 Balestreri, C. 110, 111
 Baliga, N. S. 45, 69, 127
 Balke, T. 129
 Balkis, N. 89
 Ballantine, M. 49
 Ballesteros, P. 119
 Balseiro, E. 75, 79, 83, 132
 Balseiro, E. G. 132
 Balseiro, P. 86
 Baltar, F. 136
 Baltikas, V. 78, 117
 Banas, N. S. 136
 Baña, Z. 80, 81, 94
 Bandarra, N. 87
 Bandyopadhyay, D. 65
 Bane, J. 136
 Bañeras, L. 111
 Báñez, C. 77
 Bange, H. 131
 Banks, M. A. 71
 Baños, I. 78, 122
 Ban, S. 114, 123
 Banta, G. 50, 121
 Banta, G. T. 50
 Bahuelos, R. 136
 Banwart, S. A. 74
 Bao, R. 127
 Baptista, M. 61
 Baquerizo Azofra, A. 78
 Baranov, V. 68
 Barba, L. 88
 Barbeau, K. A. 48
 Barberan Torrents, A. 111
 Barber, D. G. 55

Barber-Lluch, E. 107, 108, 109
 Barbero, L. 44
 Barber, P. 71
 Barbosa, A. B. 77
 Barbosa, C. 62
 Barbosa, F. A. 99
 Barbosa, J. 94
 Barbosa, L. G. 126
 barbosa, P. M. 98
 Barceló, B. 122
 Barceló, D. 54, 55
 Barcelos e Ramos, J. 118
 Barcia, A. 85
 Bardaji, R. 94, 102
 Bardin, A. M. 133
 Barillé, L. 134
 Barker, P. 109
 Barkley, H. C. 92
 Bar-Matthews, M. 84
 Barnett, A. 110
 Bar-Or, I. 78
 Barquín, J. 77, 80, 127
 Barreira, A. 91
 Barreiro-Lostres, F. 109
 Barrett, J. 82
 Barrios-O'Neill, D. 55
 Barr, J. G. 88
 Barros, N. 63, 91
 Barrote, I. 133
 Barry, J. 69, 92, 120
 Barry, J. P. 69, 92
 Bartels, P. 93
 Bartl, I. 76
 Bartoli, M. 99
 Barton, A. D. 46
 Barton, E. 122, 136
 Barton, E. D. 122, 136
 Bartual, A. 94, 117, 131
 Bartumeus, F. 91
 Baruch, A. 102
 Bar-Zeev, E. 45
 Bascompte, J. 56
 Basile, M. 100
 Bass, D. 94, 102, 103
 Bassoulet, C. 125
 Basterretxea, G. 107
 Bastianini, M. 88
 Bastias, E. 63, 75, 86
 Bastidas Navarro, M. 75, 83
 Bastrop, R. 69
 Bastviken, D. 57, 67, 91, 92, 106
 Batailler, N. 51
 Batanero, G. L. 96, 122, 123
 Bates, N. R. 60
 Batigny, A. 46
 Battin, T. J. 54, 66, 68, 86, 128
 Battles, J. J. 120
 Batt, R. D. 81, 127
 Baudin, F. 113
 Bauerfeind, E. 53
 Bauer, H. 126
 Baumann, H. 61
 Baumgartner, S. 84
 Baun, A. 135
 Baussant, T. 69
 Bautista, B. 122
 Baxa, D. 91
 Bayer, B. 52
 B, Barbosa, A. 118
 Beamish, R. J. 127
 Beaton, A. D. 138
 Beaujodoin, D. J. 112
 Beaugrand, G. 82
 Beaulieu, C. 81, 127
 Beaulieu, J. J. 91, 92
 Beaumont, C. 102
 Beaver, J. R. 83
 Bebas, P. 73
 Bec, A. 117, 131
 Béchemin, C. 81
 Becher, M. 83
 Becker, V. 126
 Beckett, S. J. 134
 Beckerle, J. S. 114
 Beck, M. 64
 Beckmann, A. 60
 Bécquet, V. 61
 Beddows, P. 54
 Bedmar, E. J. 85
 Bednarsek, N. 46, 136
 Bedulina, D. S. 87
 Beecraft, L. 65
 Behl, S. 56
 Behounek, B. 71, 72, 126
 Behrenfeld, M. J. 109
 Behrmann-Godel, G. 56
 Beier, S. 68
 Beinart, R. A. 108
 Beisner, B. E. 113
 Beisser, D. 102
 Beklioglu, M. 92, 126
 Beklioglu, M. 126
 Belcher, A. C. 53
 Bellanco-Esteban, M. J. 110
 Bellanco, M. J. 119
 Bell, G. 114
 Belmonte, A. 84
 Belmonte-Izquierdo, Y. 92
 Belshe, E. F. 137
 Beltrán-Abaunza, J. M. 62
 Benavente, J. 129
 Benavides, M. 136
 Ben Avraham, Z. 54
 Ben-Avraham, Z. 122
 Bender, C. 126
 Bender, S. J. 48
 Bendíf, E. M. 102
 Bende, J. A. 109
 Ben-Dor, S. 112
 Ben-Dov, E. 78
 Bendtsen, J. 85, 105
 Benedetti-Cecchi, L. 48
 Benejá, M. 92
 Benetti, C. J. 69
 Beneyto, D. 89
 Benfield, M. 115
 Bengtsson, M. M. 86, 105
 Benincà, E. 66
 Benítez-Barrios, V. 103
 Benítez-Nelson, C. 44, 58, 84, 132
 Benítez-Nelson, C. R. 58, 84, 132
 Benito, X. 73
 Benjamin, J. 48
 Bennett, S. 127
 Bennett, W. W. 48
 Benning, L. G. 58
 Benoit, D. M. 88
 Bentaleb, I. 87
 Bentzon-Tilia, M. 51
 Beraldo Bittar, T. 98
 Bercel, T. 90
 Bercovici, S. 45
 Berdalet, E. 60, 64, 90, 95
 Berga, M. 68, 105
 Bergamaschi, B. 60, 66
 Bergaminio, L. 86
 Bergan, A. J. 46
 Bergauer, K. 52
 Berg, C. 52
 Berge, J. 58, 116
 Bergen, B. 50
 Berger, C. 102
 Berger, S. A. 112, 113
 Berge, T. 108
 Berggren, H. 97
 Berggren, M. 57
 Berggren, M. 52, 72, 77, 86
 Berghahn, R. 134
 Bergillos, R. J. 122, 129
 Berglund, C. 130
 Berg, P. 106, 117
 Bergqvist, J. 91
 Bergström, A. 64, 67, 86, 112
 Bergström, A. K. 64, 86, 112
 Bergström, I. 52
 Berg, T. 104
 Berhmann, K. 70
 Berline, L. 108
 Berman-Frank, I. R. 45
 Berméjo, M. 85
 Berméjo, R. 50
 Bernal, L. M. 76
 Bernal, S. 63, 79, 111
 Bernard, E. 102
 Bernández, P. 109
 Bernard, O. 60
 Bernard, O. 119
 Bernard, R. J. 117
 Bernard, S. 134
 Bernát, G. 124
 Bernatowicz, P. 73, 89
 Berney, C. 108
 Bernhard, J. M. 73, 85, 108
 Bernhardt, E. S. 54, 74
 Bernhardt, P. 57, 71, 72, 118
 Bernhardt, P. W. 71, 72, 118
 Berrached, C. 113
 Berthélémy, P. 86
 Berthiaume, C. 66
 Bertilsson, S. 49, 60, 68, 92, 116
 Bertolotto, P. L. 96
 Bertoni, R. 88, 98
 Bertos-Fortis, M. 47
 Bertrand, E. M. 108
 Bertzky, B. 82
 Besemer, K. 68, 128
 Bessette, S. 122
 Beszczynska, A. 53
 Bettigole, C. B. 63
 Bettoso, N. 101
 Beusen, A. 49
 Beynon, R. j. 51
 Beynon, R. J. 109
 Beyrend, D. 114
 Bezerra-Neto, J. F. 99, 120
 Bezirci, G. 126
 Bhaskar, D. 52
 Bialonski, S. 60
 Biancalana, F. 99
 Bianco, C. 90
 Biard, T. 45, 103
 Biasi, C. 111
 Biastoch, A. 54
 Bibby, T. S. 74, 119, 131
 Bibiloni, J. I. 76
 Bicak, M. 94
 Bicego, C. M. 124
 Biddle, J. F. 52
 Bidle, K. 45, 112, 120, 121, 135, 136
 Bidle, K. D. 112, 120, 121, 136
 Bielawski, J. P. 77
 Bienhold, C. 69
 Bieniek, B. 82
 Bierlein, K. A. 48, 104
 Bierschenk, A. M. 134
 Bierschenk, B. M. 115
 Bigirimana, B. 52
 Bigler, C. 59

- Bigler, C. 108
 Bila-Isia, I. 96
 Bill, B. D. 99
 Billerbeck, S. 128
 Billett, M. F. 53
 Bingham, B. 71, 118
 Bingham, B. L. 71
 Binkley, C. 71
 BioMarKs Consortium, . 103
 Biondo, P. 44
 Birchfield, M. K. 104
 Birch Lundgaard, A. S. 131
 Birkeland, M. J. 99
 Bischof, K. 61
 Bishop, K. 53, 60, 61, 96
 Bishop, K. H. 53, 60
 Bishop, M. J. 61
 Biswas, H. 65
 Bittig, H. C. 45
 Bittner, L. 102, 103, 108
 Bizic-Ionescu, M. 63, 91
 Bjørke, O. 130
 Bjelland, R. 61
 Bjerring, R. 129
 Bjørbaekmo, M. M. 94, 102, 103
 Björklund, K. R. 102
 Björn, E. 60, 105
 Blaas, M. 66
 Blackburn, M. 63
 Blackford, J. 113
 Blackwelder, P. 46
 Blain, S. 56, 78
 Blalock, B. 71
 Blanchfield, P. 86, 121
 Blanchfield, P. J. 121
 Blanco Bercial, L. 94
 Blanco-Bercial, L. 76, 80, 104
 Blanco, J. M. 56, 94
 Blanco, R. 127
 Blanda, E. 112
 Blasco, D. 80, 81, 95
 Blasius, B. 114
 Blauw, A. N. 66
 Bleich, M. 73
 Blicher, M. 88
 Blodau, C. 121
 Blommaert, L. 110
 Blomqvist, P. 60
 Blumentrath, S. 130
 Blum, L. 110
 Bobrova, O. 130
 Bobrova, O. N. 130
 Bobyreve, N. S. 121
 Boccara, A. C. 135
 Boccara, M. 110, 135
 Bochow, M. 135
 Bock, C. 80, 102
 Bock, M. E. 101
 Bode, A. 68, 81, 95, 103, 104, 131
 Bode, A. M. 103
 Bodelier, P. 108
 Bodmer, P. 53
 Bodrossy, L. 60
 Boéchat, I. 132
 Boehrer, B. 109, 130
 Boekhout, T. 120
 Boenigk, J. 94, 102
 Boero, F. 85
 Boersma, M. 45, 46, 61, 100, 132
 Boetius, A. 69, 133
 Boeuf, D. 51
 Bograd, S. J. 45
 Bohorquez, J. 98
 Bohórquez, J. 84, 90, 98, 114
 Boike, J. 130
 Boisset, C. 86
 Boix, D. 56, 105
 Bokuniewicz, H. 64
 Bokuniewicz, H. J. 64
 Bollinger, C. 113
 Bollozos, I. S. 51
 Boll, T. 92
 Bolton, C. 106
 Bombar, D. 123
 Bombled, B. 49, 113
 Bonachela, J. A. 67
 Bonada, N. 112
 Bonaglia, S. 69, 99, 116, 132
 Bonato, S. 66
 Bondar-Kunze, E. 57
 Bondoc, K. V. 45
 Bongiorni, L. 133
 Bontempi, G. 108
 Bookman, R. 122
 Boothe, G. C. 46
 Booth, M. 110
 Bopp, L. 82
 Borchard, C. 96
 Bordehore, C. 85, 97
 Borges, A. V. 57, 63, 84, 96, 111
 Borisov, S. 91, 123, 133, 137
 Borisov, S. M. 91, 123, 133, 137
 Borja, A. 104
 Borja, Á. 79
 Borkman, D. 85
 Bork, P. 103
 Bormans, M. 47, 89, 120
 Borrego, C. M. 111
 Borrull, E. 81, 128
 Børshøj, K. Y. 59
 Borthagaray, A. I. 105
 Bortolini, J. C. 124
 Bortolotti, L. E. 52
 Bortoluzzi, G. 88
 Bosarge, G. S. 110
 Boscaini, A. 47
 Bosch-Belmar, M. 85
 Bosch, D. 87
 Boschker, E. 46
 Boschker, H. T. 51, 69
 Boss, E. 102
 Bostock, H. 97
 Boswell, K. M. 87
 Botebol, H. 48
 Böttcher, M. E. 75, 85
 Bottero, J. Y. 86
 Bouchard, F. 92
 Bouchet, S. 60, 105
 Bouffard, D. 45, 62
 Bouget, F. 48
 Bouillon, S. 57, 63, 84, 96
 Boukli, N. 71
 Bouma, T. 82, 129, 130
 Bouma, T. J. 82, 129, 130
 Bouquet, J. M. 46
 Bourbonnais, A. 51, 131
 Bourbonniere, R. 71, 95
 Bourbonniere, R. A. 95
 Bourbonniere, R. A. 126
 Bourdier, G. 117, 131
 Bourdon, J. 119
 Bourque, J. R. 114, 122
 Boutorh, J. 124, 125
 Bouvier, T. 108
 Bouvy, M. 137
 Bouwman, L. 126
 Bovee, R. J. 87
 Bowen, J. L. 44, 55
 Bowen, K. 117
 Bowes, R. 62
 Bowler, B. C. 88
 Bowler, C. 48, 103, 108, 110, 112, 135
 Boxhammer, T. 61
 Boyce, D. G. 113
 Boyd, G. 135
 Boyd, P. 61, 74
 Boyd, P. W. 74
 Boye, M. 99, 120
 Boyer, E. 60
 Boyer, J. 110
 Boyero, L. 62
 Bozman, A. 85
 Bracco, A. 132
 Bracher, A. 66, 96
 Bracher, A. U. 66
 Brack, W. 54
 Bradbury, I. R. 80
 Bradie, J. N. 55
 Bradley, A. M. 137
 Bradley, B. G. 120
 Bradley, C. J. 62
 Bradley, R. S. 71
 Bradt, S. R. 62
 Brahamsha, B. 48
 Bramard, J. f. 86
 Bramburger, A. J. 109
 Branchini, S. 102
 Branco, C. W. 72
 Brand, A. 49, 92, 106, 123
 Brandão, L. P. 120
 Brandes, J. 58, 98
 Brandes, J. A. 98
 Brandily, C. 113, 122
 Brandini, N. 123
 Brandner, V. W. 106
 Brandt, P. 54
 Branoff, B. L. 78
 Branstrator, D. K. 104
 Brasil, J. 126
 Bratbak, G. 107
 Brauer, V. S. 108
 Braun, E. 44
 Bravo, A. G. 60, 105
 Bravo, H. R. 45
 Bravo, M. A. 77
 Bravo, Z. 97
 Brawata, R. 127
 Brayshaw, S. 109
 Brebion, J. 48
 Breiner, H. W. 120
 Breland, M. 44
 Brendonck, L. 80, 89, 92
 Brennwald, M. S. 67
 Brentrup, J. A. 57
 Bresciani, M. 134
 Bresnahan, P. J. 70, 137
 Brewer, P. 92
 Brewer, P. G. 92
 Briand, E. 47, 120
 Brent, L. 47
 Brightenti, L. S. 99, 120
 Brighi, C. 101
 Bright, J. 109
 Brigolin, D. 81
 Briones, M. J. 101
 Briski, E. 55
 Bristow, L. A. 118
 Broadhead, T. S. 71
 Brocke, H. 74, 127
 Brocke, H. J. 74, 127
 Brodie, J. E. 82
 Brodin, T. 131
 Broeg, K. 135
 Broek, T. 83
 Broman, E. 98, 105
 Bronk, D. A. 106, 107, 117, 132
 Brönmark, C. 77
 Brooke, S. 114
 Brookes, J. D. 127
 Brook, G. 107
 Broomhead, G. 92
 Brosnahan, M. L. 66, 103, 127
 Brothers, S. 105, 112
 Brothers, S. M. 105
 Brotz, L. 85
 Brown, H. I. 61
 Brown, B. L. 48, 105
 Brown, C. M. 119, 136
 Brown, E. A. 55, 56
 Browne, K. J. 131
 Brown, K. S. 136
 Brownlee, C. L. 91
 Brown, M. B. 76
 Brown, M. E. 104
 Brown, N. E. 55
 Brown, T. 91
 Bruce, L. C. 49
 Brucet, S. 56, 67, 92, 126
 Brüchert, V. 53, 99, 132
 Bruckner, A. 133
 Bru, E. 122
 Bruesewitz, D. 126
 Brum, J. R. 103
 Brumsack, H. 64, 76
 Brumsack, H. J. 64
 Brun, F. G. 73, 82, 95, 123
 Brunner, R. 127
 Bruno, D. 54
 Bruno, M. 110, 119
 Brussaard, C. 113, 132
 Brussaard, C. P. 132
 Brutemark, A. 50
 Bryant, L. D. 51
 Brylinski, J. M. 82
 Bryson, S. 86, 88, 128
 Bryson, S. J. 86
 Brzezinski, M. A. 59, 88, 112
 Bucak, T. 126
 Buccarelli, E. 48
 Buccarelli, E. 124
 Buchaca, T. 73, 109
 Buchan, A. 120
 Buchanan-Dunlop, J. 69
 Buchanan, R. 102
 Buck, C. S. 58
 Buck, J. J. 138
 Buck, K. N. 58
 Buck, K. R. 69, 92
 Bucklin, A. 76, 80, 94, 104
 Budd, D. 133
 Budillon, G. 78
 Budinich-Abarca, M. A. 100
 Budinich, M. 119
 Bueche, T. 49
 Buelo, C. 127
 Bühring, S. I. 84
 Buia, M. C. 98, 133
 Bujan, S. 64
 Bukerpile, D. E. 136
 Bukhari, S. J. 120
 Bull, A. S. 134
 Bullejos, F. J. 132
 Bulski, K. E. 97
 Bunge, J. 103
 Bunse, C. 46, 100
 Buosi, P. B. 98
 Buquet, D. 64
 Burd, A. B. 115
 Burdett, H. L. 92
 Burdige, D. 71, 128
 Burdige, D. J. 71
 Burdorf, L. 69
 Burger, M. K. 55
 Burgin, A. 52

- Burgina, C. B. 54
 Burian, A. 46
 Burkhardt-Holm, P. 135
 Burkovski, A. 109
 Burlakova, L. E. 55
 Burmester, L. 71
 Burns, N. R. 86
 Burns, W. 48, 91
 Burns, W. G. 48
 Burpee, B. T. 96
 Burrell, T. J. 132
 Burrel, T. 100
 Burrows, R. M. 52, 57, 64
 Burson, A. 132
 Burton, A. 121
 Busch, J. A. 94, 102
 Busch, K. 53
 Busch, M. 60
 Busch, S. 46
 Buskey, E. J. 59, 90
 Bustamante, M. 52
 Bustamante, P. 62, 76
 Butenschon , M. 54
 Butera, E. 130
 Butkiewicz, L. 102
 Butterfield, D. 83, 100
 Butterfield, D. A. 100
 Büttner-Koch, C. 124
 Button, J. B. 136
 Butturini, A. 75, 79
 Bynes, K. 71
 Byrne, D. J. 53
 Bystedt, D. 113
 Byström, P. 113
- C**
- Caamal, J. S. 137
 Cabaco, S. 133
 Caballero, I. 119, 129
 Cabello, A. 102, 114
 Cabello, A. M. 102
 Cabeza, C. 114
 Cable, J. 101, 137
 Cable, J. E. 137
 Cabral, A. F. 98
 Cabrera, O. C. 50, 124
 Cabrerizo, M. J. 94, 124, 132
 Cacho , I. 106
 Cacho, I. 84, 85, 97
 Caetano, M. 133
 Caffrey, J. M. 64, 78
 Caiola, N. 55, 79, 105, 130
 Cai, W. 44
 Caixach, J. 128
 Çakiroglu, I. 126
 Calado, R. 61
 Calafat, A. 53
 Calbet, A. 73, 85
 Caldwell, T. 57
 Calenti, D. 98
 Callil, P. H. 54
 Callaghan, D. P. 129
 Callaway, J. 130
 Callbeck, C. 132
 Calliari, D. 58, 59, 73, 128
 Calliari, D. L. 58, 59, 73
 Callieri, C. 88, 98
 Callier, M. 137
 Callol, A. 117
 Calomeni, A. J. 124
 Calosi, P. 89
 Calvert, M. 44
 Calvo-Díaz, A. 51, 81, 135
 Calvo, E. 46, 73, 80, 97, 106
 Camacho, A. 83
 Camarena Gomez, M. T. 65
 Camarena, T. 132
 Camarero, L. 108, 111
 Camatti, E. 82
 Camilli, R. 137
 Campagna, S. R. 113, 120
 Campbell, A. L. 61
 Campbell, D. 119
 Campbell, D. A. 119
 Campbell, L. 48, 50
 Campbell-Swarzenski, P. 114
 Campeau, A. 53
 Camp, E. F. 46
 Camp, J. 120
 Campos, M. J. 81
 Campoy, A. N. 118
 Campsteijn, C. 86
 Cañavate, J. P. 75
 Cañedo-Argüelles, M. 67, 105
 Canelhas, M. R. 68, 92
 Cañellas-Boltà, N. 73
 Canepa, A. 85, 97
 Canepa, A. J. 97
 Canepa, G. 100
 Canepa Oneto, A. 85
 Cantoni, C. 88
 Capaccioni, B. 133
 Caparros, J. 51
 Capella, J. E. 124
 Capelli, C. 47, 74
 Capello, M. 78, 100
 Caprais, J. 113, 114, 122
 Caprais, J. C. 114, 122
 Capson, T. 67
 Caputi, L. 110
 Capuzzo, E. 120
 Carassou, L. 86
 Carbajal, V. 75
 Carballeira, R. 127
 Carcillo, F. 108
 Cardellichio, N. 82
 Cárdenas, D. 109
 Cardinal, D. 52
 Cardoso, A. C. 67
 Cardoso Lisboa, C. 91
 Cardwell, C. L. 137
 Carey, C. C. 104, 127
 Carlson, C. 88, 110
 Carlson , C. A. 128
 Carlson, C. A. 88
 Carlson, L. 110, 112
 Carlson, L. T. 112
 Carlson, M. G. 136
 Carlson, P. E. 56
 Carlton, R. 133
 Carmichael, M. 102, 108
 Carmichael, R. H. 78
 Carmona, M. J. 89
 Carmona, R. 62
 Caro, A. 137
 Caron, D. A. 60
 Caroppo, C. 82
 Caroselli, E. 133
 Carpenter, R. C. 46
 Carpenter, S. 56, 127
 Carpenter, S. R. 127
 Carrasco, M. 98
 Carreiro-Silva, M. 118, 133
 Carreño, F. 51
 Carrera, A. 124
 Carrevedo, M. 109
 Carricart-Ganivet, J. P. 133
 Carrillo de Albornoz, P. 103
 Carrillo, L. 137
 Carrillo, P. 77, 94, 118, 124, 132
 Carroll, K. 71
 Carslaw, K. S. 58
 Carstensen, J. 50, 60, 61, 84, 104, 129
 Carter, A. 54
 Carter, J. R. 66
 Carufel, E. R. 64
 Carvalho, L. 62
 Carvalho, L. A. 62
 Casacuberta, N. 115
 Casagrande, D. S. 123
 Casal, G. 62
 Casamayor, E. O. 54, 94, 111
 Casares Ortega, V. M. 77
 Casas, J. J. 79, 126
 Casas-Ruiz, J. 57, 67, 75
 Casas-Ruiz, J. P. 57, 67, 75
 Casas-Ruiz, J. P. 52
 Casas-Ruiz, M. 84
 Casciotti, K. L. 68, 131
 Casellas, M. 54, 75
 Casini, M. 47
 Casper, N. 95
 Casper, P. 53, 91, 92
 Cassio, F. 126
 Castellani, C. 58
 Castellano, I. 95
 Castellano, M. 100
 Castelo Branco, C. W. 104
 Castiglion, R. 58
 Castiglion, S. 60
 Castilla, J. C. 82
 Castro, C. G. 49, 65, 76, 122, 136
 Castro, P. 44
 Castro, S. M. 71
 Català, A. 97
 Catalán, J. 94, 105, 108, 109, 111, 119
 Catalán, N. 52, 57, 63, 75
 Català, P. 51
 Catalá, T. S. 80, 83, 103
 Cat Berro, D. 96
 Cathalot, C. 106, 113, 114, 122
 Cavalieri, D. 74
 Cavan, E. L. 53
 Cearreta, A. 73
 Ceballos, E. V. 54
 Ceballos-Romero, E. 54
 Ceccaroni, L. 102
 Cedhagen, T. 51
 Celine, D. 110
 Celio, M. 88
 Celussi, M. 53, 91
 Cembella, A. 103, 127
 Cembella, A. D. 127
 Cerasino, L. 47, 74
 Cerdà-Doménech, M. 64
 Cermenó, P. 106
 Cermeño, P. 60, 80, 81, 119, 136
 Cervetto, G. 58
 Cervin, G. 130
 Céspedes, V. 92
 Cetinic, I. 105
 Chaalali, A. 82
 Chace, P. J. 100
 Chaffron, S. 103, 108, 110
 Chaigneau, A. 136
 Chain, F. J. 55
 Chalmers, R. 64
 Chandler, J. 68
 Chandra, S. 57, 87
 Chan, F. T. 55
 Chang, B. 118
 Chang, J. 119
 Chang, S. M. 59
 Chanton, J. 120, 128
 Chantong, J. P. 120
 Chanudet, V. 53, 92
 Chaouni, B. 110
 Chaparro, G. 122
 Chapina, R. J. 71
 Chapman, I. J. 66
 Chapman, P. 72
 Chappell, N. 64
 Chappuis, E. 111
 Charbonnier, C. 64
 Chari, L. 86
 Charles, C. 121
 Charoenvattanaporn, J. 66, 84
 Charpentier, C. L. 130
 Charrieau, L. M. 50
 Charvat, F. 110
 Chaumot, A. 126
 Chavagnac, V. 83
 Chavez, F. P. 122
 Chavez- Ramos, J. 71
 Chaya, A. 122
 Chein, C. 65
 Cheize, M. 124, 125
 Chelsky, A. 48
 Chemello, R. 97
 Chen, C. A. 108
 Cheng, H. 84
 Cheng, S. 101
 Chen, H. 105, 106, 124
 Chen, J. 107, 117
 Chen, K. 136
 Chen, R. F. 70, 137
 Chen, S. S. 84
 Chenui, A. 80
 Cherif, M. 81
 Cherrier, J. 54, 137
 Chetverova, A. 96, 130
 Chetverova, A. A. 130
 Cheung, V. 70
 Chiarella, A. M. 93
 Chiarore, A. 98
 Chiba, S. 114
 Chicharo, L. 118
 Chierici, M. 50, 88
 Chifflet, M. 82
 Chigbu, P. 71, 78, 116
 Chiggiato, J. 88
 Chikamoto, M. 97
 Chikaraishi, Y. 62
 Chikita, K. 130
 Chin, W. C. 90
 Chmiel, H. E. 63
 Cho, H. 72, 76
 Cho, H. M. 76
 Choi, A. 72
 Choi, C. J. 118
 Choi, D. 123
 Choi, D. H. 123
 Choi, I. 135
 Chouciño, P. 60, 81, 119, 131, 136
 Chow, S. T. 91
 Chrachri, A. 91
 Chrismas, N. 74
 Christaki, U. 56, 86
 Christensen , T. R. 57
 Christie, M. 64
 Christie-Oleza, J. A. 88
 Christl, M. 115
 Christodoulaki, S. 107
 Chronis, I. 47
 Chu, G. 108
 CHung, J. S. 71
 Chung, K. 44
 Church, T. M. 58
 Chu, S. N. 137
 Chust, G. 55, 80

- Ciavatta, S. 46
 Cibic, T. 82, 101, 133, 134
 Ciborowski, P. 71
 Cigliano, J. A. 102
 Cirino, P. 95
 Cisternas-Novoa, C. 91
 Claessens, M. 136
 Claisse, J. T. 134
 Claps, M. C. 95
 Claquin, P. 90, 124
 Claramunt, I. 49
 Clarke-Hopcroft, C. 51
 Clarke, J. 123
 Clark, H. 61
 Clark, J. 67
 Clark, S. J. 133
 Claudet, J. 74
 Clavero, M. 55
 Clayton, C. 66
 Cleary, A. 71
 Cleary, B. 108
 Cleary, J. 138
 Clemmesen, C. 61
 Clercin, N. 126
 Cline, T. 56
 Clissold, F. J. 132
 Cloern, J. E. 60, 104
 Close, H. G. 53
 Closek, C. 100
 Closs, G. P. 115
 Coca, J. 78
 Coccia, C. 62, 92
 Cochrane, S. 104
 Cochran, J. K. 64
 Cockshutt, A. M. 119
 Coelho, L. P. 110
 Coelho, M. M. 61
 Cohen, A. L. 92
 Cohen, J. H. 124, 130
 Cohen, M. J. 132
 Cohen, N. R. 48
 Cohen-Rengifo, M. 61
 Colautti, D. C. 95
 Colbert, S. 44
 Cole, J. 52, 56, 127
 Cole, J. 52, 127
 Cole, M. J. 135
 Cole, S. 116
 Colin, S. 90, 108
 Colin, S. P. 90
 Coll Crespi, M. 123
 Collins, A. 68
 Collins, C. A. 122
 Collins, J. R. 112, 120
 Coll, M. 107
 Coloma, S. E. 135
 Colombet, J. 121
 Coma, R. 46, 73
 Comas, M. 84
 Combe, C. 119
 Comeau, A. 60
 Comeau, S. 46
 Company, J. B. 99
 Compère, P. 111
 Compte, J. 56
 Comtet, T. 91
 Conde-Porcuna, J. M. 86, 89, 95, 98, 109
 Confalonieri, F. 138
 Confurius-Guns, V. 108
 Congolobe-group, A. 113
 Conley, D. 76
 Conley, D. J. 50
 Conley, K. 88, 97
 Conn, B. D. 55
 Connally, D. 83, 113
 Connally, D. P. 83
 Consi, T. 69
 Conte, M. 96
 Contreira, L. 124
 Cook, P. 69
 Cook, P. L. 69
 Cooper, C. 49
 Copeman, L. A. 44, 87
 Coppens, J. 126
 Coppola, L. 108
 Coquery, M. 54
 Corcoll, N. 75
 Cordes, E. E. 69
 Cordoba, G. C. 44
 Corell, H. 80, 91
 Cornejo-Castillo, F. M. 103, 108, 110, 111
 Cornell, S. R. 130
 Cornils, A. 133
 Corno, G. 88
 Cornwell, J. 48, 64, 120
 Cornwell, J. C. 48, 64
 Coroninas, L. 55
 Corradino, L. 138
 Corrales, X. 107
 Corredor, J. E. 117
 Corre, E. 88, 103
 Cortés, D. 58, 110
 Cortes, N. 128
 Corti, R. 126
 Corvaisier, R. 114, 122
 Corzo, A. 84, 90, 98, 114
 Cosby, B. 57
 Cosby, J. 64
 Cosio, C. 60
 Cosme, N. 51, 70
 Cossart, R. 127
 Costa, A. 75, 91
 Costa, A. C. 75
 Costa-Böddeker, S. 79
 Costa, J. E. 44
 Costa, L. 105
 Costa, M. 106, 121, 133
 Costa, M. J. 106
 Costa, M. M. 133
 Costa, P. 120
 Costa, S. 100
 Costea, P. I. 110
 Costello, J. H. 90
 Cote, M. 67
 Cotner, J. B. 68, 132
 Cotner, S. C. 70
 Cotner, S. H. 69
 Cotovitz Jr, L. C. 123
 Cotroneo, Y. 72
 Cottrell, M. T. 120
 Couceiro, F. 49
 Countway, P. D. 100
 Cournoyer, B. 128
 Courties, A. 51
 Coutinho, L. C. 62
 Couto, J. 109
 Couto, R. 118
 Coví, C. 102
 Cowen, R. K. 114
 Cowles, T. J. 58
 Cox, E. 92, 100
 Cox, T. 61, 71, 92
 Cox, T. E. 61, 92
 Coyne, K. J. 90
 Cozar, A. 103
 Cózar, A. 53, 117, 135
 Cozzi, S. 88, 116
 Craig, N. 112
 Cramer, K. 44
 Crawford, J. T. 92
 Creach, V. 65, 66
 Créach, V. 66
 Crespi, M. C. 123
 Crespo, G. A. 123
 Crespo, J. M. 98
 Cressman, K. 78
 Crill, P. 91
 Crise, A. 82
 Crispim, M. C. 94
 Cristescu, M. 55, 56, 105
 Cristescu, M. E. 56
 Croguennec, C. 113, 122
 Crooks, J. A. 93
 Cross, E. L. 73
 Cruaud, C. 110
 Cruz, J. 118
 Cruz-Marrero, W. 71, 120
 Cruz Pizarro, L. 129
 Cruz-Pizarro, L. 116
 Cuhel, R. L. 64, 69, 95
 Cullen, J. T. 121
 Culver, B. 136
 Cummings, D. G. 128
 Cunha, D. G. 102
 Cunliffe, M. 46, 69
 Cunningham, A. 123, 134
 Currie, K. I. 87
 Currier, C. M. 118
 Currie, W. J. 117
 Curtarelli, M. P. 74
 Curtis, C. J. 59
 Cusack, M. 88
 Cutroneo, L. 78, 100
 Cutter, L. S. 51
 C. Uyarra, M. 79
 Cvetanovska, E. 55
 Cvitkovic, I. 107
 Czerny, J. 61
 Czesny, S. 87
- D**
- Dabrin, A. 54
 Dabundo, R. 131
 Dacey, J. J. 76
 Dachs, J. 54, 80, 81
 Dadi, T. 48
 Dadon-Pilosof, A. 88, 97
 Dafnomili, E. 73
 Dahl, K. 129
 Dahlke, F. T. 61
 Dainard, P. 84
 Dakos, V. 127
 Dale, A. 51, 131
 Dale, A. W. 131
 D'Alelio, D. 67, 82
 Dale, T. 82
 Daley, J. 121
 Daley, M. 68
 Dalu, T. 86
 Daly Yahia Mohamed , N. 85
 Daly Yahia, N. 85
 Damashék, J. 68
 Damerell, G. M. 114
 Dam, H. G. 128
 Damian, A. 85
 Damir, T. 57
 Danckaert, T. 62
 D'Andrea, W. J. 71
 D'Angelo, P. 138
 Danielidis, D. 95
 Daniel, R. 128
 Daniels, W. C. 59
 Danks, G. B. 86
 Dansereau, D. G. 137
 Dantas, E. W. 126
 Darchambeau , F. 57
 Darchambeau, F. 63, 84, 96, 111
 Darnis, G. 58, 116
 Darr, A. 68
 Darrow, E. S. 78
 Darzi, Y. 108
 da Silva, J. 136
 Dauvin, J. C. 82
 David, C. 87
 David, H. 119, 124
 Davies, A. 114
 Davies, K. 58
 Dávila-Santiago, E. 119
 Davin, E. 75
 Davis, C. 52, 71
 Davis, C. D. 71
 Davis, J. 108
 Davis, K. A. 136
 Davis, S. 88
 Davout, D. 67
 Davydova, A. 105
 Dawodu, D. 130
 Dean, J. L. 51
 de Araujo Torres, C. 47
 Dearth, S. 113
 De'ath, G. 133
 de Baar, H. J. 124
 de Baat, M. 74
 De Baat, M. L. 127
 de Beer, D. 49, 74, 91, 133
 De Bie, T. 126
 de Boer, W. 129
 De Brabandere, L. 116, 132
 Debrosas, D. 47, 90, 98
 DeBruyn, J. M. 135
 Decaestecker, E. 98
 De Carlo, E. H. 87
 DeCarlo, T. M. 92
 de Castro, N. 54
 Decelle, J. 102, 108
 Décima, M. 58
 Decima, M. R. 62
 Decker, C. 122
 Deckers, J. A. 126
 Declerck, S. 105, 114
 DeClerck, S. A. 126
 De Corte, D. 51, 118
 Deemer, B. R. 91, 104
 de Etyo, E. 56
 De Goeij, J. M. 63
 DeGrandpre, M. 88
 Degregori, S. 44, 71
 Degteva, G. N. 121
 Deheyen, D. D. 44
 Deidun, A. 85
 Deininger, A. 112
 Deirmendjian, l. 63
 Deirmendjian, L. 64
 Dejenie, T. 126
 DeJong, H. 45
 DeJong, H. B. 45
 De Jong, J. 124
 dejuan, S. 82
 Dekaezemacker, J. 73, 132
 de Klein, J. 49
 de la Broise, D. 99
 De la Broise, D. 120
 de Lange, G. 84, 85, 97, 106
 de Lange, G. J. 85, 97
 De Lange, G. J. 84
 de la Paz Arandiga, M. 118
 de la Paz, M. 110
 de la Torre, A. 68
 DeLaune, R. 51
 del Campo, R. 63
 Delerue-Ricard, S. 99
 Delgadillo-Hinojosa, F. 114
 Delgado, A. 103

- Delgado-Huertas, Antonio, A. D. 103
 Delgard, M. L. 106
 del Giorgio, P. 53, 66, 86, 91, 128
 del Giorgio, P. A. 53, 66, 86, 128
 del Giorgio, P. D. 66
 Delhaye, T. 89
 Delille, J. 61, 100
 Dellaripa, N. W. 59
 Dellwig, O. 75, 85, 138
 Del Mar Sánchez-Montoya, M. 126
 Del Negro, P. 53, 82, 91, 101, 134
 Delon, C. 53
 De Longchamp, D. 47
 DeLorenzo, M. 44
 Delory, E. 138
 de los Ríos, A. 83
 del Rosal Salido, J. 110
 DelSontro, T. 91
 Demarty, M. 53
 De Mas, L. 133
 Demeester, L. 108
 De Meester, L. 105, 126, 127
 de Mendoza, G. 105
 Demeter, K. 52, 106, 128
 De Mol, B. 137
 Demopoulos, A. 114, 122
 Demopoulos, A. W. 114, 122
 Demuzere, M. 75
 Denfeld, B. A. 63, 92
 Dengler, M. 51
 Deng, X. 87
 den Haan, J. 74
 Den Haan, J. 127
 Denicola, A. 59, 73
 Denis, K. 90
 Denis, M. 65
 Denis, N. 53
 Dennielou, B. 113
 Dennis, K. J. 66
 Denoux, C. 131
 Dentinger, J. 99
 de Olazabal, A. 116
 De Palmas, S. 108
 Depasquale, E. 61
 de Potter, K. 133
 De Prunelé, A. 122
 D'Erchia, A. M. 103
 de Roos, A. M. 127
 Desai, A. 62
 Descloux, S. 53, 92
 Descotes, M. 122
 Descy, J. 63, 96
 Descy, J. P. 63, 96
 Desdevives, Y. 135
 DeSellas, A. M. 102
 de Senerpont Domis, L. N. 47
 De Senerpont Domis, L. N. 64, 132
 Deshmukh, C. 53, 92
 Deshpande, B. 52
 De Smet, B. 56
 de Soto, F. C. 54
 Despalatovic, M. 107
 Dessier, A. 62, 76
 Desvillettes, C. 117
 Desvillettes, C. 131
 de Tezanos Pinto, P. 70, 89
 De Tezanos Pinto, P. 47
 De Troch, M. 56, 131
 Deutsch, B. 132
 Deutsch, C. 131
 de Vargas, C. 102, 103, 108, 111
 De Vargas, C. 108
 de Vernal, A. 77
 De Vicente Álvarez-Manzaneda, I. 116
 de Vicente, I. 77, 116, 129
 de Vicente, J. 116, 129
 De Vittor, C. 82
 Devlin, M. J. 82
 Devlin, S. P. 52, 112
 Devol, A. 118, 131
 Devol, A. H. 118, 131
 de Vries, M. B. 129
 De Wit, M. 127
 De Wit, P. 89
 Deyle, E. R. 112
 Diamond , D. 138
 Diamond, D. 138
 Dias, J. D. 101
 Diaz-Castañeda, V. 100
 Diaz-Castañeda, V. 61
 Diaz, D. 91
 Diaz de Quijano, D. 119
 Diaz Herrera , F. 81
 Diaz, J. M. 58, 101
 Diaz-Pérez, L. 81, 135
 Diaz Villanueva, V. 75
 DiBacco, C. 100
 Di Capua, I. 58, 107
 Di Cesare, A. 88
 Di Cioccio, D. 95
 Dickey-Collas, M. 82
 Dick, J. 55
 Dick, J. T. 55
 Dieckmann, U. 127
 Diéguez, M. C. 60
 Diehl, S. 45, 107, 112, 121
 Dietze, H. 118, 131
 Díez, B. 89
 Díez, J. 51, 109
 Díez Minguito, M. 78, 110
 Díez-Minguito, M. 122
 Di Iorio, E. 102
 Dillon, K. S. 78
 Di Lorenzo, E. 45
 Di Luca, G. 100
 DiMarco, S. F. 44, 72, 138
 Di Mauro, R. P. 115
 Dimier, C. 108
 Dimitriou, P. 73, 82, 113, 121
 Dimitriou, P. D. 73, 82, 113, 121
 Dimond, J. 118
 Dimova, N. 76
 Dinasquet, J. 56
 Di Natale, M. 130
 Ding, X. 51
 Diniz, M. E. 92
 Dinkel, C. 49
 Dinsmore, K. J. 53
 Dinter, T. 66
 Dippner, J. W. 50, 76
 Disbennett, D. A. 71
 Disegni, D. 85
 Dithmer, L. 129
 Dittmar, T. 57, 64, 76, 83, 84, 105, 106,
 128
 DiTullio, G. 45
 Djahanschir, B. 110
 Djouraev, I. 52
 Dmitriev, V. V. 130
 Dodds, W. K. 54
 Doering, M. 54
 Doglioli, A. A. 91
 Doheny, B. 134
 Dolan, J. R. 60
 Doll, C. 90
 Dolman, A. M. 112
 Dolz, J. 72
 Domaizon, I. 98
 Domingues, C. D. 90
 Domingues, R. B. 118
 Domínguez-Martín, M. A. 109
 Dominguez, R. 87, 136
 Donadi, S. 56
 Donahue, M. J. 46
 Donelson, J. M. 89
 Donepudi, S. R. 46
 Doney, S. C. 44
 Donham, E. 106, 133
 Donham, E. M. 133
 Donker, J. 117, 129
 Donker, J. J. 117
 Donner, B. 85
 Donohue, I. 55
 Donohue, J. 135
 Dooley, K. 44, 135
 Dopson, M. 46, 98
 Dorado-García, I. 118
 Dorador, J. 97
 Doran, P. T. 130
 Dorey, N. 61
 Dorman, C. E. 136
 Dornblaser, M. M. 92
 Dörsch, P. 66
 Dorsset, A. 80
 D'Orta, G. 72
 D'Ortenzio, F. 107
 Dos Santos, A. 136
 Doubek, J. P. 104
 Doucette, G. J. 66
 Doulcier, G. 103
 d'Ovidio, F. 108, 110
 Dowling, C. B. 130
 Downing, A. E. 107
 Downing, A. L. 48, 105
 Downing, B. 66
 Downing, J. A. 57, 112
 Doxaran, D. 134
 Doya, C. 69
 Drake, J. L. 46
 Drake, M. D. 99
 Drake, P. 75
 Drakou, E. 67
 Drapeau, D. T. 88
 Drazen, J. C. 53
 Dreger, K. 138
 Dreher, T. W. 126
 Drolet, D. 100
 Droz, L. 113
 Druga, B. 115
 Drummond, J. D. 63
 Druon, J. N. 67
 Drupp, P. S. 87
 D'Sa, E. J. 83
 Duan, H. 104
 Duarte, C. 61, 80, 81, 88, 103, 111, 121,
 135, 137
 Duarte, C. M. 61, 80, 81, 88, 94,
 103, 111, 121, 135, 137
 Duarte, S. 126
 Dubillot, E. 62
 Dubinenkov, I. V. 57
 Dubinsky, Z. 133
 Dubois, F. 90
 Dubois, P. 46, 61
 Dubovskaya, O. P. 55
 Dubreuil, C. 82
 Ducklow, H. 81, 110, 120
 Ducklow, H. W. 81, 120
 Ducrée, J. 138
 Duffy, G. 138
 Dufour, F. 80
 Dufour, K. 45
 Dugan, H. A. 130
 Dugan, J. E. 130, 134
 Dugenne, M. 65, 110
 Duguay, C. R. 130
 Duhaime, M. 113, 121, 135
 Duhaime, M. B. 113, 135
 Duhamel, S. 60
 Duineveld, G. 114, 122
 Dullo, C. 51
 Dumas, F. 58, 81
 Dumont, D. 51
 Dumoulin, J. 49, 113
 Dumoulin, J. P. 49
 Dunabin, M. D. 91
 Dunbar, R. 45, 78
 Dunbar, R. B. 45, 78
 Duncan, A. M. 46
 Dunn, K. A. 77
 Dunn, S. T. 66, 77
 Dupont, C. 47, 48
 Dupont, C. L. 48
 Dupont , S. 46
 Dupont, S. 47, 69, 89
 Dupuy, C. 62, 76, 90, 110, 137
 Durán, C. 77
 Durance, I. 64
 Durbin, E. 71
 Dur, G. 114
 Durham, B. P. 112
 Durif, C. 61
 Dür, H. H. 76
 Dutkiewicz, S. 53, 67, 81
 Duval, T. P. 63, 75
 Dyer, F. 127
 Dyhrman, S. T. 68, 102, 109, 112
 Dyksma, S. 90
 Dylla, N. P. 100

E

- Eberlein, T. 126
 Ebling, A. M. 58
 Echevarria, F. 103
 Echevarría, F. 94, 95, 110
 Echevarria, M. L. 111
 Ecker, U. 46
 Eddowes, D. 102
 Edelist, D. 107
 Edgcomb, V. P. 51, 85, 108, 118
 Edlund, M. B. 59
 Edmunds, P. J. 46
 Edwardsen, B. 86, 102, 135
 Edwards, B. R. 112
 Edwards, C. 47, 98
 Edwards, C. R. 98
 Edwards, J. 137
 Edwards, M. 66, 84
 Edwardson, C. F. 114
 Edwards, R. 49, 84
 Edwards, R. L. 84
 Effertz, C. 131
 Egan, K. 100
 Egea , L. G. 73
 Egea, L. G. 123
 Egerton, T. A. 78
 Egge, E. S. 86, 102, 135
 Egge, J. K. 107, 117
 Eggers, S. L. 105
 Eglington, T. I. 105
 Eglington, T. I. 105
 Egozcue, J. J. 56
 Ehama, M. 107
 Eibes, P. 121
 Eichner, M. J. 109
 Eick, K. C. 114
 Eiler, A. 68, 111, 116
 Eilola, K. 48
 Einarsdottir, K. 64
 Einarsson, A. 92, 99
 Eisenhaer, A. 106
 Ejarque, E. 79

- Ejsmond, M. J. 89, 128
 Eklöf, K. 60, 61
 Ekpo, I. E. 67
 Ekwall, M. K. 126
 El Far, A. M. 104
 Elfwing, T. 67
 El Ganairy, A. A. 104
 Elias, J. E. 59
 Elisabeth, N. 52, 118
 Elisabeth, N. H. 118
 Elliott, A. 127
 Elliott, D. T. 45, 97
 Ellis, L. S. 71
 Ellis, R. P. 61
 Ellwood, M. 48, 74
 El Madhi, A. 92
 El Mallahi, A. 90
 El Moumni, B. 110
 Elosgégi, A. 54, 55
 El Sawah, S. 127
 Elser, J. 90, 118, 132
 Elser, J. J. 90, 118
 Elster, J. 96
 El-Swais, H. 77
 El-Tourky, S. H. 60
 Elvert, M. 53
 Emerson, A. N. 44
 Emmerson, M. C. 55
 Enault, F. 51
 Endres, S. 50, 78
 Engel, A. 50, 78, 91, 96, 121
 Engelen, S. 110
 Engel, F. G. 96
 Engelhardt, C. 53, 113, 117
 Engesgaard, P. 76
 Enghoff, S. 73
 Englhart, S. 135
 Englund, G. 93, 130
 Engstrom, D. R. 59
 Engström-Öst, J. 50
 Enochs, I. 106, 133
 Enochs, I. C. 133
 Enrich-Prast, A. 80, 91, 106
 Enríquez, S. 133
 Erdner, D. 44
 Erdogan, S. 126
 Erhagen, B. 72
 Erikson, R. S. 81
 Eriksson, K. 76
 Eriksson, B. K. 56, 96
 Eriksson, S. P. 61
 Erik, Z. R. 113
 Erler, R. 135
 Erskine, S. J. 101
 Espino, M. 78, 136
 Espinosa, N. 58
 Essien-Ibok, M. A. 67
 Esteban, G. F. 66
 Esteves, A. M. 103
 Estevez, E. 77
 Estévez, E. 80, 127
 Estrada, M. 58, 60, 72, 81, 95
 Estrada, M. M. 72
 Ets-Hokin, J. M. 71
 Ettema, T. 116
 Evans, W. 88
 Eveillard, D. 103, 119
 Evers-King, H. 134
 Evrard, V. 69
 Evriviadou, M. 107
 Ewert, C. 88
- F**
 Faassen, E. 47, 74, 126
 Faassen, E. J. 74, 126
- Fabbro, C. 134
 Fabricius, K. 118, 132, 133
 Fabricius, K. E. 133
 Fadel, A. 47
 Fahl, K. 83
 Faillettaz, R. 114
 Fair, A. C. 130
 Fajans, J. 106
 Fajar, N. M. 88
 Falcon, L. I. 120
 Falco, P. B. 102
 Faleiro, F. 92
 Falini, G. 133
 Falkowski, P. G. 46, 106
 F. Angeli, J. L. 124
 Fang, X. 59
 Fanning, K. A. 84
 Farber Lorda, J. 73
 Farias, D. S. 104
 Farina, S. 82
 Farnelid, H. 47
 Farnham, D. J. 102
 Faugeron, S. 82
 Faust, K. 108
 Fawcett, S. 60
 Fay, C. 138
 Febbo, E. 120
 Fedala, Y. 135
 Fedorova, I. 96, 117, 130
 Fedorova, I. V. 130
 Feeley, H. B. 64
 Feibicke, M. 134
 Feijó de Lima, R. 132
 Feijó-Lima, R. 63
 Feike, J. 52
 Feinman, S. G. 44
 Fellner, N. 85
 Felcmanova, K. 109
 Felcmanová, K. 124
 Felip, M. 94, 111, 119
 Fellman, J. B. 105
 Feng, F. 51
 Feng, M. 54
 Feng, Y. 58
 Fennel, K. 44, 45, 128
 Fennimore, E. J. 69
 Ferguson, A. J. 48
 Ferland, J. 109
 Ferland, M. 63
 Fermani, P. 90
 Fernandes, J. A. 46
 Fernandez, A. 120, 132
 Fernández, A. 62, 131
 Fernandez-Bastero, S. 136
 Fernández, Bieito, B. F. 103
 Fernández Carrera, A. 80
 Fernández Castro, B. 131
 Fernández-Castro, B. 60, 81, 136
 Fernandez de Puelles, M. L. 103
 Fernández de Puelles, M. L. 95, 104
 Fernández, E. 65, 82, 107, 108, 109
 Fernandez-Gonzalez, N. 68
 Fernandez-Guerra, A. 111
 Fernandez-Gutierrez, A. 138
 Fernandez, J. M. 71
 Fernandez, M. 70, 82, 104
 Fernandez, P. 53
 Fernández Parra, L. 90
 Fernandez-Pinos, M. C. 81
 Fernández Prieto, D. 130
 Fernandez-Robledo, J. A. 100
 Fernandez-Sánchez, J. F. 138
 Fernández Sánchez, J. F. 123, 138
 Fernández-Urruzola, I. 94, 114, 122
 Ferrante, M. I. 45
- Ferraton, F. 137
 Ferreira, R. 62
 Ferreira, T. 118
 Ferreira, V. 75
 Ferrera, I. 103, 110, 120
 Ferriero, N. 100, 128
 Ferrier Pagès, C. 62, 63
 Ferriol, P. 68
 Ferrero, C. 116
 Ferse, S. 74, 99
 Ferse, S. C. 74
 Ferwerda, C. J. 87
 Feuchtmayr, H. 62
 Feudel, U. 60
 Fewings, M. R. 136
 Fichot, E. 120
 Fick, J. 131
 Fiedler, B. 131
 Fiedler, D. 123
 Fielding, S. 46
 Fields, D. 61, 88, 121, 124
 Fields, D. M. 88, 121, 124
 Fields, J. 135
 Fietzke, J. 133
 Figueiras, F. 65, 76, 109, 122, 136
 Figueiras, F. G. 65, 76, 122, 136
 Figueroa, F. L. 118
 Figueroa, F. L. 77
 Figueroa, M. 70
 Figuerola, J. 75, 80
 Fike, D. 48
 Fileman, E. 58
 Filippidi, A. 84
 Filippino, K. C. 71, 78, 119
 Filippova, N. 82
 Filipsson, H. L. 50, 85
 Filiz, N. 126
 Filker, S. 103, 120
 Fillol, M. 111
 Filstrup, C. T. 112
 Finazzi, G. 112
 Finch, S. 109
 Findeisen, U. 50
 Findlay, H. 46
 Finiguerra, M. 128
 Fink, A. 133
 Fink, P. 86, 130
 Finlay, K. 66
 Finstad, A. G. 130
 Fiore, C. L. 127
 Fischer, A. M. 62
 Fischer, J. P. 123, 137
 Fischer, M. 121
 Fischer, R. 108
 Fisher, N. L. 109, 119
 Fisher, T. 100
 Fishwick, M. 58
 Fishwick, M. P. 58
 Fiske, G. J. 77
 Fitzer, S. C. 88
 Fitzgerald, C. L. 101
 Fitzgerald, J. 138
 Fitzpatrick, M. 135
 Fitzsimmons, J. 124
 Flammang, P. 61
 flecha, s. 110
 Flecha, S. 118
 Flegontova, O. 103
 Flegontov, P. 103
 Flerus, R. 57, 96
 Fletcher, P. J. 54
 Flindt, M. R. 68
 Flo, E. 120
 Flöge, S. A. 121
 Flombaum, P. 81
 Flores, H. 87
- Flores, J. A. 106
 Flos, J. 78
 Flower, R. 109
 Flury, S. 53, 93
 Fogarty, N. D. 46
 Folch, A. 64
 Follett, C. 83
 Follows, M. J. 46
 Follows, M. J. 45, 53, 60, 67, 135
 Fölster, J. 57, 95, 104
 Fones, G. R. 49
 Fong, P. 98
 Fong, P. 71, 106
 Fontanarrosa, M. S. 122
 Fontanarrosa, S. 70
 Fontana, S. 60
 Forasacco, E. 127
 Forbrich, I. 137
 Ford, P. 92
 Forero, M. 77
 Forsberg, B. R. 53
 Forsman, A. 97
 Forster, D. 103
 Forster, R. 65, 66, 120
 Forster, R. M. 66, 120
 Forster, S. 69
 Fortier, D. 92
 Fortier, L. 45
 Fortin, N. 47
 Fortuño, P. 94
 Fossing, H. 129
 Foster, T. 49
 Fotedar, R. 120
 Fouilland, E. 108
 Foulquier, A. 54, 126
 Fourqeau, J. 88
 Fox, C. 128
 Fox, R. 100
 Foy, R. H. 63
 Frada, M. J. 112, 120
 Fragoso, B. D. 81
 Fragoso, G. 68
 Fraile-Nuez, E. 80, 103, 104
 Frajka-Williams, E. E. 65
 France, J. 104
 Francé, J. 135
 Franch Gras, L. 89
 Francis, C. A. 68
 Franco, J. 117
 Frangoulis, C. 107, 110
 Frank, A. H. 116
 Frank, C. 137
 Franke, J. 135
 Franke, K. 117
 Frank, K. 77
 Franklin, D. J. 47, 66
 Fransson, K. 59
 Franzé, G. 117, 131
 Franzo, A. 82, 134
 Frassl, M. A. 49
 Fraysse, M. 127
 Fredricks, H. 112
 Fredricks, H. 51, 112, 120, 136
 Fredricks, H. F. 51, 112, 120, 136
 Free, C. 87
 Freeman, M. 102
 Freese, D. 61, 129
 Freije, H. R. 116
 Frei, S. 57
 Freixa, A. 75, 79
 Frenken, T. 108, 132
 Frère, L. Z. 121
 Frey, C. 72, 76
 Frey, M. 70
 Frias-Torres, S. 81
 Fricke, N. 134

- Friedrichs, A. 94
 Friedrichs, M. 85
 Friese, K. 48
 Frigola, J. 85, 97
 Friis Møller, E. 80
 Friis Møller, L. 89
 Frisch, D. 80, 136
 Frischer, M. 71, 86, 97
 Frischer, M. E. 86, 97
 Fritz, S. C. 87
 Fritzsche, E. 123
 Frojan, M. 136
 Froján, M. 65, 76, 136
 Frolova, L. A. 130
 Fromard, F. 69
 Frost, P. C. 95, 102, 134
 Frugone, M. 109
 Fründt, B. 50
 Fry, B. 62
 Fuchs, A. 91
 Fuchsman, C. A. 118, 131
 Fuentes, J. D. 88
 Fuentes-Lema, A. 65
 Fuentes, M. 85
 Fuentes-Rodríguez, F. 126
 Fuentes, V. 85, 97, 114
 Fuentes, V. L. 85, 97, 114
 Fuertes, M. A. 106
 Fu, F. X. 48, 88
 Fu, H. 90
 Fuhrman, J. 51, 97, 120, 135
 Fuhrman, J. A. 51, 97, 135
 Fujibayashi, M. 75
 Fujiki, T. 94, 103
 Fujimura, A. G. 50
 Fujimura, R. 120
 Fukuda, H. 107
 Fukuda, H. 54
 Fukuyama, R. 130
 Fulweiler, R. W. 81
 Funes, A. 116, 129
 Funkhouser, C. H. 101
 Furuya, K. 105, 131
 Fuss, J. 94, 102
 Fussmann, G. 81, 96, 105, 114
 Fussmann, G. F. 96, 105
 Fuß, T. 71, 72
 Futrelle, J. 127
 Futter, M. 57, 60, 63, 67, 95, 104, 105
 Futter, M. N. 63, 67, 95, 104, 105
- G**
 Gabel, F. 55, 121
 Gäbler-Schwarz, S. 59
 Gabriel, A. 77
 Gabrielsen, T. M. 94
 Gachon, C. M. 118
 Gacia, E. 111
 Gaedke, U. 56, 112
 Gafasi, A. 64
 Gaglioti, B. V. 74
 Gahou, J. 54
 Gainer, P. J. 135
 Gaiser, E. 88
 Galand, P. E. 96
 Galbraith, E. D. 84
 Gale, J. 88
 Galer, S. J. 124
 Gal, G. 49, 67, 107
 Galí, Martí, M. G. 103
 Galindo Estranza, A. M. 101
 Galindo-Lorente, M. 78
 Galindo-Martínez, C. T. 133
 Galindo Sánchez, C. E. 81
 Gallager, S. M. 73
 Gallagher, K. 127
 Gallardo, B. 55
 Gallego, I. 126
 Gallego, M. A. 97
 Gallegos, A. M. 79
 Gallegos, C. L. 48
 Gallego-Torres, D. 85, 97
 Galletti, Y. 96
 Gallais, R. 58
 Gallmetzer, I. 82, 100
 Gallo, F. 118
 Gallo, N. 95, 101
 Gallo, N. D. 95
 Galloway, A. W. 75, 104
 Galloway, T. S. 77, 134
 Galparsoro, I. 79
 Galush, T. J. 69
 Galván, C. 67
 Galvert, U. 59
 Gálvez, J. A. 53, 114
 Gálvez, J. Á. 135
 Gambi, M. C. 92, 100, 133
 Gann, E. 136
 Gantzer, P. A. 104
 Garate, M. 118
 Garate, M. H. 118
 Garcés, E. 120
 Garcès, E. 107
 García, A. 49, 85
 Garcia-Alix, A. 109
 García-Alix, A. 109, 119
 García Bravo, A. 60
 García, C. M. 110, 119
 García-Comas, C. 114
 García-Corral, L. 103
 García de Souza, J. R. 95
 García Facal, G. 70
 García-Fernández, J. M. 51, 109
 García-Gómez, C. 65, 113
 García-Gorriz, E. 110
 García-Herrera, N. 99
 García-Ibáñez, M. I. 88
 García, J. 52, 116
 García, J. A. 52
 García, J. A. 78
 García-Lafuente, J. 110
 García-Lafuente, J. 110
 García-Lafuente, J. M. 110
 García-Martin, E. E. 46, 136
 Garcia, N. 48, 65, 132
 Garcia, N. S. 48, 132
 Garcia-Orellana, J. 64, 137
 García-Orellana, J. 85, 137
 García-Robledo, E. 133
 García-Robledo, E. 98
 García-Robledo, E. 84, 90, 98, 114
 García-Roger, E. M. 89
 García-Rubies, A. 91
 García-Solsóna, E. 64
 García-Zarandona, I. 94
 García-Zarandona, I. 81
 Garcon, V. 138
 Garçon, V. 120
 Gardel, A. 69
 Gardner, G. B. 137
 Gardner, W. 49, 126
 Gardner, W. S. 126
 Garet-Delmas, M. 108
 Garet-Delmas, M. J. 108
 Garijo, J. C. 95, 104
 Garrido, J. 69, 103
 Garrido, J. L. 103
 Garrido, S. 87, 136
 Garrison, P. 60
 Garzke, J. 50
 Garzón Cardona, J. E. 116
 Gascón Díez, E. 60
 Gascón, S. 56, 105
 Gashugi, E. 64
 Gasol, J. M. 46, 51, 78, 80, 81, 94, 103, 104, 110, 111, 120, 128
 Gasparini, S. 82
 Gatland, J. 66, 78
 Gatland, J. R. 78
 Gattuso, J. 61, 92, 100
 Gattuso, J. P. 61, 92
 Gaudin, P. 110
 Gauglitz, J. M. 48
 Gay, N. R. 71
 Gaynus, C. 98
 Gazá, M. 103
 Gazeau, F. 61, 92, 100
 Gazitúa-Zavalá, C. M. 100
 Gearhart, T. 49
 Gebrehiwot, K. 126
 Gebrekidan, A. 126
 Gebser, B. 51
 Geeraert, N. 84
 Geer, P. 97
 Geibert, W. 83
 Geibrink, E. 67
 Geider, R. 65, 109
 Geider, R. L. 109
 Gelbrecht, J. 126
 Gelcich, S. 81, 82
 Gélinas, Y. 77
 Gemmell, B. 59, 90
 Gemmell, B. J. 59, 90
 Genin, A. 69, 88, 91, 97, 99, 128
 Genitsaris, S. 86
 Geoffroy, L. 48
 George, A. 108
 Georges, C. 56
 Georgian, S. E. 69
 Geraci, C. J. 69
 Ger, A. K. 74
 Gerakaris, V. 82
 Gérard, C. 76
 Gerdts, G. 134, 135
 Gereia, M. 60, 101
 Gerla, D. J. 69
 Gerling, A. B. 104
 Germain, Y. 113
 German, C. R. 115
 Gernez, P. 134
 Geropoulos, A. 121
 Gerphagnon, M. 118
 Gerrings, L. J. 84
 Gerssen, A. 74
 Gerwick, W. 47, 120
 Gerwick, W. H. 47
 Gessner, M. O. 113
 Gettel, G. 52
 Ghai, R. R. 88
 Ghazal, H. 110
 Ghyoot, C. 107
 Giaglara, E. 73
 Giani, M. 53
 Giannakourou, A. 89, 110, 113
 Giardino, C. 134
 Giblin, A. 59, 68, 137
 Giblin, A. E. 59, 68
 Gibson, D. M. 97
 Gibson, R. A. 102
 Gich, F. 111
 Giddings, S. N. 136
 Giebel, H. 108, 128
 Giebel, H. A. 128
 Giering, S. L. 45
 Giesler, R. 53, 64, 66, 72
 Gifford, S. M. 51
 Giglio, F. 78
 Gilarranz, L. J. 56
 Gilbert, J. A. 52
 Gilboa, M. 88, 97
 Gilboa, Y. 49
 Gil, C. J. 79
 Gilcoto, M. 136
 Gil Coto, M. 122
 Gil de Solá, L. 56
 Giles, C. 49
 Gilfedder, B. S. 57
 Gilg, I. C. 121
 Giling, D. 112, 113
 Giling, D. P. 113
 Gillard, J. 45
 Gillies, R. R. 120
 Gillikin, D. P. 96
 Gillis, D. M. 121
 Giménez-Grau, P. 111
 Gimmler, A. 102
 Gimpel, C. 100
 Ginebreda, A. 54
 Giner, C. R. 86, 102, 111, 120
 Gioia, R. 54
 Giordano, M. 109
 Giralt, S. 59, 85, 109
 Girard, C. 81
 Giraud, M. 120
 Givens, K. F. 44
 Gizzi, F. 133
 Gjerde, M. 71
 Gkelis, S. 47
 Gladyshev, M. I. 55, 56, 86
 Glaser, S. M. 127
 Glaspie, C. N. 61
 Glavaš, N. 135
 Glazer, S. M. 127
 Gledhill, D. 46, 67, 106
 Gledhill, D. K. 46
 Gledhill, M. 48, 124
 Gleiber, M. R. 58
 Glibert, P. M. 123, 126
 Glick, H. 63
 Glockner, F. O. 111
 Glöckner, F. O. 94, 110, 111
 Glöckner, G. 120
 Glover, D. M. 44
 Glover, J. B. 54
 GLTC Contributors 105
 Glud, A. 131
 Glud, R. N. 63, 106, 118, 131, 133
 Glynn, P. 106, 133
 Gobler, C. J. 47, 61, 100, 126, 136
 Godbold, J. A. 81
 Godhe, A. 80, 89
 Godo, O. R. 69
 Godrant, A. 48
 Godwin, C. M. 68, 132
 Goedkoop, W. 56
 Goepfert, T. J. 47
 Goffredo, S. 102, 133
 Gogima, M. 68
 Gogou, A. 53, 110
 Gohin, F. 81
 Goiris, K. 98
 Golbuu, Y. 92
 Goldsmit, J. 55
 Golmen, L. 130, 138
 Golosov, S. 130
 Golovatyuk, L. V. 56
 Golubic, S. 111
 Gomà, J. 73
 Gomes, A. 72, 103, 104
 Gomes, A. M. 72
 Gomes, A. R. 104
 Gomes, F. 50, 51
 Gomez, A. 86

- Gómez-Baena, G. 51, 109
 Gomez Consarnau, L. 51
 Gomez-Consarnau, L. 51
 Gómez, E. 98, 114
 Gómez, E. H. 114
 Gómez, F. J. 58, 110
 Gómez Gener, L. 52
 Gómez-Gener, L. 52, 57, 75
 Gomez, L. 75
 Gómez, M. 72, 94, 114, 122
 Gómez, M. J. 72
 Gómez, R. 63
 Gómez-Ramírez, E. H. 90
 Gomez-Saez, G. V. 84
 Gonçalves-Araujo, R. 96
 Goncalves, R. J. 58
 Gonçalves, V. 75, 109
 Gonçalves, V. M. 109
 Gong, D. 44, 52
 Goni-Urriza, M. 60
 Gonnea, M. E. 137
 Gonnelli, M. 72, 96
 Gonsior, M. 96, 106
 González, A. M. 77, 80, 127
 González-Ballester, D. 51
 González Benítez, N. 80, 117
 González-Benítez, N. 81
 González-Duarte, M. M. 104
 Gonzalez, F. 53
 González, F. 114
 González-Gordillo, I. 104
 Gonzalez-Gordillo, J. 103
 Gonzalez-Gordillo, J. I. 95, 135
 Gonzalez, J. 51, 73
 González, J. 76, 136
 Gonzalez, J. M. 51
 Gonzalez-Lemos, S. 106
 González-Muñoz, M. T. 85
 González, N. 51, 103
 González Olalla, J. M. 132
 González-Ortegon, E. 75
 González-Palma, C. A. 99
 Gonzalez-Pola, C. 110
 González, R. 85
 Gonzalvo, J. 82
 Goodhead, R. M. 134
 Goodman, B. 54, 107
 Goodman, B. N. 54
 Goodman-Tchernov, B. 91, 122
 Goodman-Tchernov, B. N. 122
 Goodwin, D. 100
 Gordillo, F. J. 62, 65
 Gordon, A. L. 50
 Gorelli, G. 99
 Goren, M. 107
 Gori, A. 63
 Gorokhova, E. 50, 132
 Gorsky, G. 54, 103
 Goto, T. 73
 Gotschalk, C. 136
 Goudeau, M. L. 84
 Gourain, A. 125
 Gourvil, P. 103
 Goutx, M. 138
 Govers, G. 84
 Goyette, S. 49, 75
 Grace, M. R. 131
 Gradoville, R. 100
 Graeber, D. 128
 Graeve, M. 87
 Graff, J. R. 109
 Graham, E. 44
 Graham, J. L. 126
 Graham, N. D. 60
 Graiff, A. 50, 76
 Granados, A. 103
 Granados, Arsenio, A. G. 103
 Granados, I. 59
 Granados, M. 81
 Graña, R. 136
 Granger, J. 131
 Granhag, L. 56
 Graniero, L. 96
 Grant, S. B. 69
 Grant, S. C. 127
 Gras, R. 56
 Gravelle, A. D. 81
 Graves, K. 117
 Gravier, D. 80
 Gray, D. 87, 105
 Gray, D. K. 87
 Gray, L. D. 100
 Gray, N. B. 81
 Gray, R. L. 104
 Green, A. J. 62, 77, 80, 92, 96, 115, 1
 22, 123
 Greenfield, D. I. 44, 90
 Green, S. 71, 97
 Green, S. R. 71
 Greenwood, N. 66
 Greer, C. W. 47
 Grégoir, A. 89
 Grégori, G. 65, 110
 Grégori, G. J. 65, 110
 Gregory-Eaves, I. 109
 Grehan, A. 69
 Grenvald, J. 58, 116
 Grenvald, J. C. 116
 Grey, J. 52, 55, 64, 68
 Griffell, K. 73
 Griffith, A. 61, 126
 Griffith, A. W. 126
 Griffiths, J. R. 107
 Grillas, P. 92
 Grimm, C. 56
 Grimm, N. B. 54
 Grimsley, N. 135
 Grinham, A. 91, 92
 Grinham, A. R. 91
 Grisoni, J. M. 65
 Groeneveld, J. 50
 Gröndahl, S. 86
 Groom, S. 62, 134
 Groom, S. B. 134
 Grosjean, P. 46, 90
 Grossart, H. 53, 63, 91, 108, 112, 113,
 126
 Grossart, H. P. 53, 63, 91, 108, 112, 113,
 126
 Grosse, G. 74, 83, 118
 Grosse, J. 46
 Grossmann, L. 102
 Grossmann, M. M. 73
 Grossowicz, M. 45
 Gross, S. 89
 Groth, M. 120
 Grover, R. 63
 Grubb, L. 128
 Gruber, N. 81
 Grundle, D. S. 131
 Grzesiuk, M. 131
 Gschwend, M. 44
 Gsell, A. S. 96, 127
 Guanghuan Cheng, G. 75
 Gücker, B. 132
 Guedant, P. 53, 92
 Guedes, I. A. 72
 Gueguen, C. 84
 Guéguen, C. 57
 Guerin, F. 53, 92
 Guerrero, E. 85
 Guerrero-Feijoo, E. 81
 Guerrero-Feijóo, E. 52
 Guerrero, F. J. 77
 Guest, H. 70
 Gugger, M. 47
 Gugliandolo, C. 83
 Guidi, L. 54, 103, 108, 110
 GUIGAND, C. 114
 Guilini, K. 118, 133
 Giulizzoni, P. 109
 Guillebaud, D. 95
 Guillemette, F. 57, 106
 Guillou, L. 120
 Guinda, X. 137
 Guinder, V. 116
 Guizien, K. 91
 Gülow, N. 105
 Gunnarsson, J. 69
 Gunn, I. D. 116
 Guo, C. 101
 Guo, L. D. 83
 Gurbuz, F. 47
 Gurkov, A. N. 87
 Gustafson, A. E. 100
 Gustafsson, B. 50
 Gustavson, L. M. 89
 Gutiérrez Cánovas, C. 112
 Gutiérrez Cánovas, C. 54
 Gutiérrez, J. 137
 Gutiérrez, M. H. 96
 Gutierrez Rodriguez, A. 45
 Gutowska, M. A. 61
 Guyader, O. 67
 Guy-Haim , T. 113
 Guy-Haim, T. 48
 Guyonneaud, R. 60
 Gyles, S. A. 101
 Gypens, N. 107
- H**
- Haas, A. F. 128
 Haberleitner, E. 51
 Hach, P. 83, 132
 Hach, P. F. 83
 Hadjioannou, L. 107
 Hadziavdic, K. 97
 Haeckel, M. 113
 Haga, H. 127
 Hagen, S. 128, 137
 Hagen, S. M. 128
 Hager, H. 117
 Hahn, M. 105
 Haig, H. A. 104
 Hairston, N. G. 89
 Hajati, M. 76
 Hajdu, S. 107
 Hakanen, P. 50
 Häkedaal, O. J. 89
 Halbedel, S. 52
 Hale, R. 81
 Hales, B. 45
 Haley, S. T. 68, 102
 Halim, K. M. 96
 Hall, C. 102
 Hall, E. R. 46
 Hall, N. S. 126
 Hall, P. 48, 116
 Hall, R. O. 54
 Hall-Spencer, J. 118, 133
 Hall-Spencer, J. M. 118, 133
 Halonen, A. I. 53
 Halouani, G. 82
 Halperin, D. 66
 Halsey, K. 109, 119
 Halsey, K. H. 109, 119
- Halsey, K. J. 109
 Halvorsen, E. 128
 Halvorson, H. M. 132
 Hamann, E. 84
 Hamasaki, K. 105, 120, 122
 Hamberg, M. 130
 Hamidi, S. 45
 Hamidi, S. A. 45
 Hamilton, D. 78
 Hamilton, M. M. 108
 Hammar, T. R. 137
 Hammer, C. 50
 Hammer, K. 50
 Hammerstein, S. K. 124
 Hampton, S. 87, 105
 Hampton, S. E. 87
 Hanke, K. D. 104
 Hancke, K. 63, 106
 Hancke, K. H. 106
 Hanert, E. 99
 Haney, J. F. 62
 Han, J. 108
 Hannides, A. K. 107
 Hannides, C. C. 107
 Hannides, C. S. 53
 Han, Q. 82
 Hansel, C. 101
 Hansell, D. 45, 80, 84, 96
 Hansell, D. A. 45, 80, 84, 96
 Hansen, B. W. 112
 Hansen, H. 94
 Hansen, J. W. 129
 Hansen, L. H. 51
 Hansen, P. J. 91, 108
 Hansen, T. 50, 113
 Hansman, R. L. 45
 Hanson, P. C. 62
 Hansson, L. A. 77, 126, 127
 Hansson, S. 62
 Happel, A. 87
 Haraldsen, A. B. 94
 Haramaty, L. 121, 135
 Hardege, J. D. 73, 88
 Hardge, K. 53, 111
 Hardison, A. K. 68
 Hardman-Mountford, N. 60
 Hardwick, L. 104
 Hare, J. 76
 Hargreaves, B. R. 62, 78
 Harir, M. 57, 83, 96, 106
 Harke, M. J. 47
 Harley, C. G. 55
 Harmer, R. A. 128
 Harney, E. 98
 Härnström, K. 103
 Haro, R. 56
 Harper, E. M. 73
 Harred, L. B. 50
 Harris, C. 46
 Harrison, C. S. 45
 Harrison, E. 127
 Harrison, J. A. 91, 104
 Harrison, J. J. 108
 Harrison, J. P. 135
 Harrison, P. J. 119
 Harris, T. D. 126
 Hart, A. T. 71
 Hartikainen, H. 103
 Hart, J. 113
 Hartman, B. E. 106
 Hartman, J. H. 135
 Hartmann, A. 68
 Hartmann, L. 113
 Hartmann, N. B. 135
 Hartmann, P. 119
 Hartnell, D. M. 47

- Harvey, C. 73
 Harvey, E. 112, 127
 Harvey, E. L. 112
 Harvey, G. 55
 Harvey, J. B. 86
 Harvey, T. E. 62
 Hasan, M. 67
 Haselmair, A. 82, 100
 Hasemann, C. 69
 Hashihama, F. 83, 105, 107, 131
 Hashioka, T. 114
 Hassenrück, C. 133
 Hatcher, P. G. 105, 106
 Hattab, T. 82
 Hattam, C. 46
 Hattich, G. S. 81
 Hatton, D. 98
 Hátún, H. 103
 Hauff, M. J. 104
 Haugen, E. M. 100
 Haunschmid, R. 138
 Hauptman, J. 58
 Hauri, C. 97
 Hauschild, M. Z. 51
 Haus, H. 103
 Hauss, H. 54, 131
 Havel, H. 96
 Havenhand, J. 50
 Hawkes, J. A. 83, 84
 Hawkins, C. P. 54
 Haworth, E. Y. 109
 Hayashi, M. 100
 Hayes, D. R. 107
 Haynes, V. 65, 77
 Haynes, V. N. 65
 Heal, K. R. 112
 Heal, K. V. 49, 53, 127
 Heath, D. D. 100
 Heatherly, T. 86
 Hébert, P. A. 66
 Hedström, P. 113
 Heenehan, H. L. 70
 Heery, B. 138
 Heino, J. 101
 Heino, M. 127
 Heinrich, F. 116
 Hein, T. 57, 113
 Heintz, R. A. 87
 Heiri, O. 108
 Helbling, E. W. 76, 94, 124
 Hellermann, D. 61, 76
 Hellstrom, J. 84
 Hemsley, V. S. 65
 Henderson, A. C. 109
 Henderson, G. 115
 Hendricks, I. 92
 Hendricks, S. 62
 Hendriks , I. 121
 Hendriks, I. 61, 88
 Hendriks, I. E. 88
 Hendry, A. P. 55, 100
 Hengsberger, S. 66
 Hennekam, R. 84
 Hennige, S. J. 46
 Hennon, G. M. 103, 108
 Henrichs, D. W. 50
 Henry, C. 71, 98
 Henry, C. A. 71
 Henry, N. 108
 Henrys, P. 128
 Hense, I. 60
 Henson, S. 53, 54, 81, 114, 127
 Henson, S. A. 53, 81, 114, 127
 Hepach, H. 78
 Heppell, C. M. 63
 Heredia, C. 60
 Hereu, B. 91
 Herlemann, D. 84
 Herman, P. M. 82, 129
 Herminghaus, S. 90
 Hernández, A. 59, 109
 Hernández-Avilés, S. 98
 Hernández-del Amo, E. 111
 Hernández-Hernández, N. 122
 Hernandez, I. 123
 Hernández, I. 50
 Hernandez-Leon, S. 103
 Hernández-León, S. 44, 78, 95, 104
 Hernández-León, S. M. 104
 Hernández, M. 65
 Hernández, N. 78
 Hernández-Ruiz, M. 65, 76, 103, 107,
 108, 109
 Hernández Terrones, L. 73
 Hernando-Morales, V. 103
 Hernan Martinez, G. 133
 Hernawan, U. 80
 Herndl, G. 45, 51, 52, 76, 78, 113, 116,
 118
 Herndl, G. J. 45, 51, 52, 78, 113, 116,
 118
 Hernroth, B. 61
 Hernroth, B. E. 61
 Herren, C. M. 92, 99
 Herrera, A. 114, 122
 Herrera, G. 77
 Herrera, I. 58
 Herrera, J. L. 76, 136
 Herrera Silveira, J. A. 137
 Herrmann, J. 115
 Hertkorn, N. 57, 83, 96, 106
 Herut, B. 53, 57
 Herzog, Q. T. 131
 Herzog, S. 76
 Hessel, J. 66
 Hessen, D. O. 66, 106, 112, 130, 132
 Hester, E. 68
 Hetland, R. 44, 45
 Hetland, R. D. 44
 Hettich, R. 86, 88, 128
 Hetzinger, S. 44, 71
 Heuermann, R. 138
 Heuschele, J. 45
 Hevia-Orube, J. 124
 Hewson, I. 136
 Heymans, J. J. 82, 107
 Heynen, M. 131
 Heywood, K. J. 114
 Hickey, B. M. 136
 Hicks, J. A. 130
 Hicks, N. 46
 Hidalgo-Robatto, B. M. 76, 136
 Hiebenthal, C. 50
 Hietanen, S. 76
 Higgins, S. 86, 121
 Hilbisch, M. 86
 Hilbish, T. J. 50
 Hildebrand, F. 110
 Hildebrandt, N. 124
 Hillebrand, H. 105, 108, 113, 114, 127
 Hill, P. 51
 Hill, R. A. 54
 Hill, R. T. 108
 Hill, V. J. 61
 Hilmi, K. 110
 Hilt, S. 93, 112
 Hiltunen, M. 75, 86
 Hiltunen, T. 135
 Himmerkus, N. 73
 Hinkel, K. M. 83
 Hinow, P. 69
 Hinrichsen, H. H. 80
 Hintze, T. 96
 Hipsey, M. R. 49
 Hirano, H. 103
 Hirsch, J. K. 136
 Hirst, A. G. 46
 Hitchcock, A. 74
 Hitchcock, G. 60
 Hjerne, O. 107
 Hmelo, L. R. 108, 112
 Hoarfrost, A. 128
 Ho, A. Y. 119
 Hobmeier, M. M. 136
 Hodapp, D. 113, 114
 Hodapp, D. M. 114
 Hodell, D. A. 53
 Hodgson, J. 56
 Hoeglund, A. E. 100
 Hoehn, D. 97
 Hoeijmakers, D. 137
 Hoekstra, P. 117, 129
 Hoelzmann, P. 79
 Hoering, K. A. 137
 Hoffman, D. 49
 Hoffmann, D. 102
 Hoffmann, K. 69
 Hofmann, L. 61
 Hofmann, M. 113
 Hofmeister, R. 49
 Hogfors, H. 50
 Hogg, A. M. 54
 Höglander, U. 47
 Hogle, S. L. 48
 Hogslund, S. 51
 Höher, N. 135
 Hojas, E. 60
 Holding, J. 121
 Höller, F. 68
 Hollander, D. J. 120
 Hollibaugh, J. T. 52, 64, 114, 120
 Hollingshead, T. 91
 Holloway, C. 118
 Holloway, D. L. 44
 Holly, C. 123
 Holmes, B. 60
 Holmes, R. M. 105
 Holmfeldt, K. 113
 Holmgren, K. 92
 Holtappels, M. 49, 83, 106, 123
 Holzman, R. 91
 Holzner, M. 45, 49
 Honda, M. 58, 122
 Honda, M. C. 58
 Honda, N. 119
 Hood, E. 105
 Hook, S. J. 62, 105
 Hopcroft, R. R. 51, 76, 80
 Hop, H. 61
 Hopkinson, C. 137
 Hopmans, E. C. 111
 Hoppe, C. J. 54
 Hoppema, M. 45
 Horák, A. 103
 Horák, R. 131
 Horbat, A. 112
 Hornak, K. 57
 Horne, C. R. 46
 Horn, H. G. 100
 Hornick, T. 113
 Horn, S. 59
 Horodysky, A. Z. 44
 Horstwood, M. S. 87
 Horta, P. 118
 Horváth, H. 134
 Horváth, Z. 105
 Hosia, A. 56
 Hotchkiss, E. R. 52
 Hou, L. 126
 Houliez, E. 65
 Hovi, M. 56
 Howard, E. 103
 Howard, J. F. 137
 Howard, K. 71, 98
 Howard, K. E. 71
 Howard, M. K. 72, 138
 Howe, B. 66
 Howell, S. 73
 Howells, E. J. 80
 Howeth, J. G. 55
 Howkins, A. 82
 Howland, K. L. 55
 Hoyer, A. B. 74, 104
 Hoyos-Santillan, J. 92
 Hrabik, T. 87
 Hrenchuk, L. 121
 Hrenchuk, L. E. 121
 Hsieh, C. 114, 127
 Hsieh, C. C. 114
 Hsieh, C. H. 127
 Hsieh, H. 124
 Hsueh, D. Y. 102, 106
 Huang, D. 107
 Huang, K. 66
 Huang, T. 98
 Huang, W. 44
 Huang, Y. 59
 Hubalek, V. 116
 Hubbard, D. M. 130
 Huber, M. P. 95
 Hudson, A. G. 93
 Huebner, E. 124
 Huebner, J. D. 124
 Huerta-Diaz, M. A. 114
 huertas cabilla, E. 110
 Huertas, E. I. 118
 Huete-Ortega, M. 80, 109
 Huete-Stauffer, T. M. 51, 81, 100, 103,
 135
 Huettel, M. H. 106
 Hugerth, L. W. 110
 Hugoni, M. 90
 Huguet, A. 113
 Huisman, J. 66, 108, 110, 126, 127, 132
 Hull, T. 66
 Humbert, J. F. 47, 120
 Humborg, C. 53, 66, 67
 Hummels, R. 54
 Humphries , S. 99
 Humphries, S. 90, 91, 99
 Hunley, W. S. 78
 Hunter-Cevera, K. R. 123
 Hunter, J. E. 120
 Hunter, P. D. 62, 134
 Huotari, J. 78
 Hupfer, M. 68, 129
 Huret, M. 58
 Hurley, D. 68
 Hurst, T. P. 61
 Hurtós, N. 137
 Huruma, M. 84
 Hurwitz, B. L. 135
 Huser, B. 104, 129
 Huser, B. J. 104
 Hussain, A. 128
 Huszar, V. 104, 105, 126
 Huszar, V. M. 104
 Hutchins, D. A. 48, 88, 132
 Hutchins, R. 128
 Huttunen, J. T. 52
 Huvet, A. 121
 Huy, H. D. 79
 Hylander, S. 128
 Hyun, J. 72, 123

- I**
- Iacarella, J. C. 55
 Ibáñez, C. 55, 73, 79, 130
 Ibàñez, C. 105
 Ibelings, B. W. 47, 127
 Ibello, V. 54
 Icely, J. D. 81
 Ichinomiya, M. 102
 Idrisi, N. 69, 136
 Igeta, Y. 119
 Iglesias-Prieto, R. 133
 Iglesias-Rodriguez, M. D. 48
 Ignacio-Espinoza, J. C. 108
 Ignacio-Espinoza, J. C. 103, 113
 Iguchi, N. 73, 119
 Ikeda, C. E. 99
 Ikeda, H. 86
 Imai, I. 120
 Imhof, H. 121, 135
 Imhof, H. K. 135
 Imura, S. 122
 Ingall, E. D. 58
 Ingalls, A. 112, 131
 Ingalls, A. I. 112
 Ingrosso, G. 53
 Iniguez, C. 62
 Iniguez, C. 113
 Inostroza, P. A. 54
 Intxausti, L. 58, 124
 Ionescu, D. 91
 Iriarte, A. 58, 124
 Iribarri, J. 80, 94
 Irigoien, X. 80, 95, 103, 135
 Irigoien, X. 104
 IRISSON, J. O. 114
 Irvine, K. 55, 56
 Isari, S. 47, 73
 Ishaque, A. B. 77
 Ishikawa, K. 127
 Isidorova, A. 105, 106
 Isinibili, M. 97
 Isla, A. 53
 Islam, F. 88
 Isles, P. 49, 59
 Isles, P. D. 59
 Ismar, S. 50, 86
 Ismar, S. M. 50
 Israelsson, S. 97
 Issaris, Y. 82
 Itoh, S. 131
 Iuculano, F. 94
 Iudicone, D. 45, 110
 Iversen, M. 54, 130
 Iversen, M. H. 54
 Ives, A. R. 92, 99
 Ives, S. C. 127
 Ivleva, N. P. 135
 Iyer, S. K. 95
 Izaguirre, I. 70, 90, 98, 137
- J**
- Jackson, A. L. 78
 Jackson, G. A. 60, 136
 Jackson, R. L. 71
 Jacob, M. 69
 Jacobson, Y. 97
 Jacoby, C. 71
 Jacq, C. 113
 Jacques, V. 122
 Jaffé, R. 106
 Jäger-Kleinicke, T. 81
 Jahn, O. 67
 Jaijel, R. 54
 Jaillon, O. 111
- Jakobsen, H. H. 104, 112, 129, 131
 Jakobsen, K. 46, 94
 Jakobsen, K. S. 94
 Jakowczyk, M. 97
 Jakuba, R. W. 44
 Jamahari, S. 53
 James, A. K. 88
 James, C. 136
 James, R. H. 113
 Jamet, J. L. 82
 Janeau, J. L. 52
 Jang, T. 59
 Janse, J. 49
 Janse, J. H. 49
 Janssen, A. 49, 112
 Jansson, A. 61
 Jaramillo, E. 130
 Jarnot, C. 53
 Jarrold, M. D. 89
 Jarvis, B. 44
 Jaspers, C. 80, 90
 Jasser, I. 47
 Jauzein, C. 44
 Javaux, E. 111
 Javidpour, J. 86
 Javier, L. L. 129
 Jayakumar, A. 118
 Jayasinghe, R. P. 95
 Jeansou, E. 102
 Jeanthon, C. 51
 Jeffrey, W. H. 65
 Jelkänen, E. 75, 86
 Jenkins, B. D. 109
 Jenkinson, I. R. 90
 Jenkins, W. J. 115
 Jennings, E. 62
 Jennings, M. 45, 96
 Jennings, M. K. 96
 Jensen, H. S. 59, 129
 Jensen, L. T. 71
 Jensen, M. 59, 102
 Jensen, O. P. 87
 Jensen, P. R. 135
 Jenssen, B. M. 89
 Jeong, H. 59
 Jeppesen, E. 83
 Jeppesen, E. 56, 59, 63, 92, 126, 129
 Jeppesen, R. K. 44
 Jesien, R. 77
 Jeske, T. 49
 Jewett, E. B. 46, 87
 Jeyasingh, P. D. 136
 Jeziorski, A. 109
 Jiang, H. 59, 90
 Jiang, Y. 119
 Jiang, Z. 117
 Jiao, N. Z. 117
 Jiménez-Arias, J. L. 98
 Jiménez-Arias, J. L. 84
 Jiménez-Arias, J. L. 114
 Jimenez, C. 107
 Jimenez-Espejo, F. J. 109, 119
 Jiménez-Espejo, F. J. 97
 Jiménez-Gómez, F. 94, 122
 Jiménez, L. 95, 109
 Jimenez-Moreno, G. 109, 119
 Jiménez-Moreno, G. 109
 Jimenez Ramos, R. 73, 123
 Jimenez Robles, A. M. 130
 Jimenez, V. 118
 Jin, D. 98
 Jin, H. 107
 Jinuntuya, M. 61
 Ji, X. 105
 Jobard, M. 98
 Joehnk, K. D. 126
- Joglar, V. 96
 Johannessen, T. V. 86
 Johannesson, K. 50
 John, C. 94
 Jöhnk, K. D. 78
 Johns, C. T. 120, 121
 Johns, D. 82
 Johnson, A. 61, 79, 127
 Johnson, A. K. 79
 Johnson, A. N. 127
 Johnson, C. 88
 Johnson, M. 84, 112
 Johnson, M. D. 112
 Johnson, R. K. 56, 104
 Johnson-Roberson, M. 137
 Johnson, S. B. 86
 Johnson, W. 127
 Johnson, Z. 48, 68, 81, 135
 Johnson, Z. I. 68, 81, 135
 Johnston, L. 133
 John, u. 120
 John, U. 103, 126, 127, 130, 135
 Johst, K. 77
 Jokela, J. 60
 Jokic, T. 123
 Joli, N. 103
 Joly, P. 45
 Jonasdottir, S. H. 58
 Jonassen, I. 97
 Jones, B. M. 74, 83, 109, 118, 119
 Jones, E. 45, 48
 Jones, E. M. 45
 Jones, F. C. 102
 Jones, H. 104
 Jones, I. D. 62
 Jones, J. R. 102, 104
 Jones, M. D. 109
 Jones, R. I. 52, 112
 Jones, S. E. 66, 112
 Jones, T. A. 95
 Jones, V. J. 59
 Jonsson, A. 67
 Jonsson, B. F. 80
 Jonsson, M. 131
 Jonsson, P. 89, 91, 130
 Jonsson, P. R. 91, 130
 Jordà, G. 81
 Jordi, A. 50, 107
 Jørgensen, C. 59
 Jormalainen, V. 50, 80
 Josefson, A. 129
 Joung, D. 49
 Joyce, C. 69
 Joye, S. B. 120, 132
 Jroundi, F. 85
 Juan-Díaz, X. 99
 Juanes, J. A. 67, 129
 Juanes, J. J. 137
 Juan, M. 126
 Jungbluth, S. P. 114
 Jung, H. 110
 Jürgens, K. 50, 52, 68, 84, 113
 Justic, D. 44, 45
 Jutfelt, F. 61
 Juusela, V. 112
 Juutinen, S. 52, 53
 Jyrkkäkallio-Mikkola, J. M. 101
- K**
- Kaandorp, J. 133
 Kaartvedt, S. 73
 Kagalou, I. 47
 Kagiorgi, M. 117
 Kahilainen, K. K. 86
 Kähler, P. 118, 132, 134
- Kahlert, M. 121, 134
 Kainz, M. J. 61
 Kaiser, D. 85
 Kaiser, J. 114
 Kaiser, N. 46
 Kaitala, S. 65
 Kalachova, G. S. 55, 56, 86
 Kalantzi, I. 117
 Kaletka, T. 93
 Kalnejais, L. H. 49
 Kalogeropoulou, V. 121
 Kalvelage, T. 132
 Kamburkska, L. 96
 Kamenos, N. A. 46, 88, 92, 133
 Kamermans, P. 81
 Kamide, H. 86
 Kammerlander, B. 83
 Kamp, A. 118, 131
 Kanakidou, M. 107
 Kana, R. 109, 124
 Kanari, M. 122
 Kanawati, B. 96
 Kanda, J. 107
 Kandels-Lewis, S. 108
 Kaneko, R. 105, 120, 122
 Kanelopoulou, M. 73
 Kane, M. K. 123
 Kang, C. 123
 Kang, N. 59
 Kang, S. 101
 Kankaala, P. 75, 86
 Kantz, H. 60
 Karageorgis, A. 110, 113
 Karageorgis, A. P. 113
 Karakassis, I. 73, 82, 121
 Karataev, A. Y. 55
 Karayanni, H. 82, 111
 Karger, F. M. 106
 Kari, E. 62
 Karl, D. M. 123, 133
 Karlsson, C. 46
 Karlsson, J. 52, 66, 67, 83, 86, 91, 107,
 112, 121
 Karlsson, J. R. 107
 Karlsson, K. 50
 Karsenti, E. 102, 103
 Karstensen, J. 131
 Karube, Z. 101
 Karuza, A. 82
 Kasalický, V. 88
 Kasprzak, P. 113
 Kaster, J. L. 95
 Kasurinen, V. 106
 Katajisto, T. 56
 Katayama, T. 124
 Katherine Richardson, K. 105
 Kath, J. 127
 Katoh, O. 119
 Katsanevakis, S. 67
 Kattner, G. 57
 Katz, J. 59
 Kauer, T. 62
 Kauffman, K. M. 108
 Kaufman, D. 109
 Kavanagh, M. T. 44
 Kavan, J. 96
 Kawachi, M. 102
 Kawaguchi, S. 129
 Kawamata, A. 122
 Kawamura, K. 109
 Kayanne, H. 133
 Kazanjian, G. 93
 Kazuhiko, S. 94
 Keafer, B. A. 66
 Kearney, S. 108
 Kearns, P. J. 44, 55

- Keaveney, E. M. 63
 Keeper, C. 44
 kéfi-Daly Yahia, O. 85
 Kéfi-Daly Yahia , O. 85
 Kegel, J. U. 135
 Keithrafferty, C. 59
 Kelble, C. R. 54
 Kelemen, Z. 84, 96
 Kellerman, A. M. 57, 128
 Keller-Miller, K. N. 61
 Kelly, A. 116
 Kelly, B. 81
 Kelly, P. 56, 112
 Kelly, P. T. 112
 Kelly, R. 55
 Kemp, A. 84
 Kemp, P. F. 100, 108
 Kendall, C. 66
 Kendrick, G. 80, 137
 Kenitz, K. M. 46
 Keren, N. 48
 Kerfoot, W. C. 136
 Kerkhof, L. J. 52, 117
 Kernan, M. 126
 Kernisan, C. 57
 Kernke, M. 92
 Khalili, A. 91
 Khalili, M. I. 104
 Khan, F. 50, 121
 Khan, F. R. 121
 Khouri, R. S. 127
 Khrispounoff, A. 122
 Kidd, I. 62
 Kieft, B. P. 86
 Kiessling, A. 67
 Kiko, R. 54, 78, 103
 Kim, B. 123
 Kim, D. 99
 Kim, G. 64, 76
 Kim, H. 83, 100
 Kim, H. C. 83
 Kimirei, I. A. 84
 Kim, M. 108
 Kimmel, D. G. 87, 116
 Kimoto, K. 50, 94, 103
 Kim, S. 72, 108, 123
 King, E. E. 44
 King, L. E. 58
 Kiorboe, T. 46, 58
 Kiørboe, T. 45, 59, 90, 128
 Kipfer, R. 67
 Kirchman, D. L. 120
 Kirchner, A. 58
 Kirf, M. 100
 Kirillin, G. 53, 113, 117, 127, 130
 Kirillin, G. B. 130
 Kirillova, E. P. 108
 Kirilovsky, A. 110
 Kirkwood, W. 92
 Kirmizi, S. 135
 Kirschner, A. 57
 Kirstein, I. V. 135
 Kiss, A. J. 114
 Kitajima, S. 73
 Kitamura, M. 58
 Kitchell, j. 56
 Kitidis, V. 46
 Kjelby, M. 86
 Klaas, C. 54
 Klais, R. 60, 65, 67, 132
 Klaminder, J. 52, 131
 Klaus, M. 67, 91
 Klaveness, D. 94, 102, 130
 Klawonn, I. 91, 99, 132
 Kleberg, A. 129
 Kleinteich, J. 111
 Klein, Y. 54
 Klempert, P. 128
 Kletter, D. 64
 Klimant, I. 91, 123, 133, 137
 Kline, D. 92
 Klinthong, W. 94
 Klotz, P. M. 51
 Klug, J. 62
 Klump, J. V. 45, 106, 117
 Klun, K. 51
 Knapp, V. 120
 Knie, M. 47, 121
 Knights, B. 56
 Knoeller, K. 96
 Knoll, L. 73
 Knoppers, B. A. 123
 Knowlton, N. 68
 Knudsen-Leerbeck, H. 106
 Kobara, S. 138
 Kobari, T. 58
 Koblizek, M. 51
 Koch, B. 57, 83, 103, 127
 Koch, B. P. 57, 83, 103
 Kock, M. 81
 Ko, D. 44, 45
 Kodali, B. K. 46
 Kodama, T. 105, 119, 131
 Koehler, B. 105
 Koehl, M. 90
 Koenigs, R. C. 56
 Koeve, W. 118, 131, 132, 134
 Kogovsek, T. 51, 86, 104
 Kogovsek, T. 116
 Kogure, K. 54, 120
 Kohlbach, D. 87
 Köhler, A. 135
 Köhler, J. 93, 110, 112, 123
 Köhler, S. J. 57, 63, 95, 105
 Kohler, T. 82
 Koinig, K. A. 83
 Koker, L. 47
 Kokic, J. 63, 106
 Kokkini, Z. 110
 Kokkinos, P. 82
 Kokkonen, T. 130
 Kokoszka, F. 110
 Kok, P. H. 110
 Kolker, G. 59
 Kolmakova, A. A. 55
 Kolodziej, G. 133
 Kolodziej, G. E. 133
 Kolzau, S. 112, 121
 Komada, T. 128
 Kombiadou, K. D. 78, 117
 Kominoski, J. S. 126
 Kondo, R. 99
 Kong, J. 105
 Kononets, M. 116
 Konstantinidis, K. 111
 Kontoyannis, H. 113
 Kooistra, H. W. 103
 Kooistra, W. 45
 Koop-Jakobsen, K. 61
 Koopmans, D. 45, 106, 117
 Koops, M. A. 95
 Kopf, A. 94
 Koppropo, G. A. 99
 Korbee, N. 77, 118
 Kordbach, A. 122
 Kormas, K. 82, 85, 111
 Kormas, K. A. 85
 Korneeva, Y. A. 121
 Korn, R. 102
 Korpinen, S. 82
 Kortelainen, P. 52
 Korth, F. 72
 Kortzinger, A. 131
 Körtzinger, A. 45, 137
 Koschinsky, A. 76, 83, 84, 115
 Koschorreck, M. 48, 52, 75
 Koski, M. 51, 118
 Koskinen, K. 53
 Kostadinov, I. 94
 Kosten, S. 63, 105, 108
 Kostianoy, A. G. 130
 Köstner, N. 113
 Kosugi, M. 122
 Koszta, I. 67
 Kotabova, E. 109
 Kotabová, E. 124
 Kothawala, D. N. 57, 63, 105
 Kotoulas, G. 68
 Kottmann, R. 94, 110, 111
 Kouraev, A. V. 130
 Kourafalou, V. 124
 Koussoroplis, A. M. 48, 131
 Kovac, N. 135
 Kovács, A. W. 134
 Kovacs, K. 114
 Kovac, V. 55
 Kowalski, N. 85
 Koweck, D. 45
 Koyama, M. 123
 Kozliková (Zapomelová), E. 89
 Krabbenhoft, D. 60
 Krabbenhoft, D. P. 60
 Krabberød, A. 102, 103
 Krabberød, A. K. 102, 103
 Kraberg, A. 96, 103
 Kraemer, B. M. 84
 Krahmann, G. 131
 Kranewitter, V. 95
 Krång, A. S. 61
 Kranzler, C. 48
 Kranz, S. K. 109
 Krasakopoulou, E. 47, 110, 113
 Krashchuk, L. S. 87
 Kratina, P. 55
 Kratzer, S. 62
 Kratz, T. 78
 Kraus, A. 60
 Krause-Jensen, D. 61, 88, 129
 Krause, J. W. 112
 Krausfeldt, L. E. 126
 Kraus, T. 66
 Kravchuk, E. S. 86
 Krebs, R. A. 55
 Kremp, A. 50, 68, 132, 137
 Kress, N. 107
 Krestenitis, Y. N. 78, 117, 124
 Kriest, I. 54, 78, 131, 133
 Krishfield, R. 88
 Kristensen, E. 68, 69
 Kristensen, E. B. 68
 Kristensen, T. 102
 Kritzberg, E. 50, 76, 128
 Kritzberg, E. S. 50, 128
 Krock, B. 127
 Kroeger, K. D. 137
 Kroeker, K. 133
 Krogh, J. 121
 Kromkamp, J. 65, 66, 90, 119
 Kromkamp, J. C. 65, 66, 119
 Krom, M. D. 58, 107
 Kronberg, R. 60
 Krost, P. 81
 Krüger, S. 138
 Krug, L. A. 70, 77
 Kruk, C. 105
 Krupinska, K. 89
 Krupke, A. 83, 100
 Krupovic, M. 135

L

- Laane, R. W. 66
 Laas, A. 62, 78
 Labadie, K. 110
 Labat, D. 92
 Laber, C. P. 121
 Labonté, J. 101
 Labrenz, M. 52, 113, 135
 LaBuhn, S. 45, 106, 117
 LaBuhn, S. L. 45
 Lacerot, G. 105
 Lachner, J. 115
 Lacoue-Labarthe, T. 61
 Lacour, T. 109
 Lacroix, G. 99
 Lafitte, A. 82
 Laflamme, S. 60
 Laforsch, C. 121, 131, 135
 Lagaria, A. 59, 110, 113
 Lage, S. 74
 Lagomarsino, L. 95
 Lagos, N. A. 88
 Lagunas, M. 60
 Lai, B. 58
 Laiz, I. 53
 Lajaunie Salla, K. 72
 Laken, B. A. 130
 Lalande, C. 53
 Lallier, F. 122
 Lambert, A. S. 54
 Lambert, C. 121, 124
 Lambert, M. 91
 Lambert, S. 138
 Lambert, T. 57, 63, 84
 Lamborg, C. H. 47
 Lambrinou, V. 95

- Lami, A. 109
 Lam, P. 60, 100
 Lampadariou, N. 53
 Lampitt, R. S. 53
 Lam, P. J. 60
 Lampou, A. 104
 Lampraki, S. 121
 Lamprecht, R. 57
 Lanagan, T. M. 137
 Lancelot, C. 90
 Lancelotti, J. 137
 Landing, W. 58
 Landing, W. M. 58
 Landis, E. C. 123
 Landolfi, A. 118, 131
 Landry, M. E. 62
 Landry, M. R. 58
 Landschützer, P. 84
 Langdon, C. 106
 Lange, B. A. 87
 Lange, J. 61
 Lange, M. A. 107
 Langenheder, S. 68, 92, 105
 Langone, L. 72, 78
 Lang, T. 134
 Lankiewicz, T. S. 120
 Lansac-Toha, F. A. 101
 Lansac-Toha, F. M. 90
 Lansac-Toha, F. M. 98
 Lansard, B. 49
 Lansdown, K. P. 63
 Lantz, C. A. 46
 Lanzen, A. 97
 Lanzén, A. 97
 Lapierre, J. F. 57
 Lara, E. 90, 98, 113, 121
 Lara, J. L. 129
 Lara, R. J. 99, 116
 Lara, Y. 83
 Largier, J. 122
 Larhlimi, A. 119
 Larios Soriano, E. 81
 Larivière, J. 109
 Larkin, A. 68, 70, 81
 Larkin, A. A. 70, 81
 Larmola, T. 52
 Larndorfer, C. 133
 Larnicol, M. 134
 LaRowe, D. E. 83
 Larrañaga, A. 126
 Larrasoaña, J. C. 109
 Larsen, A. 86, 107, 113, 117, 131
 Larsen, M. 133
 Larsen, S. 106, 130, 132
 Larsson, J. 110
 Larsson, U. 47, 107
 Lasley-Rasher, R. S. 124
 Laspoumaderes, C. 132
 Lassalle, G. 82
 Lastra, M. 101
 Latasa, M. 53, 60, 81, 95, 114, 136
 Latorre, C. 109
 Latour, D. 47
 Lau, D. C. 56
 Lauderdale, J. M. 53
 Laudon, H. 52, 53, 60, 63, 105, 128
 Laughlin, T. 64
 Laurans, M. 67
 Laurel, B. J. 44, 87
 Laurent, A. 44, 45
 Lauridsen, T. 56, 59, 92
 Lauridsen, T. L. 56, 92
 Laurion, I. 92
 Lauritano, C. 133
 Lavaud, J. 110
 Lavender-Law, K. 135
 Lavergne, C. 90
 Laverock, B. 60
 Lavery, P. 80, 137
 Lavik, G. 73, 83, 132
 Lavinan, N. 117
 Lavonen, E. E. 57
 Lavrentyev, P. J. 117, 131
 Law, C. 87, 132
 Law, C. S. 132
 Lawrenz, E. 110, 124
 Laws, E. A. 51
 Lawson, G. L. 46
 Layer-Dobra, K. 64
 Laza-Martinez, A. 119, 124
 Laza-Martínez, A. 117
 Lazaro, F. J. 113, 121
 Lazzari, V. 133
 Lazzaro, X. 60
 Leach, A. 67
 Leach, T. 57, 136
 Leach, T. H. 57
 Leadbetter, A. 138
 Leadbetter, E. R. 108
 Leal, J. F. 104
 Leal, M. 62
 Leandre, M. 97
 Leao, P. 74
 Learned, J. 90, 118
 Learned, J. K. 118
 Leathem, M. 90
 Leavitt, A. H. 121
 Leavitt, P. R. 59, 66, 104, 109
 Lebaron, P. 51
 Le Bescot, N. 102
 Leblud, J. 46
 Leboulanger, C. 108
 Lebredonchel, H. 135
 Lebret, K. 92, 103
 Le Bruchec, J. 113, 122
 Le, C. 44
 Lecher, A. L. 76
 Lechtenfeld, O. J. 83
 LeCleir, G. R. 135, 136
 Ledesma, J. 63
 Lee, A. 45
 Lee, C. 91, 123
 Lee, C. M. 123
 Lee, J. 64
 Lee, K. 123
 Lee-Kuo, K. 119
 Lee, P. 45
 Lee-Patterson, D. A. 62, 132
 Lee, R. F. 97
 Lee, S. 72
 Lee, T. L. 120
 Lee, Y. 85
 Lefebvre, A. 66
 Lefebvre, S. 90
 Lefèbvre, S. 62
 Lefèvre, D. 56
 Lefrançois, C. 62
 Legendre, L. 107, 117
 Legezynska, J. 76, 101
 Le Goff, M. 124
 Legrand, B. 47
 Legrand, C. 47, 97
 Le Grand, F. 48
 Lehmann, M. F. 85, 131
 Lehman, P. W. 91
 Lehner, P. 133, 137
 Lehours, A. C. 51
 Lehrter, J. 44, 45
 Le, H. T. 52
 Lehtinen, S. 50, 67, 137
 Lehtiniemi, M. 50, 56
 Leibold, M. A. 48, 105
 Leira, M. 127
 Leitão, F. 118
 Leith, F. I. 53
 Leize-Wagner, E. 122
 Lejart, M. 120
 Le Jeune, A. H. 117
 Lejeusne, C. 80
 Lekang, K. 97
 Leleu, T. 83
 Leloup, J. 47
 Lemaire, B. J. 47, 49
 Lemmen, C. 49
 Lemmens, P. 126
 Lemmin, U. 137
 Le Moigne, F. 54
 Le Moigne, F. A. 54
 Le Moine, O. 81
 Lenhard, B. 86
 Le Nilhot, P. 67
 Lenters, J. D. 105
 Lentz, M. 113
 Lenz, J. 74, 118
 Lenz, M. 80, 113
 Leonardos, I. 82
 Leone, M. 85
 León, P. 110
 León-Palmero, E. 123
 Lepere, C. 98
 Lepetit, B. 110
 Lepoivre, C. 110
 Leporcq, B. 96
 Leppäranta, M. 78, 130
 Le, Q. P. 52
 Le Quere, C. 67
 Lerouxel, A. 134
 Le Saout, M. 113
 Lessard, E. J. 136
 Lesuisse, E. 48
 LeTortorec, A. 50
 Le Tortorec, A. H. 137
 Leuenberger, M. 108
 Le Vay, L. 75
 Leveque, L. 82
 Levi, E. 126
 Levin, L. 69, 73, 95, 101
 Levin, L. A. 69, 95, 101
 Levin, S. A. 67
 Levontin, P. 67
 Levy, O. 133
 Lewandowska Aleksandra, A. M. 113
 Lewandowska, A. M. 116
 Lewandowski, J. 68, 129
 Lewicki, J. P. 128
 Lewis, C. 61, 69, 134
 Lezcano, M. 77, 80, 127
 L. Figueira, R. C. 124
 Lhermitte, S. 75
 Liao, W. H. 100
 Liao, Y. 117
 Li, B. 82
 Libralato, S. 67, 82
 Licandro, P. 58
 Liceaga, M. A. 137
 Lichtenberg, M. 138
 Lichti, D. A. 87
 Lichtschlag, A. 113, 133
 Liebman, M. 67
 Liess, A. 121
 Li, G. 119
 Li, L. 134
 Lilley, M. K. 86
 Lilover, M. J. 127
 Lim, A. 59
 Lima, F. P. 50, 51, 76
 Lima-Mendez, G. 108, 110
 Limberger, R. 105
 Limnology Laboratory of Regina 59
 Limoges, A. 77
 Lim, S. 101
 Linares, C. 91
 Lindahl, O. 81
 Lindemann, Y. 128
 Lindgren, E. A. 130
 Lindh, M. V. 47, 97
 Lindström, E. 92, 105, 128
 Lindström, E. S. 105, 128
 Lin, H. T. 114
 Linké, P. 137
 Linkhorst, A. 64
 Lin, P. 83
 Lins, L. 103
 Lin, X. 126
 Lin, Y. 68, 81
 Lipcius, R. N. 93
 Lipej, L. 104
 Lipka, M. 68, 75
 Lipsewers, T. 65, 132
 Lips, I. 80, 91, 108
 Li, Q. 117
 Liquete, C. 67
 Lirer, F. 85
 Li, S. 91
 Lischke, B. 112
 Lis, H. 48
 Liskow, I. 72, 76
 Litaon, M. I. 49
 Litchman, E. 47, 87, 89, 93
 Litrico, X. 72
 Little, A. 132
 Little, J. C. 48, 104
 Littmann, S. 92, 100
 Littman, S. 73
 Liu, G. Z. 55
 Liu, H. B. 101
 Liu, J. 108
 Liu, Q. 120
 Liu, S. 96
 Liu, X. 114, 131
 Liu, Z. 96
 Li, W. 77, 88, 123
 Li, W. K. 77
 Li, Y. 96
 Li, Z. 86, 88, 90, 91
 Lizon, F. 66
 Li, Z. Q. 91
 Ljung, K. 50
 Llabres, M. 81, 94
 Llames, M. E. 95
 Llopiz, J. K. 87, 104
 Lloyd, K. G. 100, 128
 Lobo, F. J. 129
 Lobry, J. 82
 Locke, A. 100
 Löder, M. 100, 121, 134, 135
 Löder, M. G. 135
 Lodge, D. M. 55
 Loecke, T. 52
 Loescher, C. 132
 Loewen, C. J. 55
 Löfgren, S. 95
 Loftus, S. 48, 68
 Logares, R. 46, 86, 102, 103, 111, 120
 Lo Giudice, A. 83
 Logue, J. B. 128
 Lohan, M. C. 58
 Lohbeck, K. T. 88
 Lohmeier, J. 70
 Loiselle, S. 102, 104
 Loiselle, S. A. 102, 104
 Loizeau, J. L. 60
 Loken, L. C. 92
 Lomas, M. W. 67, 81, 101, 132

- Lombard, F. 86, 88, 97
 Lombardi, A. T. 74
 Lomnitz, U. 131
 Long, A. M. 86
 Longhi, D. 63
 Long, M. 48
 Longnecker, K. 83, 127
 Longo, A. F. 58
 Longo, A. F. 58
 Longo, W. M. 59
 Looman, A. 66
 Loose, B. 106
 Lopes, A. 92, 102, 103
 Lopes, A. R. 92
 Lopes, A. S. 103
 Lopes, C. 106
 Lopes dos Santos, A. 88
 Lopes, R. M. 136
 Lopes, V. M. 61
 López Abbate, M. M. 86
 Lopez-Bueno, A. 83, 135
 López-Bueno, A. 83
 López, C. 101
 López-Carrique, E. M. 79
 López-Fernández, M. 122
 López-Flores, R. 56
 Lopez García de Lomana, A. V. 45
 Lopez-Lopez, L. 62
 López, M. E. 70
 Lopez, P. 75
 López, P. 57, 63, 73
 López Peñalver, J. J. 123, 138
 Lopez-Pulido, P. 95
 López, R. 77
 López-Rodríguez, C. 84
 López-Rodríguez, M. C. 127
 López-Rodríguez, M. J. 101, 116
 López-Rosado, R. 120
 López-Ruiz, A. 129
 Lopez Sandoval, D. C. 80
 López-Sanz, A. 73, 80
 López-Sanz, Á. 91
 López-Urrutia, Á. 81
 Lorch, M. 88
 Loreau, M. 67
 Lorenzo, M. R. 62, 65, 113, 121
 Lorenzoni, L. 84, 132
 Lorenz, P. 58, 73
 Lorenz, S. 55
 Lorenzzetti, J. A. 62
 Lorké, A. 66, 67, 92, 106
 Losada, I. J. 129
 Losada, M. A. 122, 129
 Losada Rodríguez, M. 110
 Losada Rodriguez, M. A. 78, 130
 Löschner, C. 73, 131
 Löschner, C. R. 73
 Loth, S. 134
 Lott, C. 133
 Lotter, A. F. 108
 Louati, I. 47
 Loucaides, S. 137
 Lourenço-Amorim, C. 132
 Lourenço-Amorim, C. 63
 Lourguioui, H. 81
 Lourie, W. 44
 Louw, D. 65
 Lovejoy, C. 60, 103
 Lovelock, C. E. 81, 137
 Love, M. 134
 Lovera, C. 92
 Lövik, J. E. 130
 Low-Decarie, E. 114
 Lowe, L. 44
 Lozano, J. 46, 136
 Lubelczyk, L. C. 88
 Lubian, L. 81, 94
 Lubián, L. 65, 81, 94
 Lubián, L. M. 65, 81
 Lucas, C. 97
 Lucena-Moya, P. 127
 Luchetta, A. 88
 Lucio, M. 96, 122
 Luckenbach, M. W. 65
 Luckenbach, T. 87
 Lucy, F. E. 55
 Ludwig, C. M. 69
 Luecke, C. M. 46
 Lueders-Dumont, J. 60
 Luek, J. 96, 106
 Lüemann, L. 81
 Luimstra, V. M. 47
 Luis, K. 44, 71
 Lu, K. 126
 Lukeš, J. 103
 Lukes, M. 109
 Lukovich, J. V. 55
 Lu, L. 100
 Lundin, D. 46, 97
 Lundin, E. 53, 66, 91
 Lundin, E. J. 53
 Lund, S. 70
 Luo, J. Y. 114
 Luoto, M. 98
 Lupon, A. 63, 79
 Luque, I. 51
 Lurling, M. 47, 72, 74, 126, 129
 Lüring, M. 47, 64, 74, 105, 126, 129
 Lustick, D. 70
 Luther, G. W. 71
 Lu, Y. 120
 Lu, Z. 126
 Lykousis, V. 113
 Lynam, C. 82
 Lyon, S. W. 66
 Lyons, W. B. 83, 130
- M**
- Maanoja, S. T. 68
 Maas, A. E. 46
 Maas, E. W. 132
 Maberly, S. 62
 Maberly, S. C. 62
 Macciavelli, R. 127
 MacCready, P. 136
 Maceda-Veiga, A. 101
 Macey, A. I. 119
 Machado-Silva, F. 86
 Machado Velho, L. F. 90, 98
 Macias, D. 67, 110, 119, 127
 Macias, D. 110
 Macias, D. M. 119
 Macintosh, K. 127
 MacIntyre, S. 49, 52, 53
 MacIsaac, H. 55, 56, 100
 MacIsaac, H. J. 55, 56, 100
 Mackay, A. 87
 Mackay, A. W. 87
 Mackay, E. B. 128
 MacKay, R. 71
 Mackenzie, F. T. 87
 Mackenzie, R. 89
 Mackey, K. R. 65
 Macklin, P. A. 118
 MacLennan, M. M. 55
 Macleod, C. K. 67, 81
 MacMahan, J. H. 50
 Mac Nally, R. 55
 MacPherson, R. 90
 Macreadie, P. 137
 Madgwick, G. 116
 Madhusoodhanan, R. 117, 131
 Maeck, A. 92
 Maes, G. 99
 Magen, C. 128
 Maguas, C. 87
 Maguire, I. 138
 Mahadik, G. A. 58
 Mahaffey, C. A. 131
 Mahe, F. 102
 Maher, D. 64, 66, 78, 99, 118
 Maher, D. T. 64, 78, 99, 118
 Mahmood, A. 84
 Maia-Barbosa, P. M. 98
 Maier, D. B. 59
 Main, C. 90
 Maiategui, T. 95
 Majone, B. 49
 Makhutova, O. N. 56, 86
 Maki, R. P. 136
 Makris, C. V. 78, 117
 Maksyutov, S. 63
 Ma, L. 68
 Malagon, H. 71
 Malcolm X Shabazz Aquatic Geochemistry Team 100
 Maldano, J. 58
 Maldener, I. 89
 Maldonado, A. 109
 Maldonado, D. A. 44
 Maldonado, F. 94, 114, 122
 Maldonado, M. T. 48, 113, 121
 Malej, A. 51, 104, 116, 134
 Malekmohammadi, R. 91
 Malfatti, F. 51, 53, 91
 Maliaka, V. 129
 Malik, H. 59
 Malishev, M. 132
 Malitsky, S. 135
 Malkin, S. 51, 69, 90
 Malkin, S. Y. 51, 69
 Mallios, A. 137
 Malone, S. L. 88
 Maloufi, S. 47
 Malviya, S. 103
 Malzahn, A. M. 45, 46, 116
 Mambo, T. 84
 Manak, J. R. 46, 86
 Mandalakis, M. 59
 Mandrak, N. E. 55
 Mandrak, N. E. 55
 Manecki, M. 84
 Manes, C. L. 95
 Manfrino, C. 44, 71
 Mangala, K. R. 52
 Mangan, S. 61
 Mangin, A. 81
 Mangot, J. F. 94, 102, 111
 Maniscalco, C. 135, 136
 Mani, T. A. 135
 Manninen, I. 50
 Manno, C. 53, 78
 Mann, P. J. 105
 Mantzouki, E. 47
 Manzari, C. 103
 Manzello, D. 106, 133
 Manzello, D. P. 133
 Maps, F. 45
 Marambio, M. 85
 Marandino, C. A. 78
 Maranger, R. 66, 126
 Marañón, E. 81, 136
 Marañón, E. 60, 80, 119, 131
 Marañón, M. 131
 Mara, P. 110
 Marba, N. 61
 Marbá, N. 88, 137
- Marbà, N. 81, 137
 Marce, R. 75
 Marcé, R. 52, 57, 63, 67, 75
 Marchant, H. 83
 Marchant, H. 132
 Marchetti, A. 48, 91
 Marchetto, A. 96, 109
 Marcolin, C. R. 136
 Marconi, D. 60
 Marco, S. 122
 Margaritelli, G. 85
 Margolin, A. R. 84
 Margoum, C. 126
 Mariani, P. 46
 Mariash, H. L. 96
 Marie, D. 98
 Mariel, N. 82
 Marinho, M. M. 47, 72
 Marin, I. 58
 Marín, I. B. 72
 Marisaldi, L. 133
 Marjanovic-Rajcic, M. 57
 Markager, S. 106, 129, 134
 Markensten, H. 67, 104
 Mark, F. C. 89
 Markowitz, M. 106
 Markstedt, H. 67
 Marlow, J. 78
 Marotta, H. 80
 Marquard, R. 81
 Marquardt, M. 94
 Marques, J. F. 102
 Marquis, N. D. 100
 Marrase, C. 58, 128
 Marrasé, C. 46
 Marrasé, C. 128
 Marriner, A. 87
 Marro, S. 65
 Marsay, C. 53, 54, 58
 Marsay, C. M. 53
 Martí, E. 111
 Martí, E. 63, 75, 79, 86
 Martikainen, P. 52, 111
 Martikainen, P. J. 52
 Martin, A. P. 65, 81, 114, 127
 Martin Creuzburg, D. 117
 Martin-Creuzburg, D. 131
 Martín, E. J. 54
 Martinelli, L. A. 52
 Martinetto, P. 81
 Martínez, A. 126
 Martinez, A. M. 116
 Martinez, B. 51
 Martinez-Castrillon, D. 136
 Martínez-Castrillón, D. 76
 Martínez-Crego, B. 82, 131
 Martínez-Cruz, K. 91, 92
 Martínez Fernández, A. 73
 Martínez, G. 127
 Martínez-García, M. 114
 Martínez-García, S. 107, 109, 133
 Martinez Garzon, F. J. 77
 Martínez-Haro, M. 115
 Martinez, I. 122
 Martinez, I. 114
 Martinez, J. 84
 Martinez, M. 58
 Martínez Martínez, J. 121
 Martínez Martínez, J. 101, 121
 Martínez, M. H. 59, 73
 Martínez Pérez, A. M. 83
 Martínez-Pérez, A. M. 83
 Martínez Pérez, C. 73
 Martínez-Rodríguez, G. 77
 Martinez-Ruiz, F. 85, 97, 109
 Martínez-Ruiz, F. 88

- Martínez-Ruiz, F. 85, 97
 Martínez-Ruiz, F. 84
 Martínez, V. M. 134
 Martin, G. 50, 104
 Martin Garcia, A. 77
 Martin Platero, A. M. 108
 Martin-Platero, A. M. 96
 Martin, S. 92
 Martins, G. M. 118
 MARTINS, J.R. 49
 Martins, M. 118
 Martiny, A. C. 67, 81, 132
 Martínez, N. 104
 Martrat, B. 84
 Martyniuk, N. 79, 83
 Martz, T. 70, 106, 137
 Martz, T. R. 70, 137
 Maruo, C. 75
 Marvin-DiPasquale, M. 60
 März, C. 84
 Marzett, V. 131
 Marzin, A. 67
 Marzocchi, U. 131
 Masclaux, H. 62
 Mason, E. 136
 Masque, P. 137
 Masqué, P. 54, 64, 85, 99, 109, 115, 137
 Massa, F. 100
 Massa Gallucci, A. 130
 Massamba-N'Siala, G. 89
 Massana, R. 86, 102, 111, 114, 120
 Massart, W. 46
 Masson, M. 138
 Mass, T. 46
 Mastitsky, S. E. 55
 Masuda, T. 124
 Masuda, Y. 96
 Mata, M. P. 84, 119
 Mate, J. 106
 Mateo, M. A. 137
 Mathes, T. 97
 Mathew, K. A. 132
 Mathiessen, B. 96
 Matrai, P. A. 85
 Matranga, M. 112
 Matson, P. G. 48
 Matsumoto, K. 73
 Matsumoto, R. 62
 Matsuo, K. 99
 Mattern, J. P. 128
 Matthesini, M. M. 130
 Mattfeldt, T. 129
 Matthaei, C. D. 134
 Matthews, M. W. 134
 Matthiessen, B. 50, 76, 113
 Matthijs, H. 47, 109, 110
 Matthijs, H. C. 47, 109
 Mattos, A. 126
 Mattsson, J. 61
 Matveev, A. 52
 Matzinger, A. 112
 Maud, J. L. 128
 Maugeri, T. 83
 Mavric, B. 104
 May, A. L. 120
 Mayali, X. 86, 88, 103, 128
 Maydanov, A. 96
 May, E. B. 77
 Mayén-Estrada, R. 99
 May, L. 127
 Maynou, F. 85
 Mayor, D. J. 45, 81
 Mayot, N. 103
 Mayr, M. 52, 106, 128
 Mayr, T. 137
 Maza, M. 129
 Mazard, S. 98
 Mazarrasa, I. 137
 Mazeran, C. 134
 Mazuecos, I. P. 78, 122
 Mazzeo, N. 105
 Mazzocchi, M. 58
 Mazzocchi, M. G. 58
 Mbega , J. D. 57
 McCabe, D. 101
 McCallister, S. L. 57
 McCandless, M. 121
 McCann, M. 86
 McCarthy, M. D. 83
 McCarthy , M. J. 112
 McCarthy, M. J. 49, 126
 McCartney, M. S. 52
 McCary, N. 136
 McCaul, M. 138
 McColl, J. L. 109
 McConville, K. 128
 McCormick, M. I. 89
 McCormick-Ray, M. G. 50
 McCoy, S. J. 113
 McCrackin, M. 67
 McCrow, J. P. 108, 136
 McDonald, C. M. 49
 McDonald, N. 71, 72, 84
 McElarney, Y. 127
 McElhaney, D. 130
 McElhany, P. 92
 McEvoy, A. J. 128
 McGenity, T. J. 98
 McGillicuddy, Jr., D. J. 66
 McGillis, W. R. 102, 106
 McGinnis, D. F. 53, 106
 McGlathery, K. J. 106
 McGowan, S. 59, 87, 109
 McGuinness, L. M. 52
 McGuinness, L. R. 117
 McIlvin, M. 47, 48, 88
 McIlvin, M. R. 47, 48, 88
 McIntosh, H. 57
 McIntyre, C. 105
 McIntyre, P. B. 84, 105
 McKay, C. L. 85
 McKay, C. P. 130
 McKay, L. 92
 McKenzie, C. H. 100
 McKenna, K. 71
 McKew, B. A. 109
 McKie, B. G. 56, 134
 McKinsey, C. W. 100
 McKinnon, A. D. 59
 McKnight, D. M. 82
 McMahon, K. 80
 McManus, M. G. 92
 McMinds, R. 136
 McNair, H. 112
 McNamara, E. 138
 McNamara, J. M. 89, 128
 McNeill, L. 68
 McQuaid, J. B. 48
 McQuatters-Gollop, A. 82
 Medeiros, L. M. 126
 Medeiros, S. 137
 Medina Castillo, A. L. 123, 138
 Medina-Castillo, A. L. 138
 Medina-Durán, J. H. 99
 Medina-Sánchez, J. M. 77, 94, 118, 124, 132
 Medlin, L. 95
 Medova, H. 51
 Mehner, T. 56, 92, 105, 112
 Mehring, A. S. 69
 Meier, D. 128
 Meier, J. 114
 Meier, M. 48
 Meier, S. K. 61
 Meile, C. 137
 Meili, M. 60
 Meinecke, S. 134
 Meinhard, S. 128
 Meira, B. R. 90, 98
 Meire, L. 69
 Meire, P. 129
 Meis, S. 116
 Meisterl, K. 52, 128
 Méjean, A. 47
 Mejia, L. M. 106
 Melack, J. M. 53
 Méléder, V. 110
 Mello, N. A. 99
 Melnick, D. 130
 Melvin, W. 135
 Melzner, F. 50, 73, 76, 80
 Mena, C. 68
 Mende, D. 110
 Menden-Deuer, S. 59, 60, 99, 101, 103, 123
 Mendes e Mello, M. 47
 Méndez, F.J. 106
 Mendez, G. L. 108
 Méndez-Martínez, G. 82
 Méndez-Vicente, A. 106
 Mendiola, D. 117
 Mendonca, I. 57, 72
 Mendonca, I. R. 72
 Mendosaikhian, B. 87
 Menéndez , M. 86
 Menéndez, M. 106
 Menezes, R. 126
 Meng, P. 124
 Menzel, J. 124, 125
 Menzel, J. L. 124
 Merbt, S. N. 111
 Mercado, J. M. 58, 65, 77, 110
 Mercalli, L. 96
 Mercatoris, P. 134
 Meriluoto, J. 47
 Merino Martos, A. 129
 Merkt, J. 109
 Merroun, M. L. 122
 Mesa, E. 80, 103
 Mesa, Elena, E. M. 103
 Meschini, M. 102
 Mescioglu, E. 71
 Mes, D. 74, 127
 Mesner, N. O. 120
 Mesquita, C. M. 72
 Messerschmidt, C. 89
 Metaxas, A. 80
 Metcalf, Amanda, A. M. 103
 Metfies, K. 53, 59, 66, 111
 Metodieve, G. 109
 Metodiev, M. 109
 Meunier, C. L. 45
 Mevenkamp, L. 69
 Meyer, B. 129
 Meyer, C. 68
 Meyer, D. 138
 Meyerhoff, J. 112
 Meyer, S. 133
 Meyerson, L. A. 55
 Meysman, F. 51, 69, 88, 90
 Meysman, F.J. 69, 88, 90
 Meziti, A. 82, 111
 Mezquita, F. 89
 Michalec, F. G. 45
 Michalopoulos, P. 114
 Michalski, S. 54
 Michaud, E. 69
 Michel, A. P. 44
 Michel, F. 133
 Micheller, S. 59
 Michels, J. 121
 Michelutti, N. 109
 Michisaki, R. 122
 Michot, T. C. 80
 Middelboe, A. L. 99
 Middelburg, J. J. 51
 Mienis, F. 114, 122
 Migliaccio, O. 95
 Migliolo, F. X. 44
 Miguel, I. 124
 Mihalopoulos, N. 58, 107
 Mikel , L. 72
 Mikucki, J. A. 130
 Milan, M. 108
 Milazzo , M. 118
 Milazzo, M. 133
 Millán, A. 112
 Miller, C. 62, 134
 Miller, C. A. 134
 Miller, G. M. 89
 Miller, M. 53
 Miller, R. J. 56, 100, 134
 Millette, K. 105
 Milligan, A. J. 109
 Mills, D. 66
 Mills, J. V. 78
 Mills, M. M. 131
 Milucka, J. 92, 100
 Mincer, T. 44, 76, 112, 135
 Mincer, T. J. 44, 76, 112, 135
 Mingram, J. 108
 Minor, E. C. 134
 Mino, Y. 94
 Miras, Y. 47
 Mirza, S. 135
 Mishra, A. 133
 Mistlberger, G. 123, 137
 Mitarai, S. 69, 73, 94
 Mitchell, C. 123, 134
 Mitchell, J. G. 90
 Mitra, A. 46
 Mitrovic, S. 104
 Mittermayr, A. 56
 Mix, A. C. 106
 Mizuno, C. 88
 Mladenov, N. 72
 Mochizuki, T. 135
 Modenutti, B. 75, 79, 83, 132
 Modenutti, B. E. 132
 Moeller, I. 129
 Moelzner, J. 130
 Moen, A. L. 118
 Moen, A. L. 118
 Moffett, J. 115, 131
 Mohamed, R. 100
 Møhlenberg, F. 99
 Mohn, C. 69
 Mohr, S. 134
 Mohr, W. 73, 87
 Moisander, P. 68, 131
 Moisander, P. H. 68
 Moita, T. 136
 Mokhtar, M. 84
 Mokievsky, V. 69
 Mok, J. 123
 Moksnes, P. O. 91
 Molari, M. 133
 Møller, E. F. 73
 Moller, I. 130
 Møller, L. F. 56
 Mollot, R. 121
 Mompean, C. 103
 Monchamp, M. 97
 Monchy, S. 86

- Mongin, M. 48
 Mongin, S. 123
 Mongruel, R. 67
 Moniruzzaman, M. 136
 Monperrus, M. 60
 Monros, J. 89
 Monteiro, F. M. 81
 Monteiro, J. 118, 133
 Monteith, D. 109
 Montero, M. F. 78, 122, 136
 Montes, E. 118, 132
 Montes-Herrera, E. 51
 Montoya, J. M. 67
 Montoya, J. P. 62, 120, 132
 Montresor, M. 89, 103
 Montserrat, F. 88
 Moodley, L. 69
 Mooij, W. 49, 112
 Mooij, W. M. 49
 Mook, B. 67
 Moore, A. L. 116
 Moore, A. M. 70, 100
 Moore, C. M. 74, 119, 131
 Moore, J. K. 133
 Moore, K. A. 111
 Moore, M. V. 87
 Moore, T. N. 71
 Moore, T. S. 62
 Moorhouse, H. L. 109
 Moorthi, S. D. 60
 Moosdorf, N. 76
 Moosen, H. 109
 Mopper, K. 51, 134
 Morad, M. R. 91
 Moraitis, M. 73, 121
 Morales-Baquero, R. 58
 Morales-Nunez, A. G. 78
 Morales-Pineda, M. 53
 Morales, R. 108
 Morales-Ramírez, A. 90
 Morales, S. M. 137
 Morales-Williams, A. M. 57
 Morana, C. 96
 Moran, D. 47, 48, 88
 Moran, D. M. 47
 Moran, M. A. 51, 112
 Moran, X. A. 94
 Morán, X. A. 51, 60, 80, 81, 103, 135
 Moran, X.A. G. 81
 Morán, X. AG. 103
 Moran, X. G. 103
 Morelló-Montalbá, L. 97
 Morden, A. L. 100
 Mordret, S. 108
 Mordy, C. W. 131
 Moreira, C. 76
 Moreira-Coello, V. 81, 131
 Morel, C. 64
 Morel, F. M. 48
 Morelle, J. 90
 Morell, J. 116, 117, 124
 Morell, J. M. 117, 124
 Morellón, M. 119
 Moreno , A. 119
 Moreno, A. 84, 106
 Moreno, C. 100
 Moreno, E. J. 95
 Moreno-Linares, E. J. 86, 89, 98
 Moreno-Madrinan, M. 62
 Moreno-Marín, F. 95
 Moreno-Ostos, E. 81, 94
 Moreno-Paz, M. 114
 Moreno, T. 58, 72
 Morgan-Kiss, R. 88, 114, 123
 Morgan-Kiss, R. M. 114, 123
 Morgan, S. G. 50
- Morgenstern, A. 130
 Morgui, J. A. 63
 Moriceau, B. 122
 Mori, F. 99
 Morillo-García, S. 94, 117
 Morimoto, H. 73, 119
 Morin, S. 54
 Morison, F. 59
 Morita, A. 54
 Morling, K. 96
 Moros, C. 72
 Morris, E. P. 119, 129, 130
 Morris, J. T. 137
 Morrison, J. R. 67
 Morrissey, J. 48
 Morrow, R. 136
 Morse, M. 70
 Mortazavi, B. 64, 117
 Mörth, C. M. 53, 63, 66
 Mortier, L. 107
 Mortimer, G. 48
 Mortimer, R. J. 58
 Morton, P. K. 136
 Morys, C. 68
 Mosello, R. 96
 Moseman-Valtierra, S. 100, 118
 Moseman-Valtierra, S. M. 118
 Moser, F. C. 67
 Mosquera, P. 98
 Mostajir, B. 51, 113
 Mostovaya, A. 105
 Motschman, J. 59
 Mouginot, C. 132
 Moulin, L. 46
 Moulton, T. 63, 86, 132
 Moulton, T. P. 86, 132
 Moureaux, C. 61
 Mourño Carballido, B. 131
 Mourino-Carballido, B. 60, 81, 119, 131, 136
 Mousing, E. A. 105
 Mousseau, L. 65
 Moustafa, A. 48, 108, 136
 Moutopoulos, D. 82
 Movellan, A. 53
 Movilla, J. 46, 73, 114
 Mowlem, M. 123, 137, 138
 Mowlem, M. C. 137, 138
 Moya, F. 122
 Moyà, G. 68
 Moyer, R. 106
 Moyo, S. 86
 Mozetic, P. 104
 Mputu, A. 96
 Mrutyunjaya, P. 46
 Mucciarone, D. 45, 78
 Muck, S. 113
 Mudie, P. 89
 Mueller, D. 53
 Mueller, J. 114
 Mueller, M. 53
 Mueller, R. 86, 88, 128
 Mui, A. 120
 Mulch, A. 85
 Mulholland, M. 51, 57, 71, 72, 78, 118, 119
 Mulholland, M. R. 51, 71, 72, 78, 118, 119
 Müller, B. 123, 137
 Müller, B. J. 123, 137
 Müller, C. 96
 Müller, J. 50
 Muller-Karger, F. 84, 132
 Muller-Karger, F. E. 84
 Mulligan, K. H. 128
 Mullineaux, L. S. 44
- Mumford, J. 67
 Munch, S. B. 112
 Munday, P. L. 89
 Munger, Z. W. 104
 Muñiz, O. 60, 117
 Munné, A. 55
 Muñoz de la Peña Castrillo, A. 138
 Muñoz, I. 54, 57, 75, 86
 Munoz, J. 136
 Muñoz, M. 52, 122
 Muñoz-Marín, M. C. 108
 Muñoz-Marín, M. C. 51
 Muñoz, M. I. 52
 Munroe, D. M. 100
 Murdoch, J. 87
 Murik, O. 112
 Murphy, A. E. 64, 65
 Murphy, C. 138
 Murphy, S. 55
 Murray, C. 104, 134
 Murray, H. 70
 Murray, P. J. 100, 128
 Murrell, M. 45
 Musazzi, S. 109
 Musielewicz, S. 87
 Mussmann, M. 90
 Mutalipassi, M. 130
 Mutchler, T. 49
 Mutz, D. 112
 Muvundja Amisi, F. 96
 Muvundja, F. A. 64
 Muylaert, K. 98
 Muyzer, G. 74
 Mychek-Londer, J. G. 100
 Mylona, K. 117
- N**
- Nabout, J. 105
 Naftz, D. L. 62
 Nagai, T. 45, 69
 Nagata, T. 54, 62, 122
 Najjar, R. 57, 72
 Najjar, R. G. 72
 Nakajima, Y. 94
 Nakamura, M. 69
 Nakamura, R. 58
 Nakamura, R. 102
 Nakano, S. 101
 Nakar, N. 85
 Nakata, H. 99
 Nakayama, T. 63
 Naranjo, C. 110
 Naranjo-Rosa, C. 110
 Narayan, S. 129
 Nardin, C. 123
 Nascimento, F. 69, 99
 Naselli-Flores, L. 126
 Nasermoaddeli, H. 49
 Nasi, F. 101, 134
 Natale, F. 120, 121
 Natali, S. M. 66
 Natchimuthu , S. 91
 Naumann, M. S. 63
 Naumenko, M. A. 130
 Navarrete, S. 82
 Navarro, G. 119, 129
 Neale, P. J. 48, 65
 Nebot, E. 90
 Nebra, A. 105
 Nedbalová, L. 96
 Nederbragt, L. 102
 Needham, D. M. 97, 135
 Needoba, J. A. 108
 Negreiros, O. P. 98
 Negrón, O. J. 71
- Neil, H. 97
 Neill, C. 44
 Nejstgaard, J. C. 107, 113, 131
 Nelson, C. E. 128
 Nelson, H. 90
 Nelson, W. A. 128
 Nenes, A. 58
 Nerat, N. 102
 Neres-Lima , V. 132
 Neres-Lima, V. 86
 Nerini, D. 46
 Neszi, N. Z. 60
 Neto, J. F. 91
 Neubert, M. G. 123
 Neuhaus, S. 111
 Neulinger, S. 86
 Newell, R. I. 116
 Newell, S. E. 126
 Newton, A. 81, 95
 Newton, J. A. 46, 87
 Ngoka, I. 77
 Nguyen, H. T. 52
 Niavis, S. 82
 Niblock, H. 117
 Nichols, P. D. 131
 Nickerson, Z. L. 64
 Nicolaïdou, A. 82
 Nicol, J. 126
 Niehoff, B. 61, 116, 124, 129, 132
 Niell, F. X. 62
 Nielsen, E. E. 45
 Nielsen, J. M. 62
 Nielsen, L. T. 108
 Nielsen, L. T. 90
 Nielsen, M. 138
 Nielsen, N. J. 128
 Nielsen, S. L. 50
 Nielsen, T. G. 59, 73, 128
 Nielsen, U. G. 129
 Niemann, H. 85
 Niemi, T. M. 122
 Nieslottir, M. C. 51
 Niessner, R. 135
 Nietch, C. T. 92
 Nieto Cid, M. 83
 Nieto-Cid, M. 65, 83, 128
 Nieto-Cid, M. M. 65, 128
 Nieto-Moreno, V. 85, 97
 Nieves, M. A. 44
 Nifong, R. L. 132
 Niggemann, J. 64, 84, 105, 106, 128
 Nightingale, A. 138
 Nigro, O. D. 114
 Nihongi, A. 45, 59, 69
 Nilsson Sköld, H. 61
 Niño, J. P. 128
 Niquist, N. 82
 Nishibori, N. 120
 Nishimura, O. 75
 Nissimov, J. I. 112
 Niu, D. 90
 Ni, X. 107
 Nixdorf, B. 47, 121
 Nixon, J. 123
 Nixon, S. 81
 Nizzetto, L. 60
 Nizzoli, D. 63
 Noble, D. 64
 Nôges, P. 126, 127
 Nôges, T. 126
 Nogueira, E. 51, 81
 Nogueira, M. 133
 Nogue, S. 97
 Noh, J. 123
 Noh, J. H. 123
 Nolte, T. 135

- Norf, H. 54
 Norling, K. 82
 Northington, R. M. 59, 96
 Nos, J. 122
 Noss, C. 106
 Not, F. 45, 103, 110
 Nöthig, E. M. 53
 Notholt, J. 53
 Novac, A. 46
 Novellino, A. 138
 Novoa, A. 93
 Novoa, S. 102
 Nowacek, D. 71
 Nugues, M. M. 74
 Nunes, F. 98
 Nunes, S. 58, 72
 Nunes, S. O. 72
 Nuñez, L. 124
 Nunn, B. L. 61
 Nuy, J. K. 94
 Nwankire, C. 138
 Nykänen, H. 78
 Nyoni, F. C. 57
- O**
- Oba, J. 86
 Obbels, D. 83
 Oberbeckmann, S. 135
 Obernosterer, I. 56
 Obrador, B. 52, 57, 63, 75
 Obrecht, D. V. 102, 104
 O'Brien, C. J. 81
 Obryk, M. K. 130
 Obura, D. 82
 O'Donnell, D. R. 87
 O'Donnell, R. 62
 O'Donnell, R. 134
 O'Farrell, I. 122
 Offre, P. 52
 Ofir, E. 67, 107
 Ogashawara, I. 74
 Ogawa, H. 107
 Oghenekaro, E. U. 116
 Oglesby, T. L. 71
 Ohkouchi, N. 62
 Öhlund, G. 93
 Ohman, M. D. 136
 Oja, J. 50
 Ojala, A. 53
 Ojamäe, K. 91, 108
 Ojeda, J. J. 74, 135
 Okazaki, M. 119
 O'Kennedy, R. 138
 Okuda, N. 101
 Okuno, K. 99
 Olariaga, A. 114
 Oldani, K. 72
 Oldham, V. 71
 Olivari, P. 104
 Olivé, I. 133
 Oliveira, A. P. 133
 Oliveira, N. C. 104
 Oliver, A. 72
 Oliver, C. D. 63
 Oliver, S. K. 112
 Olli, K. 67, 132, 137
 Olsen, A. J. 89
 Olsen, S. I. 70
 Olsen, Y. 88
 Olson, J. R. 54
 Olson, R. J. 66, 123
 Olsson, C. 53
 Olsson, H. 47
 Olszewska, J. P. 49
 Olu, K. 113, 114, 122
- Olu, K. 113
 Omengo, F. O. 84
 Ometto, J. P. 52
 Ondiviela, B. 129
 Onuchin, K. A. 87
 Oosterhout, F. 47
 Oppenheim, N. 49
 Óquist, M. 63
 Oquist, M. G. 53
 Orchard, M. J. 99
 Orchowska, M. 70
 Orcutt, B. N. 116
 Ordóñez, V. 71
 Orejas, C. 114
 Orellana, M. 45, 69, 127
 Orellana, M. V. 45, 69, 127
 Orive, E. 119, 124
 Orlando-Bonaca, M. 104
 Ormerod, S. 64
 Ormerod, S. J. 64
 Orozco-Holguín, J. 95
 Orphan, V. 78
 Orphan, V. J. 78
 Orriach-Fernandez, F. J. 138
 Orr, R. 102
 Orr, R. J. 102
 Orruño, M. 97
 Ortega-Huertas, m. 97
 Ortega-Huertas, M. 85, 97
 Ortega, M. J. 117
 Ortega Sánchez, M. 110
 Ortega-Sánchez, M. 122, 129
 Ortega Sanchez, M. O. 130
 Ortiz-Rosa, S. 120
 Ortiz, V. 51
 Ortlepp, J. 127
 Ortner, P. B. 54
 Orvain, F. 90
 Osborn, A. M. 135
 Oschlies, A. 54, 78, 118, 131, 132, 133
 Oseji, O. F. 116
 Osma, N. 94, 114, 122
 Osorio Arias, A. F. 129
 Osorio Cano, J. D. 129
 Ospina-Alvarez, A. 82
 Ossolinski, J. E. 112
 Osterholz, H. 83, 128
 Ostle, C. 84
 Östman, Ö. 92
 Ostrowski, M. 98
 Oswald, K. 92
 Otero, E. 124
 Otero-Ferrer, J. L. 48, 81
 Otero, J. 60, 68
 Otero, J. L. 60
 Otero-Morales, E. 71
 Otero, X. L. 127
 Otosaka, S. 124
 Otten, T. G. 126
 Ouba, A. 107
 overholt, E. P. 57
 Overton, M. 65
 Owens, E. M. 104
 Owens, M. S. 48
 Owens, S. M. 64
 Ozersky, T. 87, 89
 Ozkan-Haller, H. T. 106
 Özkundakci, D. 96, 127
- P**
- Paalme, T. 50
 Paavel, B. 62
 Pace, M. 52, 56, 104, 127
 Pace, M. L. 52, 104, 127
 Pacheco, F. 52, 63
 Pacheco, F. S. 63
 Pachiadaki, M. 51, 85, 108, 118
 Pachiadaki, M. G. 51, 85, 108
 Packard, T. T. 94, 114, 122
 Padilla, A. M. 44
 Padin, X. A. 88
 Padin, X. A. 78, 136
 Paerl, H. W. 126
 Paerl, W. S. 126
 Paes, T. A. 98
 Page, H. M. 56, 100, 101, 134
 Pagnucco, K. S. 55
 Pagou, K. 82, 89, 104
 Pahlow, M. 131, 132
 Paine, J. 106
 Painter, S. C. 65, 114
 Pairaud, I. 48, 127
 Pajunen, V. 98
 Pajusalo, L. 50
 Palacin-Lizarbe, C. 111
 Palacio, A. 106
 Palermo, E. A. 104
 Palesse, S. 121
 Palinkas, C. 71
 Palma, A. 65, 113
 Palmer, M. R. 137
 Palmqvist, A. 50, 121
 Palomino-Torres, R. L. 94, 122
 Palovaara, J. 46
 Palumbo, A. 95
 Panayotidis, P. 82, 104
 Pan, E. 88, 128
 Pander, J. 127
 Pandolfi, J. M. 81
 Pang, D. 62
 Panitz, H. 75
 Panizzo, V. 87
 Panizzo, V. N. 87
 Pankratova, N. 123
 Panneer Selvam, B. 57, 72
 Panosso, R. 74
 Pansch, A. 113
 Pansch, C. 50
 Pantel, J. 105
 Pantoja, S. 96, 116, 124
 Panton, A. 66, 84
 Papadopoulou, ? . 82
 Papageorgiou, N. 121
 Papageorgiou, N. 73, 82, 113, 121
 Papakyriakou, T. 84
 Papale, M. 83
 Papanikolopoulou, L. 105
 Papantoniou, G. 47
 Papaspyrou, S. 84, 90, 98, 114
 Papastergiadou, E. 126
 Papathanasopoulou, E. 46
 Papatheochari, T. 82
 Parada, A. E. 97
 Parada, C. 97
 Paradis, S. 99
 Parent, J. Y. 90
 Parinos, C. 53, 110
 Paris, C. B. 50
 Parker, A. 120, 127
 Parker, A. E. 120
 Park, K. 110
 Park, M. G. 108
 Parlanti, E. 57
 Parot, J. 57
 Parra, G. 116
 Parra, H. 118, 133
 Parrish, C. C. 131
 PARRO, V. 114
 Parsek, M. R. 108, 112
 Parsons, R. 71, 88
 Parsons, R. J. 71
- Pascal, R. 138
 Pascault, N. 47
 Pasche, N. 64
 Pascoal, C. 126
 Pascual, J. 101
 Pasqual, A. 110
 Passafiume, O. 65
 Passow, U. 88
 Pastor, J. 87, 136
 Pastres, R. 81
 Pastukhov, M. V. 87
 Paszkiewicz, K. H. 111
 Paterne, M. 84
 Paterson, A. M. 102
 Paterson, M. 121, 134
 Paterson, M. J. 134
 Patrício, J. 82
 Patti, F. P. 98
 Patton, S. R. 100
 Patwa, A. 86
 Paul, A. J. 61
 Paula, J. R. 61, 92
 Paul, C. 50
 Paul, J. H. 117
 Paulmier, A. 133
 Paul-Pont, I. 121
 Paulsen, M. L. 73
 Pauly, D. 85
 Pauslen, I. 98
 Pavia, H. 130
 Pavlidou, A. 82, 104
 Pavloudi, C. 68
 Paxton, A. B. 70, 134
 Payet, J. P. 136
 Payne, C. M. 96
 Paytan, A. 64, 65, 73, 76, 97, 106
 Pazdro, K. 95, 101
 Pazó, M. J. 65
 Pazos, Y. 122
 Paz-Yepes, J. 48, 110
 Pdilla, D. K. 55
 Peacock, E. E. 66
 Pearce, D. 83
 Pearlman, J. 138
 Pearson, A. 87
 Pearson, E. J. 109
 Pech, E. 137
 Péchéyran, C. 91
 Peck, L. S. 73
 Pedersen, M. F. 50, 82, 95, 112
 Pedersen, S. A. 89
 Pedros-Alio, C. 51
 Pedrós-Alió, C. 89
 Pedrosa Pàmies, R. 53
 Pedrotti, M. 65
 Peduzzi, P. 52, 106, 128
 Peeken, I. 111
 Pegliasco, C. 136
 Peierls, B. L. 126
 Peiro, R. 135
 Pei, S. 51
 Pelejero, C. 46, 47, 73, 97
 Peliz, A. 110, 136
 Peliz, Á. J. 134
 Pelletier, E. 110
 Peltzer, E. 92
 Peltzer, E. T. 92
 Pena, L. 97, 106
 Peñas, F. J. 77, 80, 127
 Pena, V. 118
 Pendleton, L. 67
 Peng, X. 118
 Penk, M. 55
 Pennington, T. A. 122
 Penn, J. 131
 Penske, A. 113

- Peoples, L. 100
 Peperzak, L. 90
 Pepin, P. 80
 Peralta, G. 129, 130
 Peralta-Maraver, I. 101
 Percuoco, V. P. 49
 Pereira, J. 86
 Pereira Contrreira, L. 125
 Pereira da Silva, K. D. 126
 Pereira, L. S. 93
 Pereira, R. W. 46
 Perera-Bel, J. 111
 Perez-Alegria, L. R. 77
 Perez-Bilbao, A. 69
 Perez, F. 110, 122
 Perez, F. F. 122
 Pérez, F. F. 88, 118
 Perez, J. E. 71
 Pérez, L. 137
 Perez-Leon, E. 88
 Pérez-Lloréns, J. L. 95
 Perez-Lorenzo, M. 136
 Pérez-Lorenzo, M. 119
 Pérez, M. 137
 Perez-Martinez, C. 86
 Pérez-Martínez, C. 95
 Pérez-Martínez, C. 58, 89, 98, 109, 126
 Pérez-Matus, A. 82
 Perez, M. L. 49
 Pérez, N. 73
 Perez, P. J. 61
 Perez, S. 54
 Perez, T. 52
 Pergantis, S. 117
 Peri, F. 137
 Perkins, D. M. 64
 Perna, G. 92, 133
 Pernice, M. C. 86, 111
 Pernthalter, J. 57, 88, 95
 Perrière, F. 117, 131
 Perroud, M. 49, 75
 Perry, D. C. 44
 Perryman, W. 101
 Perry, M. J. 105
 Persson, P. 76
 Perujo, N. 79
 Pesant, S. 108
 Pesce, S. 54, 126
 Pesole, G. 103
 Pespeni, M. H. 88
 Petchey, O. L. 60
 Peter, H. 68, 83
 Peter, S. 75, 106
 Peters, A. J. 72
 Peters, B. D. 131
 Petersen, W. 137, 138
 Peters, F. 72
 Peters, F. 45, 58
 Peters, J. 47, 73
 Peterson, L. 120
 Peterson, R. N. 120
 Peterson, T. 90, 108
 Pethybridge, H. 131
 Petihakis, G. 107
 Petit, C. 115
 Petrenko, A. A. 91
 Petrou, A. 107
 Petroutsos, D. 112
 Petrovic, M. 54, 55
 Pett-Ridge, J. 86, 88, 128
 Peura, S. 111
 Pfister, C. A. 113
 Philippa, I. 73
 Philippart, C. J. 65
 Phillips, G. 116
 Phillips, R. 114
- Phillips, S. 121
 Phoenix, V. R. 88, 109
 Phrommavanh, V. 122
 Piccinetti, C. 102
 Piccolroaz, S. 49
 Picheral, M. 54, 103, 108
 Pichereau, V. 48
 Pichler, T. 84
 Picot, M. 113
 Pidgeon, E. J. 137
 Piehl, S. 135
 Piera, J. 48, 74, 94, 102
 Pierce, J. 107
 Pierce, M. L. 88
 Pierson, D. C. 62, 78, 104
 Pierson, J. 44, 45, 117, 131
 Pierson, J. 45, 117, 131
 Pignet, P. 122
 Pilla, R. 57
 Pillet, L. 45
 Pillich, J. 54
 Pimentel, M. 61
 Piña, B. 81
 Pinazo, C. 127
 Pinceel, T. 89
 Pinckney, J. 132
 Pineda, A. 124
 Piñeiro, R. 72
 Pinhassi, J. 46, 47, 51, 97, 98, 110
 Pinho, L. 80
 Pinsky, M. L. 81
 Piraino, S. 85
 Piredda, R. 103
 Piroddi, C. 67, 82
 Pislegina, E. V. 87, 89
 Pitta, E. 110
 Pitta, P. 117, 121
 Pitta, P. 51, 53, 68, 73, 110, 113, 121
 Pitt, J. 116
 Pitt, K. A. 48
 Pitz, K. J. 103
 Pizarro, O. 137
 Plaisance, L. 68
 Planquette, H. 124, 125
 Planquette, H. F. 124
 Pla-Rabes, S. 59, 109
 Pla-Rabés, S. 111
 Pla-Rabès, S. 108
 Plass-Johnson, J. G. 74
 Platt, T. 77
 Plaza, F. 122
 Plough, H. 91
 Plough, L. 44
 Plourde, S. 45
 Ploux, O. 47
 Plummer, A. 44
 Poblador, S. 63
 Podar, M. 88
 Podbielski, I. 80
 Poehle, S. 115
 Poeschke, F. 117
 Poggiale, J. C. 46
 Pohllabeln, A. M. 83
 Pohnert, G. 45, 51, 111, 114, 131
 Poirier, D. 64
 Poisson-Caillault, E. 66
 Polanska, M. 73
 Polerecky, L. 51, 74
 Polimene, L. 46
 Polit, E. 62
 Pollard, A. I. 60
 Pollina, T. 88, 103
 Pöllumäe, A. 50
 Polsenaeere, P. 81
 Polymenakou, P. 137
 Polyviou, D. 74
- Polz, M. F. 108
 Pomales, L. O. 124
 Pomati, F. 60, 97, 115, 123
 Pommier, T. 52
 Pondaven, P. 56
 Pondella, D. J. 134
 Ponsati, L. 54, 55
 Pons, I. 115
 Popendorf, K. J. 60
 Popova, E. 81
 Popovich, Y. 91
 Popp, B. B. 52
 Popp, B. N. 52, 53
 Pop Ristov, A. 110
 Poret-Peterson, A. 90
 Pörtner, H. O. 61
 Porzio, L. 130
 Posch, T. 88, 95
 Post, A. F. 51, 136
 Poste, A. E. 87
 Potes, M. 106
 Potier, N. 122
 Pouch, A. 95
 Poulaïn, J. 110
 Poulos, B. T. 110
 Poulsom-Elestad, K. 76, 112
 Poulsom-Elestad, K. L. 112
 Poultton, A. 68, 81
 Poultton, N. 90, 100, 102
 Poultton, N. J. 90, 100
 Poultton, S. 84, 107
 Poultton, S. W. 84
 Pound, H. L. 135
 Povero, P. 100, 138
 Powers, S. M. 91
 Powers, S. P. 110
 Poxleitner, M. 58
 Poynton, H. 71
 Pozo Buil, M. 45
 Pozzato, L. 49, 113, 122
 Prada, F. 133
 Prada-Pedreros, S. 77
 Pradeep Ram, A. S. 121
 Prado, E. 123
 Prado, P. 79
 Prairie, J. C. 91
 Prairie, Y. 59, 66, 91, 113
 Prairie, Y. T. 59, 66, 113
 Prangishvili, D. 135
 Prasıl, O. 109
 Prášil, O. 110, 124
 Prat, N. 67, 94
 Prat, T. 49
 Pree, B. 107, 117
 Prego, R. 109
 Preheim, S. P. 108
 Preiler, C. 105
 Premke, K. 93, 126
 Présing, M. 134
 Preskienis, V. 92
 Prestes, A. C. 72
 Preza, E. 122
 Price, I. 102
 Price, L. 57, 119
 Price, L. M. 119
 Price, N. 106, 133
 Prien, R. D. 138
 Prieto, A. 107, 108, 109
 Prieto, L. 131
 Prihoda, J. 112
 Primeau, F. W. 133
 Prinz, H. 138
 Prioretti, L. 109
 Priscu, J. C. 130
 Pritzkow, W. 123
 Probandt, D. 90
- Probert, I. 102
 Procaccini, G. 133
 Proia, L. 52
 Prosser, H. 64
 Prouty, N. G. 114
 Pruski, A. 113
 Pruvost, E. 119
 Psarra, S. 59, 110, 113
 Ptacník, R. 67, 105, 108, 137
 Puente, A. 67, 129, 137
 Pueyo, J. J. 109
 Puiaç, S. 50
 Puigcorbé, V. 54
 Puig, P. 99
 Pulido, C. 111
 Pulina, S. 50
 Purdie, D. 66, 68, 84
 Purdie, D. A. 66, 84
 Purdy, K. J. 68
 Purser, A. 69, 70
 Pusch, M. 55
 Putthayakool, J. 94
 Putzeys, S. 110
 Pye, M. C. 64

Q

- Qiu, R. 90
 Quack, B. 78
 Queimaliños, C. P. 60, 101
 Queimaliños Perez, D. 65
 Queiros, A. M. 68
 Queirós, A. M. 46
 Querol, X. 72
 Querol, X. 58
 Quesada, A. 47, 83, 135
 Questel, J. M. 51
 Questel, J. M. 80
 Quiñones, E. 116
 Quiñones-Rivera, Z. J. 66
 Quintana, C. O. 68, 69
 Quintana, X. D. 56, 105
 Quiroga, M. V. 95
 Quiros, L. 97
 Quisobony, D. 77
 Qureshi, S. A. 100

R

- Raab, D. 55
 Raad, P. 89
 Raasholm, M. 86
 Rabkin, D. 70
 Rabouille, C. 48, 49, 113, 114, 122
 Rabouille, S. 60, 119, 124
 Raddatz, S. 48, 113
 Rad-Menéndez, C. 118
 Radu, D. D. 75
 Radziejewska, T. 82
 Radzikowski, J. 89
 Raes, E. J. 60
 Raes, J. 108
 Rafter, P. 47
 Raguenau, O. 122
 Rahav, E. 57
 Rahmann, S. 102
 Rahman Shaik, A. U. 65
 Rahn, K. 130
 Raimonet, M. 122
 Raimundo, J. 133
 Rajasakaren, S. 111
 Rajic, S. 132
 Ralston, D. K. 66, 127
 Ramajo, L. 88
 Ramamurthy, S. H. 46
 Ramesh, K. 73

- Ramette, A. 69, 133
 Ramey, E. 138
 Ramírez, F. 77
 Ramirez-Romero, E. 119
 Ramírez-Romero, E. 50
 Ramón, C. L. 72, 80
 Ramon-Marquez, T. 138
 Ramos, A. G. 78
 Ramos, A. N. 44
 Ramos, M. D. 114
 Ramos-Rodriguez, E. 116
 Ramos-Rodriguez, E. 95
 Ramos-Roman, M. J. 109, 119
 Rampen, S. W. 85
 Rangel, L. M. 72, 74
 Range, P. 118
 Rankinen, K. 78
 Ransome, E. 68
 Ranson, H. J. 76, 112
 Rantakari, M. 52
 Rapin, A. 64
 Raposeiro, P. M. 75, 109
 Rappaport, A. 51
 Rappe, M. S. 114
 Rasilo, T. 53
 Rasmussen, E. K. 99
 Rasmussen, U. 74
 Rassmann, J. 49
 Rastrojo, A. 135
 Ratray, J. E. 53
 Ravaioli, M. 78, 88
 Raventós, J. 85
 Raya, V. 85
 Raybaud, V. 82
 Ray, G. C. 51
 Ray, J. L. 86
 Raymond, C. 69
 Raymond, J. 90
 Raymond, P. 63, 77, 96, 105
 Raymond, P. A. 77, 96, 105
 Read, A. 71
 Reader, H. E. 49
 Read, J. S. 49, 54, 62, 105
 Re Araujo , A. D. 81
 Rearick, D. C. 134
 Reavie, E. D. 109
 Rebling, T. 84
 Rebollo Vieyra, M. 73
 Reche, I. 72, 78, 80, 95, 96, 122, 123
 Reckhardt, A. 64
 Record, N. R. 101
 Redd, L. 44
 Redondo, Á. 78
 Redondo-Hasselerharm, P. 94, 124
 Redondo-Hasselerharm, P. E. 94
 Reeve, M. 46
 Regan, F. 54, 138
 Rehder, G. 50
 Reid, P. C. 127
 Reigstad, M. 103
 Reimer, P. J. 63
 Reimers, C. E. 106
 Reinthalter, T. 76, 116, 136
 Reitzel, K. 59, 129
 Reizopoulou, S. 82
 Relvas, P. 110
 Rembauville, M. 78
 Rember, R. 58
 Remy, C. 112
 Remy, F. 130
 Renaud, P. 58, 116, 133
 Renberg, I. 59
 Rendal-Freire, S. 82
 Rendón-Martos, M. 123
 Reñé, A. 107, 120
 Renforth, P. 88
 Rengefors, K. 102, 103
 Rengstorf, A. 69
 Reniers, A. J. 50
 Rennie, M. 86, 121
 Rennie, M. D. 121
 Rensen, E. 135
 Ré, P. 136
 Repeta, D. 83
 Repolho, T. 61, 92
 Rerolle, V. 137
 Resende, J. C. 102
 Resing, J. A. 115
 Resplandy, L. 88
 Retelletti Brogi, S. 83
 Retelletti Brogi, S. 72
 Reul, A. 65, 122
 Reusch, T. 88, 89
 Reusch, T. B. 88, 89
 Reutervik, K. 62
 Reverey, F. 91
 Revilla, M. 117
 Revsbech, N. P. 114, 133, 138
 Reyes Merlo, M. A. 78, 130
 Reyes-Santos, M. 99
 Reynaud, S. 62
 Rezvani, M. 48
 Rhazi, L. 92
 Rheuban, J. E. 44
 Ribalet, F. 66, 103, 108
 Ribeiro Guevara, S. 60
 Ribera d'Alcalà, M. 82
 Ribera d'Alcalà, M. 45, 67
 Ribes, M. 46
 Ribolzi, O. 52
 Ribot, M. 75, 79, 86, 111
 Ricart, a. m. 137
 Ricautre, M. L. 71
 Ricciardi, A. 55, 100
 Ricciardi, T. 55
 Rice, J. A. 44
 Ricvuto, E. 92
 Richards, L. J. 127
 Richardson, C. N. 77
 Richardson, D. 76
 Richardson, K. 85
 Richardson, L. L. 120
 Richardson, W. B. 56
 Richert, I. 116
 Richier, S. 119
 Rich, J. J. 68
 Richoux, N. 62, 86
 Richoux, N. B. 86
 Richter, C. 133
 Richter, M. 88, 97
 Riddick, C. A. 134
 Ridge, J. T. 70
 Ridgwell, A. 81
 Riebesell, U. 61, 84, 88
 Riebesell, U. R. 61
 Rieck, A. 108
 Riedel, J. 59
 Riedel, T. 51, 83, 84, 105, 106
 Riemann, B. 129
 Riemann, L. 51
 Riera, J. L. 63
 Riesselman, C. 45
 Rietzler, A. C. 98
 Righetti, D. 81
 Rigosi, A. 127
 Riise, G. 105
 Rijkeboer, M. 65, 66
 Rijkenberg, M. 84, 124
 Rilov, G. 48, 107, 113
 Rinchard, J. 87
 Rincón Hidalgo, M. M. 67
 Rios, A. 110, 128
 Rios, A. F. 128
 Rios, A. F. 88, 118
 Rioual, P. 108
 Rippey, B. 127
 Riquelme, P. 96
 Risgaard-Petersen, N. 51
 Rissanen, A. 78, 112
 Rissolo, D. 54
 Rivaro, P. 72
 Rivera, F. 124
 Rivera-Rondón, C. A. 77, 108
 Rivera, S. 46
 Rivera Utrilla, J. 123, 138
 Rivera Vazquez, Y. 71
 Riveros-Iregui, D. 52
 Rivkin, R. 107
 Rixen, T. 53
 Rix, L. N. 63
 Robbens, J. 99
 Rober, A. R. 75, 98
 Robert, S. 81
 Roberts, B. J. 120
 Roberts, D. C. 62
 Roberts, J. M. 46, 70
 Roberts, M. 46
 Robertson, C. 98, 114, 122
 Robertson, C. M. 114, 122
 Robertson, C. Y. 98
 Robertson Lain, L. 134
 Roberts, Q. N. 107
 Roberts, S. 87
 Roberts-Sano, B. 68
 Robidart, J. C. 123
 Robinson, C. 46, 54, 84, 127
 Robinson, C. T. 54, 127
 Robinson, R. S. 106
 Robinson, W. E. 71
 Robson, B. J. 48
 Robson, S. V. 131
 Roca, G. 82
 Roca-Martí, M. 54
 Rocap, G. 131, 136
 Rocha, M. I. 72
 Rocha, S. 60
 Rochelle-Newall, E. 52
 Rochera, C. 83
 Rocher, G. 53
 Rocher-Ros, G. M. 64
 Rockall, M. 70
 Rodellas, V. 64
 Rode, W. 53, 92
 Rodgers, C. 86, 121
 Rodil, I. F. 130
 Rodrigo-Gamiz, M. 97
 Rodrigo-Gámez, M. 85, 97
 Rodriguez, L. C. 124
 Rodriguez, A. E. 124
 Rodríguez-Castillo, T. 77, 80, 127
 Rodriguez-Ezpeleta, N. 80
 Rodríguez, F. 95
 Rodriguez-Garcia, J. A. 119
 Rodriguez-Garcia, L. 51
 Rodríguez-Graña, L. 59, 73
 Rodríguez-Graña, L. M. 59
 Rodriguez-Hernandez, F. 103
 Rodriguez, J. 94
 Rodríguez, J. 122
 Rodriguez, L. M. 118
 Rodriguez, M. 91, 92, 106
 Rodriguez-Mozaz, S. 55
 Rodriguez, P. 70
 Rodríguez, P. 107
 Rodríguez Ramos, J. C. 118
 Rodríguez-Romero, A. 89
 Rodríguez-Tovar , F. J. 85
 Rodríguez-Tovar, F. J. 85, 97
 Rodriguez, V. 94
 Rodriguez, V. 122
 Rodriguez-Valera, F. F. 88
 Roesler, C. 100
 Rogelja, M. 82, 134
 Rogers, A. D. 64
 Roggatz, C. C. 73, 88
 Rogora, M. 96
 Rohwer, F. 68, 128
 Rojo, C. 89
 Roland, F. 63
 Romac, S. 102, 103, 108
 Roman, C. 123
 Román-Geada, M. 82
 Romani, A. M. 75
 Romani, A. M. 75, 79, 126
 Roman, M. R. 45, 101
 Romano , G. 95
 Romera-Castillo, C. 80
 Romero, E. 128
 Romero-Gonzalez, M. E. 74
 Romero, j. 82
 Romero, J. 137
 Romero-Kutzner, V. 114
 Romero-Martinez, L. 90
 Romero-Niembro, V. M. 99
 Romero, O. E. 85, 106
 Romero Vargas Márquez, I. 73
 Romo, S. 56
 Roncák, P. 67
 Rosa, B. 124
 Rosado-Rodríguez, G. 71
 Rosa, I. C. 92
 Rosalsky, J. 100, 128
 Rosa, R. 61, 92
 Rose, K. 62
 Rose, N. 109
 Rosén, P. 57
 Rosenwasser, S. 112
 Rose, S. 68
 Roson, G. 88
 Rosón, G. 136
 Ross, D. J. 81
 Rosselló-Móra, R. 122
 Rossel, P. E. 83, 84
 Rossi, F. 137
 Rossignol, K. L. 126
 Ross, K. A. 64
 Ross, O. N. 60, 127
 Ross, S. 114
 Rost, B. 109, 126
 Rotchell, J. M. 73
 Rothäusler E. 50, 80
 Rothenberger, M. B. 124
 Rothaupt, K. O. 56, 80
 Roth-Rosenberg, D. 45
 Rotjan, R. 71
 Röttgers, R. 66, 138
 Rouault, P. 112
 Roubira, P. 87
 Rouco-Molina, M. 102
 Rousseau, V. 90
 Routh, D. 63
 Roux, S. 103, 108
 Rovelli, L. 63, 106
 Rowell, K. 100
 Rowlett, J. M. 103
 Roy Chowdhury, P. 136
 Royo-Llonch, M. 110
 Rozaimi, M. 137
 Rubin-Blum, M. 91
 Rubio, E. 75
 Rubio-Inglés, M. J. 59, 109
 Rubio, J. J. 79
 Rücker, J. 47, 112, 121

- Rudnick, D. T. 88
 Rueda, F. J. 48, 72, 104
 Rueda, J. 74
 Ruffine, L. 113, 122
 Rugema , E. 96
 Rugiu, L. 50
 Rubí, A. 55, 105
 Rühland, K. M. 109
 Ruiz Albizuri, R. 77
 Ruiz Gonzalez, C. 128
 Ruiz-Jiménez, C. 111
 Ruiz, P. 138
 Ruiz Segura, J. 67
 Ruiz-Villarreal, M. 110
 Rull, V. 73
 Rummel, C. 134
 Rumyantseva, A. 70, 114
 Rumyantseva, A. S. 114
 Runge, J. 61
 Ruocco, M. 133
 Rusak, J. A. 62, 102
 Rusanovskaya, O. O. 87
 Russell, B. 65
 Russell, J. M. 59
 Russo, E. 117
 Rutgers van der Loeff, M. 54, 115
 Ryabov, A. 114
 Ryan-Keogh, T. J. 119
 Rydberg, S. 74
 Ryder, E. 62
 Rydin, E. 129
 Ryneerson, T. A. 101, 109
 Rysgaard, S. 106
- S**
- Saad, J. 70, 137
 Saad, J. F. 137
 Saarenheimo, J. 52
 Saar, K. 59
 Sabart, M. 47
 Sabater, F. 63, 75, 79, 86
 Sabater, N. 119
 Sabater, S. 52, 54, 55, 57, 75, 86
 Sabaté, S. 63
 Sabatés, A. 85
 Saba, V. 85
 Sabbe, K. 110
 Sabia, L. 73
 Sabine, C. L. 87
 Sablotny, B. 69
 Sachdeva, R. 51, 120
 Sadat-Noori, M. 64
 Sadeghi-Nassaj, S. M. 95
 Saderne, V. 92
 Sadro, S. 57
 Sa, E. 51, 121
 Sa, E. L. 51
 Sa, E. L. 113
 Saeta, I. 85
 Sáez, A. 109
 Safi, G. 82
 Safont, E. 73
 Sage, J. 90
 Sahlée, E. 106
 Sailley, S. F. 46
 Saint-Beât, B. 82
 Saito, H. 107
 Saitoh, K. 102
 Saito, M. 47, 48, 88
 Saito, M. A. 47, 48, 88
 Saiz, E. 47, 59, 73
 Sakaeva, A. 82
 Sakai-Kimura, S. 123
 Sakai, Y. 101
 Sakamaki, T. 54, 75
 Salaberria, I. 89
 Sala-Faig, M. 111
 Sala, J. 105
 Sala, M. M. 81, 94, 128
 Salaroli, A. B. 124
 Salat, J. 95
 Salazar, G. 103, 108, 110, 111, 113
 Salcher, M. M. 88, 98
 Saleem, K. 135
 Salgado, R. 106
 Salgueiro, E. 136
 Salihoglu, B. 54
 Salinas, M. J. 79
 Salisbury, J. 67
 Salles, S. 58, 110
 Salmaso, N. 47, 74, 108
 Salmeron, C. 51
 Salminen, O. M. 53
 Salomidi, M. 82
 Salo, T. 50, 82
 Salter, I. 53, 78
 Salvadó, H. 101
 Salvarina, I. 80
 Samal, N. R. 55, 78, 104
 Samaniego, S. 89
 Samanipour, S. 137
 Samano, M. L. 49
 Samanta, M. 48
 Samelson, R. M. 45
 Sammartino, S. 110
 Sampedro, N. 107
 Samsuvan, W. 94
 Sanchez, A. 82
 Sánchez, A. 48, 58, 74
 Sánchez, A. M. 48, 74
 Sánchez-Badorrey, E. 54
 Sánchez-Bellón , A. 84
 Sánchez-Carrillo, S. 111
 Sánchez-Castillo, P. M. 126
 Sánchez-Castro, I. 122
 Sánchez-Fernández, D. 54, 112
 Sanchez-Garrido, J. C. 110
 Sánchez Garrido, J. C. 110
 Sánchez, J. 80, 119
 Sanchez-Leal, R. F. 110, 119
 Sánchez-López, G. 59, 109
 Sanchez, M. I. 55
 Sánchez, M. I. 92, 115
 Sanchez, M. L. 70
 Sánchez-Montoya, M. M. 63
 Sánchez, P. 111, 113
 Sánchez-Pérez , D. E. 72
 Sanchez-Perez, E. D. 58
 Sánchez Polo, A. M. 123
 Sánchez Polo, M. 123, 138
 Sánchez Vidal, A. 53
 Sánchez-Viruet, I. C. 123
 Sánchez, Y. 70
 Sandaa, R. 86, 107, 135
 Sandaa, R. A. 107, 135
 Sander, N. 100
 Sander, S. 84, 132
 Sanders, C. J. 64
 Sander, S. G. 84
 Sanders, L. 64
 Sanders, L. M. 64
 Sanderson, M. P. 107
 Sanders, R. 45, 53
 Sanders, R. J. 53
 Sanders, T. 76
 Sandin, L. 56
 Sandnes Skhaar, K. 46, 86, 97
 Sandulli, R. 45
 Sanges, R. 45
 Sangmanee, K. 94
 Sangrá, P. 122, 136
 Sangrà, P. 136
 Sanleón-Bartolomé, H. 65
 San León, H. 83
 Sano, L. 121
 Santamaría, L. 75, 80
 Santana-Falcón, Y. 136
 Santana-Garcón, J. 127
 Santandreu, M. 95
 Santiago-Vazquez, L. Z. 46
 Santi, I. 73, 113, 121
 Santinelli, C. 72, 83, 96
 Santoro, A. 47
 Santos, A. M. 87
 Santos, A. P. 136
 Santos, C. 77, 127, 131
 Santos, F. 114
 Santos, I. R. 64, 66, 78, 99, 118
 Santos, L. 59, 73
 Santos, M. A. 91
 Santos, P. T. 104
 Santos, R. 131, 133
 Santos, S. J. 123
 Santos, S. R. 80
 Sanudo-Wilhelmy, S. 48
 Sañudo-Wilhelmy, S. A. 51
 Sánchez-Fernández, L. 97
 Sanz-Martín, M. 61
 Sanz Martín, M. 103
 Sanz-Martín, M. 135
 Saout, J. 113
 Sapp, M. 135
 Sarañana-Alonso, A. A. 118
 Sareyka, J. 113
 Sarkodee-Adoo, J. 58
 Sarma, V. V. 52
 Sarmento, H. 90, 103, 110
 Sarno, D. 103
 Saros, J. E. 59, 96
 Sarthou, G. 48, 58, 124, 125
 Sartoris, F. J. 61, 129
 Sasai, Y. 114
 Sasaki, O. 50
 Sasaki, S. T. 124
 Sasaki, T. 69
 Sasaki, Y. 107
 Sasa, M. 89
 Sastre, M. 119, 124
 Sastre, M. P. 119
 Sastri, A. R. 121
 Sathyendranath, S. 77
 Satoh, Y. 124
 Sato, K. 62, 101
 Sato, M. 83
 Sato, N. 102
 Sattin, S. R. 87
 Saulnier, G. 117
 Saunders, B. 127
 Saunders, M. J. 81
 Saunier, A. 61
 Savage, C. 134
 Savidge, W. B. 98
 Sawada, K. 102
 Sawicka, J. E. 53
 Saw, J. 116
 Saw, K. 137, 138
 Saw, K. A. 137
 Scanlan, D. J. 88
 Schade, J. D. 66, 77
 Schaller, M. F. 106
 Schalles, J. 137
 Scharek, R. 48, 53, 114
 Scharf, B. W. 109
 Scharfe, M. 103
 Scharnreitner, L. 113
 Scharnweber, K. 112
 Schatz, D. 135
 Schatz, M. 108
 Schauer, R. 51
 Scheller, J. 54, 60, 66
 Schellenbach, A. 99
 Schenone, S. 61
 Scherber, C. 128
 Scheurer, T. 127
 Schiaffino, M. R. 98, 137
 Schiaffino, R. 90
 Schiebel, H. N. 70, 137
 Schiebel, R. 53
 Schieber, B. M. 120
 Schiff, K. 101
 Schiff, S. L. 53
 Schilder, J. C. 108
 Schindler, D. E. 127
 Schizas, N. 71, 101
 Schizas, N. V. 101
 Schlabinig, D. 49
 Schladow, G. 57
 Schladow, S. G. 62, 104
 Schleper, C. 52
 Schloesser, D. W. 55
 Schlosser, C. 118, 124, 131
 Schloss, I. 51, 114
 Schloss, I. R. 51
 Schlüter, L. 88
 Schmidheiny, H. 57
 Schmid, J. 135
 Schmid, M. 64
 Schmidt, A. 89
 Schmidt, G. M. 133
 Schmidt, R. 134
 Schmiediche, R. 134
 Schmiedling, I. 134
 Schmitt-Kopplin, P. 57, 83, 96, 106, 122
 Schmittner, A. 131
 Schmitz-Streit, R. 132
 Schneider, B. 50
 Schneider, P. 105, 138
 Schnetger, B. 64
 Schnitzer, J. 94, 110
 Schnute, J. T. 127
 Schofield, O. M. 58, 121
 Scholin, C. A. 66
 Scholz-Böttcher, B. M. 121
 Schoo, K. L. 132
 Schoon, P. L. 50
 Schouten, S. 85
 Schrank, I. 121
 Schreiber, M. E. 104
 Schröder, C. 82
 Schroeder, D. 110, 111, 134
 Schroeder, D. C. 110
 Schroeder, D. M. 134
 Schroeder, J. 110, 111
 Schroeder, J. L. 111
 Schroeder, T. 89
 Schroth, A. 49, 59
 Schroth, A. W. 59
 Schubert, C. J. 92, 100
 Schuech, R. 91, 99
 Schultes, S. 117
 Schultz, M. 96
 Schultz, S. 61
 Schulz-Bull, D. E. 138
 Schulz, K. G. 61
 Schunk, H. 132
 Schuster, U. 84
 Schütte, F. 131
 Schutting, S. 123
 Schütt, J. 85
 Schuurmans, J. M. 47, 109
 Schvarcz, C. 114
 Schwab, C. 86
 Schwalb, A. 79

- Schwarz, A. 79
 Schwarzenberger, A. 131
 Schwarzkopf, F. 54
 Schwarz, M. H. 44
 Schwarzschild, A. 72
 Schwefel, R. 45
 Schwenk, K. 61
 sciandra, A. 119
 Sciandra, A. 60
 Scott, E. M. 62, 134
 Scotti, M. 56, 86
 Scott, J. 53, 67
 Scott, J. R. 67
 Scott, M. 62, 96, 105
 Scott, M. E. 96, 105
 Scott, R. 56
 Scranton, M. 84, 132
 Scranton, M. I. 84
 Seabra, R. 50, 51
 Searle, R. 70
 Se arson, S. 108
 Sebastian, M. 51
 Sebastián, M. 111
 Šedivá, B. 124
 Sedwick, P. 48, 57, 58, 72, 115
 Sedwick, P. N. 48, 58, 72, 115
 Seegmiller, L. 63
 Seelen, L. 64
 Seewald, J. S. 83
 Seeyave, S. 70
 Sefbom, J. 80
 Segarra, J. G. 85
 Segovia, B. T. 90, 101
 Segóvia, B. T. 98
 Segovia, M. 65, 77, 113, 121
 Segovia-Zavalá, J. A. 114
 Seidel, G. 109
 Seidman, D. N. 101
 Seitaj, D. 69
 Seitz, R. D. 61
 Sejí, M. 61, 88
 Seki, O. 109
 Selander, E. 130
 Selck, H. 121
 Sellner, K. G. 67
 Selmezy, G. B. 113
 Selph, K. E. 59
 Semeniuk, D. M. 48
 Sendra, M. 94
 Senerpont Domis, L. N. 47
 Sengtaheuanghong, O. 52
 Seoane, S. 124
 Seppälä, J. 65
 Sepulveda-Jauregui, A. 91, 92
 Serca, D. 53, 92
 Serra, M. 89
 Serra, M. 89
 Serranito, B. 82
 Serrano, E. 73
 Serrano, M. A. 122, 129
 Serrano, O. 137
 Serrano-Zayas, C. 71
 Serret, P. 46, 76, 136
 Setälä, O. 56
 Seuront, L. 90
 Severin, I. 51
 Sexton, A. 68
 Seyler, L. M. 52
 Seymour, J. R. 76
 Sgro, G. V. 109
 Shabrova, T. 88
 Shachar, N. 49
 Shade, A. 89
 Shadrina, A. 130
 Shadrina, A. A. 130
 Shaked, Y. 48
 Shalapyonok, A. 123
 Shalchian-Tabrizi, K. 94, 102, 103
 Shama, L. N. 89
 Shamberger, K. F. 92
 Shams, S. 47, 74
 Shanahan, T. M. 109
 Shanks, A. L. 50
 Shapiro, B. J. 47
 Shapiro, J. 67
 Sharma, S. 46, 78, 105
 Sharma, S. R. 46
 Sharp, J. H. 81
 Sharra, A. M. 116
 Shatova, O. 70
 Shatwell, T. 127
 Shawit, U. 91
 Shaw Chribai, V. L. 109
 Shchapov, K. 87, 89
 Shchapov, K. S. 87
 Sheehan, A. 68
 Sheehan, K. 55
 Shelley, F. 52, 68
 Shelley, F. C. 68
 Shelley, R. 58, 124, 125
 Shelley, R. U. 58
 Shema, S. 61
 Shemesh, A. 97
 Shemesh, E. 91
 Shen, D. 68
 Shen, J. 78
 Shepard, M. 130
 Sher, D. 45
 Sherman, B. 92
 Sherrell, R. M. 124
 Shibata, J. 101
 Shimaraeva, S. V. 87
 Shimaraev, M. N. 130
 Shimizu, M. 68
 Shiozaki, T. 120, 131
 Shi, Y. 82
 Shi, Z. 58
 Shoemaker, K. M. 68
 Short, C. M. 135
 Short, S. M. 135
 Shou, L. 117
 Shulepina, S. P. 55
 Shull, D. H. 101
 Shumskai, N. 96, 117
 Shumskaya, N. K. 130
 Sibley, P. K. 105
 Sichlau, M. H. 45
 Sieczko, A. 52, 106, 128
 Sieczko, A. K. 52
 Siedlecki, S. 45, 136
 Siedlecki, S. A. 136
 Siegert, F. 135
 Sieracki, M. E. 102, 111
 Sieradzki, E. 120
 Sierra, M. 77
 Sierra-Ruiz, B. 54
 Siervo, F. J. 84
 Sievert, S. 83, 101
 Sievert, S. M. 83
 Sigman, D. M. 47
 Sigró, J. 59
 Sigró, X. 73
 Silbiger, N. J. 46
 Sildever, S. 80
 Silió, A. 77, 127
 Silió-Calzada, A. 80
 Siljanen, H. 111
 Silow, E. A. 87
 Silse, G. 65
 Silva, A. 87
 Silva-Aratijo, M. 63
 Silva, C. 118
 Silva, J. 133
 Silva-Junior, E. 63
 Silva-Junior, E. F. 132
 Silva, L. H. 74
 Silva, T. 120
 Silverman, J. 48, 107
 Simboura, N. 82, 104
 Šimek, K. 88
 Sime-Ngando, T. 98, 118, 121
 Simeunović, J. 47
 Simis, S. 65, 134, 137
 Simis, S. G. 134, 137
 Simoes, N. R. 101
 Simon, C. 94, 102
 Simoncelli, S. 73
 Simonelli, P. 86, 117
 Simon, H. 76
 Simon, K. S. 96
 Simon, M. 128
 Simonova, N. N. 121
 Simons, R. 59, 134
 Simons, R. D. 59
 Simo, R. 45
 Simó, R. 81
 Simó, Rafel, R. S. 103
 Simpson, G. L. 59, 104
 Sinclair, L. 111
 Singer, G. 54, 66, 68, 71, 72, 126, 128
 Singer, G. A. 54, 66, 71, 72, 128
 Sinninge Damsté, J. S. 84
 Sinninge Damsté, J. S. 85, 111
 Sintes, E. 51, 52, 68, 76, 118
 Siokou, I. 107
 Sipler, R. E. 107, 132
 Sippo, J. Z. 118
 Sirianni, K. M. 89
 Sirois, A. 66
 Siuda, A. N. 44
 Sivan, O. 53, 78
 Sivyer, D. 66
 Sjöqvist, C. 68
 Sjöstedt, J. 98
 Skaar, K. S. 86
 Skipp, P. J. 74
 Skla, F. 88
 Skorospekhova, T. 96, 117, 130
 Skorospekhova, T. V. 130
 Skrzypacz, A. 82
 Skylberg, U. 60
 Slavik, G. J. 137, 138
 Slesinger, E. T. 85
 Slikas, B. 110, 135
 Slim, K. 47
 Slomp, C. P. 50
 Slusarczyk, M. 89
 Smayda, T. 85
 Smeti, E. 105
 Smith, D. 46, 54, 91, 134
 Smith, D. J. 46, 91
 Smith, D. M. 134
 Smith, G. 130
 Smith, H. 77
 Smith, J. 106, 128, 133
 Smith, J. E. 128
 Smith, J. N. 133
 Smith, P. A. 96
 Smith, P. 49, 65
 Smith, S. L. 114
 Smith, T. 106
 Smith, V. H. 126
 Smith, W. O. 78
 Smolders, S. 129
 Smol, J. P. 109
 Smoot, C. A. 76
 Smyth, R. A. 64, 65
 Smyth, R. 62
 Smyth, T. J. 65, 128
 Snellgrove, P. V. 80
 Snoeijns Leijonmalm, P. 128
 Snoeks, J. 126
 Snow, J. T. 74, 131
 Soares, M. C. 74
 Sobek, S. 63, 64, 105, 106
 Sobota, D. J. 126
 Sobrino, C. 65, 80, 81, 94, 109, 119
 Socolofsky, S. 48, 104
 Socolofsky, S. A. 104
 Soerensen, M. 135
 Soetaert, K. 69
 Sohst, B. 57, 72, 115
 Sohst, B. M. 72, 115
 Soininen, J. 98, 101
 Soininen, J. H. 101
 Soissons, L. M. 82
 Sokol, E. 82
 Sokratis, P. 98
 Solan, M. 81
 Solau, O. 117
 Solberg, I. 73
 Solé, M. 73
 Solera, L. A. 124
 Soletchnik, P. 81
 Solimano, P. J. 95
 Solomon, C. T. 66, 112
 Solow, A. R. 66, 123
 Soltwedel, T. 53, 69
 Somerfield, P. J. 128
 Somes, C. 131
 Somes, C. J. 131
 Somlai, C. 66
 Sommaruga, R. 83, 103, 128
 Sommerfeld, C. K. 123
 Sommer, S. 51, 131
 Sommer, U. 50, 107, 113, 116
 Sondergaard, M. 129
 Sondergaard, M. 56, 59, 126, 129
 Song, B. 64, 65
 Sonnichsen, F. 44, 137
 Sonnichsen, F. N. 137
 Sonntag, B. 83
 Sookhdeo, C. 57, 72
 Søreide, J. 128
 Søreide, J. E. 129
 Sørensen, K. 138
 Soria-Piriz, S. 98, 114
 Sosa-Montes de Oca, C. 85
 Sosik, H. M. 48, 66, 123
 Soto Cárdenas, C. 60, 101
 Sotomayor, D. 127
 Sotomayor-Ramírez, D. R. 77
 Soto Neira, J. P. 48
 Sottolichio, A. 72
 Soudant, P. 48
 Soudjin, F. H. 127
 Soued, C. 66
 Souissi, S. 45
 Soulignac, F. 49
 Sourisseau, M. 58
 Sousa-Filho, I. F. 104
 Sousoni, D. 60
 Souza, A. F. 74
 Souza, M. S. 132
 Spaak, P. 97, 115
 Spackeen, J. L. 132
 Spanbauer, T. L. 87
 Sparnocchia, S. 88
 Spatharis, S. 95, 105
 Spaulding, S. 82
 Spawn, S. A. 66, 77
 Spears, B. M. 49, 116, 127, 129
 Spencer, R. G. 105

- Sperfeld, E. 132
 Spicer, J. I. 89
 Spijkerman, E. 131
 Spilling, K. 65, 132
 Sponseller, R. 52, 57, 63, 64, 72
 Sponseller, R. A. 52, 57, 63, 64
 Spörl, G. 113
 Sprenger, R. R. 52
 Spungin, D. 45
 Spyros, E. 134
 Spyros, E. 62, 134
 Srivastava, A. 78
 Sswat, M. 61
 Stachowitzsch, M. 82, 100
 Stadniczeñko, S. G. 86
 Stadnitskaia, A. 84, 85
 Staehr, P. A. 84
 Staehr, P. A. 129
 Stahl, D. 131
 Stahl, H. 46, 63, 100, 113
 Stahl, S. E. 114
 Stalker, J. C. 76
 Stal, L. J. 108, 110
 Stamler, K. M. 122
 Stamouli, A. 82
 Stancioff, E. 67
 Staniewski, M. A. 135
 Stanish, L. 82
 Stanisiere, J. Y. 81
 Stanistreet, J. 71
 Stanley, E. H. 54, 62, 112
 Stanley, R. 103
 Starczak, V. R. 92
 Stark, J. 129
 Starovoytov, V. 121
 Starr, G. 88
 Starr, R. M. 91
 Starzynski, J. 89
 Statham, P. J. 49
 Staudinger, C. 91
 Staudinger, C. 133, 137
 Stavrakakis, S. 113
 St. Clair, M. 52
 Stech, J. L. 74
 Stedmon, C. A. 49, 96, 128, 134
 Steen, A. D. 100, 128
 Steffen, M. M. 126
 Steger, J. 82
 Steinbauer, A. T. 57
 Steinberg, D. K. 53, 58
 Steindler, L. 88, 97
 Steinfeldt, R. 88
 Steinle, L. 85
 Steinmetz, F. 66
 Stelmach-Pessi, I. 83, 111
 Stemmann, L. 54, 78, 82, 103, 107
 Stepanauskas, R. 52, 88, 102
 Stepanauskas, R. 101
 Stephens, D. 120
 Stephens, J. 46
 Stern, R. F. 66
 Stets, E. G. 54
 Steury, T. D. 80
 Steven, A. 137
 Stevens, A. 137
 Stevens, B. 67, 71, 122
 Stevens, B. G. 67, 122
 Stevenson, M. A. 109
 Steward, G. F. 114
 Stewart, A. 70
 Stewart, F. 133
 Stewart, G. 58
 Stewart, R. I. 77
 Stewart, R. J. 55
 Stibor, H. 56, 58, 73, 112, 117, 124
 Stief, P. 118, 131
 Stieglitz, T. 69, 76
 Stinton, D. T. 91
 Stippkugel, A. 121
 Stips, A. 67, 110, 127
 Stips, A. K. 127
 St. Louis, V. L. 52
 Stock, A. 111
 Stockdale, A. 58
 Stockenreiter, M. 93, 124
 Stockwell, J. D. 59
 Stoddard, J. L. 54
 Stoeker, D. K. 117, 131
 Stoeck, T. 102, 103, 111, 120
 Stoica, E. 47
 Stoll, H. 84, 106
 Stoll, H. M. 106
 Stomp, M. 108, 110, 132
 Stone, J. P. 53
 Storch, D. 61
 Stordal, F. 130
 Storme, J. Y. 111
 Stow, C. A. 112
 Stoyneva, M. P. 96
 Strahl, J. 133
 Straile, D. 136
 Stramska, M. 85, 97
 Strandberg, U. 75, 86
 Strand, Ø. 86
 Stratmann, T. 69
 Strecker, A. L. 93
 Streitenberger, M. E. 99
 Strickler, J. R. 45, 59, 69, 90
 Striebel, M. 113, 127
 Striegel, R. G. 92
 Strobel, A. 89
 Strobl, M. 123, 137
 Strock, K. E. 59, 73
 Strogyloudi, E. 47
 Strohmeier, T. 86
 Ström, L. 52
 Strong, A. L. 137
 Strub, P. T. 136
 Strzepek, R. 48, 74
 Strzepek, R. F. 74
 Stubbins, A. 83, 84, 98, 105, 128
 Stubbins, A. P. 98
 Stukel, M. R. 58
 Stumpf, R. P. 67
 Sturdvant, S. K. 68
 Sturm, K. 92
 Stut, J. B. 85
 Styf, H. K. 61
 Stygiest, C. 67
 Subida, M. D. 70, 82, 104
 Subramaniam, G. 86
 Sudek, S. 118
 Sugahara, T. 107
 Suggett, D. 46
 Sugihara, G. 112, 127
 Sugisaki, H. 114
 Suikkanen, S. 50
 Sukenik, A. 89
 Suknev, A. Y. 130
 Sullivan, M. B. 103, 113
 Sullivan, T. 54
 Sunagawa, S. 103, 110
 Sun, L. 134
 Surdu, C. 130
 Surdu, C. M. 130
 Sushchik, N. N. 55, 56, 86
 Sutak, R. 48
 Suter, E. 51, 91, 118
 Suter, E. A. 51, 118
 Sutherland, K. 88, 90, 97
 Sutherland, K. R. 88, 90
 Sutthacheep, M. 94
 Suttle, C. A. 72, 122
 Sutton, A. 87
 Sutton, J. N. 99
 Suwa, S. 105
 Suzuki, K. 99
 Suzuki, M. T. 51
 Suzuki, S. 105, 122, 124
 Suzuki, T. 124
 Svenning, J. C. 92
 Svensson, M. 103
 Svircev, Z. 47
 Swaffield, T. 124
 Swalwell, J. 66, 108
 Swann, G. 87, 109
 Swann, G. E. 87, 109
 Swart, K. 60
 Swart, P. K. 76
 Sweetlove, M. 83
 Sweetman, A. 69, 82
 Sweetman, A. K. 82
 Syberg, K. 121
 Silva, S. P. 83
 Synal, H. A. 115
 Syväraanta, J. 52, 112
 Szekely, A. J. 68
 Szeroczyńska, K. 108
- T**
- Tabandera, R. 44
 Tada, Y. 54
 Tadir, C. P. 96, 105
 Taggart, M. 115
 Tagg, A. S. 135
 Tagliabue, A. 115
 Tagliati, A. 89
 Taguchi, S. 96, 124
 Taha, N. 122
 Tahvanainen, P. 50, 137
 Tailandier, V. 107
 Taillefert, M. 114
 Taipale, S. J. 75, 86
 Tait, D. 66, 118
 Tait, D. R. 118
 Tait, K. 68, 92, 100
 Tait, Z. S. 98
 Taji, A. M. 81
 Tajima, N. 102
 Takagi, H. 94, 103
 Takao, M. 86
 Takasu, H. 120
 Takeda, S. 131
 Takee, H. 123
 Takeshita, Y. 106
 Takeyama, T. 101
 Talaber, I. 104
 Talarin, A. 132
 Talec, A. 60, 119
 Talley, D. M. 93
 Talley, T. S. 93
 Talmiy, D. 135
 Tamariz, L. 98
 Tamborski, J. J. 64
 Tambwe, E. 84
 Tamés-Espinosa, M. 114
 Tames, M. 122
 Tamminen, T. 67, 132, 137
 Tanaka, A. 48
 Tang, K. 53, 73
 Tang, K. W. 73
 Tang, T. 87
 Tang, Y. 58
 Taniguchi, D. 60
 Taniguchi, S. 124
 Tanita, I. 105
 Tao, B. 117
- Taranu, Z. 109
 Tara Ocean Consortium 103
 Tarazona, E. 89
 Tarling, G. 46, 53
 Tarling, G. A. 46, 53
 Tarnowski, M. 116
 Tarran, G. A. 68
 Tarrant, A. M. 46
 Tarrats, P. 119
 Tartari, G. A. 96
 Tartarotti, B. 83
 Tas, N. 120
 Tatian, M. 114
 Tauscher, H. 96
 Tavares, M. 69
 Taviani, M. 63
 Tavsanoglu, N. 126
 Tavsanoglu, Ü. N. 126
 Tayaslu, I. 101
 Taylor, A. R. 111
 Taylor, B. B. 66
 Taylor, C. 51, 85, 123
 Taylor, G. 51, 84, 91, 118, 132
 Taylor, G. T. 51, 84, 91, 118
 Taylor, J. 46, 69, 92, 100, 114
 Taylor, J. D. 46, 69
 Taylor, J. R. 92, 114
 Taylor, M. H. 66
 Taylor, P. 46, 100
 Taylor, P. J. 46
 Taylor, S. 44
 Taymans, M. M. 99
 Tchernov, D. 91
 Tchiguirinskaia, I. 49
 Teal, T. K. 89
 Teasdale, P. R. 48
 Tecchio, S. 82
 Tedesco, L. P. 126
 Tedetti, M. 138
 Teferi, M. 126
 Tegetmeyer, H. 133
 Teh, S. J. 91
 Teichberg, M. 61, 74, 137
 Teichberg, M. C. 74
 Teira, E. 65, 76, 103, 107, 108, 109
 Teixeira, I. 65, 76, 109, 136
 Teixeira, I. G. 65, 76, 136
 Teixidó, N. 100
 Tell, Elena, E. T. 103
 Temmerman, S. 129
 Tempora, F. 67
 Tencatt, L. C. 93
 Teodoru, C. 57, 63
 Teodósio, A. 136
 Teodósio, M. A. 118
 Tercier-Waeber, M. L. 123, 138
 Tercier Waeber, M. 123
 terHorst, C. P. 93
 Terlouw, G. 87
 Terpis, K. X. 132
 Terpstra, S. 56
 Terrados, J. 133
 Terschak, J. A. 88
 Teschke, M. 129
 Tessarolo, C. 85
 Tessier, E. 60
 Testor, P. 107
 Teubner, I. 128
 Teufel, A. G. 123
 Teurlincx, S. 114
 Teutli, C. H. 137
 Thabet, A. A. 46
 Thackeray, S. J. 73, 128
 Thalasso, F. 92
 Thamatrakoln, K. 112, 135, 136
 Thamdrup, B. 116, 118, 131, 132

- Thar, R. 123, 137
 Thatje, S. 97
 Thébault, J. 91
 Therriault, T. W. 55, 100
 The TARA ocean consortium 103
 Theuerkauf, E. J. 70
 Thibault, D. 82
 Thiéry, A. 86
 Thiery, W. 75
 Thijssse, P. 102
 Thingstad , T. F. 107
 Thingstad, T. F. 107, 117
 Thomas, C. 99
 Thomas, H. 67
 Thomas, M. K. 60
 Thomas, R. 46
 Thomas, S. A. 52, 63, 132
 Thomas, Y. 48, 112
 Thomisch, K. 124
 Thompson, A. 53, 108, 114
 Thompson, A. F. 114
 Thompson, A. W. 108
 Thompson, C. 49, 61
 Thompson, C. E. 49
 Thompson, E. 46, 86, 97
 Thompson, E. M. 46, 86, 97
 Thompson, M. E. 98
 Thompson, P. A. 54, 60
 Thompson, S. 70
 Thomsen, L. 69, 70
 Thoms, E. 76
 Thoms, M. C. 127
 Thomson, J. 55
 Thoms, S. 109
 Thomsson, G. C. 121
 Thornhill, D. J. 80
 Thornton, B. 81
 Thornton, K. 99
 Thor, P. 61, 89
 Thorpe, A. P. 102
 Thorpe, S. E. 111
 Thorp, J. H. 62
 Thorrold, S. R. 87
 Thorsen, S. W. 68
 Thottathil, S. D. 91
 Thouvenin, B. 72
 Thouzeau, G. 69
 Thrane, J. 66, 112
 Thrane, J. E. 112
 Thume, K. 51
 Thummasan, M. 94
 Thunell, R. C. 84, 132
 Thuroczy, C. E. 99
 Thuyén, L. X. 79
 Thygesen, U. H. 45
 Thyrhaug, R. 107
 Thyssen, M. 65, 66, 110
 Tiano, L. 133
 Tibor, G. 122
 Tidwell, I. T. 46
 Tierno de Figueroa, J. M. 101
 Tiirola, M. 52, 78, 112
 Tikochinski, Y. 88, 97
 Tillmann, U. 127
 Tilves, U. 85
 Timko, S. 96, 106
 Timmermann, A. 97
 Timmins-Schiffman, E. B. 61
 Timofeyev, M. A. 87
 Timoner, X. 54
 Timoshkin, O. A. 87
 Tinta, T. 51, 135
 Tintore, J. 110
 Tintore Parra, A. 130
 Tirelli, V. 116
 Tirichine, L. 48, 112
 Tiselius, P. 59, 131
 Tisnérat-Laborde , N. 113
 Tisnérat-Laborde, N. 48
 Titelman, J. 85
 Tittel, J. 57, 96, 109
 Tittensor, D. 110
 Tjerngren, I. 60
 Tobias, C. 49, 65
 Tobias, C. R. 65
 Tockner, K. 64, 70
 Toda, T. 123
 Toffolon, M. 49
 Tohl, M. 71
 Tolar, B. B. 52
 Toledo, J. 104
 Tolosa, I. 63
 Tolotti, M. 47, 108
 Tolppanen, M. E. 53
 Tolu, J. 60
 Toma, D. M. 138
 Tomas, F. 133
 Tomasinio, M. P. 103
 Tomasovich, A. 82, 100
 Tomašových, A. 82
 Tominaga, K. 130
 Tomlinson , B. 85
 Toncelli , C. 117
 Toney, J. L. 109, 119
 Tonietto, A. E. 74
 Tonkes, H. 61
 Tönnesson, K. 73
 Toohey, L. 137
 Toole, J. 88
 Töpel, M. 89
 Töpper, B. 107
 Torner, J. 84
 Torn, K. 104
 Toro Botero, F. M. 129
 Toro-Farmer, G. 106
 Toro, M. 59
 Torrecilla, E. 48, 74
 Torremorell, A. 95
 Torres-Crespo, N. 85
 Torres, R. 122
 Tortell, P. D. 45
 Toth, G. B. 130
 Toussaint, F. 48, 113
 Touyama, S. 54
 Townsend, H. M. 67
 Townsend-Small, A. 71, 83, 92
 Toyofuku, T. 50
 Tragou, E. 110
 Trainer, V. L. 99
 Train, S. 94
 Traisnel, G. 91
 Tralli, A. 81
 Trampe, E. 108, 138
 Trancart, T. 76
 Tran, K. M. 101
 Tranvik, L. 57, 63, 75, 105
 Tranvik, L. J. 57, 63, 75, 105
 Trapani, J. N. 88
 Trapote, M. C. 73
 Trattner, F. 83
 Tremblay, A. 91
 Trense, Y. 61
 Treude, T. 85
 Trezzi, G. 64
 Triadó-Margarit, X. 94
 Triantafyllou, G. 107
 Triantaphyllou, M. 110
 Trick, C. G. 99
 Trigo, R. M. 59
 Trikk, O. 67
 Trimmer, M. 52, 55, 63, 68
 Trinh, D. A. 52
 Trinogga, J. 129
 Trobajo, R. 73
 Trochine, C. 75
 Troedsson, C. 46, 86, 97
 Trolle, D. 126
 Tromas, N. 47
 Tromboni, F. 63, 132
 Trommer, G. 58, 73
 Troost, T. 81
 Troublé, R. 102
 Troupin, C. 136
 Troxler, T. 88
 Trübenbach, K. 61
 Tsagarakis, T. M. 68
 Tsapakis, M. 104, 113, 117
 Tsementzi, D. 111
 Tseng, B. S. 108
 Tsiamis, K. 82
 Tsiaras, K. 107
 Tsikopoulou, I. 73, 121
 Tsiola , A. 117
 Tsiola, A. 53, 68, 73, 110, 113
 Tsirtsis, G. 105
 Tucci, S. 78, 100
 Tucker, K. 123
 Tucker, W. C. 96
 Tuimala, J. 50
 Tulaczky, S. 76, 130
 Tulonen, T. 78
 Tulumello, B. L. 55
 Tundisi, J. G. 74
 Tung, A. 91
 Turchyn, A. V. 53
 Turchyn, A. V. 53, 78
 Turchyn, V. A. 78
 Turetsky, M. R. 98
 Turgeon, J. 45
 Turk, D. 106
 Turk-Kubo, K. A. 123
 Turk, V. 51, 135
 Turner, E. J. 67
 Turner, T. 67
 Tuval, I. 91
 Tuytens, K. 80
 Twining, B. S. 60
 Txurruka, E. 58
 Tydecks, L. 70
 Tyler, A. N. 62, 134
 Tyler, C. R. 134
 Tyroller, L. 67
 Tytgat, B. 83
- U**
- Ubeda, B. 135
 Übeda, B. 53, 114
 Uchida, M. 59, 109
 Uchikawa, K. 73
 Ueda, R. 99
 Ullrich, N. 91
 Ulseth, A. 54, 66, 71, 72
 Ulseth, A. J. 54, 66, 71, 72
 Umezawa, Y. 99
 Unanue, M. 80, 94
 Underwood, G., J. C. 98
 Unger, D. 85
 Ungfors, A. 61
 Unno, K. 58
 Unrein , F. 101
 Unrein, F. 90, 95, 137
 Ural, A. 52
 Urban, D. 113
 Urbina, M. A. 134
 Uriarte, I. 58, 124
 Uribe, L. 89
 Urich, T. 52, 86
- Urlick, S. 44
 Urrego Giraldo, L. E. 129
 Urrutia Cordero, P. 126
 Ussher, S. J. 58
 Uszko, W. 45
 Utsumi, M. 76
 Uttieri, M. 45, 69, 73
 Uusitalo, L. 82
 Uwimana, A. 52
 Uyarra, M. C. 104
 Uye, S. 86
- V**
- Vachon, D. 66
 Vadeboncoeur, Y. 84, 105
 Vadeboncoeur, Y. M. 105
 Vader, A. 94
 Väge, S. 107, 117
 Vagner, M. 62
 Vähätalo, A. 105, 106
 Vähätalo, A. V. 105, 106
 Valanko, S. 82
 Valcárce, N. 58
 Valcarcel-Perez, N. 119
 Valdecasas, A. G. 92
 Valdemarsen, T. 68
 Valdemarsen, T. B. 68
 Valdivieso-Ojeda, J. 114
 Valencia, J. 64
 Valencia, V. 117
 Valencia-Vila, J. 103
 Valero-Garcés, B. 59, 109
 Valero-Garcés, B. L. 109
 Valiñas, M. S. 76
 Valinia, S. 57, 95
 Valkama, P. 53
 Valle das Neves , J. 106
 Vallina, S. M. 67, 106
 Vanaverbeke, J. 56
 van Belzen, J. 129
 Van Bergeijk, S. 75
 van Breugel, P. 69
 Van Cappellen, P. 107
 Van Colen, C. 61
 Van Colen, W. 98
 van Dam, A. 52
 van de Kamp, J. 60
 Vanden Bavière, A. 99
 van den Berg, C. M. 84
 Van den Broeck, M. 92
 Van de Peer , Y. 102
 Van de Putte, A. 83
 van der Deijl, E. 117, 129
 van der Deijl, E. C. 117
 Van der Geest, H. G. 129
 van der Heide, T. 56
 Van der Jagt, H. 47
 Vander Laan, J. J. 54
 van der Schoot, R. 74
 van der Star, W. R. 129
 Vanderstukken, M. 98
 van der Vegt, M. 117, 129
 Van Der Wal, D. 130
 van der Woerd, H. 102
 van der Zee, E. 56
 Van De Vijver, B. 83
 van de Vossenberg, J. 51
 van de Waal, D. 114
 Van De Waal, D. 126
 Van de Waal, D. B. 47, 108, 126, 132
 van Dijk, K. 80
 Van Donk, E. 64, 108, 127, 132
 Vandromme, P. 54, 58, 78, 103
 van Duren, L. A. 81
 Vanegas Giraldo, C. A. 129

- Van Gansbeke, D. 131
 van Gerven, L. 49
 Van Gerven, L. 112
 Vang, N. K. 70
 Vanhamel, M. 127
 van Hardenbroek, M. 108
 Vanhoutte-Brunier, A. 67
 van Katwijk, M. M. 82
 van Lipzig, N. 75
 Van Mooy, B. 51, 112, 120, 135, 136
 Van Mooy, B. A. 112, 120
 Vanner, T. 111
 Vanni, M. J. 112
 Vannucchi, P. E. 101
 van Oevelen, D. 69
 Van Oevelen, D. 69
 Van Oostende, N. 60
 van Oosterhout, F. 129
 Van Oosterhout, F. 129
 Vanormelingen, P. 83
 Vanreusel, A. 69, 103, 133
 Vanschoenwinkel, B. 80, 89
 van Slooten, C. 90
 van Someren Gréve, H. 59
 Vantarakis, A. 82
 van Tol, H. 108, 112
 van Tol, H. M. 112
 van Wesenbeek, B. K. 129
 Van Wesenbeek, B. K. 130
 Vaque, D. 121
 Vaqué, D. 113
 Vaquer-Sunyer, R. 50
 Vardi, A. 109, 112, 120, 135
 Varela, D. 60
 Varela, M. 51, 52, 68, 76, 81, 103, 108, 131
 Varela, M. M. 51, 52, 81, 103, 108, 131
 Varela, R. 84, 132, 136
 Vargas-Yáñez, M. 122
 Varpe, O. 116
 Varpe, Ø. 89, 128
 Vasander, H. 53
 Vasas, G. 47
 Vasconcelos, F. R. 107
 Vasconcelos, J. 94
 Vasquez Cardenas, D. 69
 Vasquez-Cardenas, D. 51
 Vaughan, I. P. 64
 Vaughan, L. 127
 Vaulot, D. 88, 98, 102, 103
 Vazquez, A. 119
 Vázquez-Loureiro, D. 127
 Vazquez, M. J. 72
 Veen, A. 65, 66
 Vegas, J. 119
 Vegas-Vilarrúbia, T. 73
 Vega-Thurber, R. L. 136
 Vehmaa, A. 50
 Veiga-Neto, J. 98
 Velasco Ayuso, S. 132
 Velasco, J. 54, 112
 Velasquez, C. 130
 Velazquez, D. 111, 135
 Velázquez, D. 83
 Vélez-Villamil, S. M. 119
 Velo, A. 88
 Velo Gala, I. 138
 Velo, M. 72
 Velthuis, M. 108, 114, 132
 Veluchamy, A. 48
 Venail, P. 47
 Venetsanopoulou, A. 89
 Venier, C. 81
 Venkiteswaran, J. J. 53
 Venn, C. 130
 Venohr, M. 112
 Ventura, M. 105
 Ventura, R. E. 118
 Venturini, N. 124
 Verbeek, L. 127
 Verdú, J. 55
 Vereshchagina, K. P. 87
 Vergara, J. J. 50, 73, 82, 95, 123
 Verhoeft, S. H. 74
 Verleyen, E. 83
 Vermeij, M. J. 127
 Vermont, A. 61, 88, 121
 Vermont, A. I. 121
 Verspagen, J. 126
 Vesterinen, J. P. 112
 Vestri, S. 72, 96
 Vétion, G. 113
 Vetriani, C. 71
 Vetter, M. 49
 Viana, D. S. 75, 80
 Viaroli, P. 63
 Vicci, L. 91
 Vicencio-Aguilar, M. 99
 Vicente-Cera, I. 131
 Vicente, I. 129
 Vicente, J. 108
 Vicent, J. 119
 Vidal, J. 49
 Vidal, M. 60, 78, 80
 Vieillard, A. M. 65
 Vieira, D. M. 94
 Vieira-Silva, S. 110
 Vieitez, V. 65
 Viera-Rodriguez, M. A. 114
 Viggiani-Beltrocco, M. V. 77
 Viktorsson, L. 116
 Vik, U. 46
 Villa-Costa , M. 46, 81
 Villa-Costa, M. 54
 Vila, I. 103
 Vila, M. 55, 95, 111
 Vilas, C. 75
 Villa-Alfageme, M. 54
 Villacíeros-Robineau, N. 136
 Villa, E. 95
 Villaescusa, J. A. 83
 Villafañe, V. E. 94, 124
 Villamaña, M. 60, 81, 136
 Villamor, J. 114
 Villanoy, C. 50, 51, 124
 Villanoy, C. L. 50, 51, 124
 Villanueva, L. 111
 Villa, P. 104
 Villar-Argaiz, M. 77, 94, 118, 132
 Villareal, T. A. 84, 132
 Villarino, E. 55, 80
 Villate, F. 58, 124
 Villazán, B. 82, 95
 Villet, M. H. 86
 Vincent, F. 108
 Vincent, W. F. 52, 83
 Vincon Leite, B. 49
 Vinçon-Leite, B. 47
 Vincx, M. 61
 Vincx, M. 56
 Vinebrooke, R. D. 52, 55
 Vinocur, A. 70
 Violaki, K. 58, 113
 Viollier, E. 124
 Virginia, R. A. 130
 Vislova, A. 100
 Visser, A. 46, 58, 60
 Visser, A. W. 46, 58
 Visser, P. 47, 74, 126, 127
 Visser, P. M. 47, 74, 127
 Vitonyte, I. 47
 Vittecoq, M. 122
 Viure, L. 60
 Vivas, Z. 79
 Viveiros, F. 118, 133
 Vizzini, S. 133, 137
 Vlahos, P. 48, 49
 Vockenhuber, C. 115
 Vodopivec, M. 134
 Vogt, H. 124
 Vogt, M. 81
 Vogt, R. J. 95
 Voigt, C. 57
 Vojvoda, J. 52, 134
 Volckaert, F. A. 99
 Völkner, C. 109
 Vollenweider, J. J. 87
 Vologina, E. 87
 Vologina, E. G. 87
 Volta, P. J. 92
 Vomacka, E. R. 101
 Von Elert, E. 131
 von Fischer, J. C. 66
 Vongkhamsoa, A. 92
 Vonk, J. A. 91, 129
 Vonk, J. E. 105
 von Moos, N. 135
 von Reumont, J. 71
 Von Reumont, J. 44
 von Schiller, D. 86
 von Schiller, D. 52, 55, 57, 63, 75, 86
 vonSchiller, D. 55
 Von Schiller, D. 52
 von Wachenfeldt, E. 57
 Voss, D. 138
 Voss, K. A. 74
 Voss, M. 72, 76, 112, 121
 Vrede, T. 56, 67
 Vrijenhoek, R. C. 86
 Vyverman, W. 45, 83, 110
- W**
 Waagen, G. 129
 Wacker, A. 48, 131
 Wacquet, G. 90
 Wada, M. 99
 Waeg, J. 73
 Wäge, J. 88
 Waggoner, D. C. 105
 Wagner, K. 86
 Wagner, N. D. 132
 Wagner, S. 106
 Wagner, T. 112
 Wahl, M. 48, 50, 113
 Wain, D. J. 73
 Waite, A. M. 54, 60
 Walker, A. N. 97
 Walker, S. A. 123
 Walk, J. A. 137
 Wallace, D. 123
 Wallace, E. J. 44
 Wallace, R. 89, 100
 Wallace, R. B. 100
 Wallace, S. 98
 Waller, J. 88, 121
 Waller, J. D. 88, 121
 Waller, N. 129
 Wallin, M. 53, 63, 64
 Wallin, M. B. 53, 63, 64
 Wall, M. 133
 Wallmann, K. 131
 Wallsgrove, N. J. 52
 Walne, A. 66
 Walser, A. 101
 Walsh, D. 77
 Walsh, D. A. 77
 Walsh, E. J. 71, 89, 122
 Walter Anthony, K. M. 92
 Walters, A. 127
 Walters, T. 97
 Walters, T. L. 97
 Walther, C. 115
 Walton, M. E. 75
 Walworth, N. G. 88
 Walz, K. 69
 Walz, P. 92
 Wamsley, T. V. 130
 Wanamaker, Jr., A. D. 57
 Wang, H. 105, 113
 Wang, J. 51, 108
 Wang, K. 107, 117
 Wang, L. 44, 45
 Wang, P. 90
 Wang, X. C. 137
 Wang, Z. 84, 137
 Wang, Z. A. 137
 Wankel, S. D. 99
 Wanninkhof, R. 44, 88
 Waples, D. 71
 Waples, J. T. 45
 Ward, A. 52
 Ward, B. 46, 60, 67, 118, 131
 Ward, B. A. 46, 67
 Ward, B. B. 118, 131
 Ward, D. M. 138
 Ward, E. 65
 Ward, J. E. 77, 88
 Warneke, T. 53
 Warren, J. 48
 Warwick, R. M. 68
 Washburn, L. 59, 136
 Waska, H. 64, 76
 Wassmann, P. 103, 121
 Wassmann, P. F. 121
 Wasson, K. 44
 Watanabe, H. 69
 Watanabe, S. 57
 Watanabe, T. 119
 Watanabe, Y. 54, 100
 Waterbury, J. B. 48
 Waterbury, J. W. 47
 Waterkeyn, A. 80, 92
 Waters, K. E. 116
 Watson, A. 44, 84
 Watson, J. R. 80
 Watson, S. 65, 95, 126
 Watson, S. B. 65, 95, 126
 Watts, A. J. 134
 Wawrzyniak-Wydrowska, B. 82
 Way, S. 88
 Weaver, J. C. 133
 Webb, A. E. 124
 Webb, E. A. 88
 Webb, J. L. 100
 Weber, M. 74, 133
 Weber, P. K. 103, 128
 Weber, S. C. 62, 120, 132
 Webert, K. C. 92, 99
 Webster-Brown, J. 130
 Webster, G. 101
 Webster, K. E. 112
 Weenink, E. F.J.. 47
 Weenstra, J. 56
 Weerman, E. 56
 Wegley Kelly, L. 128
 Wegner, K. M. 89
 Wegwerth, A. 75
 Wehrli, B. 49, 84, 92, 123
 Weidel, B. 87, 112
 Weidel, B. C. 112
 Weider, L. J. 136
 Weightman, A. J. 101
 Weiland , N. 86

Weil, E. 71
 Weinberger, F. 131
 Weinisch, L. 111
 Weishampel, J. 137
 Weissing, F. J. 108
 Weiterer, M. 77
 Welch, K. A. 130
 Welch, M. J. 89
 Welker, J. M. 59
 Wells, M. L. 99
 Welsh, D. T. 48
 Welti, N. 57, 111
 Welti, N. D. 111
 Wemheuer, B. 128
 Wemheuer, F. 128
 Wendeberg, A. 49, 116
 Wendt-Pothoff, K. 48, 109, 114
 Wen, L. 49
 Wenzhöfer, F. 133
 Werbrouck, E. 131
 Wernand, M. 102
 Wernberg, T. 127
 Werner, E. 78
 Werner, F. J. 50, 76
 Werner, U. 92
 Wesnigk, J. B. 111
 Wessel, B. M. 101
 Westphal, S. 103, 127
 Wethey, D. S. 50, 51
 Wetterich, S. 118
 Weyhenmeyer, G. 53, 63, 92, 104
 Weyhenmeyer, G. A. 63, 104
 Weyhenmeyer, G. W. 53
 Whaling, P. J. 92
 Wham, D. C. 80
 Wheeler, G. L. 91
 Wheeler, J. D. 44
 Whilte, B. L. 91
 Whisner, J. B. 130
 Whitaker, E. A. 132
 Whiteford, E. J. 59
 Whitehouse, M. J. 91
 White, M. M. 88
 Whitman, M. S. 74, 83
 Whitney, L. P. 101
 Whitt, D. B. 48
 Wichels, A. 135
 Wickham, S. 105, 136
 Wickham, S. A. 105
 Wickline, A. T. 124
 Wicks, L. C. 46, 70
 Widder, S. 68
 Widdicombe, C. E. 46, 68, 128
 Widdicombe, S. 46, 68, 92, 100
 Widner, B. 51, 57, 72, 118
 Wiedner, C. 112, 121
 Wiegner, T. 44
 Wiencke, C. 62
 Wiesheu, A. C. 135
 Wieters, E. 82
 Wilander, A. 96, 104
 Wilburn, P. 87, 89, 100
 Wild, C. 63
 Wilhelm, L. 68, 128
 Wilhelm, S. W. 113, 126, 135, 136
 Wilken, S. 109
 Wilkerson, F. 120, 127
 Wilkerson, F. P. 120
 Wilkinson, G. M. 52, 104, 127
 Wilkinson, R. J. 92
 Willby, N. J. 116
 Willems, A. 83
 Willen, E. 96
 Williams, B. 84, 88
 Williams, C. 57, 134, 138
 Williams, C. J. 57

Williams, C. M. 134
 Williams, D. 118
 Williams, J. P. 134
 Williams, M. R. 101
 Williams, M. W. 72
 Williamson, C. 57, 73
 Williamson, C. E. 73
 Williamson, P. 46, 87
 Williamson, S. C. 44
 Williamson, R. 46, 53, 70
 Williams, R. G. 46, 53
 Willis, A. 103
 Willis-Jones, W. E. 55
 Wilmette, A. 83, 111
 Wilson, J. L. 122
 Wilson, R. 70
 Wilson, S. T. 123
 Wilson, W. H. 121, 136
 Wiltshire, K. H. 45
 Wimberley, A. S. 44
 Wincker, P. 103, 110, 111
 Winder, M. 46, 50, 55, 62, 104, 107
 Winde, V. 75
 Winfield, I. J. 49, 92
 Winget, D. 72
 Winslow, L. 62
 Winter, C. 49, 113
 Wirth, T. 70
 Wirtz, K. 49, 109, 121
 Wirtz, K. W. 49, 109
 Wissel, B. 66, 104
 Witt, M. 83
 Włodarska-Kowalcuk, M. 76, 101
 Wodniok, S. 102
 Woelfel, J. 68
 Wohlraab, S. 103, 120, 127, 130
 Wolfe, A. P. 52
 Wolfe, P. 90
 Wolfer, H. 79
 Wolff, G. A. 53
 Wolfram, S. 131
 Wollheim, W. M. 55
 Wollrab, S. 45
 Wollschnäger, J. 138
 Wolter, J. 99
 Wood, A. M. 54
 Wood, M. A. 93
 Woodrey, M. S. 78
 Woodward, E. M. 131
 Woodward, G. 64
 Woo, K. 87
 Wooller, M. J. 74
 Woolway, R. I. 62
 Worden, A. Z. 109, 118
 Worm, B. 113
 Worsfold, P. J. 58
 Wroniecki, M. 82
 Wu, C. J. 101
 Wuerz, M. T. 124
 Wüest, A. 45, 64
 Wüest, A. J. 45
 Wüest, J. A. 62
 Wu, P. 61
 Wurtsbaugh, W. A. 62, 112
 Wurzbacher, C. 108
 Wu, Y. 83
 Wu, Z. 85
 Wyatt, A. S. 62
 Wyatt, J. B. 137
 Wyatt, K. H. 98
 Wyatt, N. 58
 Wyatt, T. 90

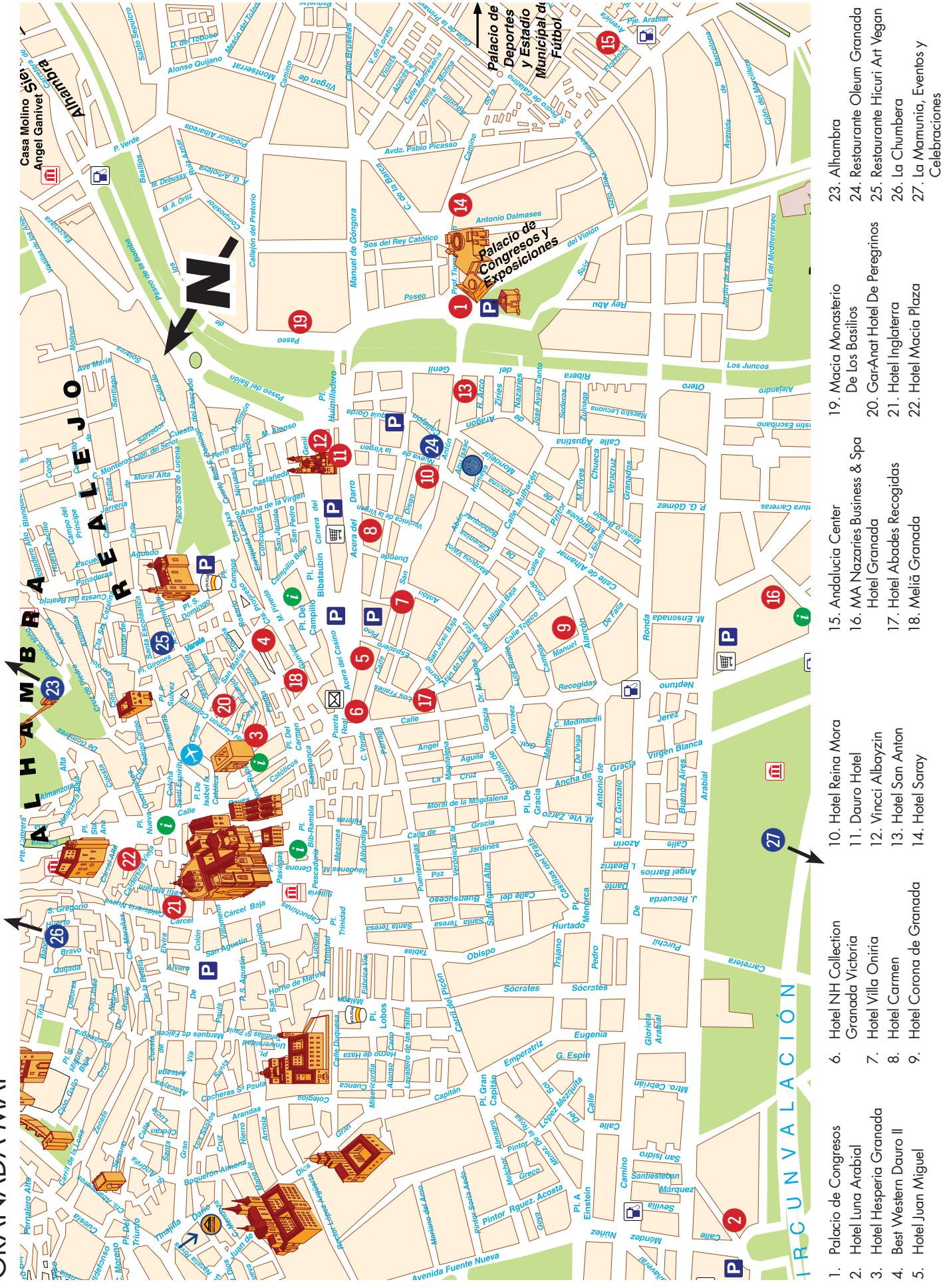
X
 Xavier, R. 76

Xenopoulos, M. A. 57, 95, 134
 Xie, R. C. 124
 Xu, J. 101
 Xu, K. 132
 Xu, L. 83
 Xu, Y. 49, 59

Y
 Yabuki, A. 102
 Yachi, S. 101
 Yagar, P. 69
 Yahel, G. 88, 97
 Yamada, K. 102
 Yamada, Y. 54
 Yamaguchi, Y. T. 83
 Yamaki, K. 99
 Yamamoto, H. 69
 Yamasaki, S. 99
 Yambélé, A. 96
 Yampolsky, L. 87
 Yam, R. 97
 Yang, E. 72, 101, 123
 Yang, E. C. 123
 Yang, H. 66, 130
 Yang, S. 101
 Yankova, Y. 95
 Yao, H. 78
 Yasseri, S. 116
 Yates, K. 106
 Yazzie, A. T. 101
 Yebra, L. 58, 110
 Yeemin, T. 94
 Ye, H. 112, 127
 Yeh, T. C. 57
 Yema, L. 47, 70
 Ye, Q. 126
 Ye, S. 51
 Yilmaz, P. 111
 Yin, K. 119
 Yin, T. 137
 Ylöstalo, P. 65
 Yniguez, A. T. 51
 Yohannes, E. 56
 Yoon, B. 96
 Yopak, R. 123
 Yorke, R. C. 56
 York, P. 137
 Yoshikawa, S. 102
 Yost, J. 44
 Youens-Clark, C. K. 135
 Young, C. 133
 Young, J. W. 131
 Young, T. 87
 Yourassowsky, C. 90
 Yousef, F. 136
 Ysebaert, T. 82
 Yuan, H. 51
 Yuan, Z. 92
 Yuasa, T. 94, 103
 Yu, J. 55
 Yu-jung Kim, L. 84
 Yuknis, M. 51
 Yu, L. 44, 45
 Yumruketepe, C. V. 54
 Yun-Chi, L. 119
 Yu, X. 51
 Yu, Z. 74

Z
 Zaborska, A. 76, 95, 101
 Zaccanti, F. 102
 Zafra, E. 74
 Zahn, L. A. 134
 Zaid, E. 110

GRANADA MAP





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