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ASLO Summer Meeting 2005

June 19-24, 2005 · Santiago de Compostela, Spain

**A Pilgrimage
Through Global
Aquatic Sciences**

Conference Program

in Spain!



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Welcome to the ASLO 2005 Summer Meeting!

A Pilgrimage Through Global Aquatic Sciences

An international team of aquatic scientists led by our Spanish co-chairs, the organizers of the ASLO 2005 Summer Meeting have made every effort to render this a memorable event, producing an exciting scientific program that will address emerging issues and new developments in aquatic sciences while acclimatizing the meeting attendees to the cultural environment, providing attendees with multiple opportunities to enjoy Santiago de Compostela and the idiosyncrasy of Spanish culture and the Spanish way of life.

The Sunday opening session by ASLO President, Jonathan J. Cole, Institute of Ecosystem Studies, will be followed by a welcome mixer reception. Plenary lectures and poster and oral sessions will be held throughout the week. Daily conference events will be held at the Palacio de Congresos y Exposiciones de Galicia and Puerta del Camino Hotel, the venues of the meeting.

Message from the Co-Chairs

With about 2,000 abstracts received, the ASLO 2005 Summer Meeting in Santiago de Compostela will be the largest meeting in the society's history, exceeding by about 50 percent (50%) the average size of ASLO meetings, as well as the pioneer meeting in Europe (Copenhagen 2000). In addition to this impressive number of participants, the contingent that will gather in Santiago de Compostela represents a much broader representation of the world community in Aquatic Sciences, with participants from 50 countries (Table 1), compared to the 20 represented in most ASLO meetings. Concerns that the scheduling of two meetings, a winter meeting in Salt Lake City (USA) and a summer one in Santiago de Compostela, would deter from participation in either one proved unsupported, as the Salt Lake City meeting gathered 1,200 participants.

We believe that the enthusiastic response to the Santiago ASLO 2005 Summer Meeting in terms of number of participants, as well as in their worldwide distribution, provides a clear message for the demand of high-quality aquatic sciences meetings, which ASLO excels on, outside as well as inside North America. Moreover, a record high of 1057 new members registered on the wake of the ASLO 2005 meetings, and the retention of these new, largely international, members in the society poses a challenge to ASLO, requiring the provision of services, such as meetings, to these members. The usual number of members is approximately 100-200 per year. The ASLO Board and the society's President are, fortunately, well aware of these challenges (cf. *L&O Bulletin* 14: 3-4, 2005).

While all involved are delighted with the massive attendance expected to the event, it has certainly posed a challenge to the Planning Committee and the Business Office, as our expectations, based on previous meetings, were set at about 50 percent (50 %) lower participation than realized. The Business Office and Planning Committee made all possible efforts to expand the space and time available for parallel oral presentations, increasing the number of oral slots possible by about eighty percent (80 %). Even this number could not accommodate the great demand for oral slots, so that, with the advice of the session co-chairs, about twenty-five percent (25 %) of the presentations were transferred to posters. We thank participants who suggested oral but were assigned to poster presentations for their good spirit and understanding, which we planned to correspond to by highlighting the poster session.

To this end, we created three poster sessions (one per day), with the posters being replaced each day, thereby holding, at any one poster session, the minimum possible number of posters (about 240). The poster session has been given prime time by following the plenary lectures and developing over two hours before the start of the parallel sessions. Provided the number of participants, the number of posters, and the time available to examine the posters, we calculate that the average attention to posters will be about 1,000 participant-minutes (e.g. 100 participants spending 10 min. each at any one poster) at the poster session itself (the posters will be exhibited for a full day). This will allow for ample interactions, as all visitors to a poster will have the opportunities to pose questions or gather additional information from the author. A similar calculation indicates that, on average, about 150 participants will attend each oral presentation, but the limited time for question periods (5 min. at most) implies that only 3 to 4 of them will have the opportunity to interact (pose questions) with each speaker during the time allotted. Clearly, these calculations indicate that posters offer far greater opportunities to meet and interact with participants than oral sessions do.

Table 1. The breakdown by country of the registered participants submitting an abstract to the ASLO 2005 Summer Meeting in Santiago de Compostela, Spain.

Country	Count	Country	Count
USA	529	Slovenia	8
Spain	293	Croatia	7
Germany	160	China	6
France	143	Czech Republic	4
United Kingdom	133	Estonia	4
Canada	110	New Zealand	4
Sweden	86	Argentina	3
Netherlands	70	Monaco	3
Denmark	51	Nigeria	3
Japan	51	Colombia	2
Portugal	49	New Caledon	2
Norway	48	Nicaragua	2
Australia	35	Russia	2
Italy	32	South Africa	2
Finland	31	Venezuela	2
Belgium	27	Bulgaria	1
Switzerland	25	Guam	1
Austria	23	Iceland	1
Brazil	21	Latvia	1
Israel	19	Malta	1
Mexico	15	Philippines	1
Greece	14	Senegal	1
Poland	9	Taiwan ROC	1
Republic Of Korea	9	Ukraine	1
Chile	8	Uruguay	1

*The numbers listed for each country are pre-registration numbers as of 1 February 2005.

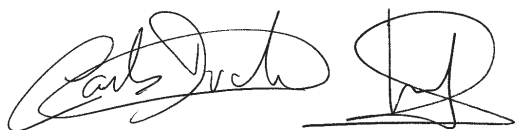
We then made all possible efforts to arrange oral sessions in the most logical manner possible, provided the large number (12) of concurrent sessions. Our aim was to create clusters of thematically-related sessions so as to avoid that oral presentations of similar topics would compete for participants' attention at any one time, and that participants would have to run from room to room to follow the thread of their thematic interest during the sessions. Each of these clusters will have a dedicated room where the sessions composing the cluster will be run along the entire week. The cluster concept will also be used in grouping the posters, so that thematically linked posters will be clustered in space in the exhibition hall.

The Planning Committee has proposed 12 session clusters, which encompass all of the abstracts submitted:

- Microbial Biodiversity and Ecology
- Functional Role of Biodiversity
- Ocean Processes
- Continental and Coastal Processes
- Biogeochemistry
- Global and Climate Change
- Applied Ecosystem Research
- Metabolism and Stoichiometry
- Perspectives and Frontiers
- Concepts, Theories, and Approaches
- Plankton: Communities and Life History
- Planktonic processes

At the same time, the number of plenary talks has greatly increased compared to previous ASLO meetings, from 3 plenary talks to 7 plenary talks, including exciting scientific presentations by the ASLO President, and the 2005 ASLO Awards recipients (cf. *L&O Bulletin* 14:15-17, 2005). All in all, the program contained in this volume depicts the broadest possible conception of aquatic sciences and the excellence and frontier traits of the research that are the trademarks of ASLO. We believe that each of you will find many stimulating abstracts, and that your attendance to this meeting will positively impact on your own research and the development of interactions and partnerships within the aquatic sciences research community.

We wish you a safe trip to Santiago de Compostela and an enjoyable meeting.



Carlos M. Duarte and Emilio Fernández
ASLO 2005 Summer Meeting Co-Chairs,
on behalf of the Planning Committee

Sponsors

Several Spanish institutions have helped to sponsor the meeting:

- Ministerio de Educación y Ciencia, Spain
- Consellería de Innovación, Industria y Comercio.
Xunta de Galicia
- Universidad de Vigo
- Concello de Santiago de Compostela
- Consejo Superior de Investigaciones Científicas (CSIC)

Plenary Addresses and Award Recipient Talks

Introduction of ASLO President

Carlos M. Duarte, Instituto Mediterraneo de Estudios Avanzados,
Spain, ASLO 2005 Summer Meeting Co-Chair

Presidential Science Address: Homage to Santo Iago (St. James) or Why is There So Much Carbon in Freshwaters?

Jonathan J. Cole, ASLO President,
Institute of Ecosystem Studies, USA

Sunday, 19 June 2005, 18:00 - 18:45

Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: Because liquid freshwater covers such a small fraction of the Earth's surface area, freshwater ecosystems (lakes, rivers, and reservoirs) are not usually considered as important components in element cycles at global or even regional scales. Recent multiple lines of evidence suggest that freshwaters are disproportionately significant to the C balance of their watersheds, and important at a global scale to current rates of organic C sequestration. The magnitudes of net remineralization, burial, and export from and within freshwaters can be large in comparison to net C sequestration of the land-based components of the watershed. The sign of the net C balance sheet of a region may be reversed when the aquatic components are considered in this context. I will provide a conceptual framework to show the ways in which freshwater ecosystems influence C budgets, review examples from my own work and recent literature in which aspects of this framework have been addressed, and suggest some future research directions that this review reveals.

Biography: Following a Ph.D. in 1982 from Cornell in Aquatic Ecology, ASLO President Jonathan "Jon" Cole moved to Woods Hole where he did post-doctoral work both at the Woods Hole Oceanographic Institution and at The Ecosystems Center of the Marine Biological Laboratory. In 1984, Cole was one of the first scientists to be hired by the then brand-new Institute of Ecosystem Studies where he moved through the ranks of assistant scientist, associate scientist, and in 1997, scientist. From 1984-1994, Cole helped to administer the Hubbard Brook Ecosystem Study as its associate site coordinator and executive director of its Scientific Advisory Committee. Cole has been a Fellow of the American Association for the Advancement of Science since 1996, and board member of the International Water Academy since 1999.

Cole served on the ASLO Board of Directors from 1994-1997, and was on the Editorial Board of *Limnology and Oceanography* from 1987-1990. Cole served as an associate editor for *Limnology and Oceanography* from 1998-2001, and for *Hydrobiologia* since 1996. Cole has participated in many ASLO committees and initiatives and was the co-chair of the 1997 Aquatic Sciences Meeting in Santa Fe. He has been an ASLO member since 1976.

Cole works at the interface between microbiology and biogeochemistry and has been interested in this area in both marine and freshwater ecosystems, concentrating on lake and riverine systems during the past decade. Cole has found particularly rewarding studies, which compare processes between marine and freshwaters. More recently, Cole has been trying to constrain estimates of microbial respiration by measurements of whole-ecosystem metabolism and gas flux and is finding that terrestrially derived organic matter often supports net heterotrophy in lakes in rivers.

Eulogy to Dr. Robert Wetzel

Gene E. Likens, President and Director, G. Evelyn Hutchinson chair in Ecology, Institute of Ecosystems Studies, USA

Sunday, 19 June 2005, 18:45 – 19:00

Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Opening Ceremony

Carlos M. Duarte, Instituto Mediterraneo de Estudios Avanzados, Spain and Emilio Fernández, Universidad de Vigo, Spain, ASLO 2005 Summer Meeting Co-Chairs

Monday, 20 June 2005, 09:30 – 10:15

Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

The Opening Ceremony has been planned to introduce attendees to Santiago. The conference co-chairs will begin with opening remarks regarding the week ahead and introduce Spanish dignitaries.

**Recipient of the G. Evelyn Hutchinson Award Talk:
Digital Elevationology for the Copepodologist**

Mary E. Power, University of California at Berkeley, USA

Tuesday, 21 June 2005, 09:00 – 09:30

Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: Ecologists have pondered the effects of landscape pattern on ecological process for most of the short history of our field. We have also been puzzled by the inconsistent relationships between energy flow and population limitation in food webs. New mapping, sensing, and visualization technologies, along with increasingly available tracers, are providing ecologists with glimpses of natural scales of food web interactions and ecosystem fluxes, as well as unprecedented data on environmental variation. If combined iteratively with field manipulations that reveal key but hidden mechanisms, these mapping technologies may help to clarify the links between energy flow and species interactions, as these change across real landscapes with changes in environmental conditions that Hutchinson envisioned as axes of organisms' Fundamental Niche.

Biography: Mary E. Power is the John and Mary Gompertz Professor of Integrative Biology at the University of California at Berkeley. She received her B.A. from Brown University, her M.S. from the Boston University Marine Program in Woods Hole, and her Ph.D. in Zoology from the University of Washington. Her research foci are food webs and river and watershed ecology. She has studied river and watershed food webs in Panama, Papua New Guinea, the Ozark Mountains, Oklahoma prairies, and Northern California. She uses field experiments and watershed scale surveys to study the impacts of species on food webs, and of environmental conditions on species interactions that affect food web structure. Her group also studies cross-habitat fluxes, specifically, the use of river-derived insect production by terrestrial consumers in watersheds (spiders, lizards, bats) and the population and ecosystem consequences of this subsidy. With collaborators in biogeochemistry and the earth sciences, she is currently expanding her research to better understand spatial scales of food web interactions and ecosystem fluxes as these vary down river drainage networks. Since 1987, she has been faculty manager of the Angelo Coast Range Reserve, a 5000 redwood-Douglas fir forest ecosystem in the University of California Natural Reserve System. She has served as a group leader for a Presidential Western Water Policy

Advisory Commission, as chair of the University-Wide Advisory Committee for the University of California Natural Reserve System, as a member of the Grand Canyon Monitoring and Research Center Peer Review Panel, and on the Scientific Advisory Board for the National Center for Ecological Analysis and Synthesis. She currently sits on the Board of Directors for the California Nature Conservancy, on the Executive Committee of the NSF National Center for Earth Surface Dynamics, and is the first Director of the California Biodiversity Center, an organized research unit that fosters collaborations among Berkeley's Natural History Museums and Natural History Field Stations.

**Plenary Address: Aquaculture of XXI Century
and Its Challenges for Aquatic Sciences and
Ecosystem Management**

Doris Soto, Campus Pelluco Universidad Austral, Chile

Tuesday, 21 June 2005, 09:30 – 10:10

Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: The massive expansion of aquaculture during the past and present century around the globe is creating parallel opportunities, conflicts, and challenges to those once developed for agriculture, both for the industrialized northern hemisphere countries and the developing countries in Asia and the southern hemisphere. Large amounts of fishmeal are moving from the Humboldt Current to Europe and China for the aquaculture making. But vegetable proteins also are starting to replace fish meal for carnivorous fish such as salmon and large extensions of soy bean and lupin are planted replacing traditional agriculture and grasslands in South America; "the subsidies of agriculture to aquaculture". Intensive aquaculture is supplying large amounts of nutrients to coastal zones around the world and the main challenge is to manage those inputs in such ways to enhance nutrient cycling and ecosystemic functioning being a real challenge to decide how much biodiversity we can afford to lose, but at the same time realizing that unproductive ecosystems are increasing productivity and diversity. Little scientific exchange is taking place between the aquaculture world and the aquatic sciences world. Could we, from the oceanography and limnology side, give sustainable management options to aquaculture? Certainly we cannot stop aquaculture and thus we have a challenge ahead, which should be explored and faced properly.

Biography: Doris Soto received her undergraduate degree from the Faculty of Sciences University of Chile in Santiago in 1975, and started working at the same department as a laboratory assistant. In 1981, Soto obtained a Chilean government fellowship to pursue a Ph.D. in Ecology in the Joint Doctoral Program between San Diego State University and University of California at Davis. She did her dissertation research on zooplankton ecology in San Diego under the advice of Dr. Stuart Hurlbert where she learned the hard way about "true replication". She went back to Chile after finishing the Ph.D. in 1987, and moved to Puerto Montt in 1990, to work as professor at Facultad de Pesqueras y Oceanografía of the Austral University in Puerto Montt, the lake and fjord region in Southern Chile. In addition, she has been adjunct scientist at the Institute of Ecosystem Studies in Millbrook, New York, since 1999.

Since 1990, she has been doing research on salmon farming environmental management and nutrient cycling after farms. She has also done extensive research to evaluate the effect of escaped salmon and trout on aquatic environments. Her research has contributed to scientific knowledge and also to decision-making

through the aquaculture environmental regulation program set up by the Chilean government. Since 2002, she has been a senior scientist in a Chilean Millennium project evaluating the forest ecosystemic services to aquatic systems* (FORECOS). She has published numerous scientific papers and reports and directed undergraduate and graduate students.

In May 2005, she moved to Rome where she accepted a position as senior fisheries officer at the FIRI (Inland water resources and Aquaculture Service) at the FAO headquarters (Food and Agriculture Organization of the United Nations), where she hopes to put to practice an ecosystemic perspective to aquaculture management.

**Recipient of the Raymond L. Lindeman Award Talk:
Multi-Faceted In Situ Controls on Silica and Carbon
Cycling from Diatoms**

Kay Bidle, Rutgers University, USA

Wednesday, 22 June 2005, 09:00 – 09:30
Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: Diatom productivity is largely responsible for downward fluxes of biogenic silica (opal) and organic matter in the global ocean. Elucidation of the mechanisms that couple the relative fates of diatom Si and C within the water column is critical to both calibrate opal preservation in paleoproductivity reconstruction and interpret the role of diatoms in the biological carbon pump. Significant silicon regeneration, via dissolution of biogenic silica, supports a large fraction of diatom productivity as an adventitious consequence of bacterial colonization and hydrolytic attack on diatom cell walls. Biochemical strategies employed by bacteria effectively denude silica of its organic coating and hasten its dissolution, making them a critical mechanism of both Si and C diagenesis. Inherent variability of *in situ* regeneration rates implicates multifaceted *in situ* controls on bacterial hydrolysis of diatom cells. Among these, temperature exerts a profound control on the coupling of biogenic silica and organic carbon preservation. An empirical relationship for C and Si regeneration, incorporating both biological and chemical drivers, revealed that low temperature dramatically intensifies the selective regeneration of organic matter by marine bacteria and leads to a gradual increase in the Si:C preservation ratio. Si to C coupling in pelagic waters will depend on factors that couple diatom biomass to the microbial loop. Intriguingly, marine bacteria collected from both temperate and permanently-cold oceanic regimes, along with their respective hydrolytic enzymes, appear to be operating sub-optimally at *in situ* temperatures, with a raising of seawater temperatures leading to enhanced coupling of Si: C regeneration and reduced burial. Selective Si:C preservation should help to interpret and to model variable Si and C sinking fluxes and spatial patterns of opal accumulation in oceanic systems with different temperature regimes.

Biography: Bidle received his Ph.D. in 2001 from the Scripps Institution of Oceanography, where he examined interactions between marine bacteria and diatoms; a class of eukaryotic phytoplankton that often dominates oceanic primary productivity.

Bidle is currently an assistant research professor at the Institute of Marine and Coastal Sciences, Rutgers University. His research interests include microbial ecology, phytoplankton physiology and mortality, molecular evolution and ecology, biogeochemistry, ecosystem processes, and the structure and function of microbial food webs. He is specifically interested in linking key biogeochemical processes to molecular diversity, including factors that shape the

availability and relative coupling of phytoplankton to the microbial loop. Current investigations use molecular biology and biochemistry to elucidate cellular responses of phytoplankton to physiological stress or viral infection, leading to massive mortality, and to assess the molecular and biochemical diversity of bacterial ectohydrolytic enzymes.

**Plenary Address: Interactions Between Aquatic
Ecosystems and the Atmosphere: From Contaminants
to Biogeochemical Cycles**

Jordi Dachs, Institute of Chemical
and Environmental Research, Spain

Wednesday, 22 June 2005, 09:30 – 10:10
Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: Atmosphere-ocean interactions and especially the exchanges of matter through the air-water interface are important mechanisms with implications on the cycling of pollutants, nutrients and other trace elements. The importance of these atmosphere-ocean exchanges is especially important for the fate, transport and cycling of organic compounds. In addition to the role of the ocean as a source of autochthonous volatile biogenic compounds, the ocean can act as an ultimate sink of anthropogenic and allochthonous biogenic organic compounds. Work realized in diverse limnic and marine ecosystems shows, for example, that atmospheric inputs dominate and control the levels and dynamics of persistent organic pollutants in the water column and in the aquatic food web. Evidence has been shown of a strong coupling and cycling of organic pollutants between the surface ocean and the lower atmosphere. Furthermore, quantification of atmospheric inputs for individual organic compounds at local, regional and global scales show that diffusive air-water exchange fluxes are at least one order of magnitude higher than wet and dry aerosol atmospheric inputs. Surprisingly, most of these estimates have only been obtained for few individual organic compounds, but have neither been measured nor calculated previously for the bulk of atmospheric organic matter. In fact, the atmospheric budget of organic carbon is so poorly constrained that even an inventory of total atmospheric organic carbon is lacking. Recent research work will be shown that suggests the occurrence of high diffusive atmosphere-ocean exchanges of total organic carbon with a strong air-water coupling of concentrations consistent with our knowledge for individual organic compounds. Implications for oceanic and atmospheric carbon budgets will be drawn.

Biography: Dachs received his B.S. in Chemical Engineering by the Polytechnical University of Catalonia (1992). He received his Ph.D. in Marine Sciences by the Polytechnical University of Catalonia in 1999, and his Postdoctoral Research Associate at the Department of Environmental Sciences of Rutgers University in 2000. Since 2000, Dachs has been a research scientist at the Department of Environmental Chemistry of the Spanish Research Council (CSIC). Currently he is on sabbatical leave at the Department of Earth and Planetary Sciences, Harvard University.

Dachs' research interests are in the field environmental geochemistry of organic compounds and have focused mainly on the biogeochemical cycles of persistent organic pollutants and other semivolatile compounds. He has contributed to the understanding of the air-water cycling and coupling of organic compounds at local, regional and global scales and the understanding of the influence of water column biogeochemical processes on the atmospheric deposition of organic compounds. Recent work has focused on the

quantification of the atmosphere-ocean exchanges of total organic carbon and their role on the carbon cycle.

Recipient of the Alfred C. Redfield Achievement Award Talk: Evolution of the Role of Optics in Aquatic Research (Oceanography and Limnology)

Andre Y. Morel, Universite Pierre et Marie Curie, France

Thursday, 23 June 2005, 09:00 – 09:30
Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: "Optical Oceanography [...] is generally considered as a special branch of Oceanography, [...] the subject is chiefly physical" (N. Jerlov, Introduction to his book). For a long period, ocean optics, like atmospheric optics, has evolved as an application of physics to the study of the environment, forming a specific (sometimes rather isolated) part of physical oceanography. During the last 40 years, the considerable expansion of optics of natural waters was mainly triggered by the demand expressed by biologists, even if some aspects (often of military interest, such as submarine visibility and communication, for instance) remained essentially of physical nature. A citation of a sentence written by J.T.O. Kirk in the preface of his book can shed light on the interaction between biologists and opticians: "This book is a study of light in underwater environment from the point of view of photosynthesis. It sets out to bring together the physics of light transmission through the medium, and capture by plants...". This aim was also the *raison d'être* of the SCOR-UNESCO Working Group 15 (on photosynthetic radiant energy in the sea), set up in the early 60s, and chaired by J.E. Tyler.

Transmission of radiant energy requires the determination of AOP (apparent optical properties *sensu* Preisendoerfer, like diffuse attenuation and reflectance); capture of energy requires the knowledge of IOP (inherent optical properties, like absorption and scattering, absorption by a phytoplanktonic cell). IOP and AOP are related through the Radioactive Transfer Equation. This equation has, during the recent past, required a large amount of theoretical work to be numerically solved in the direct way (IOP toward AOP), or as an inverse problem (AOP toward IOP, and then towards optically active components).

The role of optical tools has increased thanks to the improved interpretation of the optical signals in terms of biologically significant parameters (including at the level of unicellular organisms), and to the development of the adequate instrumentation, as already pointed out in 1984, by C.M. Yentsch and C.S Yentsch, ("Emergence of optical instrumentation for measuring biological properties" *Oceanogr. Mar. Biol. Ann. Rev.*). Optical parameters, however, are generally "proxies" for biological entities (e.g. light scattering as indicator of cell size in cytometry), so that it was necessary to study the significance of the measured quantities to warrant a correct and useful interpretation. Despite some limitations, the definite advantages of optical techniques stem from their non-intrusive nature, and from the possibility offered for continuous vertical profiling, and long term monitoring (moorings, gliders.). The culmination of optical techniques was the introduction of satellite-borne sensors and the sensing from space of the sea spectral reflectance (SSR or Ocean Color). This introduction, twenty years ago, has motivated many of the bio-optical studies in the last decades. Among other motivations, desirable improvement in the use and interpretation of the SSR signal will continue to energize the present, biogeochemistry oriented, optical research.

Biography: Morel began his career as an officer serving in the French Navy from 1958-1961. After leaving the Navy, he began work at the University Pierre et Marie Curie (Paris). He advanced from assistant professor to Professor "de Classe Exceptionnelle", between 1962-1990. While working at the University Pierre et Marie Curie, he also directed the Laboratory of Physical and Marine Chemistry (1982-1994) and the Observatory of Oceanology (in Villefranche-sur-mer) (1983-1990).

He has made major research accomplishments in the fields of optical properties of oceanic waters and living organisms, primary productivity, ocean and atmospheric radiation, and ocean color data processing.

Morel has held numerous prestigious international positions, which include: past member of the SCOR WG 15 and 70, and past member of ESA Ocean Color Group (1983-1992). Beginning in 1975, he served over 20 years with The International Association for the Physical Sciences of the Oceans (IAPSO) as a leader of committees, working groups and the association itself. More recently, he has participated in the SeaWiFS and SIMBIOS (NASA) science team, and in European Space Agency sponsored advisory groups and scientific committees, and as a member of the International Ocean Color Coordinating Group (1997-present).

Prior to his recognition as ASLO's 2005 recipient of the Alfred C. Redfield Lifetime Achievement Award, Morel has been honored with awards by the Remote Sensing Society (1990), Prix Binoux de l'Académie des Sciences (1990), and The Oceanographic Society (2000), and has received the Prince de Monaco Medal (2003).

Plenary Address: Limnology and Oceanography Through the Eyes of Ramon Margalef: The Legacy of a Visionary

David W. Schindler, University of Alberta, Canada

Thursday, 23 June 2005, 09:30 – 10:10
Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: For almost six decades, Ramon Margalef remained at the cutting edge of limnology, oceanography and ecology, authoring over 300 papers and several books in all three fields. His broad knowledge included microbial biology, phytoplankton, zooplankton, community and ecosystem ecology. In contrast to the simplified approaches of other early ecosystem ecologists, Margalef believed that no details of community or ecosystem interactions should be ignored. He was one of the first to apply cybernetics and information theory to ecology. His expertise as a naturalist allowed him to use ecological examples, rather than those stolen from other disciplines, to make his points. Margalef's clearly written little book, *Perspectives in Ecological Theory*, introduced students of my generation to the key concepts in ecology. In a review of the book for *Nature*, Ed Deevey termed Margalef "The Sage of Barcelona." Margalef always had time for students and younger scientists, including those from other countries. His whimsical sense of humor made science fun, and the fun was contagious. He directed over 50 doctoral students, who now practice limnology all over the world.

Biography: Dr. David W. Schindler is the Killam Memorial Professor of Ecology at the University of Alberta, Edmonton. From 1968 to 1989, he founded and directed the Experimental Lakes Project near Kenora, Ontario, conducting experiments on whole ecosystems to directly test the effects of nutrient inputs, acid rain, climate change and other human insults. His work on eutrophication and acid rain

has been widely used in formulating ecological management policy in Canada, the USA, and in Europe.

Dr. Schindler received his doctorate from Oxford University, where he studied as a Rhodes Scholar. He has served as President of the American Society of Limnology and Oceanography, and as a Canadian National Representative to the International Limnological Society. He is the author of over 260 scientific publications.

Dr. Schindler has received numerous national and international research awards, including the G.E. Hutchinson Medal of the American Society of Limnology and Oceanography (1985), the Naumann-Thienemann Medal of the International Limnological Society (1988), the first Stockholm Water Prize (1991), the Volvo International Environment Prize (1998), the Queen's Jubilee Medal (2003), and the 2003 Killam Prize for Natural Sciences. In 2001, he was awarded Canada's highest scientific honor, the NSERC Gerhard Herzberg Gold Medal for Science and Engineering. He is a Fellow of the Royal Society of Canada, the Royal Society of London (UK), the Royal Swedish Academy of Engineering Sciences, and a member of the U. S. National Academy of Sciences. He has received eight honorary doctorates from Canadian and US universities. In January 2004, he was appointed an Officer in the Order of Canada.

Plenary Address: Within the Black Box: Species-Explicit Interactions in Aquatic Systems

Thomas Kiørboe, Danish Institute for Fisheries Research, Denmark

Friday, 24 June 2005, 09:00 – 9:40

Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Presentation: Biological processes and interactions in the ocean occur at the level of the individual and between individuals, not between populations, species or trophic levels. Kiørboe will aim at demonstrating how insights in the behavior of individual plankters may help us understand the dynamics of plankton populations and the structure and functioning of pelagic food webs. He will illustrate this point by telling the two very different stories of (1) how the vertical material flux in the ocean is governed by the formation and turnover of marine snow aggregates that, in turn, depend on small-scale physics (coagulation) and the behavior of microbes and small zooplankters, and (2) how the abundance, dynamics and structure of copepod populations are governed by the mating behavior and inefficiency of mate finding in pelagic copepods. Mechanistic insights in the component processes will allow us to extrapolate to scenarios other than those examined and to describe (model) the larger scale features (abundances, distributions, fluxes, etc.) in a way that maximizes the predictive power.

Biography: Kiørboe began his career in 1973, as a student instructor at the Institute of Biochemistry and Zoological Laboratory at the University of Copenhagen. He left in 1977, to complete one year of mandatory civil service. He returned to teaching in 1978 and, in 1979, he became a teaching assistant at Roskilde University Center until 1982. In parallel with this position, Kiørboe served as a research scientist, Marine Biological Laboratory, University of Copenhagen.

In 1982, he assumed the position of associate professor in the Institute of Life Science and Chemistry, at Roskilde University Center. Kiørboe joined the Danish Institute for Fisheries Research in 1983, as a research scientist and, in 1992, advanced to the

position of senior research scientist. During his tenure as a research scientist, he served as DANIDA advisor at Phuket Marine Biology Center, Thailand, from 1990-1991.

In 1994, Kiørboe was promoted to professor at the Danish Institute for Fisheries Research, a position that he currently holds. While in this position, he has spent most of his time as an external lecturer and presently teaches Biological Oceanography at the University of Southern Denmark. His research interests lie in the areas of biological oceanography and ecological physiology of planktonic organisms. He has participated in or led more than 20 sea-going cruises with Danish and foreign research vessels.

Kiørboe is co-editor or member of the editorial boards of five international journals, a member of more than 20 Ph.D. committees and has published over 130 papers. His honors include: Member of the Royal Danish Society of Science and Letters, Member of the Danish Academy of Natural Sciences and is listed as "Highly Cited Author" by ISI.

Kiørboe earned his Masters of Science in Biology in 1977, Ph.D. in 1982, and Doctor Scient, in 1988, all from the University of Copenhagen.

The Scientific Program

The scientific program for the ASLO 2005 Summer Meeting will include plenary lectures and special and regular sessions for oral and poster presentations. The scientific program will have a new format while in Spain. On Monday, the plenary address will be followed by a coffee break to encourage conversation and connections among scientists. However, Tuesday through Thursday, the program will open with the award recipient talk and plenary address followed by three different poster sessions (one each day) and coffee service. Concurrent sessions will follow the rest of the day. Friday, the last day of the meeting, the day will open with a plenary address, followed by coffee service and concurrent sessions for the remainder of the day.

Special sessions have been proposed by ASLO members to direct attention to specific subject areas. The organizing committee also has created regular session titles to be more inclusive of the full scope of aquatic sciences as well as topic clusters. Please continue to check the conference web site (<http://www.aslo.org/santiago2005>) for up-to-date information.

Abstracts of papers presented during the ASLO 2005 Summer Meeting will be published in the conference abstract book that will be handed out at the conference. Abstracts are currently available



Photo by Carlos M. Duarte.

on the conference web site for viewing and will be archived on the ASLO web site following the meeting.

About Santiago de Compostela

Following the success of the 2000 Copenhagen Meeting, ASLO is holding its second meeting in Europe in 2005. The venue of this meeting is Santiago de Compostela (NW Spain). Spain is a country with a 3000-year history and at the same time is new, dynamic, modern, and culturally open to the rest of the world. Loyal to its Mediterranean and European roots, Spain also is linked to the American continent, and owing to its maritime traditions, has received visits of other peoples to its shores throughout its history.

Santiago de Compostela is a small town with spectacular monuments, which has merited a place in European history as a site of intense pilgrimage to the burial place of the apostle St. James (Santiago in Spanish) since medieval times. As the German writer Goethe put it, the concept of Europe developed along the pilgrimage to Santiago. In order to cater to the spectacular multitudes crossing the Pyrenees on the road to Santiago, it was essential to design and develop a network of churches, hospitals, bridges, hotels, and even changes in the law in order to aid and foster the rights of the pilgrims. Hence, the "camino" or trail of Santiago was born, featuring innumerable historic monuments, significant works of art built in memory to the Apostle, and as testimony to the profound significance of the pilgrimage. The city of Santiago developed, therefore, as a place to gather, resulting in a stony miracle conforming, as one of the great medieval cities in Europe, one of the most splendid and harmonic architectural ensembles in the world.

The Santiago of today has managed to maintain the synthesis of the Romanesque and Baroque architectural styles that reflect the very essence of their peoples so well. Simultaneously, Santiago has grown into a wonderful, modern city with an active, five century-old university with about 35,000 students, that boast the necessary infrastructure and services that make it an important meeting and conference centre in every way. The city was designated World Heritage of Mankind by the UNESCO in 1984, and was designated as European City of Culture of the Year 2000. For more details on Santiago de Compostela, visit <http://www.santiagoturismo.com/>. Santiago de Compostela is the capital of Galicia, a region of Celtic heritage, fishermen tradition, and a contrast between a unique blend of green gentle rural landscapes and a dramatic coastline, including some of the most productive systems (Rías) in the world.

The Camino de Santiago still flows with pilgrims, accommodating every pilgrim from those seeking the spirituality of the experience to hiking - or cycling! - loving tourists enjoying the ever-changing landscape and cuisine, and Spanish hospitality in a more than alternative holiday. We invite you to learn more about pilgrimage through the Camino de Santiago at the always excellent web page: <http://www.xacobeo.es/>. To these pilgrims, ASLO will add in the summer of 2005 a large gathering of aquatic scientists. As scientific conferences have been equated with a medieval pilgrimage, what more natural than to choose a pilgrimage venue as the site for a truly scientific pilgrimage!

About the Conference Meeting Site

This meeting has been carefully planned to provide an appropriate atmosphere and numerous opportunities to interact with colleagues and friends. Plenary sessions, exhibits, and all of the oral and poster sessions will take place at two venues, the Palacio de Congresos y

Exposiciones de Galicia and the Puerta del Camino, a hotel adjacent to the conference centre. Since opening in 1995, the Palacio de Congresos y Exposiciones de Galicia has become a national and international reference point in the conference centre sector.

Conference Committee

Co-Chairs

Carlos M. Duarte
Instituto Mediterraneo de Estudios Avanzados, CSIC-UIB
carlosduarte@imedea.uib.es

Emilio Fernández
Universidad de Vigo
esuarez@uvigo.es

Organizing Committee

Ken Furuya
University of Tokyo
furuya@fs.a.u-tokyo.ac.jp

Marianne Holmer
University of Southern Denmark
holmer@biology.sdu.dk

George A. Jackson
Texas A&M University
gjackson@tamu.edu

Louis Legendre
CNRS
legendre@obs-vlfr.fr

Michael L. Pace
Institute of Ecosystem Studies
PaceM@ecostudies.org

Dolors Planas
University de Quebec A Montreal
Planas.Dolores@uqam.ca

Carol Robinson
Plymouth Marine Laboratory
Carol.robinson@pml.ac.uk

Sybil P. Seitzinger
Rutgers University
sybil@imcs.rutgers.edu

Morten Søndergaard
University of Copenhagen
msondergaard@zi.ku.dk

Doris B. Soto
Instituto de Acuicultura
dsoto@uach.cl

Colin Stedmon
National Environmental Research Institute, Denmark
cst@dmu.dk

Helen Schneider Lemay
Business Manager, ASLO Business Office
business@aslo.org

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Lucille Doucette, Journals Manager
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Old Dominion University

Paul Kemp, Web Editor and Editor, *L&O: Methods*
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Helen Schneider Lemay, Business Manager
sg Meeting & Marketing Services

Mark Your Calendar

2006 ASLO-AGU-TOS Ocean Sciences Meeting

February 20-24, 2006
Honolulu, Hawaii

ASLO 2006 Summer Meeting

June 4-9, 2006
Victoria, British Columbia, Canada

ASLO 2007 Aquatic Sciences Meeting

February 4-9, 2007
Santa Fe, New Mexico

For more information on the ASLO 2005 Summer Meeting or future ASLO meetings, please contact:

Helen Schneider Lemay
Registration Coordinator and Meeting Manager
ASLO Business Office
5400 Bosque Boulevard, Suite 680
Waco, Texas 76710-4446, USA
Phone: Toll-Free: +1-800-929-ASLO (U.S., Canada,
and Caribbean) +1-254-399-9635 (All other countries)
Fax: +1-254-776-3767
E-mail: business@aslo.org

Commercial and Nonprofit Exhibits and Additional Sponsorship Opportunities

An exhibit area will be set up in the Palacio de Congresos y Exposiciones de Galicia. The exhibit area will be open Tuesday-Thursday, from 09:00 to 20:00.

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www.alec-electronics.co.jp

bbe Moldaenke GmbH
Dr. Detlev Lohse
Wildrosenweg 3
Kronshagen 24119 Germany
+49-431-380400 Voice, +49-431-3804010 Fax
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Fiz F. Perez
Inst. Investigaciones Marinas, Eduardo Cabello 6
Vigo E36208 Spain
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 258 Cross Point Road
 Edgecomb, ME 04556
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 London WC1X 8RR United Kingdom
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 Lars H. Larsen
 Science Park, Gustav Wiedes Vej 10
 Aarhus C DK-8000 Denmark
 +45 86205179 Voice, +45 86205298 Fax
 www.unisense.com

Universidade de Santiago de Compostela
 J. Luis Villaverde
 Edificio CACTUS – CITT Campus Sur
 Santiago de Compostela 15782 Spain
 34-981 54 70 50 Voice, 34-981 54 70 77 Fax
 imaisd.usc.es

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 610 Applegate St
 Philomath, OR 97370
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 www.wetlabs.com

Special Opportunities and Information for Students

For up-to-date information on all planned student events, housing recommendations, room sharing opportunities, and the Career Link Program, please check the conference section of the ASLO web site at <http://www.aslo.org> and click on Student Information.

ASLO Student/DIALOG Mixer Reception

Date: Monday, 20 June 2005
 Time: 14:00 – 15:15
 Room: Palacio de Congresos - Obradoiro Hall, Break-out #3

Let's socialize! This is an opportunity for undergraduate/graduate students, recent graduates and former DIALOG symposium participants to mix and mingle in a relaxed atmosphere. There will be brief presentations to describe the DIALOG program (see <http://aslo.org/phd.html>) and introduce peers and near-peers with professional and collegial experience that might be of interest to you. The emphasis, however, will be on giving you all a chance to interact with one another to discuss your experiences, ask questions, and gain colleagues. Collectively, the group will span disciplines, career/educational levels, and interests...all within the same general age range! Refreshments will be available. Please come and enjoy!

ASLO Student Forums

Date: Tuesday, 21 June 2005
 Time: 13:45 – 15:00
 Rooms: Palacio de Congresos Rooms: 8/9 (Break-out Room #4), 10 (Break-out Room #5), 13/14 (Break-out Room #6), 15/16 (Break-out Room #7), 23/25 (Break-out Room #8)

Due to the success at the last meeting, ASLO Student Forums will be taking place again at the ASLO 2005 Summer Meeting. Five established ASLO scientists have agreed to chair separate discussion groups for students to discuss recent developments, their own research and future perspectives. The discussion forums will act as an "ice-breaker" for students who may otherwise not approach more senior/established researchers during ASLO conferences. The emphasis should be on the informal nature of the forums, and participation of all parties in the discussion is highly

encouraged. The Student Forums will take place on Tuesday during the lunch break and a light lunch will be provided. More information will be provided at a later date.

Outstanding Student Poster Awards

ASLO will present several awards for the most outstanding posters presented by student members. Posters in all areas of aquatic science are appropriate, including theory, modeling, and laboratory or field experimentation. To be eligible, the student must be an ASLO member and first author on research that has not been presented previously at ASLO or other scientific meetings. Presentations will be judged on the basis of innovation/scientific insight, quality of experimental design/methods, and clarity/effectiveness of presentation. All posters submitted by student members will be considered for the student poster awards. There is no need to apply.

Student posters will be judged during the poster sessions. Posters that are not in place by the start of the session will not be eligible for awards and will not be judged.

Career Link Program

Prospective employers and supervisors are invited to post job announcements free of charge at the conference. Positions advertised on the ASLO web site will be printed out and posted. In addition, advertisements can be sent to Letise Houser at lhouser@udel.edu, who will ensure they are posted for viewing during the meeting. Likewise, students are invited to post one-page resumes for viewing. Electronic versions of ads and resumes will be distributed free of charge after the meeting. These can be faxed to: +1-254-776-3767. To learn more about the Career Link Program, please go to the following page on the ASLO web site: <http://www.aslo.org/career/careerlink.html>.

Volunteers Needed for Poster Judging

Post docs and professionals who are members of ASLO are invited to serve as poster judges. Each judge will be responsible for evaluating up to 10 posters on one of the three individual poster session days: Tuesday, Wednesday or Thursday. Please indicate your area of expertise and interest in serving as a volunteer by sending an e-mail to: Colin Stedmon at cst@dmu.dk.

Roommates Wanted

Roommates Wanted is a free online service to those who are seeking roommates during ASLO's meetings. To participate, visit ASLO's web site at <http://www.aslo.org/meetings/roommates.html>.

Conference Events

Registration

Dates: Sunday, 19 June 2005: 16:00 – 21:00
 Monday, 20 June 2005: 08:00 – 18:00
 Tuesday, 21 June 2005 through Thursday, 23 June 2005: 08:00 – 19:00
 Friday, 24 June 2005: 08:00 – 14:00
 Location: Palacio de Congresos y Exposiciones de Galicia

Presidential Science Address

Date: Sunday, 19 June 2005
 Time: 18:00 - 18:45
 Location: Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Eulogy to Dr. Robert Wetzel

Date: Sunday, 19 June 2005
 Time: 18:45 – 19:00
 Location: Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Opening Welcome Mixer Reception

Date: Sunday, 19 June 2005
 Time: 19:00 – 21:00
 Location: Main Foyer Areas - Palacio de Congresos y Exposiciones de Galicia

An opening welcome mixer reception will be held on Sunday, 19 June, at the Palacio de Congresos y Exposiciones de Galicia. In addition to the reception, the conference registration area will be open so you can check-in for the meeting at this time.

Conference Opening Ceremony

Date: Monday, 20 June 2005
 Time: 09:30 – 10:15
 Location: Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Plenary Addresses and Award Talks

Dates: Tuesday, 21 June - Thursday, 23 June 2005, 09:00 – 10:10, and Friday, 24 June 2005, 09:00 – 09:40
 Location: Santiago Hall - Palacio de Congresos y Exposiciones de Galicia

Extended coffee breaks will follow each plenary session. ASLO award recipient talks and plenary addresses are planned Tuesday through Thursday, and following the presentations will be the Poster Sessions and Exhibits coffee service. On Friday, the plenary address will be followed by a coffee service to allow attendees to discuss the points of the address further.

Poster Sessions I, II, and III

Date: Tuesday, 21 June 2005 through Thursday, 23 June 2005
 Time: 10:10 – 12:10
 Location: Palacio de Congresos y Exposiciones de Galicia

Poster sessions will take place in the Palacio de Congresos y Exposiciones de Galicia throughout the week after the Plenary Addresses each morning and will include coffee service.

Receptions

Date: Tuesday, 21 June 2005 through Thursday, 23 June 2005
 Time: 19:30 – 20:30
 Location: Palacio de Congresos y Exposiciones de Galicia

Scientific Committee on Oceanographic Research (SCOR) Working Group 126 on Role of Viruses in Marine Ecosystems Kick-Off Meeting

Date: Monday, 20 June 2005
 Time: 3:45 – 15:00
 Location: Palacio de Congresos – Room #15/16, Break-out Room #7

SCOR is the leading non-governmental organization for the promotion and coordination of international oceanographic activities. SCOR science activities focus on promoting international cooperation in planning and conducting oceanographic research, and solving methodological and conceptual problems that hinder research. Among the planned tasks in WG 126 are:

- Coordinate data collection to assess the role of viruses in different water masses.
- Assess the methodological limitations of the techniques available for quantifying the virus-mediated mortality of microorganisms (eukaryotes and prokaryotes) and their impact on carbon and nutrient cycling, and make recommendations for the best available approaches to study viruses and viral processes in the sea.
- Establish and maintain a Web site as a forum that can be used by the "viral community" for exchange of data and ideas and future plans.
- Write a "definitive" textbook on Methods in Marine Virology.

It is the aim of the aim of the kick-off meeting to start planning and organizing these tasks in more detail.

ASLO-SIL Discussion on Future Cooperation

Date: Tuesday, 21 June 2005
 Time: 14:00 – 15:00
 Location: Palacio de Congresos – Obradoiro Hall,
 Break-out Room #3

The American Society of Limnology and Oceanography (ASLO) and the International Society for Theoretical and Applied Limnology (SIL) have much in common. They are the two largest scientific societies in the world with a major interest in the study of inland waters. While the missions, compositions and governance of these two societies are quite different; much good could come from some greater synergism and coordination between these two societies and with other regional societies. This meeting is designed to explore the areas of intersection between SIL, ASLO and other limnological societies (for example, the Brazilian Limnological Society, the Canadian Limnological Society, etc.) to see what we can do collectively that would benefit limnological science and the condition of inland waters.

The Gordon and Betty Moore Foundation Town Hall Meeting

Date: Wednesday, 22 June 2005
 Time: 14:00 – 15:00
 Location: Palacio de Congresos – Room #8/9,
 Break-out Room #4

The Gordon and Betty Moore Foundation (GBMF, www.moore.org) is a non-profit organization that has recently launched a 10 year/\$145M initiative in marine microbiology. There are four components to the initiative; single investigator awards, high impact science, interdisciplinary research, and undergraduate research fellows. Though GBMF does not accept unsolicited proposals, we are soliciting community input for our high impact research activities. Community input at the Ocean Research Conference held in February 2004, resulted in the Marine Microbial Genome Sequencing Project (www.moore.org/microgenome). We are open to suggestions for similar, large-scale

activities of direct benefit to the marine microbiological community. All are welcome to attend. A light lunch will be served. Please contact Lita Proctor via e-mail at Lita.Proctor@moore.org for more information on this town hall session.

Additional Conference Events and Organized Activities

One Day Tour (Sunday, 19 June 2005)

Spend the day on a guided tour to the westernmost coastal region of continental Europe: Costa da Morte (Noia-Muros-Carnota-Finisterre). You will have an opportunity to visit several medieval Fisher villages on the Costa da Morte - Coast of Death – also called Finisterre- Finis terrae - where the world finishes. Price per person is €32 EUR (approx. \$40 USD, lunch not included).

The price is based on a group of 20 persons minimum and includes VAT. The field trip may be cancelled up to three days prior to the tour. Contact the ASLO Business Office at business@aslo.org by 19 May 2005, if you are interested in attending.

Cathedral Services

Date: Monday, 20 June 2005
 Time: 19:30
 Location: Romanesque Cathedral Cathedral Services

Service at the Romanesque Cathedral with incense "Botafumeiro," and accompaniment of a pipe-organist will be performing for the duration of the visit. Admission is free of charge to participants. Buses will begin boarding at 19:00 in front of the conference centre.

Please check the conference web site: <http://www.aslo.org/santiago2005> or call the ASLO Business Office: +1-800-929-ASLO (U.S., Canada, and Caribbean) or +1-254-399-9635 (All other countries) for up-to-date information.

Instructions for Poster Presenters, Oral Presenters, and Session Chairs

Abstracts

Abstracts for this meeting will be posted and archived on the ASLO Web site (<http://www.aslo.org>), and a complete book of abstracts will be distributed to registered attendees at the meeting.

Poster Presentations

Posters will be on display in the Palacio de Congresos y Exposiciones de Galicia on Tuesday, Wednesday, and Thursday from 09:00 until 21:00. To emphasize the topical directions of the poster presentations, the poster area will be organized by clusters. Authors have been notified with an assigned poster presentation and discussion date and should be available for discussion purposes during their specified date and time. Poster Sessions I, II, and III will be held Tuesday, 21 June through Thursday, 23 June 2005, from 10:10 to 12:10. In addition, participants may view posters throughout the day, as well as during the evening receptions, Tuesday, 21 June through Thursday, 23 June 2005, from 19:30 to 20:30.

Posters will be numbered and all poster presenters were notified of their poster number in advance of the meeting. If you did not receive such notification, please contact the conference management office at business@aslo.org or call 800-929-2756 or 254-399-9635.

Poster space will be 4 ft. by 4 ft. (1.16m by 1.16m) in size. Size requirements must be strictly adhered to so they fit within the space assigned to them.

Due to space limitations, it is very important that poster presenters adhere to the designated set-up and tear-down instructions and times. Poster Session I (Tuesday) will set-up on Monday, 20 June 2005, from 13:45 to 18:30, in the Palacio de Congresos y Exposiciones de Galicia. You will set-up your poster according to your assigned number on the poster boards. All Tuesday poster presentations will need to be dismantled on Tuesday evening, 21 June 2005, beginning at 20:30.

If you are scheduled to present in Poster Session II (Wednesday) or III (Thursday), set-up will take place each morning from 08:00 to 09:00. All poster presentations scheduled for each day will need to be dismantled that evening beginning at 20:30. Posters will be displayed all day for participants to view, but will be removed in order to accommodate poster presentations scheduled to take place the next day.

Oral Presentations

Concurrent sessions will take place at Palacio de Congresos y Exposiciones de Galicia and Puerta del Camino Hotel. With the exception of tutorials, oral presentations will be a total of 15 minutes in length, including set-up, questions, and discussion. Please plan to allow at least two minutes for questions and discussion time. Session chairs have been instructed to strictly adhere to the schedule so that participants may move quickly among the concurrent session locations. If a presentation should be cancelled for any reason, this time will be used for additional discussion or a stretch break.

Presenters will not be allowed to provide their own laptop computer and personal laptop computers cannot be plugged into projectors in oral session rooms.

Further details for uploading presentations will be provided on the conference web site and sent to participants via email.

Additional Presentation Guidelines

Keep animations to a minimum. When using a bulleted list of points, it may be useful to have the points appear.

All presentations will be deleted at the end of the day. All copies will be deleted at the end of the meeting.

If you plan to do a PowerPoint presentation, it is highly recommended that you have a backup of your presentation in the form of overhead transparencies.

All oral session rooms will be equipped with the following audio-visual equipment:

- 1 computer projector (PowerPoint)
- 1 PC computer
- 1 screen
- 1 laser pointer
- 1 timer
- 1 lavalier microphone

Internet connectivity is not available in oral session rooms.

Rental of additional audio-visual equipment

Rental of a VCR, 35 mm slide projector, monitor, audio systems, provision of extra power outlets, extra tables, stands, etc. can be handled for an additional cost. If you did not request extra equipment at the time your abstract was submitted, please contact Manuel Montes from Desarrollanet the audio visual company via telephone, +34 986 902 818, fax, +34 986 224 818, or e-mail, mmontes@desarrollanet.com.

Any costs for additional equipment will be billed to the abstract's presenting author.

For audio-visual related questions, please contact:

Manuel Montes
Desarrollanet
Serafn Avendao, 18 Oficina 14
Vigo 36201, Spain
Telephone: +34 986 902 818
Fax: +34 986 224 818
E-mail: mmontes@desarrollanet.com

Speaker Ready Room

A speaker ready room will be located in Room #22 of Palacio de Congresos y Exposiciones de Galicia for presenters to preview their materials and run-through their presentations. The speaker ready room will be open from 14:00 to 21:00 on Sunday; 08:00 to 19:00 on Monday, Tuesday, Wednesday, and Thursday; 08:00 to 15:30 on Friday.

Printing Service / Copy Center in Santiago de Compostela

Torculo, a copy center and printing service, located in Santiago de Compostela, offers a multitude of copying and printing services from personalize copying to big format finishing (i.e. Posters). Torculo is located at Poligono Industrial de Tambre, Via Edison 33-35, CP 15890 and is approximately 5 minutes by from the Palacio de Congresos y Exposiciones de Galicia. Please view Torculo's web site at the following address www.torculo.com for more information regarding their services.

Torculo Business Hours of Operation: Monday through Friday from 09:00 – 12:00 and 16:00 – 19:00

Form of Payment: Mastercard or Visa accepted

You may contact them via telephone by calling 981 95 83 20; by faxing 981 57 56 93 or by e-mailing a Torculo representative, Adriana, at clients@torculo.com or torculo@torculo.com.

Registration Information

Online registration is preferred and highly recommended. You can register electronically on the conference web site (<http://www.aslo.org/santiago2005>). Electronic registrations must include complete credit card information.

Every attempt has been made to allow secure transmissions of your credit card information and transaction, but ASLO assumes no liability for your credit card information when it is released electronically. All credit card transactions will be processed through the conference web site. Transactions are protected and encrypted using a secure socket layer (SSL) certificate provided by Verisign, Inc. SSL technology is the industry-standard method for protecting web communications. The SSL security protocol provides data

encryption, server authentication, message integrity, and optional client authentication for a TCP/IP (internet) connection. Credit card verification and debit services will be provided by Authorize.net, a leading provider of Internet-based transaction services with thousands of online and traditional business customers around the world.

If registration by electronic means is not possible, please complete the registration form included in this book and send to the address listed below with payment or charge card information. Please return mailed-in registrations to:

ASLO 2005 Summer Meeting
ASLO Business Office
5400 Bosque Boulevard, Suite 680
Waco, Texas 76710-4446, USA

Please make checks payable to: ASLO. All payments must be in U.S. dollars drawn on a U.S. bank.

Registrations complete with purchase order or credit card information can be faxed to: 1-254-776-3767.

The full registration fee includes admission to all oral and poster sessions, exhibits, evening workshops (unless otherwise specified), receptions, coffee breaks, book of abstracts, and the program book. Optional events such as any special organized activities, field trips, and workshops are not included.

Substantial savings apply if the payment and registration form are received on or before 20 May 2005.

Substitutions or Cancellations

We understand that occasionally other responsibilities and personal obligations prevent you from attending a program for which you have registered. If you find you will not be able to attend the ASLO meeting, we encourage you to send a substitute. Substitutions can be made at any time, even on-site at the conference.

If you find it necessary to cancel after you have already paid, we can refund your conference fee (less an \$80 USD processing fee) if we receive notice in writing on or before 20 May 2005. Due to the limited number of enrollments available, registrants who cancel on or after 20 May 2005, will be not be eligible for any part of a refund.

To provide cancellation notice and request a refund, please send a letter to:

Helen Schneider Lemay
ASLO 2005 Summer Meeting
ASLO Business Office
5400 Bosque Boulevard, Suite 680
Waco, Texas 76710-4446, USA

Fax your request to 1-254-776-3767 or send via e-mail to business@aslo.org.

Registration Fees

Fees are stated in U.S. dollars and must be paid in U.S. dollars.

In order to register as an ASLO member, you must be a current member of ASLO at the time you register. Registration fee refunds will not be issued to those who register as a non-member and then later join the society. We encourage membership in ASLO.

Attendees who join ASLO at the time of registration will be allowed to register for the meeting at the ASLO member rate and maintain their membership through the 2005 membership year.

- ASLO Members: \$350.00 USD on or before 20 May 2005 (\$410.00 USD after 20 May 2005)
- Non-members: \$450.00 USD on or before 20 May 2005 (\$510.00 USD after 20 May 2005)
- ASLO Student Members: \$250.00 USD on or before 20 May 2005 (\$310.00 USD after 20 May 2005)
- Non-Member Students: \$350.00 USD on or before 20 May 2005 (\$410.00 USD after 20 May 2005)
- One-day registrations: \$200.00 USD on or before 20 May 2005 (\$260.00 USD after 20 May 2005)
- Spouse/Guest: \$100.00 USD on or before 20 May 2005 (\$160.00 USD after 20 May 2005)

Spouse and guest fees cover only the conference social events, such as receptions and coffee services. Optional events are not included. However, spouses and guests are encouraged to register and attend these special activities. Spouses and guests cannot be admitted to the sessions without paying the appropriate full registration fee.

- A late fee of \$60.00 USD will be added to all registrations received after 20 May 2005.

Fees to attend the ASLO 2005 Summer Meeting must be paid in advance. Registrations are not considered guaranteed until a check, money order, purchase order, or charge card information is received. All fax registrations must include complete credit card information, including number, expiration date, and cardholder name. VISA, MasterCard, and American Express are accepted. Organizations can be billed only if a purchase order accompanies the registration either by fax or by mail.

Registration and any other fees listed on the conference registration form are payable in U. S. currency only.

Confirmation will be sent to attendees upon receipt of each completed and paid registration.

Conference Check-In and Registration

Registration prior to the meeting is strongly encouraged. By doing so, you will greatly reduce the amount of time necessary to complete the on-site registration process and pick up your meeting materials.

Meeting materials and name badges can be picked up on Sunday, 19 June 2005, at the Palacio de Congresos y Exposiciones de Galicia from 16:00 to 21:00. Registration will be opened each day at the conference centre Monday, 20 June from 08:00 to 18:00; Tuesday, 21 June through through Thursday, 23 June 2005, from 08:00 to 18:00; and Friday, 24 June 2005, from 08:00 to 14:00.

Name badges will be included in your registration packet and must be worn at all times throughout the meeting. Your conference receipt will be included with your badge.

Additional Participant and Attendee Information

Childcare

The new babysitting service is Arrumacos. The preferred method of contact to make reservations is via e-mail at arruma.cos@terra.es or you may contact them via telephone at +34-981-534-029 or mobile phone, +34-24-676-796-942.

Arrumacos has personnel that speak other languages than Spanish. If you need a babysitter who speaks any other languages: English, Italian, French, Norwegian, and German, please communicate it to Arrumacos.

Arrumacos requires thirty percent (30%) deposit of babysitting service cost when making reservations. Cancellations will not be accepted later than 15 days prior to services being rendered. If cancellation is past this time period, you will be responsible for the full amount owed to Arrumacos.

Price chart below indicates Arrumacos babysitting service charges (at hotel):

1 hour	18€ by the hour
up to 2 hours	16€ by the hour
up to 3 hours	14€ by the hour
up to 4 hours	12€ by the hour
up to 5 hours	10€ by the hour
more than 5 hours	9€ by the hour

Arrumacos

C/ Garca Prieto, n 47, Bj

15706 Santiago de Compostela (La Corua) Spain

Loli Rivas

md.rivasleiro@mundo-r.com or arruma.cos@terra.es

Telephone and Fax Number: +34-981-534-029

Mobile Number: +34-676-796-942

Also, we are working to see if there is sufficient interest in setting up babysitting at the conference centre. The price of the service in the Palacio de Congresos depends on the number of children. Please send us back information if you would be using babysitting services and include the days needed and ages of children. The cut-off date to organize babysitting service at the conference centre is 16 May 2005.

We also recommend you check with your hotel to see if they offer in-house childcare or daycare services. Please note any arrangements made represent a contractual agreement between the individual and the childcare agency/provider. ASLO assumes no responsibility for the services rendered.

Special Needs

If you have a disability or limitation that may require special consideration in order to fully participate, please contact the meeting's planning organization to see how we can accommodate your needs. Call +1-800-929-ASLO (U.S., Canada, and Caribbean), +1-254-399-9635 (All other countries) or contact via e-mail at business@aslo.org.

Travel Information

U.S. Attendees

In preparation for attendance at the meeting in Spain, a valid passport is required. A visa is not required for tourist or business stays up to 90 days. For additional information, check with the Embassy of Spain, 2375 Pennsylvania Ave., NW, Washington, DC 20037 (+1-202-452-0100 and +1-202-728-2330) or nearest Consulate General in CA (+1-415-922-2995 and +1-213-938-0158), FL (+1-305-446-5511), IL (+1-312-782-4588), LA (+1-504-525-4951), MA (+1-617-536-2506), NY (+1-212-355-4080), PR (+1-809-758-6090), or TX (+1-713-783-6200) or view the web site at www.spainemb.org.

Please be aware that the VISAs are issued to enter the Schenguen Area (most EU member states), rather than Spain alone. Please be aware that if travelling with luggage checked through to Santiago de Compostela from outside the Schenguen area, the luggage may go through customs at the Santiago airport.

For more information about traveling abroad, please visit the following links: <http://travel.state.gov/> and <http://travel.state.gov/visa/americans.html>

Tourism Bureau

The Santiago Tourism Bureau will be located at the conference centre for tourist information and will provide staff fluent in English throughout the duration of the ASLO 2005 Summer Meeting.

Currency Exchange

The currency unit in Spain is euros (EUR) and the symbol is €.

For additional information regarding currency exchange view the FXConverter - 164 Currency Converter Web site at <http://www.oanda.com/convert/classic>.

Santiago Airport

The airport is located 12 kilometres from Santiago de Compostela, political and cultural capital of Galicia. There is a regular bus service during the day, as well as a Taxi service, connecting the Airport with the City. For transportation information via bus, taxi, or road travel, please visit <http://www.aena.es>.

Santiago de Compostela Train Station

There are two direct trains everyday to Madrid (Talgo and Express) and one to Bilbao. There are also daily connections (changing trains once) to Barcelona, Hendaya, and Paris and practically all of Spain's main destinations.

Santiago de Compostela Bus Station

The bus station is centrally located and is very near the Regional Government's Administrative Buildings (Xunta de Galicia). Different local, regional and national transport companies connect Santiago with Galicia's main towns, Portugal, Madrid, Barcelona, and Bilbao. The high frequency of buses also makes it easy to link with other means of transport to travel throughout Europe.

Bus Transfer to and from Conference Centre

An organized bus transfer will depart each morning from the officially listed hotels that are not within walking distance to the conference

centre. Upon completion of the evening sessions, buses will transport attendees leaving the conference centre to each hotel. A shuttle service will be available every 90 minutes between 11:00 and 18:00, with stops at the hotels, the conference centre, and the city center. This will allow participants to move freely between the meeting, the hotels, and the city. This shuttle service is only available at the hotels booked through mbkarma and listed in the program.

Housing Arrangements

Housing arrangements for the ASLO 2005 Summer Meeting have been made at a variety of hotels and offer a wide range of room rates that will allow you to select the one that best fits your needs. Room rates range from €66 EUR (approximately \$82 USD) to €158 EUR (approximately \$198 USD) per night at the single room rate. The hotel rate includes accommodation, breakfast, bus services, and VAT. Bus service to and from the conference centre is provided if the conference hotel is not within walking distance and is only available and included from the hotels listed as described.

June is a beautiful time in Santiago de Compostela, which is heightened with tourists visiting this spectacular city, as well as many people experiencing the spirituality of the pilgrimage. Hotel reservations will be available on a limited basis. We strongly suggest you make your hotel reservations immediately and directly through the housing bureau service, mbkarma.

You may make your hotel reservations through mbkarma, the housing service, by completing a Hotel Accommodation Form located in the back of the Program; by calling 00-34-986-443-171; by faxing 00-34-986-446-051, or sending the completed form with payment by mail to: mbkarma, C/Maria Berdiales, 18 - 1º, Oficina 1, 36203 VIGO-Spain. You can also download the form via the ASLO 2005 Summer Meeting web site: www.aslo.org/santiago2005. Please note reservations will not be confirmed prior to receiving payment. Once payment is received, a confirmation will be sent directly to you. Payment must be made in full and via credit card in Euros. Please note that some hotels may no longer be available. Payment in full is required at time of making reservations.

Conference Hotels

Hotel Puerta del Camino - 5 Stars

This hotel, opened in 1999, is next to the Palacio de Congresos y Exposiciones de Galicia and just 4 km from the Old City.

Rates: Double Room: €213,09 EUR, Single Room: €159,51 EUR

Hotel Los Abetos - 4 Stars

Opened in 1999, in a privileged setting opposite the Palacio de Congresos y Exposiciones de Galicia, this hotel has a magnificent view and a quiet atmosphere.

Rates: Double Room: €190,49 EUR, Single Room: €141,05 EUR

Hotel Hesperia Peregrino - 4 Stars

Renovated hotel in the modern part of the city, 15 minutes from the Old Quarter.

Rates: Double Room: €175,78 EUR, Single Room: €131,71 EUR

Filled - Hotel Tryp San Lázaro - 4 Stars

A modern hotel, opened a few months ago just beside the Palacio de Congresos y Exposiciones de Galicia.

Rates: Double Room: €134,59 EUR, Single Room: €109,85 EUR

Hotel Hesperia Gelmírez - 3 Stars

Modern building, renovated in 1999, in the center of Santiago, equipped with comfortable and functional installations, 4km from the Palacio de Congresos y Exposiciones de Galicia.

Rates: Double Room: €130,24 EUR, Single Room: €95,29 EUR

Filled - Hotel Husa Santiago Apóstol - 3 Stars

Hotel situated at 2km from the Palacio de Congresos y Exposiciones de Galicia, functional spaces.

Rates: Double Room: €87,90 EUR, Single Room: €66,42 EUR

Filled - Hotel Husa Ciudad de Compostela - 3 Stars

In the modern part of Santiago, 4 km from the Palacio de Congresos y Exposiciones de Galicia; simple, but comfortable.

Rates: Double Room: €87,90 EUR, Single Room: €66,42 EUR

Filled - Hotel Husa Universal - 2 Stars

Right in the heart of the city, beside the old part of Santiago, 4 km from the Palacio de Congresos y Exposiciones de Galicia.

Rates: Double Room: €87,90 EUR, Single Room: €66,42 EUR

Filled - Hostal México - 2 Stars

Well situated in the center of the city, 4,5 km from the Palacio de Congresos y Exposiciones de Galicia and with functional rooms.

Rates: Double Room: €68,57 EUR, Single Room: €58,30 EUR

The Gran Hotel Santiago

Maestro Mateo s/n
5706 Santiago de Compostela
Telephone: +34 981 534 222
Fax: +34 981 534 223

Rates: Double Room: €116,35 EUR, Single Room: €109,85 EUR

Filled - Accomodation at Monte do Gozo

A convenient and cheaper accommodation as compared to standard hotels can be found at the "Monte do Gozo," a holiday resort, provided with single, double, and triple rooms. Monte do Gozo is located at walking distance from the conference centre. In addition, buses connect Monte do Gozo with the conference centre and the City Center every 15-30 minutes. Reservations and cancellations should be made directly via web or by telephone (<http://www.montedogozo.com/>). Please note, the web site is only available in Spanish. The typical pricing for 2004 ranged from approximately €50 EUR per single room to approximately €60 EUR for a double room. A cancellation policy is applied as detailed on the web page.

Meeting Schedule

Sunday, 19 June 2005

- 16:00 - 21:00 Registration
Palacio de Congresos y Exposiciones de Galicia
- 18:00 - 18:45 Introduction of President of ASLO
Carlos M. Duarte, Instituto Mediterraneo de Estudios Avanzados, Spain, ASLO 2005 Summer Meeting Co-Chair
- Conference Welcome - Opening Address
Dr. Jonathan J. Cole, Institute of Ecosystem Studies, USA, ASLO President
- Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
- 18:45 - 19:00 Eulogy to Dr. Robert Wetzel
Gene E. Likens, President and Director, G. Evelyn Hutchinson chair in Ecology, Institute of Ecosystems Studies, USA
- Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
- 19:00 - 21:00 Opening Welcome Mixer Reception
Palacio de Congresos y Exposiciones de Galicia

Monday, 20 June 2005

- 08:00 - 18:00 Registration
Palacio de Congresos y Exposiciones de Galicia
- 09:30 - 10:15 Conference Opening Ceremony
Carlos M. Duarte, Instituto Mediterraneo de Estudios Avanzados, Spain and Emilio Fernández, Universidad de Vigo, Spain, ASLO 2005 Summer Meeting Co-Chairs
- Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
- 10:15 - 10:45 Complimentary Coffee Break
Palacio de Congresos y Exposiciones de Galicia
- 10:45 - 13:45 Morning Concurrent Oral Sessions I
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
- 13:45 - 15:30 Lunch (on your own)
- 13:45 - 15:00 Scientific Committee on Oceanographic Research (SCOR) Working Group 126 on Role of Viruses in Marine Ecosystems Kick-Off Meeting
Room #15/16, Break-out Room #7, Palacio de Congresos y Exposiciones de Galicia
- 13:45 - 18:30 Exhibitor and Poster Session I Set-up
Palacio de Congresos y Exposiciones de Galicia
- 14:00 - 15:15 ASLO Student/DIALOG Mixer Reception
Obradoiro Hall, Break-out Room #3, Palacio de Congresos y Exposiciones de Galicia
- 15:30 - 17:00 Afternoon Concurrent Oral Sessions II
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
- 17:00 - 17:30 Complimentary Coffee Break
Palacio de Congresos y Exposiciones de Galicia
- 17:30 - 18:30 Late Afternoon Concurrent Oral Sessions III
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
- 19:00 Board Buses for Romanesque Cathedral

- 19:30 Optional Activity - Service at the Cathedral with Incense "Botafouairo" (Pipe organ concert and visit to the ceilings of the cathedral.)

Tuesday, 21 June 2005

- 08:00 - 19:00 Registration
Palacio de Congresos y Exposiciones de Galicia
- 09:00 - 09:30 Opening Remarks and Introduction of Awardee Speaker
Michael L. Pace, Institute of Ecosystem Studies, USA, ASLO 2005 Summer Meeting Organizing Committee
- Recipient of the G. Evelyn Hutchinson Award
Mary E. Power, University of California at Berkeley, USA
- Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
- 09:30 - 10:10 Introduction of Plenary Speaker
Marianne Holmer, University of Southern Denmark, Denmark, ASLO 2005 Summer Meeting Organizing Committee
- Plenary Address
Doris Soto, Universidad Austral, Chile
- Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
- 09:00 - 20:00 Exhibits
Palacio de Congresos y Exposiciones de Galicia
- 10:10 - 12:10 Exhibits, Poster Session I and Complimentary Coffee Service
Palacio de Congresos y Exposiciones de Galicia
- 12:15 - 13:45 Mid-afternoon Concurrent Oral Sessions I
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
- 13:45 - 15:15 Lunch (on your own)
- 13:45 - 15:00 ASLO Student Forums
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia
- 14:00 - 15:00 ASLO-SIL Discussion on Future Cooperation
Obradoiro Hall, Break-out Room #3, Palacio de Congresos y Exposiciones de Galicia
- 15:15 - 17:00 Afternoon Concurrent Oral Sessions II
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
- 17:00 - 17:30 Complimentary Coffee Break
Palacio de Congresos y Exposiciones de Galicia
- 17:30 - 19:30 Late Afternoon Concurrent Oral Sessions III
Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
- 19:30 - 20:30 Reception
Palacio de Congresos y Exposiciones de Galicia
- 20:30 - 21:00 Poster Session I Tear-down
Palacio de Congresos y Exposiciones de Galicia
- ### Wednesday, 22 June 2005
- 08:00 - 19:00 Registration
Palacio de Congresos y Exposiciones de Galicia
- 08:00 - 9:00 Poster Session II Set-up
Palacio de Congresos y Exposiciones de Galicia

09:00 - 09:30	Opening Remarks and Introduction of Awardee Speaker Colin Stedmon, National Environmental Research Institute, Denmark, ASLO 2005 Summer Meeting Organizing Committee Recipient of the Raymond Lindeman Award Kay Bidle, Rutgers University, USA Santiago Hall - Palacio de Congresos y Exposiciones de Galicia	09:30 - 10:10	Introduction of Plenary Speaker Dolors Planas, University de Quebec A Montreal, Canada, ASLO 2005 Summer Meeting Organizing Committee Plenary Address David Schindler, University of Alberta, Canada Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
09:30 - 10:10	Introduction of Plenary Speaker Carol Robinson, Plymouth Marine Laboratory, United Kingdom, ASLO 2005 Summer Meeting Organizing Committee Plenary Address Jordi Dachs, Institute of Chemical and Environmental Research, Spain Santiago Hall - Palacio de Congresos y Exposiciones de Galicia	09:00 - 20:00	Exhibits Palacio de Congresos y Exposiciones de Galicia
09:00 - 20:00	Exhibits Palacio de Congresos y Exposiciones de Galicia	10:10 - 12:10	Exhibits, Poster Session III and Complimentary Coffee Service Palacio de Congresos y Exposiciones de Galicia
10:10 - 12:10	Exhibits, Poster Session II and Complimentary Coffee Service Palacio de Congresos y Exposiciones de Galicia	12:15 - 13:45	Mid-afternoon Concurrent Oral Sessions I Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
12:15 - 13:45	Mid-afternoon Concurrent Oral Sessions I Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel	13:45 - 15:15	Lunch (on your own)
13:45 - 15:15	Lunch (on your own)	15:15 - 17:00	Afternoon Concurrent Oral Sessions II Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
14:00 - 15:00	The Gordon and Betty Moore Foundation Town Hall Meeting Room #8/9, Break-out Room #4, Palacio de Congresos y Exposiciones de Galicia	17:00 - 17:30	Complimentary Coffee Break Palacio de Congresos y Exposiciones de Galicia
15:15 - 17:00	Afternoon Concurrent Oral Sessions II Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel	17:30 - 19:30	Late Afternoon Concurrent Oral Sessions III Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
17:00 - 17:30	Complimentary Coffee Break Palacio de Congresos y Exposiciones de Galicia	19:30 - 20:30	Reception Palacio de Congresos y Exposiciones de Galicia
17:30 - 19:30	Late Afternoon Concurrent Oral Sessions III Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel	20:30 - 22:00	Exhibit and Poster Session III Tear-down Palacio de Congresos y Exposiciones de Galicia
19:30 - 20:30	Reception Palacio de Congresos y Exposiciones de Galicia	Friday, 24 June 2005	
20:30 - 21:00	Poster Session II Tear-down Palacio de Congresos y Exposiciones de Galicia	08:00 - 14:00	Registration Palacio de Congresos y Exposiciones de Galicia
Thursday, 23 June 2005		09:00 - 9:40	Introduction of Plenary Speaker George Jackson, Texas A&M University, USA, ASLO 2005 Summer Meeting Organizing Committee Plenary Address Thomas Kjørboe, Danish Institute for Fisheries Research, Denmark Santiago Hall - Palacio de Congresos y Exposiciones de Galicia
08:00 - 19:00	Registration Palacio de Congresos y Exposiciones de Galicia	9:45 - 11:00	Morning Concurrent Oral Sessions I Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
08:00 - 09:00	Poster Session III Set-up Palacio de Congresos y Exposiciones de Galicia	11:00 - 11:30	Complimentary Coffee Break Palacio de Congresos y Exposiciones de Galicia
09:00 - 09:30	Opening Remarks and Introduction of Awardee Speaker Louis Legendre, CNRS, France, ASLO 2005 Summer Meeting Organizing Committee Recipient of the Alfred C. Redfield Lifetime Achievement Award Andre Morel, Universite Pierre et Marie Curie, France Santiago Hall - Palacio de Congresos y Exposiciones de Galicia	11:30 - 13:00	Mid-Morning Concurrent Oral Sessions II Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel
		13:00 - 13:30	Complimentary Coffee Break and Tapas Palacio de Congresos y Exposiciones de Galicia
		13:30 - 15:30	Afternoon Concurrent Oral Sessions III Various Rooms at the Palacio de Congresos y Exposiciones de Galicia & Puerta del Camino Hotel

Monday, 20 June 2005

RS03: Zooplankton

Chair(s): Dave Hambricht, dhambricht@ou.edu

Location: Puerto del Camino Hotel II, Breakout #11

- 10:45 Takahashi, K.; Tiselius, P.: ONTOGENETIC CHANGE OF FORAGING BEHAVIOUR IN COPEPODITE STAGES OF ACARTIA CLAUSI
- 11:00 Thor, P.; Koski, M.; Tang, K. W.; Jónasdóttir, S. H.: INFLUENCE OF ALGAL FOOD QUALITY ON COPEPOD INGESTION AND GUT ABSORPTION EFFICIENCY (AE)
- 11:15 Antajan, E.; Gasparini, S.; Tackx, M.; Daro, N.: DIET COMPOSITION AND FEEDING SELECTIVITY OF TEMORA LONGICORNIS IN BELGIAN COASTAL WATERS
- 11:30 Vargas, C. A.; Escribano, R.: DO SEASONAL CHANGES IN FOOD QUALITY AFFECT EGG PRODUCTION AND HATCHING OF SMALL COPEPODS IN A PRODUCTIVE COASTAL UPWELLING SYSTEM?
- 11:45 Schultes, S.; Verity, P. G.; Bathmann, U.: FUNCTIONALITY OF COPEPOD POPULATIONS IN HIGH-NUTRIENT-LOW-CHLOROPHYLL (HNLC) AREAS – HOW FEEDING ECOLOGY REGULATES VERTICAL FLUX
- 12:00 Tønnesson, K.; Nielsen, T. G.; Tiselius, P.: FEEDING AND REPRODUCTION OF PAREUCHAETA NORVEGICA IN THE SKAGERRAK
- 12:15 Augustin, C. B.; Boersma, M.: SEASONAL PATTERNS IN THE EFFECTS OF FOOD QUALITY AND QUANTITY ON REPRODUCTION OF TEMORA LONGICORNIS IN THE NORTH SEA.
- 12:30 Bagøien, E.; Kjørboe, T.: BLIND DATING: MATE-FINDING BEHAVIOUR IN THREE MARINE COPEPODS
- 12:45 Miller, C. B.; Zirbel, M. J.; Batchelder, H. P.: LIFE-TABLES FOR EGG DEVELOPMENT STAGES OF FREE-SPAWNING, MARINE COPEPODS
- 13:00 García-Roger, E. M.; Carmona, M. J.; Serra, M.: DIAPAUSING EGG BANKS OF A ROTIFER SPECIES COMPLEX: AGE, VIABILITY AND EMERGENCE
- 13:15 Figuerola, J.; Green, A. J.; Michot, T.: INVERTEBRATE EGGS CAN FLY: EVIDENCE OF WATERFOWL-MEDIATED GENE FLOW IN AQUATIC INVERTEBRATES
- 15:30 Mayor, D. J.; Anderson, T. R.; Pond, D. W.; Irigoien, X.: EGG PRODUCTION DOES NOT EQUAL NET GROWTH IN POLAR ADULT FEMALE COPEPODS
- 15:45 Leandro, S. M.; Queiroga, H.; Rodríguez, L.; Tiselius, P.: TEMPERATURE EFFECTS ON DEVELOPMENT AND SOMATIC GROWTH IN TWO DIFFERENT LATITUDINAL POPULATIONS OF ACARTIA CLAUSI (COPEPODA: CALANOIDA): A COMPARATIVE STUDY.
- 16:00 Abrusán, G.: FILAMENTOUS CYANOBACTERIA, TEMPERATURE AND DAPHNIA GROWTH – THE ROLE OF FLUID MECHANICS
- 16:15 Riessen, H. P.: CONVERGENCE AND DIVERGENCE IN THE EVOLUTION OF DAPHNIA ANTIPREDATOR STRATEGIES
- 16:30 Irigoien, X.; Harris, R. P.: POPULATION STRUCTURE, ABUNDANCE AND VERTICAL DISTRIBUTION OF SIX COPEPODS SPECIES IN THE NORTH ATLANTIC (STATION INDIA 59 ON, 19 OW, 1971- 1975)
- 16:45 Hambricht, K. D.: LONG-TERM ZOOPLANKTON BODY SIZE AND SPECIES CHANGES IN LAKE KINNERET, ISRAEL
- 17:30 Reichwaldt, E. S.: DEPTH DISTRIBUTION OF DAPHNIA IN RESPONSE TO QUALITATIVELY DIFFERENT DEEP CHLOROPHYLL MAXIMA
- 17:45 Sed'a, J.; Petrusek, A.; Macháček, J.; Schwenk, K.: DAPHNIA HYBRIDS IN SPACE AND TIME: EPISODIC OCCURRENCES OF HYBRID GENOTYPES ON A LONGITUDINAL GRADIENT OF A CANYON-SHAPED RESERVOIR
- 18:00 Pinto-Coelho, R. M.; Pinel-Aloul, B.; Methot, G.; Havens, K. E.: CRUSTACEAN ZOOPLANKTON IN LAKES AND RESERVOIRS OF TEMPERATE AND TROPICAL REGIONS: VARIATION WITH TROPHIC STATUS.
- 18:15 Cheng, L.: ECOLOGY AND DISTRIBUTION OF THE FLIGHTLESS MARINE INSECTS PONTOMYIA SPP. (DIPTERA: CHIRONOMIDAE)

RS06: Physical Interactions

Chair(s): Morten Søndergaard, msondergaard@bi.ku.dk

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 10:45 Descolas, C.: CO2 ASSIMILATION PROCESSES IN MARINE PHYTOPLANKTON
- 11:00 Henson, S. A.; Robinson, I. S.; Allen, J. T.: ESTIMATING SVERDRUP'S CRITICAL DEPTH FROM SPACE: AN EXAMPLE OF THE SUB-POLAR NORTH ATLANTIC SPRING BLOOM
- 11:15 Bouchard, J. N.; Campbell, D. A.; Roy, S.: ULTRAVIOLET-B RADIATION EFFECTS ON THE D1 PROTEIN OF NATURAL PHYTOPLANKTON COMMUNITIES FROM THREE LATITUDES (CANADA, BRAZIL, ARGENTINA)
- 11:30 Banaszak, A. T.; Neale, P. J.: TEMPORAL AND SPECTRAL DEPENDENCE OF INHIBITION AND RECOVERY KINETICS IN PHYTOPLANKTON ASSEMBLAGES

- 11:45 Søndergaard, M.; Conan, P.; Markager, S.; Kragh, T.: PRODUCTION OF DOM BY MARINE PLANKTON AT DIFFERENT NUTRIENT LOADING
- 12:00 Achterberg, E. P.; Moore, C. M.; Mills, M. M.; Milne, A.; Langlois, R.; Lochte, K.; Gelder, R. J.; La Roche, J.: IRON LIMITATION OF THE NORTH ATLANTIC SPRING BLOOM
- 12:15 De Wever, A.; Muylaert, K.; Descy, J. P.; Vyverman, W.; N, P AND FE LIMITATION OF PHYTOPLANKTON IN LAKE TANGANYIKA
- 12:30 Kromkamp, J. C.; Dijkman, N.; Gons, H. J.; Simis, S.: PRIMARY PRODUCTION IN LAKE IJSELMEER MEASURED WITH FRRF, PAM AND C-FIXATION
- 12:45 Berden Zrimec, M.; Montli, M.; Drinovec, L.; Beran, A.; Tamberlich, F.; Zrimec, A.: DELAYED LUMINESCENCE OF MARINE DINOFLAGELLATE PROROCENTRUM MINIMUM
- 13:00 Brookes, J. D.; Regel, R. H.; Ganf, G. G.: VERTICAL MIGRATION, ENTRAINMENT AND PHOTOSYNTHESIS OF THE FRESHWATER DINOFLAGELLATE PERIDINIUM CINCTUM
- 13:15 Peperzak, L.; Garcés, E.; Kremp, A.; Montresor, M.: MODEL-AIDED QUANTIFICATION OF DINOFLAGELLATE SEXUAL CYCLES REVEALS UNPRECEDENTED SPECIES-SPECIFIC LIFE CYCLE VARIABILITY
- 13:30 solidoro, c.; pastres, r.; cossarini, g.; ciavatta, s.; melaku canu, d.: SPACE VARIABILITY AND TIME EVOLUTION OF WATER QUALITY PARAMETERS IN COASTAL AREA. RESULTS FROM THE LAGOON OF VENICE CASE STUDY

SS01: Ecosystem Engineers in the Benthic Boundary Layer

Chair(s): Luca A. van Duren, l.vanduren@nioo.knaw.nl

Joseph D. Ackerman, ackerman@uoguelph.ca

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 10:45 Wolton, R. S.: AQUATIC PLANTS AND ANIMALS AS ECOSYSTEM ENGINEERS–
- 11:15 Bouma, T. J.; de Vries, M.; Peralta, G.; Friedrichs, M.; Temmerman, S.; Brun, F. G.; van Duren, L. A.; Graf, G.; van de Koppel, J.; Herman, P. M.: CONSEQUENCES OF PLANT TRAITS FOR ECOSYSTEM ENGINEERING EFFICIENCY: AN ECOLOGICAL PERSPECTIVE ON BIOPHYSICAL INTERACTIONS
- 11:30 Peralta, G.; Bouma, T. J.; van Duren, L. A.: HYDRODYNAMIC IMPLICATIONS OF LEAF WIDTH AND SHOOT DENSITY: BENEFITS FOR SEAGRASS ECOPHYSIOLOGY
- 11:45 Folkard, A. M.: PATTERNS OF TURBULENCE IN HETEROGENEOUS AQUATIC MACROPHYTE SYSTEMS
- 12:00 Hendriks, I. E.; Duarte, C. M.; Sintes, T. M.; van Duren, L. A.: PARTICLE RETENTION IN SEAGRASS CANOPIES
- 12:15 Ackerman, J. D.; Goring, S.: PARTICLE CAPTURE ON BRANCHED COLLECTORS AT ECOLOGICALLY RELEVANT REYNOLDS NUMBERS
- 12:30 Ribes, M.; Coma, C.: THE ROLE OF ENGINEER SPECIES IN THE BENTHIC- PELAGIC COUPLING: THE STUDY CASE OF A MEDITERRANEAN GORGONIAN
- 12:45 Koehl, M. A.; Reidenbach, M.; Hadfield, M. G.; Koseff, J. R.: WATER FLOW THROUGH CORAL REEFS AFFECTS HYDRODYNAMIC FORCES ON, AND TRANSPORT TO AND FROM, ORGANISMS IN THE REEFS
- 13:00 Håse, C.; Maar, M.; Riethmüller, R.; Burchard, H.; Bolding, K.: CONTROL OF FOOD SUPPLY FOR BLUE MUSSELS IN LIMFJORDEN BY HYDRODYNAMIC PROCESSES
- 13:15 Gascoigne, J. C.; Saurel, C.; Wiles, P. J.; Williams, E.; Berc, B.; Kaiser, M. J.; Simpson, J. H.: CALCULATING CARRYING CAPACITY FOR SHELLFISH CULTURE
- 13:30 Williams, E.; Simpson, J. H.; Tweddle, J.: PHYSICAL PROCESSES CONTROLLING THE SUPPLY OF PLANKTON TO BENTHIC FILTER FEEDERS
- 13:45 Pettersson, P.; Kautsky, N.; Kautsky, H.: EFFECTS OF MYTILUS PATCH SIZE ON BIODIVERSITY OF ASSOCIATED SPECIES IN BALTIC SEA SOFT SEDIMENT
- 15:30 van Duren, L. A.; Fernandes, S.; Sobral, P.; Herman, P. M.: ACTIVE AND PASSIVE MODIFICATION OF THE BENTHIC BOUNDARY LAYER BY SHELLFISH: SIMILARITIES AND DIFFERENCES BETWEEN EPI- AND ENDOBENTHIC SPECIES
- 15:45 GRALL, J.; CHAUVAUD, L.; PAULET, Y. M.; GUARINI, J. M.: IS MICROPHYTOBENTHOS THE ESSENTIAL CARBON SOURCE FOR SUSPENSION FEEDERS IN COASTAL SHALLOW ECOSYSTEMS ? EVIDENCES FROM MULTIPLE APPROACHES IN THE BAY OF BREST
- 16:00 Volkenborn, N.; van Beusekom, J. E.; Hedtkamp, S. I.; Polerecky, L.; de Beer, D.; Reise, K.: ECOSYSTEM ENGINEERING BY THE LUGWORM ARENICOLA MARINA REVEALED BY A LARGE SCALE EXCLUSION EXPERIMENT - IMPLICATIONS FOR ECOSYSTEM CHARACTERISTICS
- 16:15 Peine, E.; Deutschmann, R.; Meier, E.; Pielenz, H.; Graf, G.: A COMBINED LABORATORY AND FIELD ANNUAL FLUME STUDY TO INVESTIGATE THE BIORESUSPENSION- AND BIODEPOSITION POTENTIAL OF MACROFAUNA ORGANISMS.
- 16:30 Vittasalo, S.; Vittasalo, M.: THE EFFECTS OF BIOTURBATION AND PREDATION BY BENTHIC ANIMALS AND PELAGIC MYSIDS ON CLADOCERAN BENTHIC EGGS
- 16:45 Ciutat, A.; Widdows, J.; Pope, N. D.: EFFECT OF CERASTODERMA EDULE DENSITY ON NEAR-BED HYDRODYNAMICS AND STABILITY OF COHESIVE MUDDY SEDIMENTS.

(^) represents Tutorial presentations

SS04: Climate Change in Ocean and Marginal Sea Ecosystems: Observation, Modeling, and Experiments

Chair(s): Evaristo Vázquez-Domínguez, evazquez@icm.csic.es
Victoria Coles, vcoles@hpl.umces.edu

Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7

- 10:45 Casey, K. S.; Selig, E. R.; Bruno, J. F.; Barton, A. D.: UNDERSTANDING LOCAL VARIATIONS IN SEA SURFACE TEMPERATURES AND THEIR IMPACTS ON MARINE ECOSYSTEMS
- 11:00 Wiltshire, K. H.; Boersma, M.; Malzahn, A.; Freund, J.: SHIFTS IN PHYTOPLANKTON AND ZOOPLANKTON INTERACTIONS RELATED TO THE TEMPERATURE RISE IN THE NORTH SEA
- 11:15 Vázquez-Domínguez, E.; Gasol, J. M.; Vaqué, D.: SMALL INCREASES OF TEMPERATURE AFFECT THE STRUCTURE AND FUNCTIONING OF PLANKTONIC COMMUNITIES OF BLANES BAY (NW MEDITERRANEAN).
- 11:30 Garde, K.; Eriksen, A.; Møhlenberg, F.; Gustavson, K.: HOW DO PLANKTON COMMUNITIES RESPOND TO INCREASING TEMPERATURES DURING WINTER?
- 11:45 Welthuy, D. S.; Gilman, S. E.; Helmuth, B. S.: PREDICTING BIOGEOGRAPHIC RESPONSES TO CLIMATE CHANGE IN ROCKY INTERTIDAL ECOSYSTEMS: A MECHANISTIC APPROACH
- 12:00 Barth, J. A.; Chan, F. T.; Kirincich, A. R.; Menge, B. A.; Lubchenko, J.: UPWELLING-DRIVEN INNER-SHELF HYPOXIA IN THE NORTHEAST PACIFIC: THE RELATIVE INFLUENCE OF OFFSHORE OCEANOGRAPHIC CHANGES AND LOCAL PROCESSES
- 12:15 Llope, M.; Anadón, R.: SEASONAL AND LONG-TERM CHANGES IN THE HYDROGRAPHY OF SOUTHERN BAY OF BISCAY (N SPAIN)
- 12:30 Christian, R. R.; Mazzilli, S.; Latham, J.; Kineman, J. J.; Hart, G. F.; Coleman, J.: PRIORITY OBSERVATIONS OF THE COAST THROUGH THE GLOBAL TERRESTRIAL OBSERVING SYSTEM: LONG-TERM DELTA DYNAMICS
- 12:45 Katsev, S.; Sundby, B.; Mucci, A.: MODELING A RECENT TRANSITION FROM OXIC TO ANOXIC CONDITIONS IN DEEP BASIN ARCTIC SEDIMENTS
- 13:00 Thisleir, D.; Carman, K. R.; Sedlacek, L.; Barry, J. P.; Brewer, P. G.; Fleeger, J. W.: CONSEQUENCES FOR THE DEEP-SEA FAUNA OF INJECTION OF LIQUID CARBON DIOXIDE: PRELIMINARY RESULTS

SS05: Biogeochemistry of Tropical Rivers

Chair(s): Michael McClain, michael.mcclain@fiu.edu
Jay Brandes, brandes@utmsi.utexas.edu

Location: Puerto del Camino Hotel V, Breakout #9

- 10:45 Victoria, R. L.; Ballester, M.V.R.; Krusche, A.V.; Richey, J.E.; Kavaguisli, N.L.; Gomes, B. M.; Victoria, D. de C.; Montebeo, A.A.; Neill, C.; Deegan, L.: BIOGEOCHEMISTRY OF THE AMAZON RIVER BASIN: THE ROLE OF AQUATIC ECOSYSTEMS IN THE AMAZON FUNCTIONING
- 11:00 Tremblay, L.; Benner, R.: BACTERIAL CONTRIBUTIONS TO DISSOLVED AND PARTICULATE ORGANIC MATTER OF THE AMAZON RIVER SYSTEM
- 11:15 Martinelli, L. A.; Camargo, P. B.; Ometto, J. P.: NITROGEN DISTRIBUTION IN TROPICAL RIVERS OF BRAZIL: A COMPARISON BETWEEN PRISTINE AND IMPACTED WATERSHEDS
- 11:30 Maria Ballester, V. R.; Alex Krusche; Nei Kavaguchi; Reynaldo Victoria; Beatriz Gomes; M.; Jeffrey Richey; E.: PHYSICAL AND ANTHROPOGENIC CONTROLS OF THE BIOGEOCHEMISTRY OF THE JI-PARANÁ RIVER BASIN (WESTERN AMAZÓNIA)
- 11:45 McClain, M. E.; Brandes, J. A.; Celi, J. E.; Galarraga, R.; Hall, B. C.; Llerena, C. A.; Pelaez, M.; Rosselli, A.; Singler, H.; Townsend-Small, A.: ORGANIC MATTER AND NUTRIENT DYNAMICS IN ANDEAN HEADWATER RIVERS OF THE AMAZON BASIN
- 12:00 Brandes, J. A.; Townsend-Small, A.; McClain, M. E.: ISOTOPIC AND COMPOSITIONAL GRADIENTS IN ANDEAN RIVER SYSTEMS
- 12:15 Townsend-Small, A.; Noguera, J. L.; McClain, M. E.; Brandes, J. A.: SEASONAL VARIATION IN ORGANIC CARBON AND NITROGEN CONTENT AND STABLE ISOTOPIC COMPOSITION OF RIVERS IN THE PERUVIAN ANDEAN AMAZON
- 12:30 Rueda Delgado, G.; Wantzen, K. M.; Beltan, T. M.; Correa, D. A.; Guerrero, B. F.; Luna, F. J.; Zuñiga, C. B.: LEAF LITTER DECOMPOSITION IN A NEOTROPICAL STREAM: HYDROLOGICAL VS. BIOLOGICAL FACTORS
- 12:45 McDowell, W. H.; Borbor, M. J.; Hall, C. A.; Boyer, E. W.: EFFECTS OF AGRICULTURAL INTENSITY ON NUTRIENT AND DISSOLVED ORGANIC MATTER EXPORT FROM A TROPICAL WATERSHED
- 13:00 Sotomayor-Ramírez, D. R.; Martínez, G. A.; Pérez-Alegria, L.: NUTRIENT DYNAMICS AND EXPORT IN TROPICAL SUBWATERSHEDS OF THE CARIBBEAN
- 13:15 LE THI PHUONG, Q.; BILLEN, G.; GARNIER, J.; THERY, S.; CHAU VAN, M.; FEZARD, C.: NUTRIENT (N, P) BUDGETS FOR THE RED RIVER BASIN (VIETNAM AND CHINA)
- 13:30 Robson, B. J.; Parslow, J.: EFFECTS OF TIDES AND FLOW ON WATER QUALITY IN A MACROTIDAL TROPICAL ESTUARY

SS08: Carbon and Carbonate Fluxes in the Coastal Ocean

Chair(s): Jean-Pierre Gattuso, gattuso@obs-vlfr.fr
Fred T. Mackenzie, fredm@soest.hawaii.edu

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 10:45 Mackenzie, F. T.; Lerman, A.; Andersson, A.; Fagan, K.; Ringuet, S.: SHALLOW-WATER OCEAN CARBON AND CARBONATE SYSTEM BEHAVIOR AND FLUXES-
- 11:15 Gruber, N.; Marchesio, P.; Plattner, G. K.; Frenzel, H.; McWilliams, J. C.: THE IMPACT OF EDDIES ON COASTAL OCEAN PRODUCTIVITY AND BIOGEOCHEMISTRY
- 11:30 Plattner, G. K.; Gruber, N.; Frenzel, H.; McWilliams, J. C.: DECOUPLING MARINE EXPORT PRODUCTION FROM NEW PRODUCTION
- 11:45 Dittmar, T.; Kattner, G.; Herlkom, N.; Koch, B.: MANGROVES, A MAJOR SOURCE OF DISSOLVED ORGANIC CARBON TO THE OCEANS
- 12:00 Barron, C.; Duarte, C. M.: DISSOLVED ORGANIC CARBON EXPORT FROM THE GLOBAL COASTAL OCEAN
- 12:15 Gattuso, J. P.; Gentili, B.; Duarte, C. M.; Middelburg, J. J.; Antoine, D.: BENTHIC PRIMARY PRODUCTION IN THE OCEAN: CONSTRAINT OF LIGHT AVAILABILITY AT THE GLOBAL SCALE
- 12:30 Kuczera, C.; Williams, B. J.; Kuczera, G. A.: REVISITING FASHAM'S CARBON FLUX MODEL IN THE NORTH ATLANTIC
- 12:45 Dai, M.; Zhai, W.; Cai, W.: CO₂ SOURCE OR SINK OF A CONTINENTAL MARGIN-IMPLICATION FROM A COMPARISON BETWEEN THE SOUTH CHINA SEA AND THE EAST CHINA SEA
- 13:00 CAI, W.; Dai, M.: HOW SIGNIFICANT IS THE COASTAL OCEAN UPTAKE OF ATMOSPHERIC CO₂?-A PROVINCE-BASED APPROACH
- 13:15 Borges, A. V.: DO WE HAVE ENOUGH PIECES OF THE JIGSAW TO INTEGRATE CO₂ FLUXES IN THE COASTAL OCEAN?
- 13:30 Bosc, E.; Carr, M. E.; Schmeltz, M.; DiGiacomo, P.; Chao, Y.; Choi, J. K.; Gruber, N.; Frenzel, H.; Holt, B.; Salawitch, R.: SEASONAL VARIABILITY IN CARBON FIXATION IN THE CALIFORNIA CURRENT AREA DERIVED FROM SATELLITE DATA
- 13:45 Wasmund, N.; Nausch, G.; Schneider, B.: CALCULATION OF PRIMARY PRODUCTION RATES IN THE BALTIC SEA BY DIFFERENT APPROACHES
- 15:30 Semiletov, I. P.; Dudarev, O. V.; Shakhova, N. E.; Pipko, I. I.: CARBON CYCLING IN THE ARCTIC ATMOSPHERE-LAND-SHELF SYSTEM
- 15:45 Santos, R.; Silva, J.; Alexandre, A.; Navarro, N.; Barrón, C.; Duarte, C. M.: ECOSYSTEM METABOLISM AND CARBON FLUXES OF A TIDAL-DOMINATED COASTAL LAGOON
- 16:00 sallsbury, J. E.; Vandemark, D.; Hunt, C.; Campbell, J. W.; McGillis, W. R.: CONTRASTING INHERENT OPTICAL PROPERTIES AND INFERRED CARBON METABOLISM IN SEVERAL NORTHEASTERN (USA) ESTUARY-PLUME SYSTEMS.
- 16:15 Middelburg, J. J.; Andersson, J. H.; Vandewiele, S.; Soetaert, K.; Cowie, G.; Woudes, C.: BENTHIC ORGANIC MATTER PROCESSING ACROSS THE ARABIAN SEA OXYGEN MINIMUM ZONE (OMZ)
- 16:30 Mateo, M. A.; Renom, P.; Julià, R.; Michener, R. H.: POSIDONIA OCEANICA MILLENNARY DEPOSITS: FIRST APPROACH TO THE PALAEOECOLOGY OF A SEAGRASS DURING THE RECENT HOLOCENE
- 16:45 Hoover, D. J.; Mackenzie, F. T.; DeCarlo, E. H.; Scheinberg, R. D.: STORM RUNOFF AND BIOGEOCHEMICAL CYCLES IN TWO HAWAIIAN ESTUARIES: EPISODIC INPUTS WITH LONG-TERM IMPACTS
- 17:30 Millero, F. J.; Morse, J. W.; Bustos-Serrano, H.: THE FORMATION OF WHITINGS ON THE LITTLE BAHAMA BANK
- 17:45 Morse, J. W.; Eldridge, P. M.: A NON-STEADY-STATE DATA DRIVEN DIAGENETIC MODEL FOR PREDICTION OF SEDIMENT RESPONSE TO SEASONAL HYPOXIA/ ANOXIA ON THE LOUISIANA SHELF, USA
- 18:00 Tribollet, A. D.: ROLE OF THE BORING MICROFLORA IN CORAL REEF ECOSYSTEMS - EFFECT OF ENVIRONMENTAL FACTORS ON ITS ACTIVITIES (BIOEROSION, PRODUCTIVITY)
- 18:15 Taubner, I.; Ragazzola, F.; Thake, B.: BICARBONATE STIMULATES CALCIFICATION IN MONTIPORA DIGITATA (CNIDARIA) AND CORALLINA OFFICINALIS (RHODOPHYCEAE)

SS12: Quantifying Bioturbation and Bio-irrigation: A 'Camino' Beneath the Sediment-water Interface

Chair(s): Filip J. R. Meysman, f.meysman@nioo.knaw.nl
Jack J. Middelburg, j.middelburg@nioo.knaw.nl

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 17:30 Meysman, F.; Malyuga, V.; Boudreau, B. P.; Middelburg, J. J.: BIOLOGICAL MIXING OF THE SEAFLOOR: BEYOND BIODIFFUSION, CONCEPTS AND CONSEQUENCES-
- 17:45 Stief, P.: MICROBIAL IMPLICATIONS OF DEPOSIT-FEEDING AND BIOIRRIGATION BY MIDGE LARVAE*

(* represents invited presentations)

- 18:00 Madani, S.; Meysman, F. J.; Middelburg, J. J.: BIO-IRRIGATION AND ITS INFLUENCE ON THE DEGRADATION OF SEDIMENTARY ORGANIC MATTER
- 18:15 Polerecky, L.; Volkenborn, N.; Stief, P.: BIOIRRIGATION BY MACROFAUNA AS OBSERVED BY PLANAR OXYGEN OPTODES

SS13: Stable Isotopes in Ecology and Biogeochemistry

- Chair(s): Eric Boschker, e.boschker@nioo.knaw.nl
Jack J. Middelburg, j.middelburg@nioo.knaw.nl
- Location: Puerto del Camino Hotel I, Breakout #10
- 10:45 York, J. K.; Valiela, I.; Repeta, D. J.: STABLE ISOTOPIC ASSESSMENT OF PHYTOPLANKTON NITROGEN PREFERENCES IN ESTUARIES
- 11:00 Gribsholt, B.; Boschker, H. T.; Struyf, E.; Dehairs, F.; Meire, P.: SEASONAL VARIATION IN NITROGEN UPTAKE AND TRANSFORMATION IN A TIDAL FRESHWATER MARSH: A WHOLE ECOSYSTEM 15N LABELING STUDY
- 11:15 Zitzmann, S.; Brüchert, V.: NITROGEN DYNAMICS IN ORGANIC RICH SEDIMENTS OF THE NAMIBIAN SHELF
- 11:30 Meador, T. B.; Aluwihare, L. I.; Mahaffey, C.; Capone, D.: CHEMICAL AND ISOTOPIC CHARACTERIZATION OF DISSOLVED ORGANIC NITROGEN (DON) IN THE OLIGOTROPHIC OCEAN.
- 11:45 Wang, X.; Depew, D. A.; Taylor, W. D.; Schiff, S. L.; Smith, R. E.: STABLE OXYGEN ISOTOPES AND THE METABOLIC BALANCE IN A LARGE OLIGOTROPHIC LAKE (LAKE ERIE, USA-CANADA)
- 12:00 Fredriksen, M. S.; Holmer, M.: USE OF STABLE SULFUR ISOTOPES TO DETECT SULFIDE INVASION IN THE SEAGRASS POSIDONIA OCEANICA ALONG A GRADIENT OF ORGANIC LOADING AT MEDITERRANEAN FISH FARMS.
- 12:15 Melli, M.; Jonsson, P.: HISTORICAL AND SPATIAL TRENDS OF EUTROPHICATION BASED ON STABLE ISOTOPES (δ15N, δ13C) IN COASTAL SEDIMENTS OF THE BALTIC SEA
- 12:30 King, L.; Maberly, S. C.; Jones, R. L.; De Ville, M. M.; Kitschke, M.; Gibson, C. E.: NITROGEN STABLE ISOTOPE RATIOS OF LAKE MACROPHYTES IN RELATION TO ENVIRONMENTAL CONDITIONS AND NUTRIENT-LIMITATION
- 12:45 Yamamoto, M.; Takahara, H.; Krivonogov, S.: CARBON, NITROGEN AND PHOSPHORUS CONCENTRATIONS AND CARBON AND NITROGEN STABLE ISOTOPE RATIOS IN CORE SEDIMENTS OF LAKE BELOE, WESTERN SIBERIA
- 13:00 Perga, M. E.; Kainz, M.; Matthews, B.; Mazumder, A.: CHANGES OF CARBON PATHWAYS WITHIN THE PELAGIC FOOD WEB OF A RECENTLY FLOODED RESERVOIR.
- 13:15 Veuger, B.; Middelburg, J. J.; Boschker, H. T.; Houtekamer, M.; van Oevelen, D.: ANALYSIS OF 15N AND 13C INCORPORATION INTO D-ALANINE: A NEW METHOD FOR TRACING UPTAKE AND FATE OF BACTERIAL NITROGEN AND CARBON *
- 13:30 Rauschenberg, C. D.; Jones, W. B.; Cifuentes, L. A.: POTENTIAL IMPORTANCE OF TERRESTRIAL SOURCES OF ORGANIC MATTER TO BACTERIA IN GULF OF MEXICO SEDIMENTS
- 15:30 Bouillon, S.; Boschker, H. T.: BACTERIAL CARBON SOURCES IN COASTAL SEDIMENTS: A META-ANALYSIS BASED ON STABLE CARBON ISOTOPE DATA OF BIOMARKERS
- 15:45 Friedrich, M. W.; Pommerenke, B.: STABLE ISOTOPE PROBING OF LACTATE-METABOLIZING MICROBIAL POPULATIONS IN LAKE SEDIMENT
- 16:00 Conrad, R.; Claus, P.; Penning, H.; Casper, P.: MEASUREMENT OF CARBON STABLE ISOTOPIC FRACTIONATION DURING METHANE PRODUCTION IN AQUATIC SEDIMENTS
- 16:15 Van Oevelen, D.; Middelburg, J. J.; Soetaert, K.; Moodley, L.: THE DYNAMICS OF BENTHIC BACTERIAL CARBON: MODELING AN IN SITU 13C-GLUCOSE TRACER EXPERIMENT
- 16:30 Grey, J.; Deines, P.: DIFFERENTIAL ASSIMILATION OF METHANOTROPHIC AND CHEMOAUTOTROPHIC BACTERIA BY LAKE CHIRONOMID LARVAE
- 16:45 Kankaala, P.; Grey, J.; Jones, R. I.: EXPERIMENTAL EVIDENCE FOR THE IMPORTANCE OF METHANOTROPHS IN THE PELAGIC FOOD WEB OF A POLYHUMIC LAKE
- 17:30 Deines, P.; Grey, J.; Eller, G.: LINKING LARVAL CHIRONOMIDS TO METHANE: SEASONAL VARIATION OF METHANE PRODUCTION AND CHIRONOMID DELTA 13C
- 17:45 Martinetto, P. M.; Teichberg, M.; Valiela, I.: COUPLING OF ESTUARINE BENTHIC AND PELAGIC FOOD WEBS TO LAND-DERIVED NITROGEN SOURCES IN WAQUOIT BAY, MASSACHUSETTS
- 18:00 Vincent, D.; Slawyk, G.; Lhelguen, S.; Sarthou, G.; Gallinari, M.; Ragueneau, O.: NET AND GROSS INCORPORATION OF NITROGEN AND CARBON BY THE COPEPOD CALANUS HELGOLANDICUS
- 18:15 Dijkman, N. A.; Kromkamp, J. C.: GROUP-SPECIFIC PRIMARY PRODUCTION IN THE SCHELDE ESTUARY

SS17: Viruses, Microbial Diversity and Ecosystem Function

- Chair(s): Steven W. Wilhelm, wilhelm@utk.edu
Markus G. Weinbauer, Markus.Weinbauer@obs-vlfr.fr
Curtis A. Suttle, csuttle@eos.ubc.ca
- Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2
- 10:45 Suttle, C. A.: DEATH, DYNAMICS, DECAY, AND DIVERSITY: SEQUENCE ANALYSIS PROVIDES CLUES TO THE FUNCTION OF VIRUSES IN THE ECOSYSTEM-
- 11:15 Brum, J. R.; Steward, G. F.; Jiang, S.; Jellison, R.: SPATIAL AND TEMPORAL VARIABILITY OF PROKARYOTES, VIRUSES, AND VIRAL INFECTIONS OF PROKARYOTES IN AN ALKALINE, HYPERSALINE LAKE
- 11:30 Sime-Ngando, T.; Colombet, J.; Cauchie, H. M.; Fonty, G.; Hoffmann, L.: VERTICAL DISTRIBUTION OF LYSOGENY AND LYTIC VIRAL ACTIVITY IN A DEEP MEROMICTIC LAKE
- 11:45 Winter, Christian, C.; Smit Arjan, A.; Herndl Gerhard, G. J.; Weinbauer Markus, M. G.: LINKING BACTERIAL RICHNESS WITH VIRAL ABUNDANCE AND PROKARYOTIC ACTIVITY
- 12:00 Agis, M.; Bonilla-Findji, O.; Gattuso, J. P.; Weinbauer, M. G.: LINKING VIRAL ABUNDANCE TO PROKARYOTIC DIVERSITY AND ECOSYSTEM FUNCTIONING
- 12:15 AUGUET, J. C.; MONTANIE, H.; DELMAS, D.; HARTMANN, H. J.; LEBARON, P.; CASAMAYOR, E. O.: MODULATION OF COASTAL BACTERIAL MORTALITY BY RIVERINE VIRUSES
- 12:30 Weinbauer, M. G.; Bonilla-Findji, O.; Chan, A. M.; Dolan, J.; Garza, D. R.; Rodda, K. M.; Short, S.; Simek, K.; Wilhelm, S. W.; Suttle, C. A.: SYNECOCOCOCOCUS GROWTH IN THE OCEAN IS DEPENDENT ON VIRAL LYSIS OF HETEROTROPHIC BACTERIA
- 12:45 Wang, K.; Chen, F.: ISOLATION AND CHARACTERIZATION OF CYANOPHAGES OF MARINE CLUSTER B SYNECOCOCOCUS
- 13:00 Rowe, J. M.; Dunlap, J. R.; Gobler, C. J.; Gastrich, M. D.; Anderson, O. R.; Wilhelm, S. W.: ANALYSIS OF A VIRUS-LIKE PARTICLE ASSOCIATED WITH THE LYSIS OF THE BROWN TIDE FORMING ALGAE, $Aureococcus anophagefferens$
- 13:15 Gobler, C. J.; Pererya, G.; Gastrich, M.; Anderson, O. R.; Wilhelm, S. W.: ENVIRONMENTAL AND BIOLOGICAL FACTORS INFLUENCING THE ABILITY OF VIRUSES TO LYSE THE HARMFUL BROWN TIDE PELAGOPHYTE, AUREOCOCCUS ANOPHAGEFFERENS
- 13:30 Schroeder, D. C.; Martinez Martinez, J.; Wilson, W. H.: ARE ALL EMILIANA HUXLEYI BLOOMS COMPRISED OF THE SAME COMMUNITIES AND DO THEY SUFFER THE SAME FATE?
- 15:30 Baudoux, A.; Brussaard, C. P.: ECOLOGICAL SIGNIFICANCE OF PHYTOPLANKTON VIRUSES IN AN OLIGOTROPHIC MARINE ENVIRONMENT
- 15:45 Sandaa, R. A.; Larsen, A.; Thingstad, T. F.: VIRAL DIVERSITY IN THE MARINE ENVIRONMENT. EFFECT ON THE SPECIES RICHNESS OF PLANKTONIC ORGANISMS
- 16:00 Peduzzi, P.; Agis, M.; Luef, B.: VIRIOPANKTON DIVERSITY IN A RIVER FLOODPLAIN SYSTEM OF THE DANUBE (AUSTRIA)
- 16:15 Brussaard, C. P.; Baudoux, A.: HOW DIFFERENT IRRADIANCE LEVELS AFFECT THE INTERACTIONS BETWEEN VIRUS AND ALGAL HOST
- 16:30 Bonilla-Findji, O.; Herndl, G. J.; Weinbauer, M. G.: EFFECT OF VIRUSES AND FLAGELLATES ON PROKARYOTIC PRODUCTIVITY AND DIVERSITY IN THE OFFSHORE MEDITERRANEAN SEA
- 16:45 Middelboe, M.; Glud, R. N.: BENTHIC VIRUSES: DISTRIBUTION, DIVERSITY AND IMPLICATIONS FOR BENTHIC BIOGEOCHEMISTRY

SS19: Ecosystem Level Approach in Environmental Assessments of Maricultures

- Chair(s): Kenny Black, Kenny.Black@sams.ac.uk
Marianne Holmer, holmer@biology.sdu.dk
- Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4
- 10:45 Karakassis, I.: ECOSYSTEM APPROACH TO ENVIRONMENTAL ASSESSMENT OF MARICULTURE: NEW FINDINGS AND PROSPECTS-
- 11:15 Hargrave, B. T.; Strain, P. M.: FAR-FIELD ORGANIC MATTER AND NUTRIENT LOADING ESTIMATED FROM LOCAL OBSERVATIONS AT FINFISH MARICULTURE SITES
- 11:30 Dean, R.; Shimmiel, T. M.; Black, K. D.: THE INFLUENCE OF MARINE FISH FARMING ON SEDIMENT METAL DISTRIBUTIONS
- 11:45 Angel, D. L.; Katz, T.; Eden, N.; Black, K. D.; Malej, A.; Tsapakis, M.; Turk, V.; Cook, E. J.; Sayer, M.; Spanier, E.; Lojen, S.; Collins, K.; Pitta, P.: DIURNAL DYNAMICS IN WATER QUALITY AND PLANKTON AROUND A NET PEN FISH FARM IN THE RED SEA

^(c) represents Tutorial presentations

- 12:00 Lazar, B.: Silverman, J.; Erez, J.: DOES FISH FARMING AFFECT NUTRIENTS AND DISSOLVED OXYGEN INVENTORIES IN THE WATER COLUMN OF THE NORTHERN GULF OF AQABA, RED SEA?
- 12:15 Malej, A.: Flander-Putrlje, V.; Forte, J.; Turk, V.: VARIABILITY IN MICROBIAL PLANKTON AND FOULING COMMUNITIES NEAR CAGED MARICULTURE VS. NATURAL BACKGROUND (BAY OF PIRAN, ADRIATIC SEA)
- 12:30 Leakey, R. J.: Hart, M. C.; Navarro, N.; Green, D. H.; Thomas, D. N.: THE EFFECT OF SALMONID MARICULTURE ON THE PELAGIC MICROBIAL COMMUNITY IN COASTAL WATERS
- 12:45 Erez, J.; Iluz, D.; Silverman, J.; Lazar, B.: RECENT EUTROPHICATION PROCESSES CAUSED BY CAGED FISH FARMING IN THE NORTHERN GULF OF EILAT (AQABA)
- 13:00 Holmer, M.: Tsapakis, M.; Dalsgaard, T.; Duarte, C. M.; Peréz, M.; Danovaro, R.: EFFECT OF NUTRIENT RELEASE FROM MEDITERRANEAN FISH FARMS ON ECOSYSTEM PROCESSES
- 13:15 Ruiz, J. M.; Perez, M.; Invers, O.: EFFECTS OF FISH FARM ORGANIC EFFLUENTS ON MEDITERRANEAN POSIDONIA OCEANICA SEAGRASS-BASED ECOSYSTEMS
- 13:30 Diaz-Almela, E.; Marba, N.; Álvarez, E.; Santiago, R.; Grau, A.; Duarte, C. M.: RAPID SEAGRASS (POSIDONIA OCEANICA) DECLINE IN RESPONSE TO SEDIMENT ORGANIC AND NUTRIENT LOADING FROM MEDITERRANEAN FISH FARMS
- 15:30 Thouzeau, G.; Grall, J.; Clavier, J.; Chauvaud, L.; Jean, F.; Leynaert, A.; ni Longphuirt, S.; Amice, E.; Amouroux, D.: MACROPHYTE AND MACROFAUNA DISTRIBUTIONS STRONGLY AFFECT BENTHIC BIOGEOCHEMICAL FLUXES IN THE EUTROPHICATED THAU LAGOON (FRANCE)
- 15:45 Borg, J. A.; Schembri, P. J.: IMPACT OF OFFSHORE TUNA-PENNING ON SOFT SEDIMENT MACROINVERTEBRATE ASSEMBLAGES IN MALTA (CENTRAL MEDITERRANEAN)
- 16:00 Bartoli, M.; Nizzoli, D.; De Leo, G.; Viaroli, P.: MOLLUSCS FARMING IN COASTAL LAGOONS OF THE NORTH ADRIATIC SEA, ITALY: IMPLICATIONS FOR OXYGEN AND NUTRIENT DYNAMICS
- 16:15 Aguado, F.; Vila, R.; Borredat, M.; Montoya, S.; García, B.; Marin, L.; Lloret, J.; Marin, A.: APPLICATION OF WHOLE-SEDIMENT TOXICITY TEST AS A TOOL TO ASSESS THE ENVIRONMENTAL IMPACT OF FISH FARMING.
- 16:30 Jover, D. E.; Sanchez-Jerez, P. J.; Bayle, J.; Carratala, A.; Leon, V.: ADDITION OF AMMONIUM AND DISSOLVED ORGANIC CARBON FROM WILD FISH AND FOOD WASTE AROUND SOUTH-WESTERN MEDITERRANEAN FISH FARMS.
- 16:45 Beaz, D.; Beaz, V.; Dürr, S.; Icely, J.; Lane, A.; Thomason, J.; Watson, D.; Willemssen, P.: SUSTAINABLE SOLUTIONS FOR MARICULTURE BIOFOULING IN EUROPE.

SS28: Copper: A Micronutrient or Toxic Element in the Environment?

- Chair(s): Maria T. Maldonado, mmaldonado@eos.ubc.ca
James W. Moffett, jmoffett@whoi.edu
- Location: Puerto del Camino Hotel V, Breakout #9
- 15:30 Morel, F. M.: TRACE ELEMENTS REQUIREMENTS AND REPLACEMENTS IN MARINE PHYTOPLANKTON: THE NEED FOR QUANTITATIVE BIOCHEMISTRY-
- 16:00 Maldonado, M. T.; Allen, A. E.; Chong, J. S.; Lin, K.; Leus, D.; Karpenko, N.: COPPER-DEPENDENT IRON TRANSPORT IN IRON-LIMITED MARINE DIATOMS
- 16:15 Wells, M. L.; Trick, C. G.; Cochlan, W. P.; Hughes, M. P.; Trainer, V. L.: DOMOIC ACID: THE SYNERGY OF IRON, COPPER AND THE TOXICITY OF DIATOMS
- 16:30 Tait, C. B.; Moffett, J.; Jayakumar, A.; Rich, J. J.; Naqvi, S. W.; Ward, B. B.: COPPER AND DENITRIFICATION IN THE EASTERN TROPICAL NORTH PACIFIC AND ARABIAN SEA
- 16:45 Moffett, J. W.: COPPER COMPLEXATION IN THE ARABIAN SEA
- 17:30 Arnold, W. R.: THE EFFECTS OF DISSOLVED ORGANIC CARBON ON COPPER TOXICITY IN SALTWATER AND THE NEED TO DEVELOP NEW CRITERIA FOR APPLICATION IN ESTUARIES
- 17:45 van den Berg, C. M.; Laglera, L.: THE BREAKDOWN OF COPPER-COMPLEXING LIGANDS IN ESTUARINE WATERS BY SOLAR RADIATION
- 18:00 Sigg, L.; Behra, R.; Xue, H.; Meylan, S.: COPPER: SPECIATION AND BIOAVAILABILITY IN FRESHWATER ENVIRONMENTS
- 18:15 Perez, P.; Estevez-Blanco, P.; Beiras, R.; Fernandez, E.: SEASONAL VARIABILITY OF THE EFFECT OF COPPER ADDITIONS ON THE PHOTOCHEMICAL EFFICIENCY OF COASTAL MARINE PHYTOPLANKTON

SS42: Hydrology-related Downstream-effects on Lakes

- Chair(s): S. Geoffrey Schladow, Gschladow@ucdavis.edu
Kenneth I. Ashley, Ken.Ashley@gems5.gov.bc.ca
- Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5
- 10:45 Stockner, J. G.: CLOSING THE CIRCLE: THE PERIL OF OLIGOTROPHICATION-
- 11:15 Humborg, C.; Pastuszak, M.; Mörth, C. M.; Rahm, L.; Danielsson, Å.; Smedberg, E.: HYDROLOGICAL ALTERATIONS WITH RIVER DAMMING - IMPLICATIONS FOR WEATHERING AND NUTRIENT LAND-SEA FLUXES*
- 11:30 Teodoru, C. R.; McGinnis, D. F.; Wüest, A.; Wehrli, B.: THE ROLE OF IRON GATE I RESERVOIR ON THE LOWER DANUBE RIVER AS A NUTRIENT AND SEDIMENT SINK*
- 11:45 Ashley, K. I.; Schindler, E. U.; Thompson, L. C.; Vidmanic, L.; Pick, F.; Andrusak, H.; Sebastian, D.: RESTORATION OF KOKANEE SALMON IN KOOTENAY LAKE, SOUTHEASTERN BRITISH COLUMBIA: RESULTS OF A WHOLE-LAKE NUTRIENT REPLACEMENT EXPERIMENT.
- 12:00 Rydin, E.; Vrede, T.; Persson, J.; Holmgren, S.; Tranvik, L.; Jansson, M.; Milbrink, G.: COMPENSATORY NUTRIENT ENRICHMENT IN AN OLIGOTROPHICATED RESERVOIR IN NORTHERN SCANDINAVIA - FATE OF ADDED NUTRIENTS
- 12:15 Fleenor, W. E.; Schladow, S. G.: STREAM-LAKE INTERACTIONS DOWNSTREAM OF WATER STORAGE RESERVOIRS
- 12:30 Finger, D.; Wuest, A. J.; Schmid, M.: EFFECT OF HYDROPOWER OPERATION ON DOWNSTREAM RIVERINE PARTICLE TRANSPORT AND DENSITY INTRUSIONS INTO PERI-ALPINE LAKES-
- 12:45 Chanudet, V.; Filella, M.; Loizeau, J. L.; Dominik, J.: COMPOSITION AND BEHAVIOR OF NATURAL COLLOIDS IN A (MODIFIED?) ALPINE WATERSHED
- 13:00 Sherman, B. S.; Todd, C. R.; Ryan, T. J.: MODELING THE IMPACT OF COLD WATER POLLUTION DOWNSTREAM OF HUME DAM, AUSTRALIA
- 13:15 Matzinger, A.; Jordanoski, M.; Sarafiloska-Veljanoska, E.; Spirkovski, Z.; Wüest, A.: HYDROLOGICAL EFFECTS OF ENVIRONMENTALLY DEGRADED UPSTREAM LAKE TO ANCIENT LAKE OHRID (MK/AL) - AN IMPACT ASSESSMENT
- 13:30 Boehrer, B.; Schultze, M.; Geller, W.: PATH OF MULDE FLOODS 2002 THROUGH LAKE GOITSCHHE DETERMINES LOCAL VARIABILITY OF IMPACT

SS49: An Ocean Literacy Campaign

- Chair(s): Michiko Martin, michiko.martin@noaa.gov
Francesca Cava, francesca.cava@noaa.gov
- Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7
- 15:30 Cava, F. M.; Tuddenham, P.; Schoedinger, S.; Strang, C.: OCEAN LITERACY THROUGH US SCIENCE STANDARDS-
- 16:00 Coble, P. G.: OCEAN SCIENCE EDUCATION - LESSONS FROM NASA*
- 16:15 Tuddenham, P.; Bishop, K.: OCEAN TO SPIRIT ON THE PILGRIMS WAY
- 16:30 Martin, M. J.: NATIONAL MARINE SANCTUARIES LIVE!
- 16:45 Widder, E. A.: PROMOTING OCEAN LITERACY: A SCIENTIST'S PERSPECTIVE*
- 17:30 Keener-Chavis, P.: BRINGING NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) OCEAN EXPLORERS AND THEIR DISCOVERIES TO CLASSROOMS THROUGHOUT THE WORLD
- 17:45 Lemus, J. D.: URBAN OCEAN SCIENCE EDUCATION AT THE UNIVERSITY OF SOUTHERN CALIFORNIA: BUILDING COMMUNITY INFRASTRUCTURE
- 18:00 Moravchik, B.; Sera, W. E.: NOAA'S DISCOVERY CENTER: CRITICALLY REVIEWED EDUCATION MODELS FOR PRESENTING OCEAN AND COASTAL SCIENCE.
- 18:15 Hammond, S. R.: NOAA OCEAN EXPLORATION PROGRAM: OCEAN DISCOVERIES FOR SCIENCE AND EDUCATION

SS53: Polar Aquatic Ecosystems and Environmental Change

- Chair(s): Carles Pedrós-Alló, cpedros@cmima.csic.es
John C. Prisco, jprisco@montana.edu
Warwick F. Vincent, warwick.vincent@bio.ulaval.ca
- Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1
- 10:45 Deming, J. W.: LIFE WITHOUT ICE: LEARNING FROM MICROORGANISMS IN ARCTIC HABITATS AND ECOSYSTEMS FACED WITH DEMISE
- 11:00 Stramska, M.; Stramski, D.: PARTICULATE ORGANIC CARBON CONCENTRATIONS IN THE NORTH POLAR ATLANTIC FROM SEAWIFS OCEAN COLOR OBSERVATIONS
- 11:15 Neale, P. J.; Jeffrey, W. H.; Sobrino, C.; Franklin, L. A.; Phillips-Kress, J.: UV INHIBITION OF PHYTOPLANKTON PHOTOSYNTHESIS DURING THE LATE STAGE OF AN EXTENSIVE ROSS SEA POLYNYA BLOOM

(*) represents Invited presentations

- 11:30 Wangberg, S. Å.; Andreasson, K.; Garde, K.; Gustavson, K.; Henriksen, P.; Reinthaler, T.: HOW SENSITIVE ARE ESTIMATES OF INHIBITION OF PHOTOSYNTHESIS BY UV-B RADIATION IN ARCTIC PHYTOPLANKTON FOR DIFFERENT BIOLOGICAL AND ENVIRONMENTAL FACTORS?
- 11:45 Leu, E.; Wangberg, S. Å.; Wulff, A.; Falk-Petersen, S.; Ørbaek, J. B.; Hessen, D. O.: DOES UV-RADIATION AFFECT THE NUTRITIONAL QUALITY OF AN ARCTIC DIATOM?
- 12:00 Perin, S. L.; Lean, D. R.: PLANKTONIC COMMUNITY RESPONSE TO INCREASED ULTRAVIOLET-B RADIATION IN A HIGH LATITUDE LAKE: RESULTS FROM AN SITU MESOCOSM EXPERIMENT
- 12:15 Morán, X. A.; Sebastián, M.; Estrada, M.; Pedrós-Alió, C.: RESPONSE OF SOUTHERN OCEAN PHYTOPLANKTON AND BACTERIOPANKTON PRODUCTION TO WARMING
- 12:30 Guadayol, Ó.; Peters, F.; Vaqué, D.; Felipe, J.; Pedrós-Alió, C.: BALANCE BETWEEN BACTERIAL GROWTH AND PROTOZOAN GRAZING IN POLAR OCEANS.
- 12:45 Vaqué, D.; Guadayol, Ó.; Peters, F.; Felipe, J.; Pedrós-Alió, C.: EFFECT OF TEMPERATURE ON PROTIST GRAZING ON BACTERIA IN ANTARCTIC WATERS
- 13:00 Helmke, E.; Jürgens, J.; Klauke, U.; Brinkmeyer, R.: POTENTIAL OF SEA ICE AND BENTHIC BACTERIAL COMMUNITIES TO ADAPT TO CHANGING ENVIRONMENTAL CONDITIONS
- 13:15 McGillivray, P. A.; D'Spain, G. L.; Boyd, T.; Doolittle, D.: AUTONOMOUS VEHICLE STUDIES FOR SUBMARINE AND SUB-ICE SHELF EXPLORATION TO UNDERSTAND ECOSYSTEM CHANGES IN THE WESTERN ROSS SEA
- 13:30 Carroll, M. L.; Ambrose, W. G.; Greenacre, M.; McMahon, K.; Thorrold, S.: PATTERNS OF VARIATION IN BIVALVE GROWTH IN A NORWEGIAN HIGH-ARCTIC FJORD: EVIDENCE FOR LOCAL- AND LARGE-SCALE CLIMATIC FORCING
- 15:30 Laybourn-Parry, J.: CROSS POLAR COMPARISONS OF ECOSYSTEM PROCESSES AND BIODIVERSITY IN LAKES-
- 16:00 Prisco, J. C.; Christner, B. C.; Foreman, C. F.; Mikucki, J. A.; Royston-Bishop, M.; Tranter, M.; Siegert, M. J.: BIODIVERSITY AND BIOGEOCHEMICAL PROCESSES IN SUBGLACIAL LAKE VOSTOK, EAST ANTARCTICA
- 16:15 Taton, A.; Hodgson, D.; Wilmutte, A.: CYANOBACTERIAL DIVERSITY IN ANTARCTICA BASED ON 16S RRNA GENE SEQUENCES
- 16:30 Pearce, D. A.: THE BACTERIOPANKTON COMMUNITY STRUCTURE OF AN ANTARCTIC FRESHWATER LAKE FOLLOWING NATURAL NUTRIENT ENRICHMENT, AND RESILIENCE TO ENVIRONMENTAL CHANGE.
- 16:45 Camacho, A.; Rochera, C.; Rico, E.; Petz, W.; Fernandez-Valiente, E.; Toro, M.; Vincent, W. F.; Quesada, A.: EFFECTS OF GRAZING AND NUTRIENT RELEASE BY COPEPODS ON THE MICROBIAL FOOD WEB OF AN ANTARCTIC LAKE.
- 17:30 McKenna, K. C.; Moorhead, D. L.; Laybourn-Parry, J.: TROPHIC STRUCTURE AND PATTERNS OF CARBON FLOW IN THE PELAGIC FOOD WEB OF ACE LAKE, ANTARCTICA
- 17:45 Moorhead, D. L.: ALTERNATING ROLE OF EPHEMERAL WETLANDS IN ANTARCTIC DRY VALLEYS: ORGANIC MATTER PRODUCTION AND EXPORT
- 18:00 Karlsson, J.; Jansson, M.; Jonsson, A.: PRODUCTIVITY OF SUBARCTIC LAKES: CLIMATE EFFECT INFERRED FROM ALTITUDE GRADIENT
- 18:15 Korhola, A.; Weckström, J.; Sorvari, S.: LONG-TERM CHANGES IN CHEMICAL ATTRIBUTES OF SUB-ARCTIC LAKES IN NORTHERN FENNOSCANDIA

SS57: Eutrophication, Macroalgal Blooms and Coastal Ecosystem Services

Chair(s): Just Cebrian, jcebrian@disl.org
Nuria Marba, nuria.marba@uib.es

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 17:30 Vallela, I.; Fox, S.; Teichberg, M.: EUTROPHICATION AND MACROALGAL BLOOMS: CURRENT UNDERSTANDING OF CONTROLS AND ROLE OF MACROALGAE IN COMMUNITY DYNAMICS AND COASTAL SERVICES-
- 18:00 Pedersen, M. F.: THE ECOPHYSIOLOGICAL CAUSES OF MACROALGAL BLOOMS
- 18:15 Nielsen, S. L.: THE FATE OF MACROALGAL BLOOMS

SS73:

Coupling of Physical, Chemical and Biological Processes in Plankton Dynamics: A Quantitative Multidisciplinary Perspective

Chair(s): Yvan Lagadeuc, yvan.lagadeuc@univ-rennes1.fr
Jef Huisman, jef.huisman@science.uva.nl
Myriam Bormans, myriam.bormans@univ-rennes1.fr

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 15:30 Jöhnk, K. D.; Huisman, J.: METEOROLOGICAL AND HYDRODYNAMICAL FORCING OF PLANKTON DYNAMICS-
- 15:45 Klausmeier, C. A.; Litchman, E.; Daufresne, T.; Levin, S. A.: PHYTOPLANKTON STOICHIOMETRY-
- 16:00 Steiner, N. S.; Denman, K.; McFarlane, N.; Solheim, L.: SIMULATING CANADIAN SOLAS EXPERIMENTS WITH A 1-D COUPLED ATMOSPHERE-OCEAN-BIOGEOCHEMICAL MODEL
- 16:15 Lewis, D. M.: A MODEL OF PLANKTON DYNAMICS COUPLED WITH A LES OF THE SURFACE MIXED LAYER
- 16:30 Koslow, J. A.; Pesant, S.; Hanson, C.; Paterson, H.; Pearce, A. F.; Strzelecki, J. M.: THE SEASONAL PATTERN OF PLANKTON PRODUCTION OFF THE WEST COAST OF AUSTRALIA: ROLE OF THE LEEUWIN, A DOWNWELLING EASTERN BOUNDARY CURRENT
- 16:45 Vézina, A. F.; Pahlow, M.; Casault, B.; Brickman, D.; Li, W. K.: MODELING PLANKTON DYNAMICS WITH A VARIABLE-COMPLEXITY PHYSICAL-BIOLOGICAL MODEL
- 17:30 Cuyppers, Y.; Vinçon Leite, B.; Tassin, B.; Poulin, M.: INTERNAL WAVES AND BOUNDARY MIXING IN A DEEP SUB-ALPINE LAKE
- 17:45 Pannard, A.; Bormans, M.; Lagadeuc, Y.: DYNAMIC OF PHYTOPLANKTON IN RESPONSE TO RAPID EVENTS OF PHYSICAL FORCING IN THREE TEMPERATE LAKES (RAIN AND WIND)
- 18:00 Bormans, M.; Ford, P. W.: PHYSICAL PROCESSES CONTROL THE VARIABILITY IN PHYTOPLANKTON POPULATIONS IN BOTH TEMPERATE AND TROPICAL AUSTRALIAN RIVERS
- 18:15 Loiselle, S. A.; Cózar, A. C.; Tognazzi, A.; Galvez, J. A.: LIGHT CONTROL OF PLANKTON BIOMASS IN DYNAMIC ECOSYSTEMS

SS81: Single-cell Analyses in Aquatic Microbes: Patterns, Controls, and Linkages Between Biogeochemical Function and Microbial Diversity

Chair(s): Josep M. Gasol, pepgasol@icm.csic.es
Barry F. Sherr, sherrb@coas.oregonstate.edu
Gerhard J. Herndl, herndl@nioz.nl

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 17:30 Kirchman, D. L.; Cottrell, M. T.; Elifantz, H.; Malmstrom, R. R.: LINKING BACTERIAL COMMUNITY STRUCTURE AND DOM FLUXES IN AQUATIC ECOSYSTEMS-
- 18:00 Teira, E.; Herndl, G. J.: PROKARYOTES DISTRIBUTION AND ACTIVITY IN THE DEEP WATERS OF THE NORTH ATLANTIC
- 18:15 Elifantz, H.; Cottrell, M. T.; Kirchman, D. L.: ASSIMILATION OF LMW AND HMW DOM BY MAJOR BACTERIAL AND ARCHAEL GROUPS IN THE WESTERN ARCTIC OCEAN

SS83: Spatial Processes in Marine and Freshwater Ecosystems

Chair(s): E. Agnes E. Blukacz, ablukacz@utm.utoronto.ca
W. Gary W. Sprules, gsprules@utm.utoronto.ca
Andre W. Visser, awv@dfu.min.dk

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 10:45 Powell, T. M.: SPATIAL PATTERN: A TUTORIAL ON CAUSES, MEASUREMENT, UNDERSTANDING, AND IMPORTANCE -
- 11:15 Sprules, W. G.; Blukacz, E. A.: EFFECTS OF SPATIAL PATTERNS ON THE BIOENERGETICS OF PREDATION IN AQUATIC ECOSYSTEMS: REVIEW AND SYNTHESIS-

(^c) represents Tutorial presentations

- 11:45 Visser, A. W.; Klørboe, T.: MOTILITY, ENCOUNTER AND SPATIAL PATTERNING OF PLANKTON
- 12:00 Blukacz, E. A.; Sprules, W. G.; Shuter, B. J.: EVALUATING THE EFFECT OF PHYSICALLY AND BIOLOGICALLY DRIVEN PREY PATCHINESS ON ZOOPLANKTON CONSUMPTION
- 12:15 Currie, W.: TYRANNY OF SCALE AND THE CONSEQUENCE OF PATCHINESS
- 12:30 Butler, N. M.; Johnston, B.; Jacobson, J.; Saulnier, P.: MODELING AGGREGATIONS: COMPARISON OF AGGREGATIVE BEHAVIORS OF OSTRACODS AND BRINE SHRIMP USING RADIAL DISTRIBUTION FUNCTIONS
- 12:45 Basedow, S. L.; Fosshelm, M.; Edvardsen, A.; Tande, K. S.: VERTICAL PATCHINESS AND SIZE STRUCTURED HABITAT SELECTION OF MARINE ZOOPLANKTON
- 13:00 Hunt, D. E.; Veneziano, D.; Polz, M. F.: CHANGES IN THE SPATIAL DISTRIBUTION (PATCHINESS) OF COASTAL BACTERIOPLANKTON AND THE RELATIONSHIP OF PATCHINESS WITH CHEMICAL AND BIOLOGICAL PARAMETERS
- 13:15 Bees, M. A.: PLANKTON BLOOMS INDUCED BY INERTIAL SEGREGATION IN COMPLEX FLOWS
- 13:30 Meredith, S. N.; Johnson, T. B.; Sharpe, C.; Matveev, V. F.: SPATIAL ONTOGENY OF A ZOOPLANKTIVOROUS FISH IN A SUB-TROPICAL AUSTRALIAN RESERVOIR: A BIOENERGETIC ANALYSIS
- 15:30 BULIT, C.; MONTAGNES, D.: APPLYING GEOSTATISTICS TO ASSESS PLANKTON PATCHES: A CASE STUDY USING THE CILIATE MYRIONECTA RUBRA
- 15:45 Fiksen, Ø.: HABITAT SELECTION IN LARVAL FISH: SPATIAL GRADIENTS, GROWTH AND SURVIVAL
- 16:00 Durbin, E. G.; Casas, M. C.: FINE-SCALE DIFFERENTIAL VERTICAL PARTITIONING OF THE WATER COLUMN BY DIFFERENT COPEPOD TAXA
- 16:15 Trulsen, J.; Boffetta, G.; Pecselli, H. L.: NUMERICAL SIMULATIONS OF PREDATOR-PREY ENCOUNTERS IN TURBULENT FLOWS
- 16:30 Torgersen, T.: SPATIAL VARIABILITY OF MORTALITY RATES
- 16:45 Piera/Jaume, J.; Quesada/Ruben, R.; Catalan/Jordi, J.: CHARACTERIZING SHORT-TIME TURBULENT PROCESSES: POTENTIAL IMPLICATIONS ON THE DYNAMICS OF AQUATIC ECOSYSTEMS
- 17:30 Cowles, T. J.; Dale, A. C.; Wijesekera, H.; Boyd, T.: PERSISTENT FINESCALE PLANKTONIC STRUCTURE: EVALUATING THE BALANCE BETWEEN VERTICAL AND HORIZONTAL PROCESSES
- 17:45 Ekloy, P.; Svanbäck, R.: SPECIES INTERACTIONS EFFECTS ADAPTIVE DIVERGENCE IN PERCH POPULATIONS
- 18:00 Mercedes Gonzalez-Wanguemert, M. G.; Angel Pérez-Ruzafa, A. P.; Jose Antonio Garcia-Charton, J. G.; Concepción Marcos, C. M.: SPATIAL PATTERNS IN THE GENETIC DIVERSITY OF DIPLODUS SARGUS IN NORTH ATLANTIC AND WESTERN MEDITERRANEAN POPULATIONS
- 18:15 Leterme, S. C.; Pingree, R. D.: IMPACT OF MESO-SCALE PHYSICAL PROCESSES ON PHYTOPLANKTON DISTRIBUTION IN THE NORTHWEST ATLANTIC OCEAN

SS89: Global Limnology

Chair(s): Yves Prairie, prairie.yves@uqam.ca
Jonathan Cole, cole@ecostudies.org

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 15:30 Downing, J. A.; Prairie, Y. T.; Cole, J. J.; Duarte, C. M.; Tranvik, L. J.; Striegl, R. G.; McDowell, W. H.; Kortalainen, P.; Middelburg, J.; Melack, J. M.: THE GLOBAL SIZE DISTRIBUTION AND ABUNDANCE OF LAKES, PONDS, AND IMPOUNDMENTS
- 15:45 Kutser, T.; Tranvik, L. J.; Pierson, D. C.: REMOTE SENSING AS A TOOL FOR GLOBAL LIMNOLOGY
- 16:00 Prairie, Y. T.; Duarte, C. M.: THE GLOBAL CONTRIBUTION OF SALINE LAKES TO CARBON EVASION TO THE ATMOSPHERE
- 16:15 Sobek, S.; Tranvik, L. J.; Cole, J. J.: PATTERNS AND REGULATION OF PCO2 AND DOC CONCENTRATION IN GLOBAL LAKES
- 16:30 WALDRON, S.; SOULSBY, C.: THE IMPORTANCE OF SMALL ORDER RIVER SYSTEMS IN THE GLOBAL DOC BUDGET
- 16:45 Green, A. J.; Figuerola, J.; Rodríguez-Pérez, H.: ORNITHOLIMNOLOGY: A REVIEW OF THE ROLE OF BIRDS IN AQUATIC SYSTEMS
- 17:30 Gutiérrez, J. D.; Ospina, R.; Riss, H. W.: A NEW CLASSIFICATION SYSTEM FOR RIVER SEGMENTS IN CUNDINAMARCA- COLOMBIA
- 17:45 Brunberg, A. K.: EVOLUTION OF LAKE ECOSYSTEMS – DIFFERENT PATTERNS OF ONTOGENY IN A LAND-RISE AREA OF SWEDEN
- 18:00 Bastviken, D.; Cole, J. J.; Pace, M. L.; Tranvik, L.: METHANE EMISSIONS FROM LAKES: DEPENDENCE OF LAKE CHARACTERISTICS, TWO REGIONAL ASSESSMENTS, AND A GLOBAL ESTIMATE
- 18:15 Brezonik, P. L.; Clesceri, N. L.: LARGE-SCALE LIMNOLOGICAL RESEARCH: A MULTIDISCIPLINARY INFRASTRUCTURE STRATEGY BASED ON ENVIRONMENTAL OBSERVATORY NETWORKS

(*) represents Invited presentations

Tuesday, 21 June 2005

SS02: Ecology of Gelatinous Zooplankton

Chair(s): Francisc Pages, fpages@cmima.csic.es
Jennifer E. Purcell, purcej@cc.wvu.edu

Location: Puerto del Camino Hotel II, Breakout #11

- 12:15 Båmstedt, U.: EUROGEL. MECHANISMS BEHIND JELLYFISH BLOOMS AND THEIR ECOLOGICAL AND SOCIO-ECONOMIC EFFECTS -
- 12:30 Acuña, J. L.: SPREADING THE TUNICATE JELLY*
- 12:45 Choe, N.; Deibel, D.: LIFE HISTORY STRATEGIES OF THE APPENDICULARIANS OIKOPLEURA LABRADORIENSIS AND OIKOPLEURA VANHOEFFENI
- 13:00 Troedsson, C.; Aksnes, D. L.; Thompson, E. M.: A LIFE-HISTORY MODEL INTEGRATING GROWTH WITH DEVELOPMENTAL CLOCKING AND ENVIRONMENTAL FORCING IN OIKOPLEURA DIOICA
- 13:15 Lombard, E.; Renaud, F.; Sainsbury, C.; Sciadra, A.; Gorsky, G.: DYNAMIC ENERGY BUDGET IN OIKOPLEURA DIOICA (APPENDICULARIA)
- 13:30 Madin, L. P.; Kremer, P.: LIFE HISTORY AND ENERGETICS OF SALPA THOMPSONI IN THE SOUTHERN OCEAN
- 15:15 Scheinberg, R. D.; Hoover, D. J.; Landry, M. R.; DeCarlo, E. H.; Mackenzie, F. T.: GELATINOUS ZOOPLANKTON RESPONSE TO A MAJOR STORM RUNOFF EVENT IN A HAWAIIAN ESTUARY
- 15:30 Pagès, E.; Flood, P.; Youngbluth, M.; Jacoby, C. J.; Uiblein, F.; Båmstedt, U.: A SUBMERSIBLE-BASED EXPLORATION OF GELATINOUS ZOOPLANKTON IN BASINS AND CANYONS OFF THE GULF OF MAINE (NORTHWESTERN ATLANTIC) IN SEPTEMBER (2002, 2003, 2004)
- 15:45 Sørnes, T. A.; Kaartvedt, S.; Hosiá, A.; Aksnes, D. L.; Båmstedt, U.: SWIMMING AND FEEDING OF A CORONATE MIDWATER MEDUSA, AND A SIMPLE MECHANISTIC MODEL PREDICTING ITS TROPHIC FUNCTION
- 16:00 Riemann, L.; Titelman, J.; Griekspoor, P.; Båmstedt, U.: PLANKTON COMMUNITY STRUCTURE AND BACTERIAL COMMUNITY COMPOSITION IN A NORWEGIAN FJORD DOMINATED BY THE MEDUSA PERIPHYLLA PERIPHYLLA
- 16:15 Titelman, J.; Riemann, L.; Sørnes, T.; Griekspoor, P.; Båmstedt, U.: SINK OR LINK? STIMULATION AND RETARDATION OF MICROBIAL ACTIVITY BY DEAD JELLYFISH
- 16:30 Haddock, S. H.; Pugh, P. R.; Dunn, C. W.: NEW SPECIES OF DEEP-SEA SIPHONOPHORES WITH NOVEL BIO-OPTICAL PROPERTIES
- 16:45 Stemmann, L.; Picheral, M.; Gorsky, G.; Diamond, E.; Youngbluth, M. J.; Sørnes, T.; Hosiá, A.; Sølland, H.: BASIN AND MESOSCALE DISTRIBUTION OF GELATINOUS MACROPLANKTON IN THE UPPER 1000 M DEPTH ALONG THE MID-ATLANTIC RIDGE (MAR-ECO PROJECT)
- 17:30 Matsumoto, G. J.; Sherlock, R. E.; Robison, B. H.: TRACHYMEDUSAE FROM DEEP IN MONTEREY BAY: WHO'S WHERE AND WHAT'S FOR LUNCH
- 17:45 Edgington, D. R.; Oliver, D.; Cline, D. E.; Sherlock, R. E.; Robison, B. H.; Ranzato, M. A.; Perona, P.: AUTOMATED ANNOTATION OF MIDWATER VIDEO TRANSECTS: TAKING A LOOK AT THE DISTRIBUTION OF POEOBIUS MESERES IN MONTEREY BAY DURING AND AFTER AN EL NINO
- 18:00 Robison, B. H.; Sherlock, R. E.; Reisenbichler, K. R.; Haddock, S. H.; Raskoff, K. A.: BIOGEOGRAPHY OF MESOPELAGIC, GELATINOUS ZOOPLANKTON ACROSS THE EASTERN NORTH PACIFIC OCEAN
- 18:15 Youngbluth, M. J.; Jacoby, C. A.; Frost-Fajans, J. R.; Shale, D.: DISTRIBUTION, METABOLISM AND BEHAVIOR OF THE DEEP-LIVING CEPHALOPOD STAURITEUTHIS SYRTENSIS (SUBORDER CIRRATA)
- 18:30 Johnston, B. D.; Irvine, H.; Sölje, I.; Pierce, G. J.; Secombes, C. J.: ECOLOGICAL TOXICOLOGY AND EFFECTS OF MASS OCCURRENCES OF GELATINOUS ZOOPLANKTON ON TELEOSTS IN ENCLOSED COASTAL ECOSYSTEMS
- 18:45 Hansson, L. J.; Klørboe, T.: FEEDING MECHANISMS IN AN AMBUSH FEEDING HYDROMEDUSA (SARSIA TUBULOSA)
- 19:00 González, H. E.; Pagès, F.; Sobarzo, M.: GELATINOUS ZOOPLANKTON ASSEMBLAGES AND HYDROGRAPHY OFF NORTHERN CHILE DURING EL NIÑO 1997-98
- 19:15 Pitt, K. A.; Connolly, R. M.: STABLE ISOTOPES DISTINGUISH THE TROPHIC PATHWAYS OF AZOOXANTHELLATE AND ZOOXANTHELLATE RHIZOSTOME JELLYFISH IN EASTERN AUSTRALIA

SS03: Trace Metal Cycling in Aquatic Environments

Chair(s): Antonio Tovar-Sanchez, antonio.tovar@uib.es
Sergio A. Sañudo-Wilhelmy, ssanudo@notes.cc.sunysb.edu

Location: Puerto del Camino Hotel V, Breakout #9

- 12:15 De Baar, H. J.; Boyd, P. W.; Coale, K. H.; Landry, M. K.; Tsuda, A.; Bozec, Y.; Rijkenberg, M. J.: SYNTHESIS OF 8 IRON FERTILIZATION EXPERIMENTS: FROM THE IRON AGE IN THE AGE OF ENLIGHTENMENT -

- 12:45 Hamilton-Taylor, J.; Davison, W.: GEOCHEMICAL MODELLING OF TRACE METAL CYCLING IN LAKES
- 13:00 Sulzberger, B.: EFFECTS OF SOLAR RADIATION AND DISSOLVED ORGANIC MATTER ORIGIN ON TRACE METAL CYCLING IN SURFACE WATERS
- 13:15 Rijkenberg, M. J.; Gerringa, L. J.; Buma, A. G.; Timmermans, K. R.; Wolterbeek, H. T.; Fischer, A. C.; de Baar, H. J.: MARINE FE(II) PHOTOPRODUCTION AFFECTED BY INDIVIDUAL FE-BINDING LIGANDS AND DIATOMS
- 13:30 Sarthou, G.; Gallinari, M.; Vincent, D.; Barreau, M.; Leynaert, A.; Ragueneau, O.: IMPACT OF COPEPOD GRAZING ON FE SPECIATION AND ON THE DECOUPLING BETWEEN FE AND SI CYCLES IN THE OCEAN
- 15:15 Church, T. M.; Hanson, T. E.; Amouroux, D.: PROCESSES FOR FORMATION OF VOLATILE TRACE ELEMENT SPECIES IN THE OCEAN: EVIDENCE USING TELLURITE RESISTANT MICROBES
- 15:30 Mortimer, R. J.; Krom, M. D.; Morris, K.; Hayes, P. J.; Davies, I. M.; Zhang, H.; Davison, W.: IRON AND MANGANESE REDUCTION IN RECENT MARINE SEDIMENTS: NEW INSIGHTS FROM AN IN SITU DGT EXPERIMENT.
- 15:45 Dudel, Gert, E.; Felbicke, Michael.; Mkandawire, Martin.; Ottenströer, Thomas.; Ross, Jan-Henning.; Vogel, Kerstin.; Weiske, Arndt.; PRIMARY PRODUCTION AND SEDIMENTATION FORM A CONTINUOUS URANIUM SINK REGARD-LESS OF CHEMICAL SPECIATION CHANGES
- 16:00 Chen, C. Y.; Stemberger, R. S.; Kamman, N. C.; Mayes, B. M.; Folt, C. L.: PATTERNS OF HG BIOACCUMULATION AND TRANSFER IN AQUATIC FOOD WEBS ACROSS MULTI-LAKE STUDIES IN THE NORTHEAST US
- 16:15 Rippey, B.: THE CONTROL OF ANTHROPOGENIC PB CONCENTRATION IN LAKE SEDIMENTS BY THE PARTICLE FLUX IN CATCHMENTS
- 16:30 Knight, S. M.; Cave, R. R.; Leech, D. P.; Morley, N. H.: MOBILE VOLTAMMETRIC ANALYSIS SYSTEM FOR THE DETERMINATION OF DISSOLVED COPPER IN SURFACE SEAWATER OFF THE WEST COAST OF IRELAND
- 16:45 Anninou, P.; Cave, R. R.; Ullgren, J.; Morley, N.: ARSENIC IN IRISH COASTAL AND OCEANIC ENVIRONMENTS

SS07: Applied Ecosystem-level Research to Reverse Coral Reef Degradation

Chair(s): Michael J. Dowgiallo, michael.dowgiallo@noaa.gov
Felix A. Martinez, felix.martinez@noaa.gov

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 17:30 Martinez, F. A.: SCIENTISTS, MANAGERS, AND STAKEHOLDERS: PARTNERSHIP FOR CORAL REEF ECOSYSTEM MANAGEMENT -
- 18:00 Dowgiallo, M. J.: CORAL REEF ECOSYSTEM RESEARCH: EXAMPLES OF LONG-TERM REGIONAL STUDIES IN THE ATLANTIC AND PACIFIC
- 18:15 D'Elia, C. E.: SYMBIOSIS EXPEDITION REDUX: A RETROSPECTIVE ASSESSMENT OF A 1971 TEAM STUDY OF A CORAL REEF ECOSYSTEM AT ENEWETAK, MARSHALL ISLANDS
- 18:30 Riegl, B. M.; Purkis, S. J.; Dodge, R. E.; Vargas, B.; Shivji, M. S.: THE NCRI MONITORING NETWORK: MULTI-DIMENSIONAL AND MULTIDISCIPLINARY REEF ASSESSMENT ON A WORLDWIDE SCALE*
- 18:45 Mumby, P. J.: MANAGING THE RESILIENCE OF CARIBBEAN CORAL REEFS: ARE MARINE RESERVES ENOUGH AND WHAT IS THE ADDED VALUE OF INCORPORATING TERRESTRIAL MANGROVE FORESTS?
- 19:00 Neely, K. L.: USING A META-ANALYSIS OF MONITORING DATA TO DETERMINE THE EFFECTS OF BLEACHING ON REEF INHABITANTS
- 19:15 Purkis, S. J.; Riegl, B. M.; Dodge, R. E.: SPATIAL PATTERNS IN CORAL COMMUNITIES AS AN INDICATION OF ECOSYSTEM STATUS

SS08: Carbon and Carbonate Fluxes in the Coastal Ocean

Chair(s): Jean-Pierre Gattuso, gattuso@obs-vlfr.fr
Fred T. Mackenzie, fredm@soest.hawaii.edu

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 12:15 Souza, M. L.; Santana, T. B.: CARBONATE SATURATION STATE, CALCIFICATION AND METABOLISM IN TIDAL POOLS OF COROA VERMELHA REEF FLAT, BAHIA, BRAZIL
- 12:30 Harlay, J.; van der Zee, C.; Schiettecatte, L. S.; Godoi, R. H.; Aerts, K.; Lapernat, P. E.; Roeyers, N.; Rebreanu, L.; Groom, S.; Chou, L.: BIOGEOCHEMICAL STUDY OF A COCCOLITHOPHORE BLOOM AT THE CONTINENTAL MARGIN IN THE NORTHEAST ATLANTIC
- 12:45 Bozec, Y.; Thomas, H.; Schiettecatte, L. S.; Borges, A. V.; Elkalay, K.; de Baar, H. J.: PROCESSES CONTROLLING THE SEASONAL VARIATIONS OF INORGANIC CARBON IN THE NORTH SEA

(*) represents Tutorial presentations

- 13:00 Brijon, N.; Elskens, M.; Leermakers, M.; Chevalier, E.; Baeyens, W.; Chou, L.; Van Der Zee, C.; Roevros, N.; Schiettecatte, L. S.; Borges, A. V.; Gazeau, F.; Frankignoulle, M.; Laane, R. W. P. M.: A BUDGET APPROACH APPLIED TO NUTRIENTS (N, P, Si) AND DIC IN THE SOUTHERN BIGHT OF THE NORTH SEA: RESULTS FROM THE CANOPY PROJECT.
- 13:15 Jiang, M. S.; Wallace, G. T.; Zhou, M.; Libby, S.; Zhang, Z.; Hunt, C.: SUMMER FORMATION OF A HIGH NUTRIENT LOW OXYGEN POOL IN CAPE COD BAY, USA
- 13:30 Pérez, F. F.: CO₂ SEASONAL VARIABILITY IN AN EUROPEAN SHELF AFFECTED BY UPWELLING: THE GALICIAN SHELF (NW SPAIN)

SS12: Quantifying Bioturbation and Bio-irrigation: A 'Camino' Beneath the Sediment-water Interface

Chair(s): Filip J. R. Meysman, f.meysman@nioo.knaw.nl
Jack J. Middelburg, j.middelburg@nioo.knaw.nl

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 12:15 Kristensen, E.; Min, T.; Papaspyrou, S.: TEMPORAL VARIATION OF BENTHIC METABOLISM IN SHALLOW COASTAL ENVIRONMENTS: POTENTIAL ROLE OF MICROPHYTOBENTHOS AND IRRIGATING INFAUNA
- 12:30 Marinelli, R. L.; Woodin, S. A.; Wethey, D. S.: UNEARTHING LINKAGES BETWEEN INFAUNAL BEHAVIOR AND BIOGEOCHEMICAL PROCESSES IN NEARSHORE SEDIMENTS - PROFILES, FLUXES AND TECHNOLOGICAL ADVANCES
- 12:45 Jumars, P. A.; Dorgan, K. M.; Boudreau, B. P.; Johnson, B. D.; Mayer, L. M.: INSIDE THE BLACK BOX OF BIOTURBATION: VIEWS THROUGH THE PORTHOLES OF PHYSICAL AND CHEMICAL CONSTRAINTS
- 13:00 Woodin, S. A.; Wethey, D. S.; Marinelli, R. L.: BEHAVIOR, FLUX AND BIOTURBATION
- 13:15 Shull, D. H.; Kremp, A.; Mayer, L. M.: LIVING TRACERS: BIOTURBATION AND GERMINATION OF DINOFLAGELLATE CYSTS (ALEXANDRIUM SPP) IN GULF OF MAINE SEDIMENTS
- 13:30 Norling, K.; Rosenberg, R.: BIOTURBATION RATES OF BENTHIC MACROFAUNA
- 15:15 Malyuga, V. S.; Meysman, F. J.; Middelburg, J. J.: NON-LOCAL EXCHANGE MODELS OF BIOTURBATION: BIOLOGICAL PERSPECTIVE AND ACCURATE MATHEMATICAL DESCRIPTION
- 15:30 Bentley, S. J.; Sheremet, A.; Jaeger, J. M.: BIOTURBATION, SEDIMENTATION, AND SEDIMENTARY FABRIC: FIELD AND MODEL COMPARISON IN CONTRASTING SHELF AND ESTUARINE SETTINGS
- 15:45 Bradshaw, C.; Hedman, J. J.; Thorsson, M. J.; Gilek, M. J.; Gunnarsson, J. J.: EFFECTS OF BIOTURBATION AND ORGANIC MATTER QUALITY ON THE DISTRIBUTION OF BDE-99 AND CADMIUM IN BALTIC SEA SEDIMENT
- 16:00 Neylon, S. K.; Bentley, S. J.: LABORATORY MICROCOSM MEASUREMENTS OF SEDIMENT BIOTURBATION BY OPHIUROIDS VIA TIME-SERIES DIGITAL X-RADIOGRAPHY
- 16:15 Weissberger, E. J.; Jumars, P. A.; Mayer, L. M.: COMPENSATORY RESPONSES IN FEEDING RATE OF DEPOSIT-FEEDING POLYCHAETES EXPOSED TO ABRUPT TEMPERATURE CHANGES
- 16:30 Na, T. H.; Klomp, N.; Milla, M.; Lee, T. S.; Meysman, F.: QUANTIFYING BIO-IRRIGATION RATES: MECHANICAL MIMICS OF ORGANISMS AND ON-LINE TRACER MEASUREMENTS

SS13: Stable Isotopes in Ecology and Biogeochemistry

Chair(s): Eric Boschker, e.boschker@nioo.knaw.nl
Jack J. Middelburg, j.middelburg@nioo.knaw.nl

Location: Puerto del Camino Hotel I, Breakout #10

- 12:15 Richard, P.; Treuil, E.; Guillou, G.; Blanchard, G.; Guarini, J. M.: MULTIPLE STABLE ISOTOPES EVIDENCE OF THE ROLE OF BENTHIC PRIMARY SOURCES AS TROPIC RESSOURCES OF MUSSELS IN AIGUILLON BAY, FRANCE
- 12:30 Bingham, E. M.; Preston, T.; Curry, G. B.; Waldron, S.: SEASONAL VARIATIONS IN STABLE ISOTOPES OF THE LIMPET PATELLA VULGATA L., FIRTH OF CLYDE, SCOTLAND: A REFLECTION OF SOURCE OR CHANGES IN THE REPRODUCTIVE CYCLE?
- 12:45 Connolly, R. M.; Hindell, J. S.; Gorman, D.: MOVEMENT OF CARBON IN COASTAL WATERS – INWELLING OF SEAGRASS MATERIAL SUPPORTS A FISHERIES SPECIES
- 13:00 Quevedo, M.; Eklöv, P.; Svanbäck, R.; Olsson, J. C.: EFFECT OF HABITAT SPECIALIZATION ON THE TROPIC POSITION OF LACUSTRINE PREDATORS
- 13:15 ROUX, M. J.; Anderson, M. R.; Planas, D.; Veinott, G.: LINKING TROPIC DYNAMICS AND HABITAT-COUPPLING TO MERCURY BIOACCUMULATION IN FISH: A BI-DIMENSIONAL APPROACH TO FOOD WEB STRUCTURE.
- 13:30 Rusak, J. A.; Vander Zanden, M. J.: TEMPORAL AND SPATIAL VARIABILITY OF CARBON AND NITROGEN ISOTOPE RATIOS IN NORTH-TEMPERATE ZOOPLANKTON

- 15:15 Soreide, J. E.; Hop, H.; Carroll, M.; Falk-Petersen, S.: TROPIC POSITIONS WITHIN THE MARINE PLANKTON COMMUNITY OF THE EUROPEAN HIGH ARCTIC
- 15:30 Decottignies, P.; Beninger, P. G.; Rincé, Y.; Riera, P.: TROPIC COMPETITION BETWEEN TWO SYMPATRIC SUSPENSIVORES: CRASSOSTREA GIGAS AND CREPIDULA FORNICATA, IN BOURGNEUF BAY (FRANCE)
- 15:45 Lysiak, N. S.; Moore, M. J.; Valiela, I.; Knowlton, A. R.: STABLE ISOTOPES OF NORTH ATLANTIC RIGHT WHALE BALEEN AS INDICATORS OF FORAGING AND MIGRATION PATTERNS
- 16:00 Demopoulos, A. W.; Cormier, N.; Ewel, K. C.; Fry, B.: DEFINING LINKS AMONG COASTAL ECOSYSTEMS USING A MULTI-TRACER APPROACH AND MANGROVE CRABS
- 16:15 Oakes, J. M.; Connolly, R. M.; Reville, A. T.: MEASURING CARBON ISOTOPE RATIOS OF MICROPHYTOBENTHOS USING COMPOUND-SPECIFIC STABLE ISOTOPE ANALYSIS OF PHYTOL
- 16:30 Persaud, A. D.; Dillon, P. J.: TROPIC DYNAMICS IN THE ZOOPLANKTON COMMUNITY ALONG A DOC GRADIENT

SS22: Polar Shelf-basin Exchange: Physical Forcing, Biogeochemical Fluxes and Food Web Dynamics

Chair(s): Jackie Grebmeier, jgrebmei@utk.edu
Louis Fortier, louis.fortier@bio.ulaval.ca

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 17:30 Maslowski, W.; Clement, J. L.; Cooper, L.; Grebmeier, J.; Walczowski, W.: PHYSICAL FORCING AT THE GATEWAYS OF PACIFIC AND ATLANTIC WATER INFLOW INTO THE ARCTIC OCEAN
- 17:45 Barber, D. G.: ON THE ROLE OF PHYSICAL PROCESSES CONTROLLING PHYSICAL-BIOLOGICAL COUPLING IN THE SHELF-BASIN SYSTEM OF THE SOUTHERN BEAUFORT SEA
- 18:00 Weber, J. E.: FREEZING OF SEAWATER AT A COLD ICE WALL
- 18:15 Sundfjord, A.; Fer, I.; Kasajima, Y.; Svendsen, H.: VERTICAL MIXING IN THE MARGINAL ICE ZONE OF THE BARENTS SEA - IMPLICATIONS FOR CO₂ UPTAKE AND PRIMARY PRODUCTION
- 18:30 Mathis, J. T.; Hansell, D. A.; Bates, N. R.; Pickart, R. S.: TRANSPORT OF DOC, POC, AND DIC FROM SHELF WATERS OF THE CHUKCHI SEA INTO THE DEEP ARCTIC BASIN VIA A COLD CORE EDDY.
- 18:45 Benner, R.; Louchouart, P.; Amon, R.: AN ARCTIC SOURCE FOR TERRIGENOUS DISSOLVED ORGANIC CARBON IN NORTH ATLANTIC DEEP WATER
- 19:00 Davis, J. L.; Benner, R.: SEASONALITY, MOLECULAR COMPOSITION AND BIOAVAILABILITY OF ORGANIC MATTER IN THE WESTERN ARCTIC OCEAN: A SHELF-BASIN COMPARISON
- 19:15 Brugel, S.; Ferreyra, G. A.; Nozais, C.; Demers, S.: PHYTOPLANKTON PRODUCTION DYNAMICS IN THE BEAUFORT SEA (CANADIAN ARCTIC): COMPARISON BETWEEN THE MACKENZIE SHELF AND THE CAPE BATHURST POLYNYA

SS24: Biodiversity and Ecosystem Function, Contrasting Human-altered With Pristine Streams

Chair(s): Francesc Sabater, fsabater@ub.edu
Tom J. Battin, tomba@pflaphy.pph.univie.ac.at
Eugenia Martí, eugenia@ceab.cisc.es

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 17:30 Grimm, N. B.: SORTING OUT MECHANISMS FROM SYNDROMES IN THE STUDY OF HUMAN-ALTERED STREAMS-
- 18:00 Covich, A. P.; Crowl, T. A.; Heartstill-Scalley, T.; Blithorn, J.; Cross, W. F.; Fraioli, K. M.; Hein, K.: THE ROLE OF DECAPODS AND ECOSYSTEM FUNCTION IN PUERTO RICAN STREAMS
- 18:15 Gafny, S.; Solimini, A.; Gérino, M.; Martí, E.; Battin, T.; Morais, M.; Pusch, M.; Puig, M. A.; Sabater, F.; Voreadou, C.; Vervier, P.: HOW DO POINT SOURCES AFFECT SIMPLE COMMUNITY STRUCTURE PARAMETERS OF STREAM MACROINVERTEBRATES?
- 18:30 Morais, M.; Pinto, P.; Guilherme, P.; Battin, T.; Gafny, S.; Puig, M.; Pusch, M.; Sabater, F.; Solimini, A.; Vervier, P.; Voreadou, C.: ECOLOGICAL DISTANCES AS A TOOL TO ASSESS EUROPEAN HUMAN ALTERED STREAMS
- 18:45 Sternler, R. W.; Bauer, M. E.; Brovold, S.; Hood, J. M.; Yokota, K.; Yuan, F.: THE TALE OF THE CITY ROTIFER AND THE COUNTRY ROTIFER: LAND USE, URBANIZATION, AND PLANKTONIC BIODIVERSITY
- 19:00 Aldridge, K. T.; Ganf, G. G.; Brookes, J. D.: CHANGES IN STREAM PHOSPHORUS DYNAMICS AND BENTHIC METABOLISM ALONG A RURAL-URBAN GRADIENT
- 19:15 Munoz, J.; Domenech, R.; Gaudes, A.; López-Duval, J. C.; Salvado, H.: EFFECTS OF NUTRIENT INPUTS ON MICROFAUNA COMMUNITY IN A PRISTINE MEDITERRANEAN STREAM

(*) represents invited presentations

SS29: Atmospheric Deposition of Nutrients, Organic Carbon and Pollutants as a Driver of Marine and Limnic Ecosystems

Chair(s): Steven J. Eisenreich, steven.eisenreich@jrc.it
Jordi Dachs, jdmqam@cid.csic.es

Location: Puerto del Camino Hotel V, Breakout #9

- 17:30 Jickells, T. D.; Baker, A. R.: ATMOSPHERIC INPUTS TO THE ATLANTIC OCEAN-
- 18:00 Bergström, A.; Blomqvist, P.; Jansson, M.: EFFECTS OF ATMOSPHERIC NITROGEN DEPOSITION ON NUTRIENT LIMITATION AND PHYTOPLANKTON BIOMASS IN SWEDISH UNPRODUCTIVE LAKES
- 18:15 Pulido-Villena, E.; Reche, I.; Morales-Baquero, R.: INFLUENCE OF ATMOSPHERIC DEPOSITION OF CALCIUM IN HIGH MOUNTAIN LAKES OF SOUTHWEST MEDITERRANEAN REGION
- 18:30 Kieber, R. J.; Willey, J. D.; Whitehead, R. F.; Resetar, L. A.; Skrabal, S. A.: ORGANIC COMPLEXATION OF FE BY CDOM IN RAINWATER AND ITS IMPACT ON IRON SPECIATION IN SEAWATER
- 18:45 Jaward, F. M.; Barber, J. L.; Booji, K.; Dachs, J.; Lohman, R.; Jones, K. C.: EVIDENCE FOR DYNAMIC AIR-WATER COUPLING & CYCLING OF PERSISTENT ORGANIC POLLUTANTS OVER THE OPEN ATLANTIC OCEAN
- 19:00 Cancellation
- 19:15 Calleja, M. L.; Dachs, J. I.; Duarte, C. M.; Agustí, S.; Herndl, G. J.: EVIDENCE FOR AN IMPORTANT ROLE OF AUTOCHTHONOUS AND ATMOSPHERIC INPUTS OF VOLATILE ORGANIC CARBON IN THE SUBTROPICAL ATLANTIC OCEAN

SS38: Microbial Plankton Ecology and Biogeochemical Fluxes in the Subtropical Gyres

Chair(s): Emilio Marañón, em@uvigo.es
Ricardo Letellier, letellier@coas.oregonstate.edu

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 15:15 Church, M. J.; Letellier, R. M.; Bidigare, R. R.; Karl, D. M.: TIME SERIES OBSERVATIONS AT STATION ALOHA AS A KEY TO UNDERSTANDING TEMPORAL VARIABILITY IN PLANKTON BIOMASS AND PRODUCTIVITY
- 15:30 Marañón, E.: HOW FAST DO PHYTOPLANKTON GROW IN THE SUBTROPICAL GYRES?
- 15:45 CLAUSTRE, H.; SCIANDBRA, A.: THE FIRST BIOLOGICAL, BIOGEOCHEMICAL AND OPTICAL STUDY OF THE SOUTH PACIFIC GYRE
- 16:00 Morel, A. Y.; Hooker, S.; Lewis, M.: SOUTH PACIFIC GYRE: THE CLEAREST OCEANIC WATERS?
- 16:15 Balch, W. M.; Drapeau, D. T.; Bowler, B. C.; Booth, E. S.: COCCOLITHOPHORES, CALCIUM CARBONATE AND LIGHT SCATTERING ALONG THE ATLANTIC MERIDIONAL TRANSECT
- 16:30 Behrenfeld, M. J.; Boss, E.; Siegel, D. A.; Shea, D. M.: PHYTOPLANKTON GROWTH RATES AND CARBON BIOMASS FROM SPACE
- 16:45 Wolff, G. A.; Williams, R. G.; Mahaffey, C.; Reynolds, S.; Anderson, W. T.: PHYSICAL SUPPLY OF NITROGEN TO PHYTOPLANKTON OVER THE SUBTROPICAL GYRES OF THE ATLANTIC
- 17:30 Rees, A. P.; Woodward, E. M.: LATITUDINAL VARIABILITY IN THE CONCENTRATIONS AND FLUX OF NITRATE AND AMMONIUM IN THE ATLANTIC OCEAN
- 17:45 Martin, A. P.; Pondaven, P.: NOT-SO-NEW PRODUCTION IN THE SUB-TROPICAL NORTH ATLANTIC?
- 18:00 Varela, M. M.; Bode, A.; Fernandez, E.; Gonzalez, N.; Kilidis, V.; Varela, M.; Woodward, M.: NITROGEN UPTAKE AND DISSOLVED ORGANIC NITROGEN RELEASE IN PLANKTONIC COMMUNITIES CHARACTERISED BY PHYTOPLANKTON SIZE-STRUCTURE IN THE CENTRAL ATLANTIC OCEAN.
- 18:15 Wisniewski, R. J.; Moffett, J. W.; Dyrman, S.: DISSOLVED ORGANIC PHOSPHORUS UTILIZATION BY NATURAL MARINE PHYTOPLANKTON IN THE SARGASSO SEA
- 18:30 Van Mooy, B.; Devol, A. H.; Fredricks, H. F.; Moore, L. R.; Moutin, T.; Rocap, G.; Webb, E. A.: GLYCOLIPID MEMBRANES RELIEVE MARINE PICOCYANOBACTERIA OF A MAJOR REQUIREMENT FOR PHOSPHATE.
- 18:45 Corno, G.; Letellier, R. M.; Abbott, M. R.; Karl, D. M.: ASSESSING THE TEMPORAL VARIABILITY OF PRIMARY PRODUCTION IN THE NORTH PACIFIC SUBTROPICAL GYRE: A COMPARISON OF FAST REPETITION RATE FLUOROMETRY AND 14C
- 19:00 Huot, Y.; Bruyant, F.; Babin, M.; Bonnet, S.; Gorbunov, M. Y.; Morel, A.; Prasil, O.; Raimbault, P.; Tièche, F.; Claustre, H.: PHOTOSYNTHESIS IN THE ULTRA-OLIGOTROPHIC WATERS OF THE SOUTH-PACIFIC GYRE AND BORDERING WATERS DURING THE AUSTRAL SPRING
- 19:15 Bonnet, S.; Gueu, C.; Bruyant, F.; Gorbunov, M. Y.; Raimbault, P.; Prasil, O.; Van Wambeke, F.; Moutin, T.; Blain, S.; Grob, C.; Garczarek, L.; Duhamel, S.; Vulot, D.; Ulioa, O.: COLIMITATION IN A GRADIENT OF TROPIC REGIMES IN THE SOUTH EAST PACIFIC OCEAN: RESPONSES FROM MICROCOSM EXPERIMENTS

SS41: Lipids in Trophic Interactions

Chair(s): Michael Arts, Michael.Arts@ec.gc.ca
Eric von Elert, eric.vonekert@uni-konstanz.de

Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7

- 12:15 Falk-Petersen, S.; Sargent, J. R.: THE ORIGIN AND FATE OF LIPIDS IN ARCTIC MARINE ECOSYSTEMS. -
- 12:45 Kattner, G.; Graeve, M.: ASSIMILATION AND BIOSYNTHESIS OF LIPIDS IN ARCTIC CALANUS SPECIES
- 13:00 Graeve, M.; Kattner, G.; Böer, M.: THE SEA ANGEL CLIONE LIMACINA, A MARINE ANIMAL WITH EXTRAORDINARY LIPID BIOCHEMISTRY
- 13:15 MAYZAUD, P.; Boutoute, M.: LIPID SEASONAL DYNAMICS IN ANTARCTIC PLANKTONIC CRUSTACEAN AND THE STRATEGIES OF REPRODUCTION. A COMPARATIVE VIEW.
- 13:30 Dulz, J.; Koski, M.; Jonasdottir, S.: INTERACTIONS BETWEEN DIATOMS AND COPEPODS: NUTRITIONAL IMBALANCE AS A FACTOR
- 15:15 Rossi, S.; Youngbluth, M.; Pagès, F.; Garrofé, X.: FATTY ACID COMPOSITION IN DIFFERENT TROPHIC GROUPS AS AN INDICATOR OF FOOD INTAKE BY THE SIPHONOPHORE NANOMIA CARA IN GEORGES BANK (NORTHWESTERN ATLANTIC)
- 15:30 Arts, M. T.; Browman, H. I.; Jokinen, I.: DIRECT EFFECTS OF LONGTERM EXPOSURE TO SOLAR UV RADIATION ON FATTY ACIDS OF ATLANTIC SALMON (SALMO SALAR) HELD IN OUTDOOR TANKS.
- 15:45 Honeyfield, D. C.; Fitzsimons, J. D.; Tillitt, D. E.; Brown, S. B.: POTENTIAL FOR USING FATTY ACIDS CONTENT OF LAKE TROUT EGGS TO PREDICT DIETARY FORAGE FISH COMPOSITION
- 16:00 Wacker, A.: LIPIDS IN ZEBRA MUSSELS: TRANSFER TO THE NEXT GENERATION
- 16:15 Meziane, T.; D'agata, F.; Hall, D. J.: THE FATE OF MANGROVE ORGANIC MATTER ALONG A SUBTROPICAL ESTUARY: EXPORTATION AND CONTRIBUTION TO THE FOOD OF CRAB COMMUNITIES
- 16:30 Ahlgren, G.: RATIOS BETWEEN OMEGA-3 AND OMEGA-6 FATTY ACIDS IN FISH AND ZOOPLANKTERS - ARE THERE DIFFERENCES BETWEEN HERBIVORES AND CARNIVORES?*
- 16:45 Von Elert, E.; Scheider, D.: FOOD QUALITY FOR EUDIAPTOMUS GRACILIS: THE IMPORTANCE OF LIPIDS
- 17:30 Kainz, M.; Arts, M. T.; Mazumder, A.: ESSENTIAL VERSUS CONSERVED SUBSTANCES: SEASONAL DYNAMICS OF FATTY ACID AND METHYL MERCURY CONCENTRATIONS IN PELAGIC FOOD WEBS
- 17:45 Goedkoop, W.; Demandt, M. H.; Ahlgren, G.: DIETARY EFFECTS OF LONG-CHAIN POLY-UNSATURATED FATTY ACIDS ON GROWTH AND DEVELOPMENT OF THE MIDGE CHIRONOMUS RIPARIUS
- 18:00 Müller-Navarra, D. C.: ARE DAPHNIDS WHAT THEY EAT?
- 18:15 Martin-Creuzburg, D.; Bec, A.; Von Elert, E.: TROPHIC UPGRADING OF AUTOTROPHIC PICOPLANKTON FOOD QUALITY BY PROTOZOANS: BIOCHEMICAL ASPECTS IN DAPHNIA NUTRITION
- 18:30 Bec, A.; Martin-Creuzburg, D.; Von Elert, E.: TROPHIC UPGRADING OF AUTOTROPHIC PICOPLANKTON BY THE HETEROTROPHIC FLAGELLATE PARAPHYSOMONAS
- 18:45 Sushchik, N. N.; Gladyshev, M. I.; Kalachova, G. S.; Kravchuk, E. S.; Ivanova, E. A.; Kolmakov, V. I.; Ageev, A. V.: SEASONAL DYNAMICS OF STANDING STOCK OF ESSENTIAL POLYUNSATURATED FATTY ACIDS IN LITTORAL BENTHOS IN UPPER SITE OF THE YENISEI RIVER, RUSSIA
- 19:00 Torres, M.; Wehr, J. D.; Perrone, A. A.: ESSENTIAL FATTY ACID DYNAMICS IN A STREAM FOOD WEB
- 19:15 Kagami, M.; Van Donk, E.; Von Elert, E.; Bruin, A. D.; Ibelings, B. W.: PARASITIC FUNGI OF PHYTOPLANKTON AS A FOOD SOURCE FOR ZOOPLANKTON

SS44: Interactive Effects of DOM Properties and Mineral Nutrients on Bacterial Composition and Activity

Chair(s): Isabel Reche, IRECHE@UGR.es
Stuart Findlay, findlays@ecostudies.org

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 17:30 Casamayor, E. O.: SEARCHING FOR PATTERNS IN MICROBIAL COMMUNITY COMPOSITION ALONG ENVIRONMENTAL GRADIENTS-
- 18:00 Mellander, T. T.; Heath, R. T.: BACTERIOPANKTON PHOSPHATE-UPTAKE RATES IN LAKE ERIE DEPEND ON LABILE DISSOLVED ORGANIC CARBON (LDOC)
- 18:15 Reche, I.; Pulido-Villena, E.; Morales-Baquero, R.; Casamayor, E. O.: BACTERIAL STRUCTURE AND FUNCTION IN HIGH MOUNTAIN LAKES
- 18:30 Hoch, M. P.; Siwik, P. J.: COUPLING OF CARBON, NITROGEN AND PHOSPHORUS METABOLISM IN FRESHWATER BACTERIOPANKTON COMMUNITIES.

(*) represents Tutorial presentations

- 18:45 [Ortega-Retuerta, E.](#); Pulido-Villena, E.; Reche, I.: DOM PHOTOPRODUCTS AND MINERAL NUTRIENTS SUPPORTING BACTERIOPLANKTON GROWTH IN MEDITERRANEAN AQUATIC ECOSYSTEMS.
- 19:00 [Pérez, M. T.](#); Sommaruga, R.: IMPACT OF ALGAL- AND SOIL-DERIVED DOM ON THE BACTERIAL COMMUNITY COMPOSITION AND ACTIVITY OF AN ALPINE LAKE
- 19:15 [Findlay, S. E.](#); Sinsabaugh, R. L.: FACTORS CONTROLLING THE LINK BETWEEN BACTERIAL FUNCTION AND STRUCTURE IN STREAM BIOFILM COMMUNITIES

SS45: Understanding the Plumbing of the Biosphere: Theory and Observations in Aquatic Systems (Homage to Ramon Margalef)

Chair(s): Marta Estrada, marta@icm.csic.es
Dolors Planas, planas.dolors@uqam.ca
Location: Puerto del Camino Hotel I, Breakout #10

- 17:30 [Reynolds, C. S.](#): HOMAGE TO MARGALEF: EXPLORING THE MANDALA-
- 18:00 [Platt, T.](#); Sathyendranath, S.: MARGALEF: CLAIRVOYANT OF MARINE SCIENCE-
- 18:15 [Yentsch, C. S.](#); Yentsch, C. M.: ELECTRICAL CIRCUIT ANALOGUES FOR HYDODYNAMICS AND OPTICS
- 18:30 [Barber, R. T.](#); Osborn, T. R.: MARGALEF'S MANDALA REVISTED
- 18:45 [Strickler, J. R.](#); Nihongi, A.; Malkiel, E.: RAMÓN MARGALEF AND THE HELMETS OF DAPHNIA
- 19:00 [Rodríguez, J.](#): THE SIZE STRUCTURE OF PLANKTON: A TRANSDISCIPLINARY MARGALEFIAN TOPIC
- 19:15 [Gallagher, E. D.](#); Shuchat, A.: OLD WINE IN NEW BOTTLES: 50 YEARS OF MARINE BIODIVERSITY THEORY FROM MARGALEF, FAGER, HULBERT & SANDERS TO HUBBELL

SS53: Polar Aquatic Ecosystems and Environmental Change

Chair(s): Carles Pedrós-Alló, cpedros@cmima.csic.es
John C. Priscu, jpriscu@montana.edu
Warwick F. Vincent, warwick.vincent@bio.ulaval.ca
Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 12:15 [Evans, M. A.](#); MacIntyre, S.; Kling, G. W.: INTERNAL WAVES STIMULATE PHYTOPLANKTON PRIMARY PRODUCTION: RESULTS OF IN SITU EXPERIMENTS AND MODELING
- 12:30 [Christoffersen, K. S.](#); Jeppesen, E.: PLANKTON DYNAMICS IN TWO ARCTIC LAKES IN RELATION TO ICE MELT, WATER TEMPERATURE AND CHEMISTRY DURING 8 YEARS
- 12:45 [Anderson, N. J.](#); Perren, B.; Bindler, R.; Lindeberg, C.; McGowan, S.; Fritz, S. C.: ARCTIC LAKES AND GLOBAL CHANGE: THE PERSPECTIVE FROM SW GREENLAND
- 13:00 [Reuss, N.](#); Anderson, N. J.; Fritz, S. C.: IN-LAKE PROCESSES AND CLIMATE FORCING AFFECTING LAKE ECOSYSTEM VARIABILITY DURING LATE HOLOCENE IN SOUTHWEST GREENLAND BASED ON SEDIMENT PIGMENTS
- 13:15 [Laurion, J.](#); Breton, J.: DIVERSE BIOOPTICAL CHARACTERISTICS OF SUBARCTIC THERMOKARST PONDS: THEIR INFLUENCE ON CARBON CYCLING
- 13:30 [Vincent, W. F.](#); Bonilla, S.; Villeneuve, V.: DIVERGENT RESPONSES TO NUTRIENT ENRICHMENT BY THE PHYTOPLANKTON AND PHYTOBENTHOS OF A HIGH ARCTIC LAKE

SS57: Eutrophication, Macroalgal Blooms and Coastal Ecosystem Services

Chair(s): Just Cebrian, jcebrian@disl.org
Nuria Marba, nuria.marba@uib.es
Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 12:15 [LaPointe, B. E.](#); Barile, P. J.; Bedford, B. J.; Baumberger, R. E.; Hanson, C.: ANTHROPOGENIC NUTRIENT ENRICHMENT, MACROALGAL BLOOMS AND COASTAL ECOSYSTEM SERVICES ON CORAL REEFS IN THE WIDER CARIBBEAN REGION
- 12:30 [Viaroli, P.](#); Bartoli, M.; Azzoni, R.; Giordani, G.; Naldi, M.; Nizzoli, D.: MACROALGAL BLOOMS, BIOGEOCHEMICAL PROCESSES AND ENVIRONMENTAL QUALITY IN THE SACCA DI GORO LAGOON (ADRIATIC SEA, ITALY)
- 12:45 [Barile, P. J.](#); Lapointe, B. E.: NITROGEN-ENRICHED MACROALGAE INCREASE GRAZING AND GROWTH RATE OF A TROPICAL MARINE HERBIVORE: LABORATORY AND FIELD EVIDENCE

- 13:00 [Cebrian, J.](#): CHANGES IN HERBIVORY WITH EUTROPHICATION-INDUCED SEAGRASS REPLACEMENT BY MACROALGAE: A TALE OF ANOXIA?
- 13:15 [Fox, S.](#); Teichberg, M.; Heffner, L. R.; Valiela, I.: MACROALGAL BLOOMS: THE RELATIVE INFLUENCE OF NUTRIENT SUPPLY, GRAZING, AND PREDATION IN WAQUOIT BAY, MASSACHUSETTS
- 13:30 [Rossi, F.](#): NUTRIENT-FLUX IN ESTUARINE BENTHIC SYSTEMS AFFECTED BY MACROALGAL DEPOSITION. AN IN SITU STABLE ISOTOPE EXPERIMENT
- 15:15 [Corzo, A.](#); Van Bergeijk, S. A.; Yufera, M.; Garcia de Lomas, J.; Garcia-Robledo, E.: IMPACT OF MACROALGAL BLOOMS ON INTERTIDAL MICROBENTHOS: NET METABOLISM, NUTRIENT FLUXES AND COMMUNITY STRUCTURE
- 15:30 [Teichberg, M.](#); Fox, S.; Heffner, L. R.; Valiela, I.: RESPONSES OF THE BLOOM-FORMING MACROALGA ULVA LACTUCA TO NUTRIENT SUPPLY: GROWTH, ENZYME ACTIVITY, NUTRIENT CONTENT, AND ISOTOPIC SIGNATURES
- 15:45 [Cummins, S. P.](#); Chapman, M. G.: EXPERIMENTAL TESTS OF MOVEMENT OF MOBILE ORGANISMS IN RELATION TO CLUMPS OF MACRO-ALGAE
- 16:00 [Cardoso, P. G.](#); Marques, J. C.; Raffaelli, D.; Verdelhos, T.; Pardal, M. A.: LONG-TERM CHANGES ON THE MACROBENTHIC COMMUNITIES OF A TEMPERATE ESTUARY UNDER EUTROPHICATION
- 16:15 [Ferreira, S. M.](#); Brandão, A.; Baeta, A.; Neto, J. M.; Lillebø, A. I.; Marques, J. C.; Jensen, K. T.; Pardal, M. A.: LONG-TERM SURVEY OF A COMMON EUROPEAN ISOPOD (CYATHURA CARINATA) IN A TEMPERATE EUTROPHIC ESTUARY UNDER RESTORATION
- 16:30 [Williams, B. J.](#); Freewater, P.; Thyer, M.: MANAGING ESTUARIES USING BAYESIAN NETWORKS
- 16:45 [Vergara, J. J.](#); Brun, F. G.; Olivé, I.; Hernández, I.; Pérez-Lloréns, J. L.: EFFECTS OF INCREASED NUTRIENT LOADINGS ON THE ECOPHYSIOLOGY OF THE SEAGRASS ZOSTERA NOLTII FROM CADIZ BAY NATURAL PARK (SW SPAIN)

SS66: Ocean & Ice - Atmosphere Interactions Through the Emission of Trace Gases

Chair(s): Patricia A. Matrai, PMatrai@bigelow.org
Rafel Simó, rsimo@icm.csic.es
Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 15:15 [Moore, R. M.](#); Tokarczyk, R. T.; Wang, L.; MacDonald, S.: MARINE SOURCES AND SINKS OF ATMOSPHERIC HALOGENATED METHANES-
- 15:45 [Schäfer, H.](#); Cox, M. J.; McDonald, I. R.; Nightingale, P. D.; Murrell, J. C.: BIOGEOCHEMICAL CYCLING OF METHYL HALIDES IN THE MARINE ENVIRONMENT
- 16:00 [Plettner, I.](#); Steinke, M.; Malin, G.: BIOLOGICAL CONTROLS ON THE PRODUCTION OF THE ATMOSPHERICALLY SIGNIFICANT TRACE GAS ETHENE
- 16:15 [Turner, S. M.](#): PHYSICAL CONTROLS ON THE AMOUNT OF DIMETHYL SULPHIDE OBSERVED DURING SOUTHERN OCEAN IRON ENRICHMENT EXPERIMENTS
- 16:30 [Belviso, S.](#); bopp, L.; Aumont, O.; Boucher, O.: IRON-INDUCED CHANGES IN AUSTRAL OCEAN DMS BIOGEOCHEMISTRY
- 17:30 [VALLINA, S. M.](#); SIMÓ, R.; GASSÓ, S.; De-BOYER, C.; JURADO, E.; Del-RIO, E.; DACHS, J.: POTENTIAL INFLUENCE OF OCEANIC PLANKTON ON CLOUD CONDENSATION NUCLEI (CCN): GLOBALLY MAPPED CORRELATIONS BETWEEN DMS ESTIMATES AND SATELLITE-DERIVED CCN
- 17:45 [Slezak, D.](#); Kiene, R. P.; Smith, C.: DIMETHYLSULFONIOPROPIONATE CYCLING IN ANTARCTIC WATERS: CARBON AND SULFUR UTILIZATION BY BACTERIA
- 18:00 [Kieber, D. J.](#); Westby, G. R.; Toole, D. A.; Kiene, R. P.; Slezak, D.: OCEANIC VARIABILITY IN DMS PHOTOLYSIS
- 18:15 [Bell, T. G.](#); Poulton, A. J.; Heywood, J. L.; Steinke, M.; Malin, G.: VARIATIONS IN DMS CONCENTRATIONS IN ATLANTIC GYRE WATERS - SMALL BUT SIGNIFICANT?
- 18:30 [Matrai, P. A.](#); Dacey, J. W.; DiTullio, G. R.; Erickson, D. J.; Gabric, A. J.; Gregg, W. W.; Kieber, D. J.; Kiene, R. P.; Najjar, R. G.; Simo, R.: COMPLEX MOLECULAR TO GLOBAL INTERACTIONS AND FEEDBACKS IN THE MARINE DMS CYCLE: I- SUBTROPICAL GYRE
- 18:45 [Dacey, J. W.](#); Stefels, J.: DEUTERATED TRACERS FOR DYNAMICS OF THE DMS SYSTEM IN MARINE WATERS
- 19:00 [Stefels, J.](#); Dacey, J. W.: IN-VIVO DMSP-BIOSYNTHESIS MEASUREMENTS USING D2O-INCORPORATION AND PROTON-TRANSFER-REACTION MASS SPECTROMETRY
- 19:15 [Le Clainche, Y.](#); Levasseur, M.; Vézina, A.: SIMULATION OF THE SEA SURFACE DMS DURING SERIES: WHAT WE LEARN ABOUT GLOBAL PARAMETERIZATIONS?

(*) represents Invited presentations

SS69: Ecosystem Dynamics in Pulsing Littoral Zones: Lakes and Rivers

Chair(s): Karl-Otto Rothhaupt, Karl.Rothhaupt@uni-konstanz.de
Matthias Wantzen, wantzen@mpil-ploen.mpg.de

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 17:30 Wantzen, K. M.; Rothhaupt, K. O.: ECOSYSTEM DYNAMICS IN PULSING LITTORAL ZONES OF LAKES AND RIVERS-
- 18:00 Cronin, G.; McCutchan, J. H.; Lewis, W. M.; Saunders, J. F.; Pitlick, J.: USE OF SHIELDS STRESS REGIME TO RECONSTRUCT AND FORECAST RIVER METABOLISM
- 18:15 Uehlinger, U.; Zah, R.; Malard, F.; Buergi, H.; Burgherr, P.; Tockner, K.: GLACIAL FLOW-PULSE AND PERIPHYTON DYNAMICS IN AN ALPINE FLOOD PLAIN (VAL ROSEG, SWITZERLAND)
- 18:30 Baumgaertner, D.; Moerli, M.; Rothhaupt, K. O.: VERTICAL AND SEASONAL DISTRIBUTION PATTERNS OF BENTHIC MACROINVERTEBRATES IN THE LITTORAL ZONE OF A LAKE WITH SEASONAL WATER LEVEL FLUCTUATIONS
- 18:45 Korn, M.; Pucher, J.; Wantzen, K. M.; Rothhaupt, K. O.: AQUATIC INVERTEBRATES IN THE PULSING LITTORAL ZONE OF A LARGE PREALPINE LAKE
- 19:00 Fischer, P. F.; Öhl, U.: EFFECTS OF WATER LEVEL FLUCTUATIONS ON THE LITTORAL BENTHIC FISH COMMUNITY IN LAKES: A CASE STUDY.
- 19:15 Gasith Avital, A.; Goren Menachem, M.: RESPONSE OF FISH IN ROCKY HABITATS TO WATER LEVEL FLUCTUATIONS – LESSON LEARNED FROM LAKE KINNERET, ISRAEL

SS73: Coupling of Physical, Chemical and Biological Processes in Plankton Dynamics: A Quantitative Multidisciplinary Perspective

Chair(s): Yvan Lagaduec, yvan.lagaduec@univ-rennes1.fr
Jef Huisman, jef.huisman@science.uva.nl
Myriam Bormans, myriam.bormans@univ-rennes1.fr

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 12:15 Beckmann, A.; Hense, I.: PHYTOPLANKTON MIGRATION: A MODEL STUDY
- 12:30 Schapira, M.; Vincent, D.; Seuront, L.; Gentilhomme, V.: EFFECT OF TURBULENT HISTORY AND NUTRIENT CONCENTRATION ON PHYTOPLANKTON UPTAKE: A SEASONAL STUDY DURING PHAEOCYSTIS BLOOM IN THE EASTERN ENGLISH CHANNEL
- 12:45 Bukaveckas, P. A.; Acharya, K.; Jack, J. D.; Guedda, D.: EVIDENCE FOR NUTRITIONAL CONSTRAINTS ON ZOOPLANKTON GROWTH IN RIVERINE ENVIRONMENTS.
- 13:00 Burger, D. F.; Hamilton, D. P.; Pilditch, C. A.; Gibbs, M. M.: INTERNAL SEDIMENT NUTRIENT FLUXES CONTROL CYANOBACTERIAL BLOOMS IN A SHALLOW POLYMICHTIC LAKE
- 13:15 Gle, C.; Del Amo, Y.; Sautour, B.; Chardy, P.: PHYTOPLANKTON PRIMARY PRODUCTION AND REGULATION FACTORS IN A SHALLOW COASTAL ECOSYSTEM, ARCAÇON BAY, FRANCE.
- 13:30 FAURE, V.; Pinazo, C.; Torrétón, J. P.; Douillet, P.: STUDY OF THE ROLE OF PHYSICAL PROCESSES ON BIOGEOCHEMICAL RECYCLING USING A 3D COUPLED MODEL : CASE OF THE SOUTH-WEST LAGOON OF NEW CALEDONIA

SS77: Stoichiometric Aspects of Ecology and Evolution in Aquatic Ecosystems

Chair(s): Dag O. Hessen, d.o.hessen@bio.uio.no
Tom Andersen, tom.andersen@bio.uio.no

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 15:15 Krom, M. D.; Thingstad, T. F.; Mantoura, R. F.; CYCLOPS team, : THE NATURE OF NUTRIENT LIMITATION IN THE ULTRA-OLIGOTROPHIC EASTERN MEDITERRANEAN-
- 15:45 Davidson, K.; Roberts, E. C.; Wilson, A. M.; Mitchell, E.: THE ROLE OF PHYTOPLANKTON NUTRITIONAL STATUS IN GOVERNING PROTOZOAN NITROGEN REGENERATION EFFICIENCY
- 16:00 Olsen, Y.; Andersen, T.; Gismervik, I.; Vadstein, O.: ARE MARINE PLANKTONIC HETEROTROPHS LIKELY TO EXPERIENCE N OR MINERAL P LIMITATION IN TEMPERATE COASTAL WATERS?
- 16:15 Placnik, R.; Andersen, T.; Tamminen, T.: NUTRIENT LIMITATION IN THE EASTERN BALTIC SEA – INFORMATION FROM BIOASSAYS VS. CONVENTIONAL WISDOM
- 16:30 Bode, A.; Gonzalez, N.; Varela, M.; Varela, M. M.: COUPLING BETWEEN PELAGIC CARBON AND NITROGEN FLUXES IN AN EUTROPHIC EMBAYMENT (RIA DE FERROL, NW SPAIN)

- 16:45 Verschoor, A. M.; Van Donk, E.: ANTHROPOGENIC CHANGES IN PELAGIC ELEMENT CYCLES: A STOICHIOMETRIC PERSPECTIVE
- 17:30 Hessen, D. O.; Andersen, T.; Skjelkvåle, B. L.: INCREASED NITROGEN DEPOSITION AFFECTS THE STOICHIOMETRY OF CATCHMENTS AND LAKES
- 17:45 Wehr, J. D.; O'Brien, P.; Pinto, J.; Bell, S.; Bliss-Moreau, M.; Perrone, A. A.: FACTORS AFFECTING THE ECOLOGICAL STOICHIOMETRY OF FOOD WEB COMPONENTS IN STREAM ECOSYSTEMS
- 18:00 Gruber, D. F.; Taghon, G. L.: THE ELEMENTAL AND ECOLOGICAL STOICHIOMETRY OF MARINE BACTERIA DURING VARYING STAGES OF GROWTH
- 18:15 Posch, T.; Mindl, B.; Salcher, M. M.; Sonntag, B.; Pernthaler, J.; Vrba, J.; Psenner, R.: STOICHIOMETRY OF BACTERIA, ALGAE, AND BACTERIVORES: A REINVESTIGATION OF THE "PHYTOPLANKTON-BACTERIA PARADOX" IN A CHEMOSTAT UNDER DIFFERENT PHOSPHORUS SUPPLY
- 18:30 Carrillo, P.; Villar-Argaiz, M.; Medina-Sánchez, J. M.; Delgado-Molina, J. A.; Ballejos, F. J.: ALGAE-BACTERIA INTERACTIONS MODULATED BY ELEMENTAL COMPOSITION: IMPLICATIONS TO MICROBIAL FOOD WEB
- 18:45 Varela, D. E.; Richier, L. R.; Ianson, D.: RATIOS OF C:N:SI UPTAKE BY PHYTOPLANKTON ASSEMBLAGES FROM QUEEN CHARLOTTE SOUND, A COASTAL REGION OFF CANADA'S WEST COAST
- 19:00 Segura, M.; Blasco, D.; Fortuño, J. M.: PHYTOPLANKTON SINGLE-CELL STOICHIOMETRY OF NW MEDITERRANEAN NATURAL SAMPLES BY X-RAY MICROANALYSIS
- 19:15 Diehl, S.; Berger, S. A.; Kunz, T. J.: LIGHT SUPPLY, PLANKTON BIOMASS AND SESTON STOICHIOMETRY IN GRADIENTS OF LAKE MIXING DEPTH

SS81: Single-cell Analyses in Aquatic Microbes: Patterns, Controls, and Linkages Between Biogeochemical Function and Microbial Diversity

Chair(s): Josep M. Gasol, pepgasol@icm.csic.es
Barry F. Sherr, sherrb@coas.oregonstate.edu
Gerhard J. Herndl, herndl@nioz.nl

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 12:15 Alonso, C.; Guerra, C.; Pernthaler, J.: SUBSTRATE UPTAKE ALONG A CONCENTRATION SERIES BY SPECIFIC BACTERIOPLANKTON POPULATIONS
- 12:30 Longnecker, K.; Sherr, E. B.; Sherr, B. F.: THE ROLE OF TOP-DOWN CONTROL IN ALTERING CELL-SPECIFIC LEUCINE AND THYMIDINE INCORPORATION BY SUBPOPULATIONS OF MARINE BACTERIOPLANKTON*
- 12:30 Longnecker, K.; Sherr, E. B.; Sherr, B. F.: THE ROLE OF TOP-DOWN CONTROL IN ALTERING CELL-SPECIFIC LEUCINE AND THYMIDINE INCORPORATION BY SUBPOPULATIONS OF MARINE BACTERIOPLANKTON*
- 12:45 Sintes, E.; Herndl, G. J.: BACTERIAL ACTIVITY IN THE AIR-SEA MICROLAYER OF THE SUBTROPICAL ATLANTIC: INTERACTION BETWEEN SOLAR RADIATION, DOM AND SUBSTRATE UTILIZATION
- 13:00 Sommaruga, R.; Hofer, J. S.; Slezak, D.; Vila, M.; Alonso-Sáez, L.; Simó, R.; Gasol, J. M.: EFFECTS OF SUNLIGHT ON COASTAL MARINE HETEROTROPHIC AND PHOTOTROPHIC BACTERIA STUDIED AT THE SINGLE-CELL LEVEL
- 13:15 Hornak, K.; Jezbera, J.; Masin, M.; Nedoma, J.; Simek, K.: UPTAKE OF LEUCINE BY MAJOR PHYLOGENETIC GROUPS OF BACTERIA UNDER DIFFERENT LEVELS OF RESOURCE AVAILABILITY AND BACTERIVORY IN A CANYON-SHAPED RESERVOIR
- 13:30 Bouvier, T.; Gasol, J. M.; del Giorgio, P. A.: VARIABILITY IN THE CYTOMETRIC CHARACTERISTICS OF HIGH AND LOW-NUCLEIC ACID BACTERIOPLANKTON CELLS ACROSS GRADIENTS AND AMONG AQUATIC ECOSYSTEMS
- 15:15 Frischer, M. E.; Baylor, V. D.; Walters, T. L.; Danforth, J. D.; Nejsjgaard, J. C.; Verity, P. G.: THE RICH GET RICHER: INDIVIDUAL CELL AND COMMUNITY BACTERIAL RESPONSE TO AN INDUCED BLOOM OF PHAEOCYSTIS POUCHETII
- 15:30 Mayali, X.; Franks, P. J.; Azam, F.: FIELD ECOLOGY OF A SINGLE BACTERIAL SPECIES: THE CASE OF AN ALGISTATIC FLAVOBACTERIUM
- 15:45 Wu, Q. L.; Hahn, M. W.: BACTERIA AFFILIATED TO SUBCLUSTER B OF THE POLYNUCLEOBACTER CLUSTER ARE OF IMPORTANCE IN THE PELAGIC OF NEUTRAL AND ALKALINE FRESHWATER LAKES
- 16:00 Knab, S. L.; Posch, T.: SUCCESSION OF BACTERIAL PHENO- AND GENOTYPIC CHARACTERISTICS IN RELATION TO PHYTOPLANKTON SPRING BLOOM AND PROTISTAN GRAZING IN AN ALPINE LAKE
- 16:15 Wootton, E. C.; Jones, R. H.; Roberts, E. C.: A MATTER OF TASTE: POTENTIAL RECEPTORS AND LIGANDS INVOLVED IN CELL SURFACE RECOGNITION OF PREY BY MARINE PROTOZOOPLANKTON.
- 16:30 Paranhos, R.; Andrade, L.; Gonzalez, A.; Rocha, V.; Carvalho, K.: FLOW CYTOMETRIC STUDY OF BACTERIOPLANKTON SUB-GROUPS, FROM TROPICAL RIVERS AND LAKES TO DEEP ATLANTIC OCEAN
- 16:45 Ivanikova, N. V.; McKay, R. M.; Bullerjahn, G. S.: CHARACTERIZATION OF A CYANOBACTERIAL BIOREPORTER CAPABLE OF ASSESSING NITRATE ASSIMILATORY CAPACITY IN FRESHWATERS

(*) represents Tutorial presentations

SS83: Spatial Processes in Marine and Freshwater Ecosystems

Chair(s): E. Agnes E. Blukacz, ablukacz@utm.utoronto.ca
W. Gary W. Sprules, gsprules@utm.utoronto.ca
Andre W. Visser, awv@dfu.min.dk

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 12:15 Speirs, D. C.: Gurney, W. S.; Heath, M. R.; Horbelt, W.; Wood, S. N.: MODELLING STRUCTURED ZOOPLANKTON POPULATIONS ON AN OCEAN SCALE
- 12:30 Maar, M.: Visser, A. W.; Nielsen, T. G.; Stips, A.; Saito, H.: VERTICAL DISTRIBUTIONS OF OITHONA SIMILIS AND MICROSETELLA NORWEGICA UNDER NATURAL TURBULENCE CONDITIONS
- 12:45 Eiane, K.; Vogedes, D.; Tverberg, V.: WITHIN-POPULATION VARIABILITY IN ZOOPLANKTON VERTICAL MIGRATION STRATEGY AFFECTS LOCAL POPULATION STRUCTURE IN FJORD HABITATS
- 13:00 Meyer, E. L.; Klößner, T.; Riss, H. W.: HABITAT PARAMETERS AFFECTING SMALL SCALE BACTERIAL ABUNDANCES IN SANDY LOWLAND STREAMS
- 13:15 Wild-Allen, K. A.; Parslow, J. S.; Herzfeld, M.; Thompson, P. A.: WHY ARE THERE EPISODIC PHYTOPLANKTON BLOOMS IN THE OPTICALLY OPAQUE WELL FLUSHED HUON ESTUARY?
- 13:30 Méndez, N.: DEEP-WATER POLYCHAETE ASSEMBLAGES FROM THE SOUTHEASTERN GULF OF CALIFORNIA, MEXICO
- 15:15 Castellani, C.; Irigoien, X.; Harris, R. P.: TEMPORAL AND SPATIAL CHANGES IN OITHONA SIMILIS BIOMASS AND PRODUCTIVITY IN THE NORTH ATLANTIC
- 15:30 Spence-Chervell, K.; Soranno, P. A.: PREDICTING LAKE MACROPHYTE COVER FROM PHYSICO-CHEMICAL, MORPHOMETRIC AND LANDSCAPE FEATURES
- 15:45 Yamazaki, H.; Li, H.; Yuzuriba, H.; Walk, F.; Mitchell, J.; Seuront, L.; Nagasawa, Y.: ENHANCED MAGNIFICATION OF FLUORESCENCE FIELD IN OCEANIC TURBULENCE: A NEW LASER PROBE TECHNOLOGY
- 16:00 Stewart, T. J.; Sprules, W. G.; Shuter, B. J.: BIOLOGICAL SIGNIFICANCE OF SPATIAL AND TEMPORAL VARIABILITY IN LAKE ONTARIO THERMAL STRUCTURE
- 16:15 Wallhead, P. J.; Martin, A. P.; Srokosz, M. A.; Fasham, M. J.: MODELLING PHYSICAL/BIOLOGICAL PROCESSES IN MARINE ECOSYSTEMS USING PHASE SPACE DATA
- 16:30 Remsen, A. W.; Kramer, K.; Luo, T.; Samson, S.; Goldfod, D.; Hopkins, T.: USING SIPPER-2 TO OBSERVE FINESCALE ZOOPLANKTON DISTRIBUTION ON THE WEST FLORIDA SHELF
- 16:45 Dai, W.; Folt, C. L.: MIXED-PREY FORAGING AS A MEANS TO COUNTER UNCERTAINTY ASSOCIATED WITH PREY PATCHINESS

SS88: Reservoirs: Limnology in the Making

Chair(s): Fabio Roland, fabio.roland@uff.edu.br
Joan Armengol, jarmengol@ub.edu

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 12:15 Armengol, J.: Caputo, L.; Ordoñez, J.; García, J. C.; Valero, F.; Marcé, R.: CAUSES AND CONSEQUENCES OF THE CHANGES IN THE TROPHIC STATUS OF THE SAU RESERVOIR (NE SPAIN) DURING THE 1964-2004 PERIOD-
- 12:45 Cesar, D. E.: Del Duca, A.; Silva, L. H.; Huszar, V. L.; Trindade, T. N.; Castelo-Branco, C. W.; Rosa, P. G.; Roland, F.: TROPHIC DYNAMIC ON BRAZILIAN RESERVOIRS: IMPLICATIONS ON CARBON BALANCE
- 13:00 Navarro, E.: Caputo, L.; Armengol, J.; Munné, A.; Benjam, L.; Carol, J.; Garcia-Berthou, E.: APPLICATION OF THE EU WATER FRAMEWORK DIRECTIVE 2000/60/EC IN CATALONIA (NE SPAIN): TYPE CLASSIFICATION AND ECOLOGICAL POTENTIAL CALCULATIONS FOR 21 RESERVOIRS
- 13:15 Roland, F.; Marinho, M.; Cesar, D.: LIMNOLOGY OF BRAZILIAN RESERVOIRS AND CLIMATE CHANGE: ARE THEY RELATED?
- 13:30 Fortcat Francesc, F.; Figueroa Manuel, M.; Vidal Javier, J.; Pérez-Losada Joaquim, J.; Rogel Elena, E.: EXPLORING A PUBLIC NUMERICAL HYDRODYNAMIC MODEL (POM) TO SIMULATE THE INTERNAL WAVE FIELD IN LIMNETIC SYSTEMS
- 15:15 López, P.; Navarro, E.; Armengol, J.: SEDIMENTARY PHOSPHORUS AND TROPHIC STATUS IN CATALONIA (NE SPAIN) RESERVOIRS
- 15:30 Rueda, F. J.; Moreno-Ostos, E.; De Vicente, I.; Morales, R.; Romera, O.; Hubmann, J.; Fleenor, W. E.: PATHWAYS AND FLUXES OF NUTRIENTS TOWARDS THE SURFACE LAYERS OF A MESOTROPHIC RESERVOIR IN SOUTHERN SPAIN: COMPARING RIVER AND ATMOSPHERIC SOURCES
- 15:45 de Vicente, I.; Amores, V.; Cruz-Pizarro, L.; Morales-Baquero, R.: BIOTIC PHOSPHORUS UPTAKE BY SETTLING SESTON: A FEEDBACK EFFECT ON THE TROPHIC STATE
- 16:00 Laurich, L. M.; Vanni, M. J.: THE ROLE OF DETRITIVOROUS FISH IN SUPPORTING NEW AND RECYCLED PHOSPHORUS AND PRODUCTION IN RESERVOIR ECOSYSTEMS
- 16:15 Burford, M. A.; O'Donohue, M.: SEASONAL EFFECTS OF MECHANICAL DESTRATIFICATION ON CYANOBACTERIAL GROWTH AND DOMINANCE

- 16:30 Ordoñez, J.; Armengol, J.: LIGHT CLIMATE IN CATALONIAN RESERVOIRS. THE EFFECT OF THE CONCENTRATION OF CHLOROPHYLL AND SUSPENDED SOLIDS
- 16:45 Moreno-Ostos, E.; Rueda, F. J.; Cruz-Pizarro, L.; Escot, C.; Basanta-Alvés, A.; George, D. G.: COUPLING HYDRODYNAMICS AND SPATIAL DISTRIBUTION OF PHYTOPLANKTON IN A MID-SIZE RESERVOIR IN SOUTHERN SPAIN: THE ROLE OF WIND AND SELECTIVE WITHDRAWAL EVENTS

RS05: Ecosystems

Chair(s): N/A

Location: Palacio de Congresos y Exposiciones de Galicia

170. Aigars, J.; Poikane, R.; Ledaine, I.: SEASONAL PELAGIC-BENTHIC INTERACTIONS IN SHALLOW TEMPERATE ECOSYSTEM OF BALTIC SEA, WITH EMPASIZE TO BIOGENIC SILICA
171. Varela, M.; Bode, A.; Alvarez-Ossorio, M.; Anadon, R.; Valdes, L.: THE EFFECT OF PRESTIGE OIL SPILL ON THE PLANKTONIC ECOSYSTEM IN THE N-NW SPANISH COAST
172. Filgueira, R.; Labarta, U.; Fernández-Reiriz, M. J.: MODELLING CLEARANCE RATE OF MYTILUS GALLOPROVINCIALIS IN RESPONSE TO EXTREME CHLOROPHYLL RANGES
173. Babarro, J. M.; Fernández Reiriz, M. J.; Labarta, U.: BYSSOGENESIS OF THE MUSSEL MYTILUS GALLOPROVINCIALIS AS A FUNCTION OF BODY SIZE. EFFECTS OF STARVATION UNDER LABORATORY CONDITIONS
174. Marotta, H.; Enrich-Prast, A.: THE ROLE OF AQUATIC MACROPHYTES ON THE METABOLISM OF A TROPICAL COASTAL LAGOON
175. Camino Fernández-Aláez, C.; Margarita Fernández-Aláez, S.; Sara Rodríguez, S.: SEASONAL CHANGES IN NUTRIENT CONCENTRATION OF AQUATIC PLANTS IN SHALLOW LAKES IN THE NORTHWEST OF SPAIN: A COMPARISON ACROSS HABITATS AND SPECIES
176. Djakovac, T.; Supic, N.; Degobbi, D.; Precali, R.: UNUSUAL EVENT OF BOTTOM NEAR-ANOXIA IN THE NORTHERN ADRIATIC SEA DURING AUTUMN 2004
177. Ramcharan, C. W.; Keller, W.; Yan, N. D.: EFFECTS OF HERBIVORE SPECIES COMPOSITION ON COMMUNITY CLEARANCE RATE
178. Corman, J. R.; McIntyre, P. B.; Mbemba, W.; Kuboja, B.; Wheeler, C. W.; Flecker, A. S.: UPWELLING LINKS THE PELAGIC AND LITTORAL ZONES IN LAKE TANGANYIKA
179. Dias, R. F.; Jones, C. M.: HOW SEAGRASS BEDS SUPPORT FISH GROWTH IN THE CHESAPEAKE BAY: AN INTEGRATED BIOGEOCHEMICAL STUDY

RS06: Physical Interactions

Chair(s): Morten Søndergaard, msondergaard@bi.ku.dk

Location: Palacio de Congresos y Exposiciones de Galicia

180. Olivé, J.; Cayabyab, N.; Legaria, L.; Enriquez, S.: PHOTOACCLIMATORY RESPONSES OF THALASSIA TESTUDINUM TO A DEPTH GRADIENT AND ITS IMPLICATIONS ON ECOSYSTEM STRUCTURE
181. Echevarria, E.; Somavilla, R.; Bruno, M.; González-Gordillo, J. I.; Becognee, P.; Izquierdo, A.; Macías, D.; Vázquez, A.; García, C. M.: PLANKTON BIOMASS DISTRIBUTION IN THE CENTRAL CHANNEL OF THE STRAIT OF GIBRALTAR: AGGREGATION AS A RESPONSE TO PHYSICAL FORCING.
182. Cayabyab, N.; Enriquez, S.: PHOTOACCLIMATION OF THALASSIA TESTUDINUM LEAVES TO VARYING LIGHT REGIMES UNDER MESOCOSMS
183. Pálsson, C.; Daniel, C.; Granéli, W.: INTERACTIONS BETWEEN MIXOTROPHS AND THEIR OBLIGATE COMPETITORS
184. Ternat, E.; Boyer, P.; Amielh, M.; Anselmet, F.: CONSIDERING THE SEDIMENTARY DIAGENESIS IN MODELS OF RADIONUCLIDES TRANSFERS IN RIVERS

SS01: Ecosystem Engineers in the Benthic Boundary Layer

Chair(s): Luca A. van Duren, l.vanduren@nioo.knaw.nl

Joseph D. Ackerman, ackerman@uoguelph.ca

Location: Palacio de Congresos y Exposiciones de Galicia

54. Amaro, T. P.; Schutting, S.; Bergman, M.; Witbaard, R.; Duineveld, G.: POSSIBLE CAUSE OF THE SHIFTS IN THE FRISIAN FRONT MACROFAUNA
55. Saurel, C.; Gascoigne, J. C.; Wiles, P. J.; Williams, E.; Kaiser, M. J.: ENVIRONMENTAL CONTROLS OF FEEDING BEHAVIOUR IN M. EDULIS IN A TIDAL DRIVEN ECOSYSTEM THE MENAI STRAIT, UK.
56. Fernandes, S.; Van der Wal, D.; Wielemaker, A.; Van Duren, L. A.: BOUNDARY LAYER MODIFICATION BY COCKLES: A BUMPY ROAD TO UNDERSTANDING ROUGHNESS
57. SAURIAU, P. G.; ORVAIN, F.: MACROFAUNA - MICROPHYTOBENTHOS - SEDIMENT INTERACTIONS AS KEY FACTORS OF BENTHIC-PELAGIC COUPLING IN TIDAL MUDFLATS

(*) represents Invited presentations

58. Couto, F. G.; Cuevas, J. M.: CENSING TROPICAL SEA URCHINS: IS THE CLASSICAL VISUAL TECHNIQUE A PROPER METHODOLOGY FOR BORING SPECIES?

SS11: Biodiversity, Biogeochemistry and Trophic Interactions: The Braid of Pelagic Microbial Ecology

Chair(s): Farooq Azam, fazam@ucsd.edu

Fereidoun Rassoulzadegan, rassoul@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia

1. Pete, R.; Davidson, K.; Leakey, R. J.; Miller, A. E.: IMPACTS OF NUTRIENT ORGANIC PERTURBATIONS ON THE MICROBIAL COMMUNITY DYNAMICS IN THE WEST COAST OF SCOTLAND AND SCOTTISH SEA-LOCHS.
2. Penna, A.; Battocchi, C.; Giovine, M.; Bavecstrello, G.: BIOAVAILABILITY OF DIFFERENT CHEMICAL FORMS OF DISSOLVED SILICA CAN AFFECT MARINE DIATOM GROWTH RATE
3. Polymenakou, P. N.; Bertilsson, S.; Tselepidis, A.; Stephanou, E. G.: HIGH BACTERIAL DIVERSITY IN DIFFERENT SEDIMENTS OF THE EASTERN MEDITERRANEAN SEA: COMPARISON OF COMMUNITY COMPOSITION USING MOLECULAR-BASED TECHNIQUES
4. Lekunberri, I.; Pinhassi, J.; Gómez-Consarnau, L.; Balague, V.; Massana, R.; Gasol, J. M.; Pedrós-Alio, C.: COMPARISON OF BACTERIAL DIVERSITY IN AN OLIGOTROPHIC COASTAL SITE USING MOLECULAR-BIOLOGY AND CULTURING APPROACHES
5. Sherr, B. F.; Sherr, E. B.: WHAT CONTROLS ABUNDANCES OF PICOPLANKTON IN SITU? RESULTS FROM AN UPWELLING ECOSYSTEM
6. Penno, S.; Zandbank, K.; Golan, D.; Street, J.; Paytan, A.; Post, A. F.: CYANOBACTERIAL DIVERSITY, NITROGEN ACQUISITION AND NICHE ADAPTATION IN THE GULF OF AQABA, NORTHERN RED SEA.
7. Hansman, R. L.; Aluwihare, L. I.; Pearson, A.; Shah, S. R.; Ingalls, A. E.: METABOLIC CAPABILITIES OF PROKARYOTES IN THE DEEP OCEAN
8. Boyle, C. W.; Percent, S. F.; McLellan, M.; Stevens, B.; Nierzwicki-Bauer, S. A.: MICROBIAL COMMUNITIES IN ADIRONDACK LAKES OF DIVERSE LIMNOLOGY CAN BE ELUCIDATED BY 16S RDNA SEQUENCING
9. Lau, W.; Armbrust, E. V.; Keil, R. G.: CHANGES IN DIVERSITY OF A BACTERIAL GLYCOLATE UTILIZATION GENE (GLCD) DURING A SPRING PHYTOPLANKTON BLOOM

SS12: Quantifying Bioturbation and Bio-irrigation: A 'Camino' Beneath the Sediment-water Interface

Chair(s): Filip J. R. Meysman, f.meysman@nioo.knaw.nl

Jack J. Middelburg, j.middelburg@nioo.knaw.nl

Location: Palacio de Congresos y Exposiciones de Galicia

59. Stahl, H.; Glud, R. N.: TWO DIMENSIONAL OPTICAL PH MEASUREMENTS IN MARINE BIOTURBATED SEDIMENTS
60. Oguri Kazumasa, .; Kitazato Hiroshi, .; Glud Ronnie, N.: A HIGH-RESOLUTION PLANAR O₂ OPTODE SYSTEM OPTIMIZED FOR LOW OXYGEN CONCENTRATION IMAGING AND ITS APPLICATION FOR MEASURING MEIOBENTHIC ACTIVITIES
61. Maire, O.; Duchêne, J. C.; Rosenberg, R.; Amouroux, J. M.; Grémare, A. J.: A COMPARATIVE STUDY OF SEDIMENT REWORKING BY ABRA OVATA AND ABRA NITIDA USING IMAGE ANALYSIS
62. Banta, G. J.; Timmermann, K.; Klinge, L.; Andersen, O.: THE EFFECTS OF BIOTURBATION BY THE LUGWORM ARENICOLA MARINA ON THE FATE OF SEDIMENT POLLUTANTS – A FIELD STUDY WITH OIL CONTAMINATED SEDIMENTS
63. Birchenough, S. N.; Parker, E. R.; Kershaw, P. J.; Coggan, R. A.; Warr, K.: THE IMPACT OF SEABED DISTURBANCE ON BENTHIC PROCESSES IN THE NORTH SEA
64. Dorgan, K. M.; Jumars, P. A.; Johnson, B.; Boudreau, B. P.; Landis, E.: IMPLICATIONS OF BURROWING BY CRACK PROPAGATION FOR BENTHIC OBSERVATIONAL TOOLS
65. Delmotte, S.; Sauvage, S.; Gerino, M.; Thebault, J. M.: IS IT CORRECT TO INTEGRATE BOTH UPWARD AND DOWNWARD NONLOCAL TRANSPORT IN ONE 1D MODEL? COMPARISON WITH A 2D MODEL.

SS16: Environmental Effects on Reproduction of Marine Invertebrates

Chair(s): Catharina J. M. Philippart, katja@nioz.nl

Peter M. J. Herman, P.Herman@nioo.knaw.nl

Steve J. Hawkins, sjha@mba.ac.uk

Location: Palacio de Congresos y Exposiciones de Galicia

66. HANSEN, B. W.; Drillet, G.; Kristensen, R. M.; Ramløv, H.; Sørensen, T. F.: WINTER EGG PRODUCTION AND EGG MORPHOTYPES OF NERITIC COPEPODS IN DENMARK
67. Martínez-Castro, C.; Vázquez, E.; Pérez-Fernández, E.: SPATIAL AND TEMPORAL DISTRIBUTION OF CERASTODERMA EDULE RECRUITMENT IN TWO INTERTIDAL SANDFLATS OF THE RIA DE VIGO
68. Penela-Arenaz, M.; Macho, G.; Pérez-Fernández, E.; Vázquez, E.: RECRUITMENT OF CIRRIPEDS ON GALICIAN COAST AFTER PRESTIGE OIL SPILL
69. Duchêne, J. C.; Charles, F.; Rodrigues, C.: HIGH FREQUENCY MONITORING OF EARLY EUPOLYMNIA NEBULOSA (POLYCHAETA, TEREBELLIDAE) SETTLEMENT
70. Roy, M. A.; Chanut, J. P.; Sévigny, J. M.; Tremblay, R.: GENETIC CHARACTERISATION OF GIANT SCALLOP, PLACOPECTEN MAGELLANICUS, AT VARIOUS SPATIAL AND TEMPORAL SCALES IN THE GULF OF ST. LAWRENCE
71. Gonzalez, J. M.; Canteras, J. C.; Lopez, L. S.: PRELIMINARY DATA OF BIOLOGICAL CYCLES OF THE SEA URCHIN PARACENTROTUS LIVIDUS. ENVIRONMENTAL EFFECTS IN SPAWNING.
72. Rocha, E.; Nigmatullin, C.; Kidokoro, H.: ENVIRONMENTAL FACTORS INFLUENCE ON NUMBER DYNAMIC, DISTRIBUTION AND ROLE IN ECOSYSTEMS OF SQUIDS FAMILY OMMASTREPHIDAE
73. VAZQUEZ, E.; PUTZEYS, S.; GORDO, C.; AMENEIRO, J.: DISTRIBUTION OF THE MEROZOOPLANKTON IN THE BRANSFIELD STRAIT, ANTARCTICA
74. Domingues, C. P.; Queiroga, H.: VERTICAL DISTRIBUTION OF SETTLEMENT AND EARLY POST-SETTLEMENT MORTALITY AND GROWTH RATES OF CHTHAMALUS MONTAGUI ON THE NW PORTUGUESE COAST
75. Moura, N. F.; Viana, G. S.; Schwaborn, R.: ESTUARINE SEAGRASS BEDS (HALODULE WRIGHTII) AS NURSERY GROUNDS FOR JUVENILE LOBSTERS PANULIRUS ARGUS OFF ITAMARACA ISLAND – NORTHEASTERN BRAZIL
76. Coma, R.; Ribes, M.; Linares, C.: PRELIMINARY DATA ON THE PATTERNS OF VARIATION IN SEXUAL REPRODUCTION EFFORT OF THE MEDITERRANEAN GORGONIAN PARAMURICEA CLAVATA: A LONG-TERM STUDY
77. Cruz, T.; Fernandes, J.; Queiroga, H.; Domingues, C.; Oliveira, S.; Oliveira, P. B.; Dubert, J.; Castro, J. J.; Hawkins, S. J.; Grantham, B.: RECRUITMENT OF CHTHAMALUS SPP. IN WESTERN PORTUGAL: REGIONAL, INTER-ANNUAL AND DAILY VARIABILITY
78. Jacinto, D.; Cruz, T.: TIDAL RECRUITMENT OF CHTHAMALUS SPP. AT PRAIA DA OLIVEIRINHA (SW PORTUGAL): INTERACTION BETWEEN NIGHT AND DAY CYCLE AND TIDAL RANGE

SS17: Viruses, Microbial Diversity and Ecosystem Function

Chair(s): Steven W. Wilhelm, wilhelm@utk.edu

Markus G. Weinbauer, Markus.Weinbauer@obs-vlfr.fr

Curtis A. Suttle, csuttle@eos.ubc.ca

Location: Palacio de Congresos y Exposiciones de Galicia

263. Cancellation
264. Leitet, C.; Riemann, L.; Hagström, Å.: PREVALENCE AND DIVERSITY OF PLASMIDS AND LYSOGENIC VIRUSES IN BALTIC SEA BACTERIOPANKTON
265. Cancellation
266. Bellarel, Y.; Coats, D. W.; Kan, J.; Wang, K.; Chen, F.; Williamson, K.; Wommack, K. E.: ISOLATION AND CHARACTERISATION OF A NUCLEAR INCLUSION VIRUS INFECTING THE BLOOM FORMING DIATOM CHAETOCEROS C.F. GRACILIS
267. Eissler, Y.; Coats, D. W.: CHARACTERIZATION OF PHYTOPLANKTON-VIRAL SYSTEMS FROM CHEASAPEAKE BAY, USA
268. Mallis, A.; Weinbauer, M. G.: EFFECT OF TURBULENCE ON VIRAL CONTROL OF PROKARYOTIC BIOMASS, PRODUCTION AND DIVERSITY
269. Parada, V. S.; Sintes, E.; Weinbauer, M.; Herndl, G. J.: VIRIOPANKTON DYNAMICS IN THE SEA-SURFACE MICROLAYER IN AN ANTICYCLONIC EDDY OF THE NORTHWESTERN MEDITERRANEAN SEA
270. VEIRA, M. E.; BORDALO, A. A.: HYDRODYNAMIC CONDITIONS AND PLANKTONIC VARIABILITY IN A SALT WEDGE ESTUARY (DOURO, PORTUGAL)
271. Thyrhaug, R.; Larsen, A.; Fonnes Flaten, G. A.: NUTRIENT PERTURBATIONS OF A STABLE ALGAE-VIRUS SYSTEM

(^c) represents Tutorial presentations

272. Williams, H. N.; Wang, C.; Shastli, M.; Braxton, J.; Noble, R.; Pineiro, S. A.: RESPONSE OF BDELLOVIBRIACEAE AND VIRUSES TO MASSIVE INFLUX OF V. PARAHAEMOLYTICUS IN NATURAL WATERS
273. Reboreda, R.; Caçador, I.: COMPARISON OF THE MICROBIAL ACTIVITY IN SEDIMENTS ASSOCIATED TO SPARTINA MARITIMA AND SARCOCORNIA PERENNIS IN TAGUS ESTUARY SALT MARSHES

SS18: The Consequences of Biodiversity in Aquatic Habitats

Chair(s): Per Jonsson, per.jonsson@tblm.gu.se

Helmut Hillebrand, helmut.hillebrand@uni-koeln.de

Location: Palacio de Congresos y Exposiciones de Galicia

79. Asaeda, T.; Sanderson, B.; Redden, A.; Manatunge, J.; Rajapakse, L.; Fujino, T.: DISTRIBUTION OF CHAROPHYTES AND OTHER SUBMERGED MACROPHYTES IN MYALL LAKE, AUSTRALIA, AND ITS ROLE IN NUTRIENT CYCLING
80. Jonsson, P. R.; Matthiessen, B.; Gamfeldt, L.; Hillebrand, H.: SPECIES RICHNESS CHANGES ACROSS TWO TROPHIC LEVELS SIMULTANEOUSLY AFFECT PREY AND CONSUMER BIOMASS
81. Conde-Porcuna, J. M.; Sánchez-Castillo, P.; López-Ramos, J.; Pérez-Martínez, C.: THE EFFECTS OF SALINITY ON PLANKTON BIODIVERSITY IN SPANISH SHALLOW LAKES
82. Råberg, S.; Kautsky, L.: GRAZER PRESENCE AND IDENTITY AS WELL AS NUTRIENT ENHANCEMENT AFFECT THE BIOMASS OF EPIFLORA ON FUCUS VESICULOSUS
83. Ysebaert, T.; Hart, M.; Herman, P. M.: HOW ORGANIC MATTER FLUX DETERMINES MACROBENTHIC BIODIVERSITY AND SECONDARY PRODUCTION IN THE PRESENCE OF BIVALVE FILTER FEEDERS
84. JANSON, A. L.; DESROY, N.; DENIS, L.; RAUCH, M.: BIODIVERSITY OF BENTHIC COMMUNITIES AND GEOCHEMICAL PROCESSES: AN IN SITU STUDY OF INTERACTIVE EFFECTS

SS21: Functional Diversity of the Microzooplankton

Chair(s): Albert Calbet, acalbet@icm.csic.es

Michael R. Landry, mlandry@ucsd.edu

Location: Palacio de Congresos y Exposiciones de Galicia

85. López, E.; Anadón, R.: ANNUAL CYCLE OF COPEPOD NAUPLII FEEDING RATES IN THE CANTABRIAN SEA.
86. Henriksen, C. C.; Saiz, E.; Calbet, A.; Hansen, B. W.: NAUPLII INGESTION RATES AND BEHAVIOURAL PATTERNS
87. Kovac, N.; Bajt, O.; Mozetic, P.; Orel, B.; Šurca Vuk, A.: FTIR SPECTROSCOPIC CHARACTERISTICS OF NOCTILUCA SCINTILLANS
88. Liu, H.; Dagg, M. J.: EFFECTS OF MICRO- AND MESOZOOPLANKTON GRAZING ON PICOPHYTOPLANKTON IN THE MISSISSIPPI RIVER PLUME AND ITS ADJACENT WATERS
89. Fileman, E. S.; Kimmance, S.; Collins, V.: MICROZOOPLANKTON DIVERSITY AND HERBIVORY DURING A DUAL IRON AND PHOSPHORUS FERTILISATION EXPERIMENT IN THE SUB-TROPICAL NORTH ATLANTIC
90. Widdicombe, C. E.; Lewellyn, C. A.; Smith, T.: PLANKTON DIVERSITY DURING A COCCOLITHOPHORE-RICH PHYTOPLANKTON BLOOM: IMPORTANCE OF MICROZOOPLANKTON?

SS22: Polar Shelf-basin Exchange: Physical Forcing, Biogeochemical Fluxes and Food Web Dynamics

Chair(s): Jackie Grebmeier, jgrebmei@utk.edu

Louis Fortier, louis.fortier@bio.ulaval.ca

Location: Palacio de Congresos y Exposiciones de Galicia

106. Ola, T.; Suzuki, T.; Sampei, M.; Sasaki, H.; Hattori, H.; Fukuchi, M.: GRAZING AND GROWTH ACTIVITY OF MICROZOOPLANKTON UNDER THE SEA-ICE IN THE CANADIAN ARCTIC WINTER 2004
107. Mundy, C. J.; Barber, D. G.; Michel, C.: VARIABILITY OF THERMAL, PHYSICAL, OPTICAL AND MICROALGAE PROPERTIES IN SPRING SEASON LANDFAST FIRST-YEAR SEA ICE
108. Makabe, R.; Sasaki, H.; Hattori, H.; Sampei, M.; Fukuchi, M.; Fortier, L.: SEASONAL VARIATION OF COMPOSITION AND BIOMASS OF SEDIMENT TRAP-COLLECTED SWIMMERS IN THE AMUNDSEN GULF
109. Hattori/Hiroshi, H.; Sampei/Makoto, .; Makabe/Ryousuke, .; Sasaki/Hiroshi, .; Fukuchi/Mitsuo, .: ONTOGENETIC MIGRATION OF COPEPODS OBSERVED USING AN UPWARD-MIGRATING SWIMMER TRAP IN THE AMUNDSEN GULF, CANADIAN ARCTIC IN THE CASES 2003-2004.

110. Nishino, S.; Shimada, K.; Itoh, M.; McLaughlin, F. A.; Zimmermann, S. L.; Carmack, E. C.: CONTRIBUTION OF SHELF WATER FROM THE EAST SIBERIAN SEA TO NUTRIENT DISTRIBUTIONS IN THE CANADA BASIN
111. Matsuoka, A.; Saitoh, S.; Shimada, K.: BIO-OPTICAL PROPERTIES AND ITS APPLICATION FOR OCEAN COLOR ALGORITHM IN THE WESTERN ARCTIC OCEAN
112. Zaborska, A.; Carroll, J.; Pazdro, K.; Walkusz-Miotk, J.; Beldowski, J.; Pempkowiak, J.: RECONSTRUCTING TEMPORAL CHANGES IN SEDIMENT CONTAMINANT CONCENTRATIONS IN THE NORTHERN BARENTS SEA
113. Mucci, A.; Miller, L.: CARBON EXCHANGE AT THE AIR-SEA INTERFACE ON THE MACKENZIE SHELF, CANADIAN ARCTIC (CASES PROGRAM)
114. Kosobokova, K. N.; Hirche, H. J.: DISTRIBUTION OF CALANUS SPECIES IN THE WESTERN ARCTIC OCEAN
115. Dmitrenko, I.; Polyakov, I.; Kirillov, S.; Timokhov, L.; Ivanov, V.; Hoelmann, J.; Walsh, D.: SEASONAL DYNAMICS OF THE ATLANTIC WATER ACROSS THE SIBERIAN CONTINENTAL SLOPE: POTENTIAL IMPLICATION FOR SHELF-BASIN EXCHANGE
116. Hofmann, E. E.; Prezelin, B. B.; Klinck, J. M.; Moline, M.; Kim, H. C.: UCDW CONTROL ON PHYTOPLANKTON COMMUNITY STRUCTURE AND PRIMARY PRODUCTION IN CONTINENTAL SHELF WATERS OF THE WESTERN ANTARCTIC PENINSULA
117. Kashino, Y.; Aikawa, S.; Sampei, M.; Matsuoka, A.; Yamamoto, S.; Makabe, R.; Ohta, T.; Suzuki, T.; Satoh, K.; Hattori, H.; Sasaki, H.; Kudoh, S.; Fukuchi, M.: SEASONAL CHANGES OF PHOTOSYNTHETIC PROPERTIES IN PSYCHROPHILIC PHYTOPLANKTON INHABITING POLYNUA LOCATED IN MACKENZIE SHELF
118. Aikawa, S.; Sampei, M.; Makabe, R.; Satoh, K.; Hattori, H.; Sasaki, H.; Kudoh, S.; Fukuchi, M.; Kashino, Y.: PHOTOSYNTHETIC PROPERTIES OF PHYTOPLANKTON INHABITING MACKENZIE SHELF
119. Morata, N.; Renaud, P. E.; Riedel, A.; Gosselin, M.; Michel, C.: RAPID RESPONSE OF THE BENTHIC COMMUNITY TO AN ICE ALGAL BLOOM IN THE BEAUFORT SEA, CANADIAN ARCTIC
120. Belicka, L. L.; Harvey, H. R.: INTEGRATING MOLECULAR AND ISOTOPIC MEASURES TO ASSESS HISTORICAL CHANGES IN ORGANIC CARBON CYCLING IN THE ARCTIC OCEAN
121. Sampei, M.; Sasaki, H.; Hattori, H.; Fukuchi, M.; Fortier, L.: SEASONAL VARIABILITY OF PARTICLE FLUXES IN THE BEAUFORT SEA, 2002-2003.
122. Urban-Rich, J.: ZOOPLANKTON INPUTS TO DOM IN THE ARCTIC
123. Cooper, L. W.; Grebmeier, J. M.: PROGRESS ON DEVELOPMENT OF A DENITRIFICATION ASSAY FOR A SHIPBOARD SEDIMENT INCUBATION SYSTEM

SS24: Biodiversity and Ecosystem Function, Contrasting Human-altered With Pristine Streams

Chair(s): Francesc Sabater, fsabater@ub.edu

Tom J. Battin, tomba@pflaphy.pph.univie.ac.at

Eugenia Marti, eugenia@ceab.cisc.es

Location: Palacio de Congresos y Exposiciones de Galicia

91. Schulz, M.: SEDIMENTS IN LOWLAND RIVERS - PHOSPHORUS SOURCE OR SINK?
92. Madi, K.; Marakakis, E.; Voreadou, C.; Manios, T.; Markakis, G.: APPLICATION OF THE ENVIRONMENTAL DECISION SUPPORT SYSTEM (EDSS) "STREAMS" TO THE RUNNING WATER ECOSYSTEMS OF CRETE.
93. Albino, M. F.; Boavida, M. J.: BENTHIC MACROINVERTEBRATE COMMUNITIES USED AS BIOINDICATORS ON FIVE SELECTED SITES IN ODELOUCA STREAM (SW PORTUGAL) – WATER FRAMEWORK DIRECTIVE APPLICATION
94. Chatzizinkolaou, Y.; Dakos, V.; Lazaridou, M.: WATER QUALITY AND RIVER HABITAT MONITORING IN TWO SOUTH BALKAN LARGE TRANSBOUNDARY RIVERS
95. Suarez, M. L.; Mellado, A.; Vidal-Abarca, M. R.: FUNCTIONAL DIVERSITY AND GENUS RICHNESS OF MACROINVERTEBRATE ASSEMBLAGES FROM SE SPAIN: NATURAL VARIATIONS AND ANTHROPOGENIC INFLUENCES.
96. Robles, S.; Nuño, C.; Avilés, J.; Toro, M.: HOZGARGANTA RIVER: BIOTIC CHARACTERISTICS OF A MEDITERRANEAN BASIN IN PRISTINE CONDITIONS
97. Vervier Philippe, P.; Sauvage Sabine, S.; Sanchez-Perez José Miguel, J. M.; Gerino Magali, M.; Maneux Eric, E.; Peyrard Dimitri, D.; Battin Tom, T.; Gafny Sarig, S.; Marti Eugenia, E.; Morais Manuela, M.; Puig, M.; Pusch, M.; Sabater, F.; Solimini, A.; Voreadou, C.: HYDRO-MORPHOLOGICAL CONTROL ON NUTRIENT RETENTION IN EUROPEAN STREAMS
98. Goma, J.; Farrés, J.; Cambra, J.: FOREST FIRE EFFECTS ON EPIPLITHIC DIATOM COMMUNITIES OF AN OLIGOTROPHIC MEDITERRANEAN STREAM
99. Larson, E. K.; Grimm, N. B.: DISTRIBUTION AND DENITRIFICATION POTENTIAL OF WATER FEATURES IN THE PHOENIX, USA METROPOLITAN AREA

(*) represents Invited presentations

SS30: Nitrate Uptake By Phytoplankton in Nutrient-rich Areas

Chair(s): Patricia Gilbert, gilbert@hpl.umces.edu
Yves Collos, collos@univ-montp2.fr

Location: Palacio de Congresos y Exposiciones de Galicia

10. Boyd, C. M.: Boyd, J. M.: MECHANISMS OF TRANSPORT OF NITRATE IONS INTO ALGAL CELLS: FORM AND FUNCTION AT THE MOLECULAR LEVEL.

SS31: Coupled Oceanographic Processes in Estuaries and River Dominated Margins

Chair(s): Pere Puig

Miguel A. Goñi, goni@geol.sc.edu

Location: Palacio de Congresos y Exposiciones de Galicia

185. Lionard, M.: Muylaert, K.; Carbonnel, V.; Chou, L.; Vyverman, W.: PHYTOPLANKTON DYNAMICS IN TIDAL AND NON-TIDAL TRIBUTARIES OF THE SCHELDE ESTUARY (BELGIUM) STUDIED BY HPLC PIGMENT ANALYSES
186. Grenz, C.: Rabouille, C.; Lansard, B.; Bomble, B.; Denis, L.; Kershaw, P.: THE FATE OF THE RHONE RIVER DELIVERY TO THE COASTAL OCEAN: TOWARDS THE USE OF COASTAL OCEAN BENTHIC OBSERVATORIES (COBO)
187. Houser, L. T.; Epifanio, C. E.; Tilburg, C. E.: FIELD INVESTIGATION OF THE PATCH DYNAMICS OF LARVAL CRABS:
188. MIRALLES, J.; MAILLET, G.; VELLA, C.; RADAKOVITCH, O.; ARNAUD, M.: Sedimentary features in the Rhône River prodelta from radionuclide analysis and bathymetric evidences
189. Lillebo, A. L.; Neto, J. M.; Martins, I.; Verdelhos, T.; Leston, S.; Cardoso, P. G.; Ferreira, S. M.; Marques, J. C.; Pardal, M. A.: MANAGEMENT OF A SHALLOW WARM-TEMPERATE ESTUARY TO CONTROL EUTROPHICATION: THE EFFECT OF HYDRODYNAMICS ON THE SYSTEM NUTRIENT LOADING
190. Doval, M. D.; Pazos, Y.; Morono, A.; Maneiro, J.: ACCUMULATION OF DISSOLVED ORGANIC CARBON IN COASTAL UPWELLING EMBAYMENTS OF RIAS BAIXAS (NW SPAIN) AND THEIR RELATIONSHIP WITH HYDROGRAPHY
191. Puig, P.; Palanques, A.; Guillén, J.: SEDIMENT TRANSPORT PROCESSES THROUGH THE CAP DE CREUS SUBMARINE CANYON
192. Kerhervé, P.; Pischedda, L.; Heussner, S.; Martínez, P.; Minagawa, M.: ORIGIN AND FATE OF THE PARTICULATE ORGANIC MATTER IN THE GULF OF LIONS (NW MEDITERRANEAN SEA) ELUCIDATED BY THE USE OF STABLE ISOTOPES OF C AND N.
193. Silva, H.; Dias, J.; Caçador, I.: SHORT-TERM SEDIMENTATION IN TAGUS ESTUARY AND AVEIRO LAGOON, PORTUGAL: THE ROLE OF SALT MARSH PLANTS
194. Arndt, S.; Regnier, P.; Van Cappellen, P.; Soetaert, K.: INTERACTIONS BETWEEN SEDIMENT DYNAMICS AND BIOGEOCHEMISTRY IN TIDAL ESTUARIES: A MODEL APPROACH
195. Greengrove, C. L.; Keil, R. G.: PHYSICAL OCEANOGRAPHIC CONDITIONS IN BARKLEY AND CLAYOQUOT SOUNDS, BRITISH COLUMBIA CANADA - LATE SUMMER 2000-2004
196. Varona-Cordero, F.; Gutiérrez, F. M.: STRUCTURE OF PHYTOPLANKTON ASSEMBLAGES IN TWO TROPICAL COASTAL LAGOONS OF MEXICAN PACIFIC
197. Zhu, Y.; Zhou, M.: ZOOPLANKTON DISTRIBUTIONS AND SIZES IN A FRESHWATER PLUME: AN APPLICATION OF LASER OPTICAL PLANKTON COUNTER

SS32: Diversity Among Components of the Microbial Loop

Chair(s): John Dolan, dolan@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia

11. Moreira, D.; Slapeta, J.; López-García, P.: MOLECULAR ECOLOGY OF FRESHWATER EUKARYOTES AND THE EXTENT OF PROTIST DIVERSITY
12. Garcés, E.; Reñe, A.; Vila, M.; Anglés, S.; Alonso-Sáez, L.; Gasol, J.; Masó, M.: BACTERIOPANKTON COMMUNITY STRUCTURE AS AFFECTED BY HARMFUL ALGAL BLOOM DEVELOPMENT
13. Godhe, A.; Riccardi, M.; Harnstrom, K.: ISOLATION AND CHARACTERIZATION OF MICROSATELLITE LOCI IN THE DIATOM SKELETONEMA
14. Slapeta, J.; Moreira, D.; Lopez-García, P.: MOLECULAR EVIDENCE FOR PICOPLANKTON DIVERSITY VIEWED FROM PROTEIN CODING AND NON-CODING DNA
15. Lefèvre, E.; Noël, C.; Sime-Ngando, T.; Carrias, J. F.; Amblard, C.; Viscogliosi, E.: SMALL HETEROTROPHIC FLAGELLATES IN LAKES: MOLECULAR AND PHYLOGENETIC APPROACH
16. Turk, V.; Flander-Putrlé, V.; Malej, A.: THE MICROPLANKTON STRUCTURE BEFORE APPEARANCE OF MUCUS AGGREGATES

17. Logares, R.; Rengefors, K.; Kremp, A.; Klaveness, D.: A CASE OF RAPID EVOLUTION? CLOSE EVOLUTIONARY RELATIONSHIP BETWEEN A MARINE AND A FRESHWATER DINOFLAGELLATE SPECIES
18. Modigh, M.: CHANGES IN TINTINNID SPECIES COMPOSITION IN RESPONSE TO INCREASING WATER TEMPERATURES
19. Wickham, S. A.; Reuter, M.; Claessens-Kenning, M.; Post, A.: HIGH CILIATE BIODIVERSITY IN THE ULTRA-OLIGOTROPHIC GULF OF AQABA
20. Berninger, U. G.; Lei, Y.; Stumm, K.: CILIATE DIVERSITY IN SHALLOW SEDIMENTS: IMPLICATIONS FOR THE FUNCTIONING OF THE BENTHIC MICROBIAL FOOD WEB
21. Jeffrey, W. H.; Baldwin, A. J.; Moss, J. A.; Pakulski, J. D.; Joux, F.: MICROBIAL DIVERSITY IN A PACIFIC OCEAN TRANSECT FROM THE ARCTIC TO ANTARCTIC CIRCLES

SS34: Plate Tectonics and Chemotrophy at Deep-sea Vents

Chair(s): F. Grant Ferris, grant.ferris@utoronto.ca

Danielle Fortin, dfortin@uottawa.ca

Location: Palacio de Congresos y Exposiciones de Galicia

124. Le Bris, N.; Zbinden, M.; Compere, P.; Gailli, F.: BIOGEOCHEMICAL PROCESSES IN MICROBIAL HABITATS ASSOCIATED WITH RIMICARIS EXOCULATA VENT SHRIMPS

SS42: Hydrology-related Downstream-effects on Lakes

Chair(s): S. Geoffrey Schladow, Gschladow@ucdavis.edu

Kenneth I. Ashley, Ken.Ashley@gems5.gov.bc.ca

Location: Palacio de Congresos y Exposiciones de Galicia

198. Bozek, M. A.; Brown, P. J.: LIMNOLOGICAL CHANGES IN BIG SODA LAKE, NEVADA: FORECASTING THE END TO MEROMIXIS INDUCED BY ANTHROPOGENIC EFFECTS
199. Wurtsbaugh, W. A.; Garrett, J. D.; Burkart, G.; Fleenor, W. E.; Nydick, K. R.; Hall, R. O.; Baker, M. A.: LANDSCAPE PATTERNS OF STREAMS & LAKES IN MONTANE WATERSHEDS DETERMINE WATER TEMPERATURES & NUTRIENT TRANSPORT: WATERSHED ANALYSES AND N-15 TRACER EXPERIMENTS

SS44: Interactive Effects of DOM Properties and Mineral Nutrients on Bacterial Composition and Activity

Chair(s): Isabel Reche, IRECHE@UGR.es

Stuart Findlay, findlays@ecostudies.org

Location: Palacio de Congresos y Exposiciones de Galicia

22. Magalhães, C. P.; Bano, N.; Wiebe, W. J.; Hollibaugh, J. T.; Bordalo, A. A.: INTERTIDAL ROCKY BIOFILMS VERSUS SEDIMENT BIOFILMS: NITRIFYING BACTERIAL COMMUNITY STRUCTURE AND FUNCTION (DOURO RIVER ESTUARY, PORTUGAL).
23. Piccini, C.; Conde, D.; Sommaruga, R.; Alonso, C.; Pernthaler, J.: BACTERIOPANKTON COMMUNITY DYNAMICS IN A SOUTH ATLANTIC COASTAL LAGOON (LAGUNA DE ROCHA)
24. Dorador, C.; Witzel, K. P.; Vargas, C.; Vila, I.; Imhoff, J. F.: BACTERIAL COMMUNITIES IN HIGH ANDEAN WETLANDS: THE CASE OF HUASCO SALAR, CHILE

SS48: Biogeochemistry, Ecology, and Hydrodynamics of Tidal Flat Systems

Chair(s): Jack Middelburg, j.middelburg@nioo.knaw.nl

Meinhard Simon, m.simon@icbm.de

Location: Palacio de Congresos y Exposiciones de Galicia

200. Pilditch, C. A.; Green, M. O.: WAVE EXPOSURE MODIFIES THE DENSITY DEPENDENT EFFECTS OF A DEPOSIT-FEEDING BIVALVE ON ESTUARINE INTERTIDAL SEDIMENT STABILITY
201. YANG, E. J.; CHOI, J. K.: THE DISTRIBUTION OF THE BENTHIC HETEROTROPHIC PROTISTS AND THEIR GRAZING IMPACTS ON BENTHIC BACTERIA AND MICROALGAE IN KOREAN TIDAL FLATS
202. Köster, J.; Sass, H.; Freese, E.; Rullkötter, J.: PORE WATER PROFILES IN INTERTIDAL SEDIMENTS FROM THE GERMAN WADDEN SEA
203. Böttcher, M. E.; Bosselmann, K.; Batel, S.; Hespenthalde, B.; Theune, A.: THE BIOGEOCHEMICAL SULFUR CYCLE IN INTERTIDAL SURFACE SEDIMENTS OF THE GERMAN WADDEN SEA

(^c) represents Tutorial presentations

204. Beck, M.; Dellwig, O.; Liebezeit, G.; Reuter, R.; Brumsack, H. J.: POREWATER GEOCHEMISTRY OF A TIDAL FLAT, NW GERMANY
205. Luebben, A.; Badewien, T.; Dellwig, O.; Gemein, N.; Koch, S.; Koelsch, S.; Puncken, O.; Reuter, R.: GELBSTOFF IN THE EAST-FRISIAN WADDEN SEA
206. Harder, T.; Esser, F.; Sebesvari, Z.: INFLUENCE OF BIOGEOCHEMICAL SEDIMENT PARAMETERS ON INFAUNAL COLONIZATION OF SPIONIDS IN TIDAL FLATS (WADDEN SEA, GERMANY)
207. Ferrón, S.; Alonso-Pérez, F.; Forja, J. M.; Castro, C. G.; Ortega, T.; Rios, A. F.; Pérez, F. F.; Gómez-Parra, A.: DESIGN AND PERFORMANCE OF AN AUTONOMOUS BENTHIC CHAMBER
208. März, J.; Feudel, U.; Wirtz, K. W.: UNDERSTANDING AGGREGATE DYNAMICS IN TURBULENT SHALLOW WATERS USING A NEW MODELLING APPROACH
209. Jansen, S.; Walpersdorf, E.; Werner, U.; Billerbeck, M.; De Beer, D.: DYNAMICS OF OXYGEN AND SULFIDE IN INTERTIDAL SEDIMENTS
210. Hilker, Y. C.; Gittel, A.; Cypionka, H.; Engelen, B.: VERTICAL DISTRIBUTION OF BACTERIAL COMMUNITIES INVOLVED IN THE METHANE CYCLE OF TIDAL FLAT SEDIMENTS
211. Gittel, A.; Hilker, Y. C.; Engelen, B.; Cypionka, H.; Sass, H.: DETECTING SULFATE-REDUCING BACTERIA IN COASTAL SUBSURFACE SEDIMENTS BY MEANS OF GEOCHEMICAL AND MOLECULAR APPROACHES
212. Engelen, B.; Sass, H.; Köpke, B.; Wilms, R.; Cypionka, H.: MICROBIAL DIVERSITY AND ACTIVITIES WITHIN THE SUBSURFACE OF TIDAL FLAT SEDIMENTS
213. Hyacinthe, C.; Bonneville, S.; Bin, L.; Van Cappellen, P.: REACTIVE FERRIC IRON IN INTERTIDAL SEDIMENTS: CHEMICAL VERSUS MICROBIAL EXTRACTIONS.
214. Al Raeli, A. M.; Böttcher, M. E.; deBeer, D.; Ferdelman, T. G.: APPLICATION OF A LIQUID-ION-EXCHANGE MICROSENSOR FOR IN SITU MEASUREMENT OF SULFATE IN FRESHWATER AND MARINE SEDIMENTS
215. van Leeuwe, M. A.; Brotas, V.; Consalvey, M.; Cordes, W.; Forster, R. M.; Gillespie, D.; Roggeveld, J.; Gieskes, W. W.; Brockmann, C.: PHOTOACCLIMATION IN MICROPHYTOBENTHOS AND THE ROLE OF XANTHOPHYLL PIGMENTS.
216. Stumm, K.; Berninger, U. G.: THE MICROBIAL FOOD WEB OF SHALLOW BENTHIC HABITATS: A CROSS-SYSTEM COMPARISON
217. TIAGO OSORIO FERREIRA, T. F.; XOSE LUIS OTERO, X. O.; PABLO VIDAL TORRADO, P. T.: SPATIAL VARIABILITY OF PORE WATER CHEMISTRY IN MANGROVE SOILS FROM SOUTHEAST BRAZIL
218. Anschutz, P.; Deborde, J.; Abril, G.; Deflandre, B.; Chailou, G.; Sundby, B.: SEDIMENT-WATER COLUMN EXCHANGES DURING A TIDAL CYCLE IN THE ARCACHON LAGOON. (SW-FRANCE)

SS51: Exchange Processes in Upwelling Systems

Chair(s): M. Kosro, kosro@coas.oregonstate.edu

E. D. Barton, e.d.barton@im.csic.es

Location: Palacio de Congresos y Exposiciones de Galicia

125. García, C. M.; Macías-Moy, D.; Bruno, M.; Vázquez, A.; Echevarría, F.: INTERNAL WAVES AND MIXING PROCESSES IN STRAIT OF GIBRALTAR: A PULSATING UPWELLING EVENT.
126. Pennington, J. T.; Castro, C. G.; Evans, W. W.; Friederich, G. E.; Michisaki, R. P.; Chavez, F. P.: A CARBON BUDGET FOR THE NORTHERN AND CENTRAL CALIFORNIA COASTAL UPWELLING SYSTEM
127. Navarro, G.; Ruiz, J.; García, C. M.; Echevarría, F.: BASIN SCALE STRUCTURES GOVERNING THE POSITION OF THE DEEP CHLOROPHYLL MAXIMUM (DCM) IN THE GULF OF CÁDIZ (SW SPAIN).
128. Julies, E. M.; Bruchert, V.; Arnosti, C.: CARBON TRANSFORMATION IN SHELF SEDIMENTS OF THE NAMIBIAN UPWELLING SYSTEM
129. Santos, A. M.; Peliz, A.; Ribeiro, A. C.; Ré, P.: BIOLOGICAL RETENTION AND TRANSPORT IN WESTERN IBERIA DURING A WINTER UPWELLING EVENT
130. POMPEU, M.; MOSER, G. A.; GAETA, S. A.; KAMPEL, M.; SILVEIRA, I. C.: PHYTOPLANKTON AND PRIMARY PRODUCTIVITY DYNAMICS IN SPATIAL MESOSCALE UNDER THE BRAZILIAN CURRENT INFLUENCE.
131. Prieto, L.; Navarro, G.; García, C. M.; Echevarría, F.; Ruiz, J.: DISTRIBUTION OF TEP IN THE EUPHOTIC AND UPPER MESOPELAGIC ZONES OF THE GULF OF CÁDIZ
132. Castro, C. G.; Collins, C. A.; Pennington, J. T.; Gago, J.; Michisaki, R. P.; Rienecker, E.; Chavez, F. P.: DISTRIBUTION PATTERN OF TOTAL ORGANIC CARBON IN THE EASTERN BOUNDARY OF THE NORTH PACIFIC
133. Michisaki, R. P.; Pennington, J. T.; Friederich, G.; Chavez, F. P.: A DAY IN THE LIFE OF MONTEREY BAY: A WINDOW INTO NORTH PACIFIC ECOSYSTEM DYNAMICS
134. Skarøhamar, J.; Svendsen, H.: COASTAL UPWELLING OFF NORTH NORWAY
135. Friederich, G. E.; Johnson, K. S.; Chavez, F. P.: ESTIMATES OF COMMUNITY PRODUCTIVITY FROM CONTINUOUS CARBON DIOXIDE MEASUREMENTS ON COASTAL AND EQUATORIAL MOORINGS

SS56: Coastal Sand Ecosystem Dynamics

Chair(s): Perran Cook, pcook@mpi-bremen.de

Markus Huettel, mhuettel@ocean.fsu.edu

Location: Palacio de Congresos y Exposiciones de Galicia

219. Hedtkamp, S. J.; van Beusekom, J. E.; Cook, P. L.; Huettel, M.: SEASONAL CHANGES IN PERMEABILITY OF SUBTIADAL COASTAL SANDS - REASONS AND CONSEQUENCES
220. Cancellation
221. Velasco, S.; López-Archilla, A. I.; Montes, C.; Guerrero, M. C.: THE FUNCTIONAL ROLE OF THE MICROBIAL COMMUNITY IN THE ALMONTE-MARISMA S AQUIFER SYSTEM (DOÑANA, SW SPAIN)
222. Denis, L.; Desroy, N.: CONSEQUENCES OF SPRING PHYTODETRITUS SEDIMENTATION ON THE BENTHIC COMPARTMENT IN THE SANDY SEDIMENTS OF THE EASTERN ENGLISH CHANNEL
223. Müller, J.: PROJECT COSA AT STATE OFFICE FOR THE NATIONAL PARK SCHLESWIG-HOLSTEIN WADDEN SEA
224. Loebel, M.; Beusekom van, J. E.: HOW IS PELAGIC RESPIRATION IN A SHALLOW TIDAL BASIN RELATED TO SEDIMENT DYNAMICS ?
225. Fischer, J.; Wenzhoefer, F.; Glud, R. N.: DISTRIBUTION AND QUANTIFICATION OF BENTHIC PRIMARY PRODUCTION IN SANDY COASTAL SEDIMENTS
226. Werner, U.; Billerbeck, M.; Polerecky, L.; Franke, U.; De Beer, D.: SPATIAL AND TEMPORAL PATTERNS OF AEROBIC AND ANAEROBIC MINERALIZATION RATES IN AN INTERTIDAL PERMEABLE SANDFLAT (SYLT, GERMANY)
227. Cancellation
228. Lastra, M.; Page, H. M.; Dugan, J. E.; Hubbard, D. M.: PROCESSING OF ALLOCHTHONOUS MACROPHYTE SUBSIDIES BY SANDY BEACH CONSUMERS: ESTIMATES OF FEEDING RATES AND IMPACTS ON FOOD RESOURCES
229. Böer, S.; Boetius, A.; Cook, P.; Huettel, M.; Beusekom van, J.; Hedtkamp, S.: ACTIVITY AND DISTRIBUTION OF BACTERIA IN COASTAL SANDY SEDIMENTS
230. Kotwicki, L.; Huettel, M.; Cook, P.: THE ROLE OF BIOTURBATION AND BIOIRRIGATION IN ENHANCING THE EFFICIENCY OF PERMEABLE SANDS AS ORGANIC MATTER BIOFILTERS
231. Urban-Malinga, B.; Kotwicki, L.; Hedtkamp, S.; van Beusekom, J.; Cook, P.; Weslawski, J. M.; Huettel, M.: FREE-LIVING NEMATODE COMMUNITIES IN SUBLITTORAL SANDS: DIVERSITY AND ENVIRONMENTAL IMPACT
232. Józef Wiktor, J. M.; Agnieszka Tatarek, .: PRELIMINARY RESULTS OF COMPARATIVE STUDY OF MICROPHYTOBENTHIC DIATOMS OF NORTH SEA AND BALTIC SANDY COAST.
233. Grzelak, K.; Urban-Malinga, B.; Kotwicki, L.; Hedtkamp, S.; Armonies, W.: DISTRIBUTION OF MEIOFAUNA IN SANDY SEDIMENTS – A COMPARISON BETWEEN NORTH SEA AND BALTIC LITTORAL ECOSYSTEMS
234. Jankowska, K.; Olanczuk-Neyman, K.; Kaplon, K.; Kotwicki, L.: EVALUATION OF SANITARY QUALITY OF MARINE RECREATIONAL WATER AND SANDY SEDIMENT ON THE BEACH OF HEL PENINSULA, POLAND

SS59: Seamount and Island Oceanography

Chair(s): Rui Miguel A. Caldeira, rui.caldeira@uma.pt

Manfred Kaufmann, mkbiomar@uma.pt

Location: Palacio de Congresos y Exposiciones de Galicia

136. Vilas, J. C.; Espino, M.; Gutierrez, C.; Polo, I.; Mendonça, A.; Aristegui, J.: VARIABILITY IN ORGANIC MATTER DISTRIBUTION AND REMINERALIZATION RATES AROUND TWO ATLANTIC SEAMOUNTS
137. Hasegawa, D.; Yamazaki, H.; Ishimaru, T.; Nagashima, H.; Koike, Y.: APPARENT PHYTOPLANKTON BLOOM DUE TO ISLAND MASS EFFECT
138. Werk, S.; Springer, B. M.; Turnewitsch, R.; Graf, G.: THORIUM-234 PROFILES AT TWO ATLANTIC SEAMOUNT SYSTEMS – RADIOACTIVE DISEQUILIBRIA IN THE MID-WATER COLUMN
139. Sangrà, P.; Hernández-Guerra, A.; Fraile-Nuez, E.: LAGRANGIAN EVOLUTION OF A CYCLONIC EDDY SHED BY GRAN CANARIA ISLAND
140. Machin, E.; Pelegrí, J. L.; Emellanov, M.; White, M.; Bashmachnikov, I.: INVERSE MODELING THE CIRCULATION OVER SEDLO SEAMOUNT (EASTERN NORTH ATLANTIC)
141. Fraga, S.; Riobó, P.; Diogène, J.; Paz, B.; Franco, J. M.: CIGUATERA RELATED BENTHIC DINOFLAGELLATES ASSEMBLAGE OBSERVED IN MACARONESIA (NE ATLANTIC ARCHIPELAGOS)
142. Melo-Moreira, R. M.; Mateus, M.; Caldeira, R. M.; Leitão, P. C.; Coelho, H.; Neves, R.: ISLAND-ENRICHMENT IN AN OLIGOTROPHIC ATLANTIC PROVINCE
143. Rodríguez-Santana, A.; Pelegrí, J. L.; Sangrà, P.; Marrero-Díaz, A.: DIAPYCNAL MIXING INDUCED BY VELOCITY SHEAR IN MESOSCALE EDDIES GENERATED BY THE CANARY ISLANDS

(*) represents Invited presentations

144. Hirch, S.; Koppelmann, R.: ZOOPLANKTON BIOMASS AND METABOLISM AT TWO SEAMOUNTS IN THE EASTERN SUBTROPICAL NORTH PACIFIC
145. Caldeira, R. M.; Kaufmann, M.; von Bröckel, K.; Leitão, P. C.; Coelho, H.; Neves, R.: PRODUCTIVITY IN ASYMMETRIC AND ANCILLARY SEAMOUNTS
146. Morato, T.: SEAMOUNT EFFECTS ON PRIMARY PRODUCTION, FISH AGGREGATION, MARINE MAMMALS AND SEABIRDS
147. Parker, D.; Shirley, T. C.: SEASTARS (ASTEROIDEA) ON GULF OF ALASKA SEAMOUNTS

SS60: Hydrology, Geochemistry and Ecology of Monsoonal Catchments

Chair(s): Robert Wasson, Robert.Wasson@cdu.edu.au

Miles Furnas, mfurnas@aims.gov.au

Location: Palacio de Congresos y Exposiciones de Galicia

235. Furnas, M. J.: WATER, SEDIMENT AND NUTRIENT DELIVERY FROM WET- AND DRY-CATCHMENT MONSOONAL RIVER SYSTEMS OF NORTHERN AUSTRALIA
236. Cancellation
237. Kim, J. S.; Oh, S. Y.; Oh, K. Y.: NUTRIENT BEHAVIOR IN A KOREAN PADDY-FIELD WATERSHED DURING IRRIGATION SEASONS

SS61: Linkage Between Pico, Nano-plankton and Biogeochemical Cycle in the Ocean

Chair(s): Yoshimi Suzuki, seysuzu@ipc.shizuoka.ac.jp

Loic Charpy, lcharpy@com.univ-mrs.fr

Beatriz E. Casareto, casaretobe@aol.com

Location: Palacio de Congresos y Exposiciones de Galicia

25. Hoikkala, L.; Lahtinen, T.; Lignell, R.: SEASONAL DYNAMICS OF DISSOLVED ORGANIC MATTER (DOM) ON A NORTHERN BALTIC SALINITY GRADIENT
26. Suzuki, K.; Saito, H.; Aramaki, T.; Nojiri, Y.; Nishioka, J.; Takeda, S.; Tsuda, A.: COMPARISONS OF PHYTOPLANKTON COMMUNITY STRUCTURE AND NUTRIENTS IN TWO MESOSCALE IRON ENRICHMENT EXPERIMENTS IN THE NW SUBARCTIC PACIFIC
27. Iglesias-Prieto, R.; Enriquez, S.; Méndez, E. R.; Hoegh-Guldberg, O.: ENHANCED ABSORPTION OF SOLAR RADIATION BY SYMBIOTIC DINOFLLAGELLATES: THE ROLE OF MULTIPLE SCATTERING BY CORAL SKELETONS
28. Labiosa, R. G.; Paytan, A.; Monismith, S. G.; Fong, D. A.; Genin, A.; Arrigo, K. R.: LIVING THE FAST LIFE IN A MODEL MARINE ENVIRONMENT: THE GULF OF AQABA, RED SEA

SS67: Aquatic Pilgrimages: Non-Indigenous Species Invasions in Aquatic Ecosystems

Chair(s): Henry Vanderploeg, Henry.Vanderploeg@noaa.gov

Thomas Nalepa, Thomas.Nalepa@noaa.gov

Beatriz Beisner, beisner.beatrix@uqam.ca

Location: Palacio de Congresos y Exposiciones de Galicia

100. Marba, N.; Sintes, T.; Terrados, J.: CLONAL GROWTH OF NON-INDIGENOUS AND AUTOCHTHONOUS CAULERPA SPECIES IN THE MEDITERRANEAN SEA: ASSESSING INVASION DYNAMICS
101. Littles, C. B.; Frazer, T. K.: EFFECTS OF PULSED SALINITY EVENTS ON SUBMERSED AQUATIC PLANTS IN KINGS BAY, FLORIDA, USA
102. De Stasio, B. T.; Pauli, B.; Boeckman, R.; Techlow, A.; Kirk, J. P.: CHANGES IN ZOOPLANKTON COMMUNITIES FOLLOWING INVASION BY ZEBRA MUSSELS: LAKE WINNEBAGO, WI AND GREEN BAY, LAKE MICHIGAN, USA
103. Ghadouani, A.; Barton, D. R.; Guildford, S. J.; Hecky, R. E.; Smith, R. E.: RELATIONSHIPS BETWEEN DREISSENID'S DISTRIBUTION AND THE VERTICAL STRUCTURE OF PHYTOPLANKTON COMMUNITIES IN LAKE ERIE
104. Dailer, M. L.; Smith, J. E.; Smith, C. M.: PHOTOECOLOGICAL STRATEGIES INFLUENCE THE SUCCESS OF THE INVASIVE SEAWEED EUCHEUMA DENTICULATUM ON HAWAIIAN CORAL REEFS

SS69: Ecosystem Dynamics in Pulsing Littoral Zones: Lakes and Rivers

Chair(s): Karl-Otto Rothhaupt, Karl.Rothhaupt@uni-konstanz.de

Matthias Wantzen, wantzen@mpil-ploen.mpg.de

Location: Palacio de Congresos y Exposiciones de Galicia

238. Schmieder, K.; Woithon, A.; Dienst, M.; Heege, T.; Ostendorf, W.: EFFECTS OF HYDROLOGIC VARIATIONS ON THE DYNAMICS OF REED BELTS AND THEIR HABITAT SUITABILITY FOR REED BREEDING BIRDS OF LAKE CONSTANCE, GERMANY
239. Larmola, T.; Juutinen, S.; Alm, J.; Huttunen, J. T.; Morero, M.; Saarnio, S.; Martikainen, P. J.; Silvola, J.: LITTORAL CARBON DIOXIDE AND METHANE DYNAMICS IN BOREAL LAKES
240. Juutinen, S.; Larmola, T.; Alm, J.; Huttunen, J. T.; Saarnio, S.; Martikainen, P. J.; Silvola, J.: ROLE OF LAKES AND THEIR LITTORAL ZONE IN LANDSCAPE CO₂ AND CH₄ DYNAMICS, A MID BOREAL EXAMPLE

SS76: The Microbial World as an Effective Model System in Ecology

Chair(s): Thierry Bouvier, tbouvier@univ-montp2.fr

Thomas Pommier, thomas.pommier@hik.se

Location: Palacio de Congresos y Exposiciones de Galicia

29. Langenheder, S.; Lindström, E. S.; Tranvik, L. J.: HOW DO BACTERIAL COMMUNITIES ASSEMBLE? ENVIRONMENT VERSUS HISTORY
30. Felip, M.; Catalan, J.: RATE OF CHANGE IN LAKE MICROPLANKTON ASSEMBLAGES: EXTERNAL VS WITHIN-LAKE DRIVERS
31. Bertilsson, S.; Olsson, J. A.; Gustafsson, E.; Eiler, A.: SINGLE OR MULTI-SUBSTRATE UTILIZATION IN HETEROTROPHIC BACTERIA: ROLE OF SPECIALIST AND GENERALIST STRATEGIES
32. Becker, S.; Walsby, A. E.: IN SITU EFFECTS OF IRRADIANCE AND TEMPERATURE ON THE TRANSCRIPTION OF GAS VESICLE GENES IN PLANKTONIC CYANOBACTERIA (PLANKTOTHRIX SPP)
33. Hullar, M. A.; Kaplan, L. A.; Stahl, D. A.: LINKS BETWEEN BIOME SPECIFIC CHARACTERISTICS AND MICROBIAL COMMUNITY STRUCTURE IN STREAMS

SS81: Single-cell Analyses in Aquatic Microbes: Patterns, Controls, and Linkages Between Biogeochemical Function and Microbial Diversity

Chair(s): Josep M. Gasol, pepgasol@icm.csic.es

Barry F. Sherr, sherrb@coas.oregonstate.edu

Gerhard J. Herndl, herndl@nioz.nl

Location: Palacio de Congresos y Exposiciones de Galicia

34. Conty, A.; Bécares, E.: BACTERIAL DIVERSITY IN SHALLOW MEDITERRANEAN LAKES ALONG AN EUTROPHICATION GRADIENT
35. Salcher, M. M.; Hofer, J.; Sonntag, B.; Simek, K.; Jezbera, J.; Vrba, J.; Mindl, B.; Sattler, B.; Hornak, K.; Posch, T.: MANIPULATION OF PROTISTAN GRAZING PRESSURE AND PHOSPHORUS SUPPLY TO ELUCIDATE THE COMPETITIVE ABILITIES OF EUBACTERIAL SUBGROUPS IN A MESOTROPHIC LAKE
36. Besemer, K.; Hochedlinger, G.; Singer, G. A.; Chlup, A. K.; Battin, T. J.: EFFECT OF FLOW ON COMMUNITY COMPOSITION AND SUBSTRATE UPTAKE OF STREAM BIOFILMS
37. Balague, V.; Alonso-Sáez, L.; Gasol, J. M.; Pedrós-Alió, C.; Massana, R.: SEASONAL CHANGES IN BACTERIAL DIVERSITY IN A MEDITERRANEAN COASTAL SITE STUDIED WITH 16S RDNA CLONE LIBRARIES
38. Tada, Y.; Hamasaki, K.: MAJOR PHYLOGENETIC GROUPS OF ACTIVELY GROWING BACTERIA IN COASTAL WATERS, DETERMINED BY BRDU IMMUNOCYTOCHEMISTRY-FISH
39. Fuchs, B. M.; Woebken, D.; Zubkov, M. V.; Burkil, P.; Amann, R.: MOLECULAR IDENTIFICATION OF PICOPANKTON POPULATIONS IN CONTRASTING WATERS OF THE ARABIAN SEA
40. Jiménez, E.; Ribes, M.; Massana, R.; Balagué, V.: THE ASSOCIATION BETWEEN NITRIFYING BACTERIA AND SPONGES IN TEMPERATE MEDITERRANEAN SPONGES
41. van den Engh, G.; Orellana, M.; Petersen, T.; Armbrust, G.: GENOME AMPLIFICATION OF SINGLE CELLS AFTER COLLECTION BY ELECTRONIC CELL SORTING

(^c) represents Tutorial presentations

42. Heldal, M.; Norland, S.; Erichsen, E. S.; Bratbak, G.; Sandaa, R. A.; Larsen, A.; Thingstad, F.: MG2+ PLAYS AN IMPORTANT ROLE IN MARINE BACTERIA
43. Jiménez-Gómez, F.; Galotti, A.; Zabala, L.; Bautista, B.: SHORT PERIOD CHANGES IN OPTICAL PROPERTIES OF ANTARCTIC PICOPLANKTON
44. Zwirgmaier, K.; Fuller, N. J.; Scanlan, D. J.: MOLECULAR ECOLOGY AND PHYSIOLOGICAL DIVERSITY OF MARINE SYNECHOCOCCUS
45. Gribble, K. E.; Anderson, D. M.: PSEUDOGENES OF THE LSU RDNA IN PROTOPERIDINIUM SPP. (DINOPHYCEAE)
46. Falconi, T.; Papa, S.; Gasol, J. M.: ACTIVE OR INACTIVE? TESTING THE FLOW CYTOMETRIC DOUBLE STAINING PROTOCOL IN REALISTIC PLANKTONIC BACTERIAL DEATH.
47. Rodríguez-Galvez, S.; Corzo, A.; Lubian, L. M.; Sangra, P.: ECOLOGICAL CHARACTERISTICS OF TWO ANTARCTIC BACTERIOPANKTON SUBPOPULATIONS DISCRIMINATED BY FLOW CYTOMETRY
48. Montonen, L.; Jurgens, G.; Munster, U.: METHANOTROPHS IN THE ANOXIC SEDIMENT OF A SMALL BOREAL LAKE
49. Bouvier, C.; Got, P.; Bouvier, T.; Troussellier, M.: IMPROVEMENT OF THE DILUTION EXTINCTION METHOD TO DETECT SINGLE BACTERIAL GROWING CELLS
50. Troussellier, M.; Bouvier, T.; Bouvier, C.; Got, P.: SINGLE CELL VERSUS BULK APPROACH TO ASSESS BACTERIAL GROWTH LIMITATION
51. GOT, P.; CARO, A.; GROS, O.: MONITORING THE POPULATION OF A SULFIDE-OXIDIZING ENDOSYMBIOTIC BACTERIA IN THE BIVALVE CODAKIA ORBICULARIS BY STABILATION EXPERIMENTS
52. Nguyen, B. V.; Litchman, E.: SINGLE-CELL ALKALINE PHOSPHATASE EXPRESSION DYNAMICS IN FRESHWATER PHYTOPLANKTON
53. Dubelaar, G. B.; Gerritzen, P. L.: DEVELOPMENTS IN FLOW CYTOMETRY HARD- AND SOFTWARE FOR THE MONITORING OF PHYTOPLANKTON VARIABILITY.

SS82: Benthic Biofilms in Freshwater and Marine Systems

Chair(s): Anna M. Romani, anna.romani@udg.es

Helene Cyr, helene@zoo.utoronto.ca

Graham Underwood, gju@essex.ac.uk

Location: Palacio de Congresos y Exposiciones de Galicia

241. Tornés, E.; Serra, A.; Guasch, H.; Sabater, S.: MICROHABITAT DIFFERENCES AFFECT THE STRUCTURE OF DIATOM COMMUNITIES IN MEDITERRANEAN STREAMS
242. Artigas, J.; Gaudes, A.; Muñoz, I.; Romani, A. M.; Sabater, S.: BENTHIC STRUCTURE AND METABOLISM IN A MEDITERRANEAN STREAM: FROM THE BIOFILM ACTIVITIES TO THE WHOLE STREAM ECOSYSTEM FUNCTION
243. Congestri, R.; Di Pippo, F.; Paradossi, G.; De Philippis, R.; Albertano, P.: PHOTOTROPHIC COMPOSITION, SPATIAL STRUCTURE, AND EXOPOLYSACCHARIDES OF BIOFILMS COLONIZING AN ITALIAN WWTP
244. Cruz, S.; Vieira, S.; Coelho, H.; Brotas, V.; Serodio, J.: NONPHOTOCHEMICAL QUENCHING OF CHLOROPHYLL FLUORESCENCE AND OPERATION OF THE XANTHOPHYLL CYCLE IN ESTUARINE MICROPHYTOBENTHOS
245. Vieira, S.; Cruz, S.; Coelho, H.; Serodio, J.: PHOTOSYNTHETIC ACTIVITY OF MICROPHYTOBENTHOS MEASURED IN SITU USING CHLOROPHYLL FLUORESCENCE RAPID LIGHT CURVES
246. Coelho, H.; Vieira, S.; Cruz, S.; Serodio, J.: CHARACTERIZATION OF THE MIGRATORY LIGHT RESPONSE OF MICROPHYTOBENTHOS USING BIOMASS VS. LIGHT CURVES
247. García-Robledo, E.; Van Bergijk, S. A.; Corzo, A.; García de Lomas, J.: MEASUREMENTS OF PHOTOSYNTHESIS IN MICROBENTHIC COMMUNITIES ON INTERTIDAL SEDIMENTS
248. Cancellation
249. McLachlan, D.; Brownlee, C.; Taylor, A. R.; Geider, R. J.; Underwood, G. J.: THE EFFECTS OF LIGHT ON BENTHIC DIATOM MOTILITY
250. EVERS, S.; WALDRON, S.; MURPHY, K.; PENNY, J.; TERTVET, D.: AN ISOTOPIC AND STOICHIOMETRIC APPROACH TO CHARACTERISING CARBON SOURCE IN STREAM BIOFILMS
251. Hoedl, I. A.; Singer, G. A.; Besemer, K.; Chlup, A. K.; Hochedlinger, G.; Battin, T. J.: BENTHIC BIOFILMS AS HABITAT FOR MEIOFAUNA IN STREAM ECOSYSTEMS
252. Jesus, B. M.; Ribeiro, L.; Mendes, C. R.; Brotas, V.: CHARACTERIZATION OF MICROPHYTOBENTHOS SPATIO-TEMPORAL VARIATION ON THE TAGUS ESTUARY, PORTUGAL: BIODIVERSITY AND PHOTOPHYSIOLOGICAL MECHANISMS.
253. Guarini, J. M.; Ni Longphuirt, S.; Leynaert, A.; Chauvaud, L.: MODELLING THE DYNAMICS OF THE MICROPHYTOBENTHOS IN A WIDE RANGE OF INTERTIDAL AND SUBTIDAL LITTORAL HABITATS
254. Garabetian, E.: IS NITROGEN SELF-PURIFICATION A CLIMAX FOR EPILITHIC BIOFILMS?

SS83: Spatial Processes in Marine and Freshwater Ecosystems

Chair(s): E. Agnes E. Blukacz, ablukacz@utm.utoronto.ca

W. Gary W. Sprules, gsprules@utm.utoronto.ca

Andre W. Visser, awv@dfu.min.dk

Location: Palacio de Congresos y Exposiciones de Galicia

148. Rennie, S. J.; McCauley, R. D.; Pattiaratchi, C.: THE PERTH SUBMARINE CANYON AS A FEEDING AREA FOR BLUE WHALES: REASONS LINKED TO PHYSICAL OCEANOGRAPHY
149. Cancellation
150. Zarauz, L.; Irigoien, X.; Gonzalez, M.; Martinez, E.; Arstegieta, A.: ABUNDANCE AND DISTRIBUTION OF MICROPLANKTON AND MESOZOOPLANKTON IN THE BAY OF BISCAY USING IMAGE ANALYSIS BASED TECHNIQUES
151. Brown, C. W.; Schollaert, S.: OPEN OCEAN TRANSITION ZONE: ITS SPATIAL AND TEMPORAL VARIABILITY IN THE NORTH ATLANTIC AND NORTH PACIFIC
152. Garcia, V.; Gómez, R. M.; Vidal-Abarca, M. R.; Suárez, M. L.: INFLUENCE OF HYDROLOGIC PROCESSES ON SPATIAL PATTERNS OF NITROGEN IN AN ARID STREAM OF SOUTHEAST SPAIN
153. Ston-Egert, J.; Kosakowska, A.: PHYTOPLANKTON PIGMENTS DISTRIBUTION IN THE BALTIC SEA DURING FIVE YEARS OF INVESTIGATION (1999 – 2003)
154. Campbell, R. W.; Dower, J. F.: THE UPS AND DOWNS OF A COPEPOD: VERTICAL DISTRIBUTIONS OF NEOCALANUS PLUMCHRUS IN THE STRAIT OF GEORGIA
155. Kim, O. S.; Corredor, P.; Witzel, K. P.: STUDY OF DENITRIFYING BACTERIA IN LAKES AND SEA BY T-RFLP ANALYSIS OF THE NITRITE REDUCTASE GENES NIRK AND NIRS
156. Hickman, A. E.; Moore, C. M.; Lucas, M. I.: PHOTOPHYSIOLOGY OF PHYTOPLANKTON IN THE SUBSURFACE CHLOROPHYLL MAXIMUM
157. Corredor, P.; Olsen, K.; Hadas, O.; Witzel, K. P.: COMPOSITION OF CYANOBACTERIA AND NITROGEN FIXERS IN A DEPTH PROFILE IN LAKE KINNERET (ISRAEL)
158. Tweddle, J. E.; Sharples, J.; Holligan, P. M.: NUTRIENT FLUXES AND PRIMARY PRODUCTION AT THE CELTIC SEA SHELF EDGE
159. Van de Bogert, M. C.; Carpenter, S. R.; Cole, J. J.; Pace, M. L.: SPATIAL PATTERNS OF LAKE METABOLISM: PARTITIONING WHOLE-LAKE ESTIMATES INTO BENTHIC AND PELAGIC COMPONENTS
160. Tanaka, L. L.; Ban, S.; Kumagai, M.: EVIDENCE OF LATERAL TRANSPORT OF NUTRIENTS BY INTERNAL WAVES IN LAKE BIWA, JAPAN
161. McCallum, S. S.; Ghadouani, A.; Ivey, G. N.; Pinel-Alloul, B.: THE ROLE OF PARTICLE SIZE IN GENERATING PLANKTON PATCHINESS

SS86: Brown Trout From the Old World to the New World: Modification and Homogenization of Freshwater Ecosystems Around the Globe

Chair(s): Francis Juanes, juanes@forwild.umass.edu

Doris Soto, dsoto@uach.cl

Location: Palacio de Congresos y Exposiciones de Galicia

105. Kulišková, P.; Sychrová, O.; Petrušek, A.; Svátora, M.: WHERE BROWN TROUT IS AT HOME AND BROOK CHARR ALIEN: UTILIZATION OF FOOD SUPPLY AT THREE LOCALITIES WITH MIXED AND ISOLATED POPULATIONS OF TWO SALMONID SPECIES

SS87: The Biogeochemistry of the Tropical Atlantic Ocean

Chair(s): Ajit Subramaniam, ajit@ideo.columbia.edu

Douglas Capone, capone@usc.edu

Douglas Wallace, dwallace@ifm-geomar.de

Location: Palacio de Congresos y Exposiciones de Galicia

162. Baker, A. R.; Linge, K. L.: THE SOLUBILITY OF AEROSOL IRON AND PHOSPHORUS ACROSS THE TROPICAL ATLANTIC OCEAN
163. Milne, A.; Achterberg, E.; Taylor, A.; Ussher, S.; Mills, M.; Moore, M.; Baker, A.; Gieule, C.; Worsfold, P.: DISSOLUTION OF IRON FROM DUSTS IN NORTH ATLANTIC SURFACE WATER
164. Quack, B.; Peeken, I.; Lochte, K.; Hoffmann, L.: POSSIBLE BIOLOGICAL SOURCES OF ORGANIC TRACE GASES IN THE TROPICAL ATLANTIC
165. Mannino, A.: SOURCES, DISTRIBUTIONS AND LABILITY OF DISSOLVED ORGANIC MATTER IN THE TROPICAL NORTH ATLANTIC OCEAN
166. Marole, C. L.; Shipe, R. F.; Carpenter, E. J.; Capone, D. G.; Sanudo-Wilhelmy, S. A.: EFFECT OF ATMOSPHERIC DUST ON PHYTOPLANKTON SPECIES COMPOSITION IN THE WESTERN TROPICAL ATLANTIC OCEAN

(* represents Invited presentations)

167. C. da Cunha, L.; Le Quéré, C.; Buitenhuis, E. T.: RIVERINE INFLUENCE ON THE TROPICAL ATLANTIC OCEAN BIOGEOCHEMISTRY
168. Del Vecchio, R.; Subramaniam, A.: INFLUENCE OF THE AMAZON RIVER ON THE SURFACE OPTICAL PROPERTIES OF THE WESTERN TROPICAL NORTH ATLANTIC OCEAN
169. Wallace, D. W.; Heimann, M.; Melicio, O.; Pimenta, J.: AN ATMOSPHERE AND OCEAN OBSERVATORY IN CAPE VERDE.

SS88: Reservoirs: Limnology in the Making

Chair(s): Fabio Roland, fabio.roland@uff.edu.br

Joan Armengol, jarmengol@ub.edu

Location: Palacio de Congresos y Exposiciones de Galicia

255. Colomer, J.; Serra, T.; Vidal, J.; Casamitjana, X.; Soler, M.: PHYTOPLANKTON DISTRIBUTION IN A STRATIFIED LAKE AS A RESULT OF HORIZONTAL ADVECTION AND CONVECTIVE VERTICAL MIXING
256. Benejam, L.; Carol, J.; Alcaraz, C.; Navarro, E.; Caputo, L.; Armengol, J.; Garcia-Berthou, E.: THE EFFECTS OF LIMNOLOGICAL FEATURES ON FISH ASSEMBLAGES OF FOURTEEN SPANISH RESERVOIRS
257. Ruiz-Verdú, A.; Domínguez, J. A.; Simis, S. G.; Gons, H. J.; Peña-Martínez, R.: REMOTE SENSING OF PHYTOPLANKTON IN AN EUTROPHIC RESERVOIR

258. Caputo, L.; Ordoñez, J.; Leira, M.; Armengol, J.: COMMUNITY STRUCTURE ON PHYTOPLANKTON ALONG A TROPIC LONGITUDINAL GRADIENT IN CATALAN RESERVOIRS (CATALONIA, NE SPAIN)
259. Branco, C. C.; Guarino, A. S.; Rocha, R.; Suzuki, B. K.: PHYSICAL AND CHEMICAL TEMPORAL FLUCTUATIONS IN A MESOTROPHIC TROPICAL RESERVOIR INDUCED BY SEASONAL CLIMATIC CHANGES
260. Tremblay, A.; Roehm, C. L.; Dumontier, J.; Gagnon, M. A.: DEGASSING OF CO₂ FROM TURBINES: WHAT IS THE ROLE IN NET EMISSIONS FROM HYDROELECTRIC RESERVOIRS IN QUEBEC?

SS89: Global Limnology

Chair(s): Yves Prairie, prairie.yves@uqam.ca

Jonathan Cole, cole@ecostudies.org

Location: Palacio de Congresos y Exposiciones de Galicia

261. Galotti, A.; Jiménez-Gómez, F.; Guerrero, F.: ECOLOGICAL CHARACTERIZATION OF SOLAR SALTERNS IN THE ALTO GUADALQUIVIR BASIN, SPAIN.
262. Abriil, G.; Maro, D.; Fontugne, M.; Moatar, F.; Etcheber, H.; Meybeck, M.: LATERAL VERSUS VERTICAL CARBON FLUXES ALONG RIVER-ESTUARY CONTINUA: THE CASE OF THE EUTROPHIC LOIRE RIVER (FRANCE)

Wednesday, 22 June 2005

RS02: Phytoplankton

Chair(s): Brandon Sackmann, brandon.sackmann@maine.edu

Location: Puerto del Camino Hotel II, Breakout #11

- 17:30 Dürselen, C. D.; Raabe, T.; Wiltshire, K. H.: ESTIMATION OF PHYTOPLANKTON CARBON BIOMASS - A COMPARISON OF USED METHODS
- 17:45 Buchaca, T.; Felip, M.; Catalan, J.: A COMPARISON OF HPLC PIGMENT ANALYSES AND BIOVOLUME ESTIMATES OF PHYTOPLANKTON GROUPS IN AN OLIGOTROPHIC LAKE
- 18:00 Berger, S. A.; Peeken, I.: PHYTOPLANKTON TAXONOMIC COMPOSITION AS RELATED TO NUTRIENTS, ZOOPLANKTON, AND MIXING DEPTH: A COMPARATIVE LAKE STUDY
- 18:15 Descy, J. P.; Higgins, H. H.; Sarmento, H.: VARIATION OF PIGMENT RATIOS OF PHYTOPLANKTON ACROSS AQUATIC ENVIRONMENTS
- 18:30 Schraga, T. S.; Cloern, J. E.; Lucas, L. V.; Lopez, C. B.: FAST BIOLOGY: SPATIAL VARIABILITY OF DIEL PHYTOPLANKTON BIOMASS PATTERNS IN THE SACRAMENTO-SAN JOAQUIN DELTA (CALIFORNIA, USA)
- 18:45 Kaibinger, C.; Teubner, K.; Dokullil, M. T.: VERTICAL NICHE SEPARATION OF PHYTOPLANKTON ASSEMBLAGES IN DEEP ALPINE LAKES: OPTICAL PROPERTIES, LIGHT ACCLIMATION AND PHOTOSYNTHETIC RESPONSE.
- 19:00 Sackmann, B. S.; Perry, M. J.; Eriksen, C. C.: 4-D PHYTOPLANKTON DISTRIBUTIONS OFF THE WASHINGTON COAST, USA: MERGING SATELLITE OCEAN COLOR WITH IN SITU OPTICAL MEASUREMENTS FROM AN AUTONOMOUS GLIDER

SS02: Ecology of Gelatinous Zooplankton

Chair(s): Francesc Pages, fpages@cmima.csic.es

Jennifer E. Purcell, purcellj@cc.wvu.edu

Location: Puerto del Camino Hotel II, Breakout #11

- 12:15 West, E. J.; Pitt, K. A.; Welsh, D.: A COMPARISON OF THE ROLE OF SYMBIOTIC AND NON-SYMBIOTIC JELLYFISH IN THE NUTRIENT CYCLING OF COASTAL LAKES IN NEW SOUTH WALES, AUSTRALIA
- 12:30 Gifford, D. J.; Sullivan, L. J.; Blackwelder, C.; Costello, J. H.; Schilling, P.: GRAZING BY SMALL HDROMEDUSAE: DIET OF RATHKEA OCTOPUNCTATA AND IMPACT ON THE SPRING BLOOM IN A TEMPERATE COASTAL EMBAYMENT
- 12:45 Purcell, J. E.: EFFECTS OF LIGHT ON STROBILATION BY POLYPS OF THE SCYPHOMEDUSAN AURELIA LABIATA
- 13:00 Graham, W. M.; Higgins III, J. E.; Martin, J. C.; Rakow, K. C.: BENEATH THE SURFACE: VERTICAL STRUCTURE OF GELATINOUS ZOOPLANKTON AGGREGATIONS IN SHALLOW COASTAL WATERS
- 13:15 Breitburg, D. L.; Burrell, R. B.: OPPOSING WAVES OF MEDUSA AND CTENOPHORE SPREAD AND TROPHIC CONTROL ACROSS AN ESTUARINE LANDSCAPE

SS07: Applied Ecosystem-level Research to Reverse Coral Reef Degradation

Chair(s): Michael J. Dowgiallo, michael.dowgiallo@noaa.gov

Felix A. Martinez, felix.martinez@noaa.gov

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 12:15 Cancellation
- 12:30 Wolanski, E. J.; Richmond, R. H.: FIELD AND MODEL STUDIES OF THE COMBINED IMPACT OF LAND USE AND GLOBAL WARMING ON THE HEALTH OF CORAL REEFS*
- 12:45 Cancellation
- 13:00 Richards, V. P.; Thomas, J. D.; Shivji, M. S.: REPRODUCTIVE DISPERSAL STRATEGY AND GENETIC CONNECTIVITY IN COMMENSAL, SPONGE-DWELLING, CORAL REEF INVERTEBRATES
- 13:15 Cancellation
- 15:15 Armstrong, R. A.; Singh, H.: MAPPING THE PRISTINE CORAL REEFS OF THE DEEPER PUERTO RICO-VIRGIN ISLAND INSULAR PLATFORM AND SLOPE USING AN AUTONOMOUS UNDERWATER VEHICLE
- 15:30 Otero, E.; Pagan, F.; Appeldoorn, R.: AUTOMATED AND DISCRETE WATER QUALITY, PHYTOPLANKTON BIOMASS AND MICROBIAL PARAMETERS MONITORING IN CORAL REEFS HABITATS OF LA PARGUERA, PUERTO RICO
- 15:45 Palandro, D.; Hu, C.; Hallock, P.; Muller-Karger, F. E.: WATER CLARITY DERIVED FROM LANDSAT FOR THE FLORIDA KEYS (1984-2002): IMPLICATIONS FOR CORAL REEF COMMUNITIES

- 16:00 Cancellation
- 16:15 Hilbun, N. L.; Bianchi, T. S.; Aronson, R. B.: AGRICULTURAL DEVELOPMENT, STORM EVENTS, AND SPECIES TURNOVER ON LAGOONAL REEFS IN PANAMA
- 16:30 Pantos, O.; Kline, D.; Kuntz, N.; Knowlton, N.; Rohwer, F.: DISSOLVED ORGANIC CARBON (DOC) AND ITS INFLUENCE ON REEF HEALTH: A NEW INDICATOR OF REEF HEALTH
- 16:45 Wynne, D.; Parparov, A.; Parparova, R.: THE METABOLIC EFFECTS OF PESTICIDES ON THE LAKE KINNERET (ISRAEL) PLANKTONIC COMMUNITY

SS11: Biodiversity, Biogeochemistry and Trophic Interactions: The Braid of Pelagic Microbial Ecology

Chair(s): Farooq Azam, fazam@ucsd.edu

Fereidoun Rassoulzadegan, rassoul@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 12:15 Thingstad, T. F.: SYSTEM PROPERTIES EMERGING FROM ORGANISM LIFE STRATEGIES IN IDEALIZED FOOD WEB MODELS-
- 12:45 Anderson, M. R.; Rivkin, R. B.; Deibel, D.; Thompson, R. J.; Whalen, R. R.; Bussey, H.; Matthews, P. L.; Edwards, T. J.; Ryan, J.; Stacey, J.: ECOSYSTEM RESPONSE TO MUSSEL CULTURE IN NEWFOUNDLAND COASTAL WATERS - THE BRAIDED INFLUENCE OF BIOLOGY, PHYSICS AND CHEMISTRY
- 13:00 Kolzur, S.; Dürselen, C. D.; Ebenhöf, W.; Raabe, T.; Brockman, U.: ANALYSING TWO MESOCOSM EXPERIMENTS USING AN ERSEM-BASED PELAGIC ECOSYSTEM MODEL (PEM)
- 13:15 Miki, T.; Yamamura, N.: INTRAGUILD PREDATION REDUCES BACTERIAL DIVERSITY AND LOOSENS THE VIRAL LOOP IN AQUATIC SYSTEMS: "KILL THE KILLER OF THE WINNER" HYPOTHESIS
- 13:30 Pitta, P.; on behalf of the CYCLOPS group, .: RESPONSE OF THE MICROBIAL FOOD WEB TO P-ADDITION DURING A LAGRANGIAN EXPERIMENT IN THE EASTERN MEDITERRANEAN
- 15:15 Psarra, S.; on behalf of the CYCLOPS team, .: ADDING THE LIMITING NUTRIENT CAUSES A REDUCTION IN CHL-A AND PHYTOPLANKTON ACTIVITY: RESULTS FROM THE FIRST NON-FE ADDITION EXPERIMENT IN THE E. MEDITERRANEAN
- 15:30 Renaud, F.; Pringault, O.; Rochelle-Newall, E. J.: EFFECTS OF THE COLONIAL CYANOBACTERIUM, TRICHODESMIUM ON BACTERIAL ACTIVITY
- 15:45 Cancellation
- 16:00 Zohary, T.: P-LIMITED BACTERIA BUT N&P CO-LIMITED PHYTOPLANKTON IN THE EASTERN MEDITERRANEAN - A MICROCOSM EXPERIMENT
- 16:15 Azam, F.: MICROBIAL BIOLOGY AT THE NANOMETER TO MILLIMETER SCALE AS BASIS FOR UNDERSTANDING THE OCEAN BASIN SCALE BIOGEOCHEMISTRY-
- 16:45 Andersson, A.; Muren, U.; Berglund, J.; Haecky, P.: EFFECT OF INCREASING FOOD WEB COMPLEXITY AND NUTRIENT ENRICHMENT ON A MARINE BACTERIAL COMMUNITY
- 17:00 Roldán, C.; Berdalet, E.; Marrasé, C.; Sabata, A.; Vidal, M.; Guadayol, O.; Peters, F.: RNA/DNA AND PROTEIN/DNA RATIOS: EVALUATION OF THE PHYSIOLOGICAL STATE OF PLANKTON COMMUNITIES UNDER DIFFERENT TURBULENCE AND NUTRIENT CONDITIONS
- 17:30 Henjes, J.; Assmy, P.; Klaas, C.; Smetacek, V.: IMPACT OF COPEPOD GRAZING ON DEVELOPMENTAL DYNAMICS OF AN IRON-INDUCED DIATOM BLOOM (EISENEX)
- 17:45 Hoppe Hans-Georg, H.; Gocke Klaus, K.; Koppe Regine, R.: BACTERIOPLANKTON GROWTH CHARACTERISTICS ON THE LARGE SPATIAL SCALE: OLIGOTROPHIC VERSUS EUTROPHIC OCEAN
- 18:00 Malfatti, E.; Manganelli, M.; Azam, F.: BACTERIAL RESPONSE TO IRON AND CARBON ENRICHMENT AND TEMPERATURE SHIFT IN THE DRAKE PASSAGE, ANTARCTICA AND POSSIBLE SIGNIFICANCE OF MICROSCALE PROCESSES
- 18:15 Moeseneder, M. M.; Arrieta, J. M.; Herndl, G. J.: A COMPARISON OF DNA- AND RNA-BASED CLONE LIBRARIES FROM THE SAME MARINE BACTERIOPLANKTON COMMUNITY
- 18:30 Smetacek, V.; Assmy, P.; Henjes, J.; Klaas, C.: WHAT DO BLOOM-FORMING DIATOM SPECIES HAVE THAT OTHER PHYTOPLANKTON DO NOT?
- 18:45 Straza, T. R.; Keil, R. G.: BACTERIAL ACTIVITY AND DIVERSITY OFF THE COAST OF VANCOUVER ISLAND, BRITISH COLUMBIA, ESTIMATED USING 5-BROMO-2'-DEOXYURIDINE (BRD-U)
- 19:00 Zoellner, E.; Hoppe, H. G.; Sommer, U.; Juergens, K.: ZOOPLANKTON-MEDIATED TROPHIC CASCADES AFFECT MICROBIAL FOOD WEB STRUCTURE AND BACTERIAL DIVERSITY
- 19:15 Assmy, P.; Henjes, J.; Klaas, C.; Smetacek, V.: SPECIES-SPECIFIC GROWTH PERFORMANCE AND GRAZING MORTALITY OF THE DIATOM ASSEMBLAGE DURING AN IN SITU IRON-INDUCED BLOOM IN THE SOUTHERN OCEAN (EISENEX)

(*) represents Invited presentations

SS16: Environmental Effects on Reproduction of Marine Invertebrates

Chair(s): Catharina J. M. Philippart, katja@nioz.nl

Peter M. J. Herman, P.Herman@nioo.knaw.nl

Steve J. Hawkins, sjha@miba.ac.uk

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 15:15 Leslie, H.: POSITIVE EFFECTS TRUMP NEGATIVE EFFECTS IN HIGH-DENSITY BARNACLE AGGREGATIONS-
- 15:45 Jarrett, J. N.; Blair, C.; Koganemaru, R.: A COMPARISON OF GROWTH, SURVIVAL, AND REPRODUCTION OF THE BARNACLE *CHTHAMALUS FISSUS* FROM SITES IN SOUTHERN CALIFORNIA AND NORTHERN BAJA CALIFORNIA.
- 16:00 Kaiser, M. J.; Blyth-Skyrme, R. E.; Hart, P. J.; Edwards-Jones, G.: CHRONIC FISHING DISTURBANCE DECREASES INDIVIDUAL REPRODUCTIVE POTENTIAL
- 16:15 Macho, G.; Molares, J.; Vázquez, E.: TIMING OF LARVAL RELEASE BY THREE BARNACLES FROM THE NW IBERIAN PENINSULA
- 16:30 Pineda, J.; DiBacco, C.; Starczak, V.: BARNACLE LARVAE IN ICE: SURVIVAL, MATAMORPHOSIS AND REPRODUCTION*
- 16:45 Philippart, C. J.; Bos, O. G.; Gontikaki, E.; Kooijman, S. A.: THE ROLE OF PHENOTYPIC PLASTICITY OF FEEDING ORGANS IN THE EARLY-LIFE SURVIVAL OF MARINE BENTHIC INVERTEBRATES
- 17:30 Guizien, K.; Marsaleix, P.; Duchêne, J. C.; Koh, B. S.: NUMERICAL SIMULATIONS OF THE INTERRANNUAL VARIABILITY OF *OWENIA FUSIFORMIS* LARVAL DISPERSAL ALONG THE CATALAN COAST
- 17:45 Almeida, M. M.; Dubert, J.; Queiroga, H.; Peliz, A.: RETENTION OF CRAB LARVAE IN SHELF WATERS OF UPWELLING SYSTEMS: THE ROLE OF VERTICAL MIGRATION
- 18:00 Thiébaud, E.; Guyard, P. H.; Ellien, C.; Jolly, M. T.; Jollivet, D.: INFLUENCE OF CLIMATIC CHANGES ON LARVAL DISPERSAL AND DYNAMICS OF A BENTHIC MARINE METAPOPULATION IN THE ENGLISH CHANNEL
- 18:15 Cunha, A. H.; Santos, R. O.: EFFECTS OF SEAGRASS FRAGMENTATION ON THE ABUNDANCE OF NEWLY SETTLED BIVALVES
- 18:30 Charles, F.; Grémare, A.; Guizien, K.: THE INFLUENCE OF SEDIMENT RESUSPENSION ON POPULATION DYNAMICS OF BENTHIC INVERTEBRATES FROM THE BAY OF BANYULS-SUR-MER, MEDITERRANEAN SEA, FRANCE
- 18:45 Queiroga, H.; Almeida, M. J.; Flores, A.; Francisco, S.; Gonzalez Gordillo, J. I.; Miranda, A. I.; Silva, I.; Paula, J.: TIDE AND WIND CONTROL OF MEGALOPAL SUPPLY TO ESTUARINE CRAB POPULATIONS ON THE PORTUGUESE WEST COAST
- 19:00 Schupp, P. J.; McCormick, M.; Takase, C.: NATURAL AND ANTHROPOGENIC FACTORS MEDIATING SETTLEMENT OF LEPTASTREA PURPUREA (SCLERACTINIAN CORAL) PLANULAE
- 19:15 Smith, L. D.; Gilmour, J. P.; Heyward, A. H.: LONG-TERM RECRUITMENT FAILURE OF REEF-BUILDING CORALS FOLLOWING A THERMALLY-INDUCED BLEACHING EVENT AT AN ISOLATED REEF SYSTEM

SS22: Polar Shelf-basin Exchange: Physical Forcing, Biogeochemical Fluxes and Food Web Dynamics

Chair(s): Jackie Grebmeier, jgrebmei@utk.edu

Louis Fortier, louis.fortier@bio.ulaval.ca

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 12:15 Lizotte, M. P.; Gosselin, M.: EXTRACELLULAR CARBON PRODUCTION IN ARCTIC SEA ICE DIATOM BLOOMS
- 12:30 Hill, V. J.; Cota, G. F.: HIGH PRODUCTIVITY IN THE WESTERN ARCTIC – A STUDY OF THE CHUKCHI SHELF.
- 12:45 Selph, K. E.; Apprill, A.; Measures, C. I.; Brown, M. T.: PHYTOPLANKTON DISTRIBUTIONS IN THE SHACKLETON FRACTION ZONE /ELEPHANT ISLAND REGION OF THE DRAKE PASSAGE IN FEBRUARY-MARCH 2004
- 13:00 Auel, H.; Werner, I.: THE ROLE OF ZOOPLANKTON IN ARCTIC FOOD WEBS & CRYO-PELAGIC COUPLING PROCESSES & ITS IMPACT ON THE CARBON FLUX: EXPERIMENTAL FIELD STUDIES & TROPHIC BIOMARKERS
- 13:15 Berreville, F. O.; VEZINA, A. F.: INVERSE MODELLING OF THE PLANKTONIC FOOD WEB OF AN ARCTIC POLYNYA
- 13:30 Daase, M.; Eliane, K.; Falk-Petersen, S.; Bagøien, E.: INFLUENCE OF Mid-WATER HYDROLOGY ON ARCTIC ZOOPLANKTON COMMUNITY STRUCTURE
- 15:15 Sherr, E. B.; Sherr, B. F.; Hartz, A. J.: MICROZOOPLANKTON HERBIVORY IN THE WESTERN ARCTIC OCEAN
- 15:30 Campbell, R. G.; Sherr, E. B.; Sherr, B. F.; Ashjian, C. J.; Plourde, S.: MESOZOOPLANKTON GRAZING IN THE WESTERN ARCTIC OCEAN
- 15:45 Hopcroft, R. R.; Kosobokova, K. N.: PRODUCTION OF PSEUDOCALANUS SPECIES IN THE CHUKCHI SEA

- 16:00 Ashjian, C. J.; Plourde, S.; Campbell, R. G.: EGG PRODUCTION OF THE COPEPOD *CALANUS GLACIALIS* IN ARCTIC SHELF AND BASIN ENVIRONMENTS
- 16:15 Forest, A.; Sampei, M.; Hattori, H.; Sasaki, H.; Wassmann, P.; Fortier, L.: SAESONAL VARIATIONS OF THE FAECAL CARBON DOWNWARD FLUX ON THE MACKENZIE SHELF BREAK (ARCTIC OCEAN)
- 16:30 Tremblay, J. E.; Amiel, D.; Cochran, J. K.; Fortier, L.; Hattori, H.; Mei, Z. P.; Michel, C.; Ringuette, M.: FLUXES OF BIOGENIC CARBON IN EARLY-OPENING WATERS OF THE ARCTIC OCEAN
- 16:45 Caron, G.; Michel, C.; Gosselin, M.: SINKING FLUXES OF ORGANIC CARBON, PHYTOPLANKTON AND FECAL PELLETS IN THE NORTH WATER: EVIDENCE FOR A BOREAL PATTERN OF SEDIMENTATION IN THE HIGH ARCTIC
- 17:30 Cancellation
- 17:45 Grebmeier, J. M.; Cooper, L. W.; Sirenko, B. I.: THE INFLUENCE OF PACIFIC WATERS ON BENTHIC COMMUNITY STRUCTURE, CARBON CYCLING AND SHELF-BASIN EXCHANGE IN THE AMERASIAN ARCTIC
- 18:00 Pirtle-Levy, R.; Grebmeier, J. M.; Cooper, L. W.: CAN CHLOROPHYLL IN SEDIMENTS SERVE AS A "FOOD BANK" FOR ARCTIC BENTHIC INVERTEBRATES?
- 18:15 Dunton, K. H.; Schonberg, S. V.; Aumack, C. A.: SPATIAL AND TEMPORAL DIFFERENCES IN FOOD WEB STRUCTURE ON ARCTIC SHELVES: EVIDENCE FOR CHANGES IN ULTIMATE CARBON SOURCES?
- 18:30 Devol, A. H.; Chang, B. X.: OXYGEN CONSUMPTION, DENITRIFICATION AND ISOTOPIC FRACTIONATION IN WESTERN ARCTIC MARGIN SEDIMENTS
- 18:45 Moran, S. B.; Chen, C. C.; Edwards, R. L.; Edmonds, H. N.; Scholten, J. C.; Smith, J. N.; Ku, T. L.: 231PA AND 230TH IN SURFACE SEDIMENTS OF THE ARCTIC OCEAN-
- 19:00 Cancellation
- 19:15 Ray, G. C.; Simpson, J. J.; Hufford, G. L.; Krupnik, I. I.; Berg, P.; Epstein, H.; Mann, M. E.; McCormick-Ray, J.: POTENTIAL EFFECTS OF CLIMATE ON PHYSICAL, BIOLOGICAL, AND ECOLOGICAL RELATIONSHIPS IN THE BERING SEA AT MULTIPLE SCALES

SS24: Biodiversity and Ecosystem Function, Contrasting Human-altered With Pristine Streams

Chair(s): Francesc Sabater, fsabater@ub.edu

Tom J. Battin, tomba@pflaphy.pph.univie.ac.at

Eugenia Marti, eugenia@ceab.cisc.es

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 12:15 Larrañaga, A.; Basaguren, A.; Pozo, J.: DOES EUCALYPTUS AFFORESTATION AFFECT BENTHIC MACROINVERTEBRATE COMPOSITION AND ABUNDANCE?
- 12:30 Susana Bernal Berenguer, .; Andrea Butturini, .; Francesc Sabater Comas, .: INFERRING THE ORIGIN OF NITRATE IN A MEDITERRANEAN STREAM: CATCHMENT VS IN-STREAM PROCESSES.
- 12:45 Ruggiero, A.; Solimini, A. G.; De Cicco, M.; Romano, A.; Anello, M.; Carchini, G.: ORGANIC MATTER AND ECOSYSTEM FUNCTIONING IN A HUMAN-ALTERED MEDITERRANEAN STREAM
- 13:00 Sabater, F.; Marti, E.; Riera, J. L.; Battin, T. J.; Gafny, S.; Morais, M.; Pusch, M.; Sánchez-Pérez, J. M.; Solimini, A.; Voreadou, C.: A MULTIFACTORIAL APPROACH TO EXAMINE FACTORS INFLUENCING NUTRIENT RETENTION IN HUMAN-ALTERED STREAMS
- 13:15 Voreadou, C.; Madi, K.; Markakis, G.; Battin, T.; Gafny, S.; Marti, E.; Morais, M.; Puig, M.; Pusch, M.; Sabater, F.; Solimini, A.; Vervier, P.: DETECTION OF EFFECTS OF NUTRIENTS ON THE INVERTEBRATE COMMUNITY OF SEVERAL EUROPEAN STREAMS USING VARIOUS APPROACHES TO STATISTICAL ANALYSES AND INTERPRETATION
- 13:30 Gerino, M.; Vervier, P.; Sauvage, S.; Sanchez-Perez, J. M.; Dumas, P.; Battin, T.; Gafny, S.; Marti, E.; Morais, M.; Puig, M. A.; Pusch, M.; Sabater, F.; Solimini, A.; Voreadou, C.: RELATIONSHIPS BETWEEN ECOSYSTEM FUNCTIONS (NUTRIENT UPTAKE RATES) AND INVERTEBRATE DIVERSITY IN STREAM REACHES.

SS26: Respiration in Aquatic Ecosystems: Current Understanding and Future Directions

Chair(s): Peter J. Le B. Williams, pljw@bangor.ac.uk

Paul A. del Giorgio, del_giorgio.paul@uqam.ca

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 17:30 Williams, P. J.: RESPIRATION – WHAT IS IT, HOW TO MEASURE IT, WHAT ARE THEIR LIMITATIONS AND WHERE NEXT –
- 17:45 del Giorgio, P. A.; Williams, P. J.: A GLOBAL VIEW OF RESPIRATION IN AQUATIC ECOSYSTEMS-
- 18:00 Marra, J.; Serret, P.; Smith, E. M.: THE 2005 WORKSHOP ON RESPIRATION AND PLANKTONIC FOODWEBS: A SYNOPSIS*

(*) represents Tutorial presentations

- 18:15 Serret, P.: SCALING MARINE PLANKTON NET METABOLISM: FROM FOOD WEB FLUXES TO BIOGEOCHEMICAL BUDGETS?*
- 18:30 Aristegui, J.; Duarte, C. M.; Gasol, J. M.; Alonso-Sáez, L.; Vilas, J. C.: ACTIVE MESOPELAGIC PROKARYOTES SUPPORT HIGH RESPIRATION IN THE SUBTROPICAL NORTHEAST ATLANTIC OCEAN
- 18:45 Annamaria Zoppini, A.; Alberto Puddu, A.; Stefano Amalfitano, S.; Stefano Fazi, S.: BACTERIAL PRODUCTION AND RESPIRATION IN TWO LAGOON-COASTAL SYSTEMS
- 19:00 Robinson, C.; le B Williams, P. J.: MICROBIAL RESPIRATION IN SURFACE MARINE WATERS
- 19:15 Hernández-León, S.; Ikeda, T.; Fraga, C.: MESOZOOPLANKTON METABOLISM IN THE OCEAN: GLOBAL ASSESSMENT OF RESPIRATION AND EXCRETION

SS31: Coupled Oceanographic Processes in Estuaries and River Dominated Margins

Chair(s): Pere Puig

Miguel A. Goñi, goni@geol.sc.edu

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 12:15 Geyer, W. R.: THE PHYSICS OF RIVER OUTFLOWS AND IMPLICATIONS FOR THEIR BIOGEOCHEMISTRY -
- 12:45 Wheatcroft, R. A.; Fritz, C. E.: IMPACT OF FLOOD SEDIMENTATION ON SHELF BENTHOS, EEL RIVER MARGIN, NORTHERN CALIFORNIA, USA
- 13:00 Sentchev, A.; Loisel, H.; Poteau, A.; Meriaux, X.: THE ROLE OF TIDAL STIRRING IN CONTROLLING THE VARIABILITY OF THE SUSPENDED MATTER CONCENTRATIONS IN THE ROFI SYSTEM OF THE EASTERN ENGLISH CHANNEL
- 13:15 Alperin, M. J.; Nie, Y.: IMPACT OF BOTTOM CURRENTS ON BENTHIC FLUXES AND SEDIMENT PROCESSES IN A SHALLOW, EUTROPHIC ESTUARY
- 13:30 Ståhlberg, C.; Bastviken, D.; Rahm, L.; Svensson, B. H.: RESUSPENSION INCREASE ORGANIC MATTER MINERALIZATION IN NORTH WEST BALTIC PROPER TOP SEDIMENT
- 15:15 Kim, Y. H.; Voulgaris, G.; Goni, M. A.: ESTIMATION OF PARTICULATE ORGANIC CARBON (POC) FLUXES USING ACOUSTIC AND OPTICAL SENSORS IN ESTUARIES
- 15:30 Ludwig, W.; Probst, J. L.; Mamoudou, M.; Garcia-Estevés, J.; Bourrin, F.; Roussiez, V.; Buscalli, R.; Bouchoutrouch, T.; Carbone, J.: TRACKING THE LAND-TO-SEA TRANSFER OF SEDIMENTS AND ASSOCIATED ORGANIC CARBON BY SMALL COASTAL RIVERS: THE CASE OF THE TÊT RIVER (SOUTHERN FRANCE)
- 15:45 Mills, D. K.; Howarth, J.; Greenwood, N.; Slyver, D. B.; Pearce, D.; Cutchey, S.; Andres, O.: CONTROLS OF PHYTOPLANKTON SPECIES SUCCESSION IN HYPERNUTRIFFED AND TIDALLY ENERGETIC SHALLOW COASTAL ENVIRONMENTS
- 16:00 BOURRIN, F.; Buscalli, R.; Aloisi, J. C.; Durrieu De Madron, X.; Guillen, J.: DYNAMIC AND TEMPORAL CHANGES OF THE PHYSICO-CHEMICAL AND GEOCHEMICAL PROPERTIES OF THE SEDIMENT UPPER LAYER ON THE TÊT RIVER PRODELTA WESTERN MEDITERRANEAN SEA
- 16:15 Fuchs, H. L.; Mullineaux, L. S.; Neubert, M. G.; Solow, A. R.: TEMPORAL VARIATION IN LARVAL SUPPLY OF GASTROPODS DUE TO VELIGER BEHAVIOR IN A TIDAL INLET
- 16:30 Fabres, J.; Miserocchi, S.; Heussner, S.; Calafat, A.; Zúñiga, D.; Canals, M.; Tesi, T.; Palanques, A.; Puig, P.; Durrieu de Madron, X.: THE IMPACT OF A WINTER CATASTROPHIC STORM ON NEAR BOTTOM PARTICLE FLUXES AT CANYON HEADS IN THE GULF OF LIONS
- 16:45 Oubelkheir, K.; Dekker, A.; Clementson, L.; Webster, I.; Ford, P.; Radke, L.: BIO-OPTICAL CHARACTERISATION OF A TROPICAL MACRO-TIDAL RIVER-ESTUARY-OCEAN SYSTEM
- 17:30 TESI, T.; LANGONE, L.; MISEROCCHI, S.: ORGANIC CARBON AND ITS ISOTOPIC COMPOSITION IN SURFICIAL SEDIMENTS ON THE WESTERN ADRIATIC CONTINENTAL SHELF, ITALY
- 17:45 Jaffe, R.; Mead, R. N.: HYDROLOGICAL CONTROL OF ORGANIC MATTER SOURCES AND TRANSPORT IN A SUB-TROPICAL ESTUARY: A MOLECULAR MARKER STUDY
- 18:00 Palanques, A.; Puig, P.; Guillén, J.; Demestre, M.: IMPACT OF TRAWLING ON THE EBRO MUD PRODELTA
- 18:15 Wilson, B. A.; Chen, R. F.; Olsen, C. R.: LAND-BASED ESTIMATES OF COLORED DISSOLVED ORGANIC MATTER (CDOM) SOURCES TO THE HUDSON AND RARITAN RIVERS
- 18:30 Gordon, E. S.; Goni, M. A.: SEDIMENTARY CONTROLS ON THE DISTRIBUTION OF TERRIGENOUS ORGANIC MATTER ACROSS THE MISSISSIPPI-ATCHAFALAYA RIVER MARGIN

- 18:45 Pastuszak, M.; Witek, Z.; Nagel, K.; Wielgat, M.; Grelowski, A.: ROLE OF THE ODER ESTUARY (SOUTHERN BALTIC) IN TRANSFORMATION OF THE RIVERINE NUTRIENT LOAD
- 19:00 Nuwer, J. M.; Kell, R. G.: SEDIMENTARY ORGANIC MATTER GEOCHEMISTRY OF TEMPERATE FJORDS: CLAYOQUOT SOUND, BRITISH COLUMBIA, CANADA
- 19:15 Goni, M. A.; Voulgaris, G.; Cathey, M. W.; Kim, Y. H.: SOURCES AND FLUXES OF SUSPENDED ORGANIC MATTER IN AN ESTUARINE TURBIDITY MAXIMUM REGION

SS35: Alternative Pathways of Nitrogen Removal From the Sea

Chair(s): Stefan Hulth, stefan.hulth@chem.gu.se

Nils Risgaard-Petersen, nri@dmu.dk

Tage Dalsgaard, tda@dmu.dk

Location: Puerto del Camino Hotel V, Breakout #9

- 12:15 Dalsgaard, T.; Hulth, S.; Risgaard-Petersen, N.; Engström, P.: ALTERNATIVE PATHWAYS OF NITROGEN REMOVAL FROM THE SEA -
- 12:45 Mulder, A.: THE PROSPECTS OF ALTERNATIVE PATHWAYS OF NITROGEN REMOVAL IN WASTEWATER TREATMENT FOR A MORE SUSTAINABLE MAN-MADE NITROGEN CYCLE
- 13:00 Van de Vossenberg, J.; Schmid, M.; Kuypers, M.; Sinnighe Damste, J.; Risgaard-Petersen, N.; Jetten, M.; Strous, M.: MARINE ANAEROBIC AMMONIUM OXIDIZING BACTERIA*
- 13:15 Wobken, D.; Kuypers, M. M.; Lavik, G.; Fuchs, B. M.; Schmid, M.; Jetten, M.; Joergensen, B. B.; Amann, R.: DETECTION OF ANAMMOX BACTERIA IN THE BENGUELA UPWELLING SYSTEM AND THEIR IMPACT ON THE NITROGEN LOSS IN THIS ECOSYSTEM
- 13:30 Jensen, M. M.; Thamdrup, B.; Dalsgaard, T.; Ulloa, O.: ANAEROBIC OXIDATION OF AMMONIUM IN OXYGEN-DEFICIENT OCEAN WATERS
- 15:15 Davies, C. A.; Trimmer, M.; Nicholls, J. C.: MICROBIAL PROCESSING OF NITROGEN AND NITROUS OXIDE WITHIN THE OXYGEN MINIMUM ZONE OF THE ARABIAN SEA
- 15:30 Bartlett, R.; Mortimer, R. J.; Morris, K.: INTERACTIONS BETWEEN NITROGEN AND MANGANESE CYCLES IN MARINE SEDIMENT: EVIDENCE OF ANOXIC NITRIFICATION
- 15:45 Chaillou, G.; Anschutz, P.; Dubrulle, C.: INTERACTION BETWEEN N-SPECIES AND MN-OXIDES IN RAPID DEPOSITED SEDIMENT LAYERS: FIELD OBSERVATIONS AND EXPERIMENTS
- 16:00 Rich, J. J.; Cornwell, J. C.; Ward, B. B.: ANAMMOX AND IN SITU DINITROGEN FLUX IN CHESAPEAKE BAY SEDIMENTS
- 16:15 Trimmer, M.; Nicholls, J. C.; Rooks, C. A.; Risgaard-Petersen, N.: ANAMMOX IN ESTUARINE SEDIMENTS: STATE OF PLAY AND FUTURE CHALLENGES.
- 16:30 Engström, P.; Risgaard-Petersen, N.; Hulth, S.: BENTHIC N₂ PRODUCTION THROUGH ANAMMOX AND DENITRIFICATION - A SEASONAL STUDY ON THE IMPORTANCE OF ANAMMOX COUPLED TO SEDIMENT MINERALIZATION RATES
- 16:45 Nicholls, J. C.; Mohammed, Y.; Trimmer, M.: COUPLING ANAEROBIC AMMONIUM OXIDATION (ANAMMOX) TO DENITRIFICATION IN AQUATIC SEDIMENTS

SS36: Non-extremophilic Archaea in Aquatic Environments

Chair(s): Lydie Herfort, Herfort@nioz.nl

Randall E. Hicks, rhicks@imap.d.umn.edu

Location: Puerto del Camino Hotel II, Breakout #11

- 15:15 Werne, J. P.; Powers, L. A.; Hopmans, E. C.; Sinnighe Damste, J. S.; Schouten, S.: ARCHAEOAL MEMBRANE LIPIDS IN LAKES*
- 15:30 Herfort, L.; Wuchter, C.; Schouten, S.; Sinnighe Damsté, J. S.: ECOLOGY OF MARINE ARCHAEOA IN THE NORTH SEA
- 15:45 Abreu, C.; Bordalo, A. A.; De Marco, P.: SPATIAL AND SEASONAL DYNAMICS OF THE ARCHAEOAL COMMUNITY IN ESTUARINE WATER AND SEDIMENTS (RIVER DOURO, PORTUGAL)
- 16:00 Borrego, C.; Lliros, M.; Bañeras, L.; Vich, M. A.; Casamayor, E. O.: DIVERSITY, SPATIO-TEMPORAL VARIABILITY AND FUNCTIONAL ROLE OF PLANKTONIC CRENARCHAEOTA IN THE ANOXIC HYPOLIMNION OF A STRATIFIED LAKE
- 16:15 Huguet, C.; Cartes, J. E.; Schouten, S.: ARCHAEOAL LIPIDS IN DECAPOD FAECAL-PELLETS: HITCHING A RIDE TO THE BOTTOM OF THE OCEAN.
- 16:30 Alain, K.; Holler, T.; Musat, F.; Krüger, M.; Widdel, F.: ARCHAEOA AND BACTERIA OF METHANE- AND HYDROCARBON-SEEPING MUD VOLCANOES OF THE CARPATES.

(*) represents Invited presentations

SS38: Microbial Plankton Ecology and Biogeochemical Fluxes in the Subtropical Gyres

Chair(s): Emilio Marañón, em@uvigo.es

Ricardo Letelier, letelier@coas.oregonstate.edu

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 12:15 Johnson, Z. L.; Zinser, E. R.; Coe, A.; Chisholm, S. W.: PATTERNS AND REGULATION OF CLADE-SPECIFIC DIVERSITY OF PROCHLOROCOCCUS IN THE ATLANTIC OCEAN
- 12:30 Gilbert, J.; Agustí, S.; Duarte, C. M.; Joint, I. R.: SIZE-PRIMARY PRODUCTION SPECTRA AT THE CENTRAL ATLANTIC
- 12:45 Hampton, P. A.; Fileman, E. S.; Burkill, P. H.; Montagnes, D. J.: ATLANTIC MICROZOOPLANKTON: COMMUNITY STRUCTURE, DIVERSITY AND NICHE CHARACTERISTICS
- 13:00 Alonso-Sáez, L.; Gasol, J. M.; Vilas, J. C.; Aristegui, J.; Pinhassi, J.; Gomez-Consarnau, L.; Vaqué, D.; Duarte, C.; Agustí, S.: BACTERIAL DIVERSITY AND CARBON PROCESSING ALONG A PRODUCTIVITY GRADIENT IN THE SUBTROPICAL NORTHEAST ATLANTIC OCEAN.
- 13:15 Pérez, V.; Fernández, E.; Marañón, E.; Zubkov, M. V.: VERTICAL VARIABILITY OF MICROBIAL PLANKTON IN THE ATLANTIC SUBTROPICAL GYRES: AN ECOLOGICAL AND BIOGEOCHEMICAL APPROACH
- 13:30 Kim, Y.; Poulton, A. J.; Heywood, J. L.; Holligan, P. M.: PHYTOPLANKTON GROWTH OF THE CHLOROPHYLL MAXIMUM IN THE ATLANTIC OCEAN
- 15:15 Villareal, T. A.; Wilson, C.; Bograd, S. J.; Schoenbaechler, C.: BIOLOGICAL AND ENVIRONMENTAL CONDITIONS ASSOCIATED WITH NOVEL CHLOROPHYLL BLOOMS IN THE CENTRAL PACIFIC GYRE
- 15:30 Prasil, O.; Koblizek, M.; Masin, M.; Falkowski, P. G.; Claustre, H.: DISTRIBUTION, DIVERSITY AND MORTALITY OF ANOXYGENIC AEROBIC PHOTOHETEROTROPHIC BACTERIA IN SUBTROPICAL GYRES
- 15:45 Lefevre, D.; Sohrin-Fukuda, R.; Sempere, R.; Fernandez, C.; Raimbault, P.; Prieur, L.: FATE OF ORGANIC MATTER WITHIN MODAL WATER IN THE NORTH ATLANTIC OCEAN: AN IN SITU APPROACH
- 16:00 Neuer, S.: MICROZOOPLANKTON GRAZING AND THE BIOLOGICAL CARBON EXPORT IN SUBTROPICAL GYRES
- 16:15 Pliskaln, C. H.; Villareal, T. A.: HIGH CONCENTRATIONS OF MARINE SNOW AND DIATOM MATS IN THE NORTH PACIFIC SUBTROPICAL GYRE: IMPLICATIONS FOR CARBON AND NITROGEN CYCLES IN THE OLIGOTROPHIC OCEAN
- 16:30 Spitz, Y. H.; Richman, J. G.; Abbott, M. R.: Estimate of Export Fluxes at the Hawaii Ocean Time Series (HOT) Station Using a One- and Three-Dimensional Modeling Approach.
- 16:45 Gasser, B.; Miquel, J. C.: EXPORT FLUXES IN CONTRASTING ENVIRONMENTS OF THE SOUTH-EAST PACIFIC

SS45: Understanding the Plumbing of the Biosphere: Theory and Observations in Aquatic Systems (Homage to Ramon Margalef)

Chair(s): Marta Estrada, marta@icm.csic.es

Dolors Planas, planas.dolores@uqam.ca

Location: Puerto del Camino Hotel I, Breakout #10

- 12:15 Karp-Boss, L.; Boss, E.; Jumas, P. A.: THE ROLE OF CELL SHAPE IN PHYTOPLANKTON ECOLOGY
- 12:30 Franks, P. J.; Jaffe, J. S.: MICROSCALE SPATIAL DISTRIBUTIONS OF PHYTOPLANKTON: THE BALANCE BETWEEN PHYSICS AND BIOLOGY IN CREATING PATCHINESS
- 12:45 Jackson, G. A.; Kjørboe, T.: PREDICTING MAXIMUM ALGAL CONCENTRATION & FLUX AS A FUNCTION OF MIXED LAYER DEPTH USING A COUPLED COAGULATION/PRODUCTION MODEL.
- 13:00 Bartumeus, E.; Catalan, J.: LEVY WALK STRATEGIES IN PLANKTONIC INTERACTIONS: OPTIMAL SEARCHES IN A JUNGLE OF RANDOMNESS.
- 13:15 Sellner, K. G.; Sellner, S. G.; Lacouture, R. V.; Michael, B.: DINOFLAGELLATE HEAVEN: THE PATAPSCO RIVER ESTUARY AS AN EXAMPLE OF MARGALEF'S PARADIGM
- 13:30 Marrasé, C.; Gutiérrez, E.: ECOSYSTEM AND MECCANO MODELS: THE UPPER LIMIT OF DIVERSITY REVISITED
- 15:15 Tett, P.; Barton, E. D.; Fehling, J.; Mills, D. K.; Gowen, R.: WHY 5001 SPECIES OF MARINE PHYTOPLANKTON?
- 15:30 Bouman, H. A.; Platt, T.; Sathyendranath, S.; Stuart, V.: THE USE OF PIGMENTS AND THEIR ABSORPTIVE PROPERTIES AS INDICATORS OF PHYTOPLANKTON STRUCTURE AND FUNCTION
- 15:45 Peters, E.; Guadayol, O.; Marrasé, C.; Sabata, A.: PLANKTON RESPONSE TO TURBULENCE AND NUTRIENT LOAD IN AN ANNUAL CYCLE: A TRIBUTE TO MARGALEF.

- 16:00 Arieta, J. M.; Snoek, W.; van Aken, H. M.; Herndl, G. J.: LINKING OCEAN CIRCULATION AND PROKARYOTIC COMMUNITIES IN MESO- AND BATHYPELAGIC LAYERS OF THE NORTH ATLANTIC
- 16:15 Rondon, A. N.; Lewis, M. R.; Muller-Karger, F.; Varela, R.; Troccoli, L.: SEASONAL VARIABILITY IN PHYTOPLANKTON SPECIES COMPOSITION IN THE CARIACO BASIN, VENEZUELA
- 16:30 Boavida, M. J.: IT ALL STARDED WITH MARGALEF'S PAPER OF 1951
- 16:45 Acaraz, M.: THE ROLE OF SIZE IN THE LIVING THEATER: ECOLOGICAL RELEVANCE OF SOME REGULARITIES IN THE SIZE-RELATIONSHIPS FOR CONGENERIC PLANKTONIC COPEPODS.
- 17:30 Figueiras, F. G.; Estrada, M.; Crespo, B. G.: ROLE OF UPWELLING-DOWNWELLING CYCLES ON THE PHYTOPLANKTON MANDALA OF THE RIAS BAIXAS (NW IBERIAN UPWELLING)
- 17:45 Pelegri, J. L.: GEOPHYSIOLOGICAL VARIABLES AND SYSTEMS
- 18:00 Catalan, J.; Ventura, M.; Bartrons, M.; Vives, I.; Grimalt, J. O.: PCB BIOACCUMULATION IN FRESHWATER ORGANISMS: RECONCILING THEORY, OBSERVATION AND NATURAL HISTORY
- 18:15 Cloern, J. E.; Schraga, T. S.; Lopez, C. B.: CLIMATE ANOMALIES AT TWO TIME SCALES SET UP AN EXCEPTIONAL RED TIDE IN SAN FRANCISCO BAY
- 18:30 Starkweather, P. L.; Melão, M. G.; Marco, J.; Simó-Alfonso, E.; Ramis-Ramos, G.; Vicente, E.; Miracle, M. R.: CONNECTING THE PLANKTONIC MATRIX: DIEL PATTERNS OF BEHAVIOR AND METABOLISM IN VERTICALLY MIGRATING CHAOBORUS FLAVICANS
- 18:45 Prat, N.; Rieradevall, M.; Bonada, N.: COMMUNITIES OF AQUATIC MACROINVERTEBRATES IN THE MEDITERRANEAN RIVERS OF THE WORLD
- 19:00 Planas, D.; Paquet, S.; Prepas, E. E.: CONNECTIVITY, ECODIVERSITY AND BIODIVERSITY OF PHYTOPLANKTON
- 19:15 Estrada, M.: A COMPARISON OF PATTERNS IN PHYTOPLANKTON ASSEMBLAGE STRUCTURE

SS50: Ecology of Aquatic Pathogens in a Changing Environment

Chair(s): Alexandra Z. Worden, aworden@rsmas.miami.edu

Stefan Bertilsson, stebe@ebc.uu.se

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 17:30 Yildiz, F.: ENVIRONMENTAL SURVIVAL OF VIBRIO CHOLERAEE: ROLE OF PHASE VARIATION AND BIOFILM FORMATION -
- 17:45 Thompson, J. R.; Polz, M. F.: FROM POPULATIONS TO GENOMES: VIBRIO DIVERSITY AND DYNAMICS IN THE COASTAL NORTHEAST, U.S.A.*
- 18:00 Bhreatnach, N. C.; Kavanagh, S.; Richards, K.; O'Flaherty, V.: MICROBIAL CONTAMINATION OF AQUIFERS IN IRELAND: IDENTIFICATION OR GROUNDWATER VULNERABILITY FACTORS AND MOLECULAR DETECTION OF KEY PATHOGENS
- 18:15 Cancellation
- 18:30 Eller, A.; Johansson, M.; Bertilsson, S.: ENVIRONMENTAL CONTROL OF VIBRIO ABUNDANCE AND DIVERSITY IN COLD COASTAL WATERS
- 18:45 Tyner, E. C.; Fries, D. P.; Blake, N. J.: RAPID VIBRIO BIOSENSOR
- 19:00 Cancellation
- 19:15 Baron, S.; Vandenkoornhuise, P.; Chevallier, S.; Boisgontier, N.; Lesne, J. E.: INTRASPECIFIC DIVERSITY OF VIBRIO CHOLERAEE IN RANCE ESTUARINE WATER AS DETERMINED BY ENTEROBACTERIAL REPETITIVE INTER-CONSENSUS SEQUENCE-PCR

SS62: Pelagic Infochemistry

Chair(s): Michael Steinke, M.Steinke@uea.ac.uk

Susan B. Watson, swatson@ucalgary.ca

Georg Pohnert, pohnert@ice.mpg.de

Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7

- 12:15 Pohnert, G.: CHEMICAL SIGNALS IN THE AQUEOUS ENVIRONMENT: PRODUCTION, PERCEPTION AND POTENTIAL EFFECTS ON COMMUNITY STRUCTURES -
- 12:45 Long, J. D.; Hay, M. E.: CHEMICAL CUES FROM ZOOPLANKTON INDUCE CONSUMER-SPECIFIC DEFENSES IN A MARINE PHYTOPLANKTON
- 13:00 Tollrian, R.; Engel, K.: MORPHOLOGICAL DEFENSES AGAINST FISH PREDATION - A KEY FACTOR FOR THE SUCCESS OF AN INVADING SPECIES?
- 13:15 Laforsch, C.; Ngwa, W.; Grill, W.; Tollrian, R.: BEYOND THE 'TIP OF THE ICEBERG' - A UNIQUE ACOUSTIC MICROSCOPE REVEALS HIDDEN MORPHOLOGICAL DEFENCES

(-) represents Tutorial presentations

- 13:30 [lanora, A.](#); Romano, G.; Buttino, I.; Casotti, R.; Bastianini, M.; Carotenuto, Y.; Miralto, A.: DECIPHERING THE PARADOX OF DIATOM-COPEPOD INTERACTIONS*
- 15:15 [Selander, E.](#); Toth, G. B.; Cervin, G.; Thor, P.; Pavia, H.: COPEPODS INDUCE PARALYTIC SHELLFISH TOXIN PRODUCTION IN MARINE DINOFLAGELLATES. - EFFECT OF NITRATE AND PHOSPHATE LIMITATION.
- 15:30 [Steinke, M.](#); Stefels, J.; Stamhuis, E. J.: THE CLIMATE-GAS DIMETHYLSULFIDE (DMS) TRIGGERS SEARCH BEHAVIOR IN COPEPODS
- 15:45 [Vardi, A.](#); Formiggini, F.; Casotti, R.; Bowler, C.: A STRESS SURVEILLANCE SYSTEM BASED ON CALCIUM AND NITRIC OXIDE IN MARINE DIATOMS
- 16:00 [Snell, T. W.](#); Kubanek, J.; Stelzer, C. P.: THE SIGNAL INDUCING MIXIS IN ROTIFERS IS A PROTEIN
- 16:15 [Watson, S. B.](#); Caldwell, G.; Bentley, M. G.; Janzen, L.; Mejia, M.: OXYLIPINS IN ALGAL - HERBIVORE RELATIONSHIPS: ATTACK, DEFENCE AND COUNTERDEFENCE
- 16:30 [van der Stap, L.](#); Vos, M.; Mooij, W. M.; Verschoor, A. M.; van Donk, E.: INFOCHEMICAL-MEDIATED TROPHIC INTERACTIONS WITHIN THE PELAGIC FOOD WEB
- 16:45 Cancellation
- 17:30 [Wilson, A. E.](#); Tillmanns, A.; Samelle, O.: RELATIVE ROLES OF ALTERNATIVE MECHANISMS MEDIATING EFFECTS OF CYANOBACTERIA ON ZOOPLANKTON POPULATION GROWTH - META-ANALYSIS OF LABORATORY EXPERIMENTS
- 17:45 [Gal, G.](#); Rudstam, L. G.; Boscarino, B.; Johannsson, O. E.; O'Gorman, R.; Mills, E. L.; Loew, E.; Mata, S.; Eilenberger, J.: THE IMPACT OF BIOLOGICAL AND PHYSICAL FACTORS ON THE DISTRIBUTION OF MYSIDS
- 18:00 [Höckelmann, C.](#); Moens, T.; Jüttner, F.: CYANOBACTERIAL ODOR COMPOUNDS AS INFOCHEMICALS FOR AQUATIC NEMATODES
- 18:15 [Cosovic, B.](#); Ciglenecki, I.; Ahel, M.; Terzic, S.; Lucic, D.; Sanko, J.: MUCILAGINOUS ALGAL BLOOMS AND POSSIBLE ROLE OF CHEMICAL CUES
- 18:30 [Fontana, A.](#); d'Ippolito, G.; Cutignano, A.; Romano, G.; Cimino, G.: BIOCHEMICAL PERSPECTIVES OF CHEMICAL ECOLOGY IN MARINE DIATOMS
- 18:45 [Wichard, T.](#); Poulet, S. A.; Pohnert, G.: FORMATION AND IMPACT OF POLYUNSATURATED ALDEHYDES DURING THE PHYTOPLANKTON SUCCESSION
- 19:00 Frost, B. W.; [Halsband-Lenk, C.](#); Horner, R. A.; Leising, A. W.; Pierson, J. J.; Postel, J. R.: COPEPODS AND DIATOMS: PARADIGM OR PARADOX?

SS72: Assessing and Modelling Eutrophication

Chair(s): Alice Newton, anewton@ualg.pt

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 17:30 [Bricker, S. B.](#); Ferreira, J. G.; Nobre, A. M.; Zhang, X. L.; Zhu, M. Y.; Wang, B. D.; Yan, X. J.; Callender, R.; Matlock, G. C.: APPLICATION OF THE ASSETS EUTROPHICATION ASSESSMENT METHODOLOGY TO FOUR CONTRASTING CHINESE COASTAL SYSTEMS
- 17:45 [Cardoso, A. C.](#); Dowell, M. D.; Eisenreich, S.: A CONCEPTUAL FRAMEWORK FOR THE ASSESSMENT OF EUTROPHICATION ACROSS WATER CATEGORIES AND POLICIES
- 18:00 [Carlson, R. E.](#); Smith, V. H.; Gibson, G.: ARE EMPIRICAL APPROACHES TO UNDERSTANDING NUTRIENT-ALGAL RELATIONSHIPS DIFFERENT IN MARINE AND ESTUARINE ENVIRONMENTS FROM THOSE FOUND IN FRESHWATER?
- 18:15 [Ferreira, J. G.](#); Bricker, S. B.; De Wit, M. P.; Lipton, D.: DEVELOPMENT OF A QUANTITATIVE METHODOLOGY FOR DEFINING AND ASSESSING RESPONSE TO COASTAL EUTROPHICATION
- 18:30 [Verity, P. G.](#); Alber, M. L.; Bricker, S. B.: LONG TERM DECLINES IN DISSOLVED OXYGEN IN WELL-MIXED ESTUARIES IN THE SE USA
- 18:45 [Sharp, J. H.](#): ASSESSING EUTROPHICATION: NOT SIMPLE AND NOT LINEAR
- 19:00 [Tian, T.](#); Wei, H.; Su, J.; Chung, C. S.: NUMERICAL STUDIES ON PHYTOPLANKTON PRODUCTION AND NUTRIENT BUDGET IN THE YELLOW SEA
- 19:15 [Marcé, R.](#); Armengol, J.: BYPASSING NUTRIENT IN-STREAM PROCESSES FROM THE REACH TO THE WATERSHED SCALE USING NUTRIENT SPIRALLING METRICS

SS77: Stoichiometric Aspects of Ecology and Evolution in Aquatic Ecosystems

Chair(s): Dag O. Hessen, d.o.hessen@bio.uio.no

Tom Andersen, tom.andersen@bio.uio.no

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 12:15 [Haupt, E.](#); Striebel, M.; Diehl, S.: THE INFLUENCE OF MIXING DEPTH ON PHYTOPLANKTON-DAPHNIA-INTERACTIONS: A FIELD EXPERIMENT
- 12:30 [Boersma, M.](#); Elser, J. J.: TOO MUCH OF A GOOD THING: ON BALANCED DIETS AND MAXIMAL GROWTH

- 12:45 [Jensen, T. C.](#); Hessen, D. O.: DOES EXCESS CARBON AFFECT ZOOPLANKTON RESPIRATION?
- 13:00 [Andersen, T.](#); Færøvig, P. J.; Hessen, D. O.: FOOD STOICHIOMETRY AFFECTS GROWTH RATE BUT NOT BIOMASS YIELD OF DAPHNIA IN TWO-STAGE CULTURE
- 13:15 [Ventura, M.](#); Catalan, J.: REPRODUCTION AS ONE OF THE MAIN CAUSES OF NON-STRICT HOMEOSTASIS IN THE ELEMENTAL COMPOSITION OF ZOOPLANKTON
- 13:30 [Anderson, T. R.](#); Hessen, D. O.: THRESHOLD ELEMENTAL RATIOS FOR C VERSUS P LIMITATION IN DAPHNIA
- 15:15 [Van Geest, G.](#); Hessen, D. O.; Brehm, M.; Van Donk, E.: THE EFFECT OF TEMPERATURE ON LIFE HISTORY TRAITS OF ARCTIC AND TEMPERATE DAPHNIDS
- 15:30 [Vanni, M. J.](#); Bowling, A. M.; Dickman, E. M.; Gonzalez, M. J.; Horgan, M. J.; Renwick, W. H.; Stein, R. A.: NUTRIENT CYCLING BY OMNIVOROUS FISH SUPPORTS AN INCREASING PROPORTION OF PRIMARY PRODUCTION AS LAKE TROPHIC STATUS INCREASES
- 15:45 [Torres, L. E.](#); Vanni, M. J.: VARIATION AMONG FISH SPECIES IN THE STOICHIOMETRY OF NUTRIENT EXCRETION
- 16:00 [Frost, P. C.](#); Benstead, J. P.; Cross, W. F.; Hillebrand, H.; Larson, J. H.; MacKenzie, C.; Xenopoulos, M. A.; Yoshida, T.: THRESHOLD CARBON:PHOSPHORUS RATIOS OF AQUATIC ORGANISMS: RELATIVE EFFECTS OF METABOLISM AND BODY ELEMENTAL COMPOSITION
- 16:15 [Villar-Argaiz, M.](#); Ramos Rodriguez, E.; Delgado-Molina, J. A.; Ballejos, F. J.; Medina-Sánchez, J. M.; Carrillo, P.: FOOD QUANTITY AND QUALITY CONSTRAINTS ON THE GROWTH OF DIFFERENT LIFE HISTORY ZOOPLANKTERS BY THE BALANCE OF ULTRAVIOLET LIGHT AND NUTRIENTS
- 16:30 [Matthews, B.](#); Young, K.; Davies, J.; Mazumder, A.: THE STOICHIOMETRY OF CARBON STABLE ISOTOPES IN ZOOPLANKTON
- 16:45 [Pilati, A.](#); Vanni, M. J.: ONTOGENY AND DIET SHIFT EFFECTS ON STOICHIOMETRY: A CASE STUDY OF GIZZARD SHAD (DOROSOMA CEPEDIANUM)

SS80: Impacts of Climate Change and Other Drivers of Change on Freshwater Ecosystems

Chair(s): Martin Dokull, martin.dokull@oeeaw.ac.at

Charles R. Goldman, crgoldman@ucdavis.edu

Rick Battarbee, rbattarb@geog.ucl.ac.uk

Martin Kernan, mkernan@geog.ucl.ac.uk

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 12:15 [Livingstone, D. M.](#); Hari, R. E.; Jankowski, T.; Weyhenmeyer, G. A.: EVIDENCE FOR AN ABRUPT CLIMATE-RELATED CHANGE IN EUROPEAN LAKES AND RIVERS
- 12:30 [Likens, G. E.](#); Buso, D. C.: LONG-TERM MEASUREMENTS OF CLIMATE CHANGE IN THE HUBBARD BROOK VALLEY, NEW HAMPSHIRE, USA
- 12:45 [Dokull, M. T.](#); Teubner, K.; Jagsch, A.; Anneville, O.; Blenckner, T.; Jankowski, T.; Wahl, B.; George, D. G.: CLIMATE CHANGE AFFECTING HYPOLIMNETIC WATER TEMPERATURES IN DEEP LAKES IN EUROPE
- 13:00 [Goldman, C. R.](#); Coats, R.; Perez-Losada, J.; Schladow, G.: LAKE PROBLEMS ASSOCIATED WITH CLIMATE CHANGE AND THE EFFECT OF WARMING OLIGOTROPHIC LAKE TAHOE
- 13:15 [Kernan, M.](#); Battarbee, R. W.: THE INTERACTION BETWEEN GLOBAL CLIMATE CHANGE AND OTHER KEY DRIVERS OF CHANGE- EFFECTS ON EUROPEAN FRESHWATER ECOSYSTEMS.
- 13:30 [Jankowski, T.](#); Rita, A.; Burgi, H. R.; Forster, R.; Kummerlin, R. E.; Livingstone, D. M.; Teubner, K.; Weyhenmeyer, G. A.; Strale, D.: CONTRASTING EFFECTS OF CLIMATE WARMING AND OLIGOTROPHICATION ON PHYTOPLANKTON DIVERSITY IN EUROPEAN LAKES
- 15:15 [May, L.](#); Bennion, H.; Elliott, A.; Ferguson, C.; Scott, M.; Carvalho, L. R.; Bowman, A.; Maberly, S. C.: DISENTANGLING THE EFFECTS OF CLIMATE CHANGE AND EUTROPHICATION ON FRESHWATER LAKES: A COMPARISON OF THREE APPROACHES
- 15:30 [Blenckner, T.](#); Adrian, R.; Teubner, K.; Jankowski, T.; Weyhenmeyer, G. A.; George, D. G.: LARGE-SCALE CLIMATE SIGNATURES ACROSS EUROPEAN LAKES
- 15:45 [Kipfer, R.](#); Brennwald, M. S.; Karabiyikoglu, M.; Orcen, S.; Peeters, F.: CEASING DEEP WATER FORMATION IN LAKE VAN (EASTERN ANATOLIA) IN RESPONSE TO LAKE LEVEL RISE AND CLIMATE CHANGE
- 16:00 [Hering, D.](#); Johnson, R. K.; Furse, M. T.: DRIVERS AND ORGANISM GROUPS: INDICATION OF DIFFERENT STRESSORS IN EUROPEAN RIVERS
- 16:15 [Kumagai, M.](#); Goulden, C.; Hayakawa, K.; Tsujimura, S.; Ishikawa, K.; Urabe, J.: RECENT RISE IN WATER LEVEL AT LAKE HOVSOLG IN MONGOLIA
- 16:30 [Thies, H.](#); Nickus, U.; Psenner, R.; Tait, D.; Thaler, B.; Tessadri, R.: HIGH ALTITUDE LAKES IN THE ALPS - ARE RECENT CHANGES IN BIOGEOCHEMISTRY A RESPONSE TO CLIMATE WARMING ?

(*) represents invited presentations

- 16:45 [Raulio, M.](#); Vincent, W. F.: SHALLOW FRESHWATER ECOSYSTEMS OF THE ARCTIC: STRUCTURE AND POTENTIAL SENSITIVITY TO CLIMATE CHANGE
- 17:30 [Lydersen, E.](#); [Andersen, T.](#); [Saloranta, T.](#); [Wright, R. F.](#); [Lyche-Solheim, A.](#): WILL MAJOR CLIMATE CHANGE CAUSE SIGNIFICANT ECOSYSTEM EFFECTS IN STRATIFIED OLIGOTROPHIC LAKES? RESULTS OF THERMAL MANIPULATION OF A LAKE IN SOUTHERN NORWAY
- 17:45 [Ivanyi, E.](#); [Stralle, D.](#); [Gaedke, U.](#): CLIMATE IMPACTS ON THE PHYTOPLANKTON IN LAKE CONSTANCE
- 18:00 [Pick, F. R.](#); [LeBlanc, S. E.](#); [Powles, E.](#): CYANOBACTERIAL BLOOMS IN OLIGOTROPHIC TO MESOTROPHIC TEMPERATE LAKES AND THE ROLE OF CLIMATE CHANGE
- 18:15 [Hargreaves, B. R.](#); [Girdner, S. F.](#); [Buktenica, M.](#); [Collier, R. W.](#); [Urbach, E.](#); [Larson, G. L.](#): ULTRAVIOLET TRANSPARENCY IN CRATER LAKE, OREGON: DECADAL CYCLES DURING THE PAST CENTURY
- 18:30 [Bayley, S. E.](#); [Creed, I.](#); [Sass, G.](#); [Wong, A. S.](#); [Van Humbeck, J. M.](#): LOWERED WATER LEVELS INCREASE THE INSTABILITY OF ALTERNATE STATES IN SHALLOW BOREAL WETLANDS
- 18:45 [Zwolsman, J. J.](#): WATER QUALITY OF THE RHINE AND MEUSE RIVERS DURING THE SUMMER DROUGHT OF 2003 - PREVIEW OF CLIMATE CHANGE?
- 19:00 [McGowan, S.](#); [Leavitt, P. R.](#); [Hall, R. I.](#); [Wolfe, B. B.](#); [Edwards, T. W.](#); [Karst-Riddoch, T.](#); [Vardy, S. R.](#): RELATIVE IMPORTANCE OF RIVER FLOODING AND REGIONAL CLIMATE VARIABILITY AS CONTROLS ON ALGAL PRODUCTION IN LAKES OF THE PEACE-ATHABASCA DELTA
- 19:15 [Rennie, M. D.](#); [Sprules, W. G.](#); [Johnson, T. B.](#); [McNickle, G. G.](#): LONG-TERM TRENDS IN GROWTH AND LIFE HISTORIES OF LAKE WHITEFISH IN LAKE HURON: CLIMATE, DIET OR DENSITY?

SS84: Multi-tracer Approaches Toward Understanding Particle Fluxes and Dynamics in the Sea

Chair(s): [Stuart Wakeham](#), [stuart@skio.peachnet.edu](#)
[Pere Masque](#), [Pere.Masque@uab.es](#)
[Juan-Carlos Miquel](#), [j.c.miquel@iaea.org](#)
[Robert Armstrong](#), [rarmstrong@notes.cc.sunysb.edu](#)

Location: Puerto del Camino Hotel V, Breakout #9

- 17:30 [Lee, C.](#); [Armstrong, R. A.](#); [Engel, A.](#); [Xue, J.](#); [Beck, A.](#); [Liu, Z.](#); [Cochran, J. K.](#); [Peterson, M. L.](#); [Wakeham, S. G.](#); [Miquel, J. C.](#): PERSPECTIVES ON MECHANISMS DRIVING PARTICULATE ORGANIC CARBON (POC) FLUX: INSIGHTS FROM MEDFLUX-
- 18:00 [Antia, A. N.](#): PARTICLE-ASSOCIATED DISSOLVED ELEMENTAL FLUXES: RESTORING THE REDFIELD RATIO IN EXPORT?*
- 18:15 [Ragueneau, O.](#); [Moriceau, B.](#); [Gallinari, M.](#); [Passow, U.](#); [Dittert, N.](#): DIATOMS AND CARBON FLUXES TO THE OCEAN INTERIOR
- 18:30 [Manganini, S. J.](#); [Krishfield, R.](#); [Francois, R.](#); [Honjo, S.](#): INVESTIGATION OF MULTI-BIOGENIC ELEMENTS IN SETTLING PARTICLES TO THE OCEANIC INTERIOR TOWARD UNDERSTANDING OF GLOBAL BIOLOGICAL PUMP
- 18:45 [Fisher, N. S.](#); [Buesseler, K. O.](#): HOW PLANKTON AFFECT CARBON TO THORIUM RATIOS IN SINKING PARTICLES
- 19:00 [Cochran, J. K.](#); [Armstrong, R.](#); [Miquel, J. C.](#); [Fowler, S. W.](#); [Masque, P.](#): NONSTEADY STATE MODELING OF THORIUM-234 IN TIMES SERIES SEDIMENT TRAP AND WATER COLUMN PROFILES IN THE MEDITERRANEAN
- 19:15 [Stewart, G. M.](#); [Cochran, J. K.](#); [Masque, P.](#); [Armstrong, R. A.](#); [Xue, J. H.](#); [Lee, C.](#); [Wakeham, S. G.](#); [Miquel, J. C.](#); [Fowler, S. W.](#): PARTICLE COMPOSITION AND POLONIUM-210 AND LEAD-210 CONTENT IN THE MEDFLUX STUDY: IMPLICATIONS FOR THE USE OF PO AS A TRACER OF PARTICLE FLUX

RS01: Fish Ecology

Chair(s): [Franz Uiblein](#), [franz@lmr.no](#)

Location: Palacio de Congresos y Exposiciones de Galicia

146. [Carol, J.](#); [Alcaraz, C.](#); [Benejam, L.](#); [Benito, J.](#); [Garcia-Berthou, E.](#): GILLNET SELECTIVITY AND ITS RELATIONSHIP WITH BODY SHAPE FOR EIGHT FRESHWATER FISH SPECIES

RS07: Chemical Interactions

Chair(s): N/A

Location: Palacio de Congresos y Exposiciones de Galicia

1. [Kottelat, R.](#); [Vignati, D.](#); [Dominik, J.](#): COMPARISON BETWEEN LARGE SCALE AND MINIATURIZED TANGENTIAL FLOW FILTRATION SYSTEMS FOR DISSOLVED ORGANIC CARBON AND METAL SIZE SPECIATION

SS03: Trace Metal Cycling in Aquatic Environments

Chair(s): [Antonio Tovar-Sanchez](#), [antonio.tovar@uib.es](#)
[Sergio A. Sañudo-Wilhelmy](#), [ssanudo@notes.cc.sunysb.edu](#)

Location: Palacio de Congresos y Exposiciones de Galicia

2. [Tovar-Sanchez, A.](#); [Sañudo-Wilhelmy, S. A.](#); [Kustka, A. B.](#); [Agusti, S.](#); [Dachs, J.](#); [Duarte, C. M.](#); [Chen, Y.](#); [Siefert, R. L.](#): TRACE METAL COMPOSITION OF TRICHODESMIUM SPP. IN THE TROPICAL ATLANTIC OCEAN: IMPACT OF THE SAHARAN DUST DEPOSITION VS. AMAZON RIVER DISCHARGE
3. [Santana-Casiano, J. M.](#); [Gonzalez-Davila, M.](#); [Millero, F. J.](#): OXIDATION OF FE(II) IN SEAWATER
4. [Hidalgo-Casaneuva, G.](#); [Hay, A. G.](#); [Hu, Z.](#); [Houston, P.](#); [Shuler, M. L.](#); [Ghiorse, W. C.](#); [Abruña, H.](#); [Lion, L. W.](#): ZINC VISUALIZATION IN ESCHERICHIA COLI PHL628 PJB427 BIOFILMS
5. [Bacardit, M.](#); [Camarero, L.](#): EFFECTS OF THE TEMPERATURE ON THE BIOGEOCHEMICAL CYCLING OF TRACE ELEMENTS IN HIGH MOUNTAIN LAKE ECOSYSTEMS IN THE PYRENEES
6. [Lin, S.](#); [Lim, Y.](#); [Hsieh, I.](#): FATE OF SUSPENDED SEDIMENT TRACE METALS FROM SMALL ASIAN ISLAND RIVERS TO THE CONTINENTAL SHELF NEAR TAIWAN
7. [Plavsjic, M.](#); [Cosovic, B.](#); [Gasparovic, B.](#); [Sakellari, K.](#); [Karavoltsos, S.](#); [Scollos, M.](#): COPPER COMPLEXATION WITH ORGANIC LIGANDS IN THE SELECTED ENVIRONMENTS OF THE COASTAL SEAS
8. [Al-Rshaidat, M. M.](#); [Villareal, T. A.](#); [Singer, H.](#); [Sherrill, R. M.](#); [McKay, R. M.](#): IRON AUTOECOLOGY OF THE VERTICALLY MIGRATING DIATOMS ETHMODISCUS AND RHIZOLENIA IN THE CENTRAL NORTH PACIFIC (CNP) GYRE
9. [Yévenes-Burgos, M. A.](#); [Huerta-Díaz, M. A.](#): TRACE METAL BIOGEOCHEMISTRY IN MICROBIAL MATS FROM A HIPERSALINE ENVIRONMENT, GUERRERO NEGRO, MÉXICO: FRIENDS OR FOES OF METALS?
10. [Choi, M. S.](#); [Yi, H. I.](#): SOURCES IDENTIFICATION OF METAL POLLUTANTS IN MARINE AEROSOLS OVER THREE KOREAN SEAS USING TRACE METALS AND PB ISOTOPE RATIOS
11. [Cobelo-García, A.](#); [Millward, G. E.](#); [Prego, R.](#); [Lukashin, V.](#): A LOOK ON METAL DISTRIBUTION IN A DISTINCTIVE MARINE ENVIRONMENT: KANDALAKSHA BAY, WHITE SEA (RUSSIA)
12. Cancellation
13. [Gary Stern, A.](#); [Robie Macdonald, W.](#); [Felyue Wang, .](#); [Dan Leitch, .](#): BIOGEOGRAPHIC PROVINCES OF HG IN THE BEAUFORT AND CHUKCHI SEAS: RESULTS FROM THE SHEBA DRIFT
14. [Gawel, J. E.](#); [Sage, M. D.](#); [Burdick, S. M.](#); [Tollefson, M.](#): ARSENIC DISTRIBUTION AND MOBILITY IN URBAN LAKES IN THE SOUTH-CENTRAL PUGET SOUND REGION, WASHINGTON, USA
15. [Bengtsson, G.](#); [Picado, F. J.](#): TRANSPORT AND DISTRIBUTION OF MERCURY IN A GOLD MINER'S RIVER
16. [Fillela, M.](#): THE EFFECT OF PHYSICAL AND CHEMICAL HETEROGENEITY OF NATURAL COMPLEXANTS ON TRACE METAL COMPLEXATION IN AQUATIC SYSTEMS
17. [Huerta-Díaz, M. A.](#); [Rivera-Duarte, I.](#); [Sañudo-Wilhelmy, S. A.](#); [Flegal, A. R.](#): SIZE FRACTIONATION OF PORE WATER TRACE ELEMENTS: IMPLICATIONS FOR METAL MASS TRANSPORT ACROSS THE SEDIMENT-WATER INTERFACE
18. [Salo, M.](#); [Takeda, S.](#); [Furuya, K.](#): CONTROL OF IRON BIOAVAILABILITY TO PHYTOPLANKTON BY FORMATION OF ORGANIC LIGANDS THROUGH MICROZOOPLANKTON GRAZING
19. [Rubio, B.](#); [León, I.](#); [Méndez, G.](#); [Vilas, F.](#): SOLUBILITY OF HEAVY METALS DURING CONTROLLED AEROBIC OXIDATION OF ANOXIC SEDIMENTS
20. [Simonucci, C. A.](#); [Viollier, E.](#); [Metzger, E.](#); [Jézéquel, D.](#); [Sarazin, G.](#); [Prévoit, F.](#); [Elbaz-Poulichet, F.](#): URANIUM CYCLE IN THAU LAGOON SEDIMENT (MICROBENT PROGRAM)
21. [Roussiez, V.](#); [Ludwig, W.](#); [Probst, J. L.](#); [Charmasson, S.](#); [Monaco, A.](#): TRACKING LAND-TO-SEA TRANSFER OF SEDIMENTS AND ASSOCIATED HEAVY METALS IN THE GULF OF LIONS (NW MEDITERRANEAN), BASED ON 133CS NORMALIZATION
22. [Fitzwater, S. E.](#); [Elirod, V. A.](#); [Johnson, K. S.](#); [Plant, J. N.](#): RESUSPENSION OF IRON ENRICHED CONTINENTAL SHELF SEDIMENTS TO MONTEREY BAY AS A SOURCE FOR PHYTOPLANKTON UPTAKE AND CARBON ASSIMILATION
23. [Metzger, E.](#); [Jézéquel, D.](#); [Elbaz-Poulichet, F.](#); [Simonucci, C.](#); [Viollier, E.](#); [Sarazin, G.](#); [Prévoit, F.](#): INFLUENCE OF REDOX FLUCTUATIONS ON CADMIUM CYCLE IN A MEDITERRANEAN LAGOON (MICROBENT PROGRAM)
24. [Shostell, J. M.](#); [Harston, W. D.](#): AN EVALUATION OF AUTO SALVAGE YARDS AS SOURCES OF HEAVY METALS AND EFFECTS ON FISH MORTALITY AND GROWTH RATE
25. [Pelallo-Martínez, N. A.](#); [Lara-Castro, R. H.](#); [Alfaro-De la Torre, M. C.](#); [Castro-Larragolia, J.](#): ARSENIC GEOCHEMISTRY IN AQUATIC CONTAMINATED SYSTEMS OF A SEMIARID CLIMATE MINING AREA
26. [Weeks, D. A.](#): DETERMINATION OF THE INORGANIC SPECIATION OF IRON IN SEAWATER

^(*) represents Tutorial presentations

SS05: Biogeochemistry of Tropical Rivers

Chair(s): Michael McClain, michael.mcclain@fiu.edu
Jay Brandes, brandes@utmsi.utexas.edu

Location: Palacio de Congresos y Exposiciones de Galicia

27. Castillo, M. M.; Allan, J. D.; Kling, G. W.: EFFECTS OF ENSO ON CONCENTRATIONS AND EXPORT OF NUTRIENTS, CARBON, AND SUSPENDED SOLIDS IN RIVERS OF THE ORINOCO BASIN
28. Triska, F. J.; Pringle, C. M.; Duff, J. H.; Avanzino, R. J.; Ardon, M.: SRP TRANSPORT IN THE SALTO RIVER, A TROPICAL VOLCANIC LANDSCAPE IN COSTA RICA
29. Ramos-Escobedo, M. G.; Vázquez, G.; Equihua, M. E.: LAND USES INFLUENCE AT DIFFERENT SCALES ON CHEMISTRY AND EPILITHIC PRODUCTIVITY OF STREAMS DRAINING COFRE DE PEROTE AND PICO THE ORIZABA VOLCANOES, IN MEXICO
30. Richey, J. E.: COUPLING OF BIOGEOCHEMICAL AND HYDROLOGICAL CYCLES IN THE AMAZON RIVER:

SS06: Fate and Effects of Terrestrial DOM in Aquatic Ecosystems

Chair(s): Jan Karlsson, jan.karlsson@eg.umu.se
Morten Søndergaard, msondergaard@bi.ku.dk

Location: Palacio de Congresos y Exposiciones de Galicia

201. Sandroni, S. D.; Raimbault, R. B.; Garcia, G. R.; Gouze, G. Z.; Migon, M. G.: IMPORTANCE OF DIAZOTROPHY AND DRY ATMOSPHERIC INPUTS OF NITROGEN IN NUTRIENT BUDGET OF THE WESTERN MEDITERRANEAN SEA
202. Tzortziou, M. A.; Neale, P. J.; Gallegos, C. L.; Osburn, C. L.; Herman, J. R.; Megonigal, P. J.: SOURCES AND CYCLING OF CHROMOPHORIC DISSOLVED ORGANIC MATERIAL IN THE ESTUARINE WATERS OF THE RHODE RIVER SUB-ESTUARY AND THE CHESAPEAKE BAY
203. Vázquez, E.; Butturini, A.; Romani, A. M.; Sabater, F.: DYNAMICS AND FATE OF DISSOLVED ORGANIC CARBON ACROSS NEAR STREAM INTERFACE. RELEVANCE OF ANTECEDENT HYDROLOGICAL CONDITIONS.
204. Ferraro, M. A.; Morris, D.; Zagarese, H. E.; Hargreaves, B.; Soto, D.; De Los Rios, P.; Jaramillo, J.; Pérez, A. P.; Anón Suárez, D. A.: VARIABILITY IN THE RATE OF CDOM PHOTOBLEACHING AND ITS CONTROL IN LAKES
205. Jonsson, A.; Aberg, J.: PELAGIC CARBON FLUXES IN A SUBARCTIC BIRCH FOREST LAKE
206. Sledmon, C. A.; Markager, S.; Tranvik, L.: AVAILABILITY OF DISSOLVED ORGANIC NITROGEN TO MARINE MICROBES.
207. Aberg, J.; Naas, J.; Jonsson, A.: NET PRODUCTION OF CO₂ IN THE SEDIMENTS OF A SMALL SUBARCTIC LAKE - SPATIAL AND TEMPORAL VARIATIONS DURING A SUMMER SEASON
208. Vila-Escalé, M.; Vegas Villarubia, T.; Prat Fornells, N.: POLYCYCLIC AROMATIC HYDROCARBON INPUTS INTO A MEDITERRANEAN STREAM (SPAIN) AFTER A FOREST FIRE
209. Moreno Luis, L. B.; Bengtsson Göran, G.: SEDIMENT AGE AND SOURCE HAS DIFFERENT IMPACT ON C AND N MINERALIZATION
210. Di Lonardo, S. S.; Wehr, J. D.; Perrone, A. A.: MECHANISMS OF STIMULATION AND INHIBITION OF FRESHWATER BACTERIOPHAGOCYTIC PRODUCTION AS INFLUENCED BY DIFFERENT TREE SPECIES POC
211. Linden, L. G.; Brookes, J. D.; van Leeuwen, J. A.; Ganf, G. G.: CHANGES IN MICROBIAL SUBSTRATE DEGRADATION AND ASSIMILATION DURING AN INFLOW EVENT IN MYPONGA RESERVOIR, SOUTH AUSTRALIA.

SS07: Applied Ecosystem-level Research to Reverse Coral Reef Degradation

Chair(s): Michael J. Dowgiallo, michael.dowgiallo@noaa.gov
Felix A. Martinez, felix.martinez@noaa.gov

Location: Palacio de Congresos y Exposiciones de Galicia

147. Dodge, R. E.; Banks, K.; Gilliam, D. S.; Walker, B. K.; Shaul, R.: SCIENCE, MANAGEMENT, AND CONSERVATION GAPS AND OPPORTUNITIES: CORAL REEF INJURIES RESULTING FROM A LARGE-SHIP ANCHORAGE
148. Quinn, T. P.; Fahy, E. G.; Dodge, R. E.; Spieler, R. E.: MITIGATION OF A S.E. FLORIDA (U.S.A.) CORAL REEF DAMAGED BY THE GROUNDING OF A NUCLEAR SUBMARINE; RESULTS OF A HYPOTHESES-BASED, MULTIVARIATE RESTORATION STUDY
149. Cancellation
150. Cancellation

SS08: Carbon and Carbonate Fluxes in the Coastal Ocean

Chair(s): Jean-Pierre Gattuso, gattuso@obs-vlfr.fr
Fred T. Mackenzie, fredm@soest.hawaii.edu

Location: Palacio de Congresos y Exposiciones de Galicia

212. Cancellation
213. Padin, X. A.; Navarro, G.; Perez, F. F.; Rios, A. F.: ESTIMATED SURFACE CO₂ FLUXES IN THE BAY OF BISCAY USING EMPIRICAL RELATIONSHIP AND REMOTE SENSING DATA
214. Rabouille, C.; Dedieu, K.; Thouzeau, G.; Chauvaud, L.; Clavier, J.; Jean, F.; Mesnage, V.; Ogier, S.: BENTHIC O₂ DISTRIBUTION AND DYNAMICS IN A MEDITERRANEAN LAGOON: IN-SITU MICROELECTRODE ST
215. MARTIN, S.; CLAVIER, J.; THOUZEAU, G.; CHAUVAUD, L.; JEAN, F.: BENTHIC CARBON AND CARBONATE FLUXES IN THE BAY OF BREST, FRANCE
216. Varela, R.; Guzman, L.; Muller-Karger, F. E.: THE PRIMARY PRODUCTION CYCLE AT THE CARIACO TIME-SERIES STATION, 1998-2003
217. Huertas, I. E.; Navarro, G.; Rodríguez-Galvez, S.; Lubian, L. M.: TEMPORAL PATTERNS OF CO₂ IN RELATION TO PRIMARY PRODUCTION IN THE NORTHEASTERN SHELF OF THE GULF OF CADIZ. ROLE OF PHYTOPLANKTON COMMUNITY IN THE CO₂ EXCHANGE
218. Slomp, C. P.; Van Cappellen, P.: THE GLOBAL MARINE PHOSPHORUS CYCLE: SENSITIVITY TO OCEANIC CIRCULATION AND SEALEVEL CHANGE
219. Schmeltz, M.; Chao, Y.; Choi, J. K.; Bosc, E.; Carr, M. E.; DiGiacomo, P.; Gruber, N.; Frenzel, H.; Holt, B.; Salawitch, R.: COMPARISON BETWEEN A COUPLED PHYSICAL-BIOGEOCHEMICAL MODEL AND SATELLITE AND IN-SITU DATA IN A COASTAL CARBON FLUX STUDY
220. Laperal, P. E.; Godol, R.; Harlay, J.; Aerts, K.; Chou, L.; daro, N.: PHYTOPLANKTON AND ZOOPLANKTON DIVERSITIES IN THE NORTHERN BAY OF BISCAY DURING A COCCOLITHOPHORE BLOOM
221. Artigas, L. F.; Ternon, J. F.; Baklouti, M.; Do Rosario Marinho, I.; Guiral, D.; Thyssen, M.; Beker, B.: BIOGEOCHEMICAL INFLUENCE OF THE AMAZON WATERS ON THE GUIANAS SHELF: PHYTOPLANKTON AND BACTERIOPHAGOCYTIC SHORT-TERM VARIABILITY DURING A NBC RETROFLEXION PERIOD

SS09: Interactive Effects of Multiple Stressors on Aquatic Ecosystems

Chair(s): Rolf Vinebrooke, rolf@ualberta.ca

Location: Palacio de Congresos y Exposiciones de Galicia

151. Delgado-Molina, J. A.; Bullejos, F. J.; Medina-Sánchez, J. M.; Villar-Argaiz, M.; Ramos-Rodríguez, E.; Carrillo, P.: THE EFFECTS OF UV RADIATION AND LIMITING NUTRIENTS ON PHYTOPLANKTON AND MICROBIAL LOOP
152. Culbertson, J. B.; Vallela, I.; Peacock, E. E.; Reddy, C.; Carter, A.: LONG-TERM EFFECTS OF PETROLEUM HYDROCARBONS ON THE SALT MARSH FIDDLER CRAB, UCA PUGNAX
153. Teixeira, P.; Almeida, S. E.; Ferreira da Silva, E. A.; Patinha, C. A.: THE EFFECTS OF ACIDIC MINE DRAINAGE ON EPILITHIC DIATOM DIVERSITY AND MORPHOLOGY, LOUSAL MINE, SOUTHWEST PORTUGAL
154. Behra, R.; Robinson, C. T.; Navarro, E.: EFFECT OF COPPER, CADMIUM AND A COMBINATION OF BOTH ON METAL ACCUMULATION AND SPECIES COMPOSITION IN FRESHWATER PERIPHYTON
155. Berglund, O.; Nyström, P.: INTRODUCED SPECIES AND PERSISTENT ORGANIC POLLUTANTS - INTERACTIVE EFFECTS ON NATIVE SPECIES?
156. Pascoal, C.; Cassio, F.; Gomes, P.: LEAF LITTER BREAKDOWN AND DECOMPOSER COMMUNITIES ALONG A GRADIENT OF POLLUTION IN THE AVE RIVER, NORTHWESTERN PORTUGAL

SS10: Coastal Pollution: From Molecular Biology Based Genome Sensing to Real Time Ocean Sensing

Chair(s): Sunny Jiang, sjiang@uci.edu
Stanley Grant, sbgrant@uci.edu

Location: Palacio de Congresos y Exposiciones de Galicia

157. Servais, P.; Henry, A.; Garcia-Armisen, T.; Lepeuple, A. S.; Lebaron, P.: REAL-TIME MONITORING OF E. COLI NUMBERS IN WATERS.
158. Corral, E.; Blanco, R. M.; Urgorri, V.; Cristobo, F. J.: CHANGES IN THE COMMUNITY STRUCTURE IN ROCKY COMMUNITIES IN UPPER INTERTIDAL ASSOCIATED TO CHTHAMALUS SPP. IN WEST GALICIAN COAST AFTER THE PRESTIGE OIL SPILL
159. Candás, M.; Rios, P.; Urgorri, V.: STUDY OF THE BIOREMEDIATION EFFECT ON THE INTERTIDAL COMMUNITIES AFFECTED BY THE PRESTIGE OIL SPILL. APPLICATION TO SORRIZO BEACH (GALICIA)

(*) represents invited presentations

160. Blanco, R. M.; Corral, E.; Urgorri, V.; Cristobo, F. J.: CHANGES IN THE INTERTIDAL COMMUNITIES OF BARNACLES (CIRRIPIEDIA) IN ROCKY SHORE IN THREE LOCATIONS OF THE GALICIAN COAST (NW SPAIN) AFTER THE PRESTIGE OIL SPILL
161. Frazer, T. K.; Moline, M. A.; Schofield, O.; Reinfelder, J. R.; Glenn, S. M.; Chant, R. J.; Houghton, R. W.; Chen, R. F.; Zhou, M.; Bissett, W. P.; Wilkin, J.L.: PHYTOPLANKTON PRODUCTION, MICRO-ZOOPLANKTON GRAZING AND METALS IN A BUOYANT RIVER PLUME
162. Henry, M. F.; Harrison, P. J.: THE EFFECTS OF NUTRIENT LOADING FROM POWER PLANT COOLING-WATER DISCHARGES ON THE PHYTOPLANKTON DYNAMICS OF PORT MOODY ARM, BRITISH COLUMBIA, CANADA.
163. Choi, S.; Jiang, S.: REAL-TIME PCR QUANTIFICATION OF HUMAN ADENOVIRUSES IN URBAN RIVERS INDICATES STRONG SEASONAL VARIABILITY AND LOW INFECTIVITY

SS14: Nutrient Return Pathways to the Upper Ocean and Their Climate Sensitivity on Decadal to Centennial Time Scales

Chair(s): Andreas Oschlies, andreas.oschlies@soc.soton.ac.uk

Jorge L. Sarmiento, jls@princeton.edu

Location: Palacio de Congresos y Exposiciones de Galicia

88. Brix, H.; Gruber, N.: CARBON AND NUTRIENT BUDGET VARIABILITY IN SUBTROPICAL MODE WATERS — A MODEL SENSITIVITY STUDY
89. Schmittner, A.: NUTRIENT RETURN PATHWAYS IN A GLOBAL MODEL OF THE MARINE ECOSYSTEM
90. Getzlaff, J.; Oschlies, A.; Eden, C.: DIAGNOSING EFFECTIVE DIAPYCNAL MIXING RATES AND ASSOCIATED DIAPYCNAL NUTRIENT FLUXES IN Z-COORDINATE OCEAN CIRCULATION MODELS
91. Lehahn, Y.; Levy, M.; Andre, J.; Memery, L.; Heifetz, E.; Loisel, H.: PRODUCTION IN THE REGION OF SUBPOLAR MODE WATER FORMATION: A STUDY BASED ON SEAWIFS CHLOROPHYLL AND OGCM MIXED LAYER DEPTH
92. Cancellation
93. Olafsson, J.; Drange, H.; Olafsdottir, S. R.: OBSERVATIONS AND MODEL RESULTS ADDRESSING THE WINTER SURFACE MIXED LAYER AND NUTRIENT MIXING IN THE IRMINGER AND ICELAND SEAS
94. Lenton, A. A.; Matear, R. J.: CAN PCO2 OBSERVATIONS CONSTRAIN SOUTHERN OCEAN CO2 FLUX?
95. Oschlies, A.; Nurser, A. J.; Sinha, B.; Yool, A.: MODE-WATER PATHWAYS OF NUTRIENT SUPPLY TO THE SURFACE WATERS IN A MEDIUM-RESOLUTION OGCM

SS19: Ecosystem Level Approach in Environmental Assessments of Maricultures

Chair(s): Kenny Black, Kenny.Black@sams.ac.uk

Marianne Holmer, holmer@biology.sdu.dk

Location: Palacio de Congresos y Exposiciones de Galicia

164. Porrello, S.; Persia, E.; Tomassetti, P.; Mercatali, I.; Gennaro, P.: INFLUENCE ON SEDIMENT RESULTING FROM TWO MARINE FISH FARMS WITH DIFFERENT HYDRODYNAMIC REGIME: CHEMICAL INDICATORS
165. Marín, A.; Sanz Lázaro, C.: BENTHIC RECOVERY AFTER OPEN FISH FARMING ABATEMENT. APPLYING THE DIVERSITY-STABILITY HYPOTHESIS TO A MARINE ECOSYSTEM
166. Tomassetti, P.; Porrello, S.; Persia, E.; Mercatali, I.; Gennaro, P.; Marusso, V.; Vani, D.: DISTURBANCE RESULTING FROM TWO MARINE FISH FARMS WITH DIFFERENT HYDRODYNAMIC REGIME: BIOLOGICAL INDICATORS
167. Laurent, C. D.; Telt, P.; Fernandes, T. F.; Gilpin, L. C.: MODELLING AND OBSERVING THE ECOSYSTEM IMPACT OF MARICULTURE IN A SMALL FJORD
168. Pastres, R.; Giovanardi, O.; Brigolin, D.; Pranovi, F.; Prioli, G.: OFF-SHORE MUSSEL CULTURE ALONG THE WESTERN ADRIATIC COAST: A COMPARISON AMONG DIFFERENT MANAGEMENT STRATEGIES
169. Beardsley, C.; Moss, S. M.; Azam, F.: FEED-SHRIMP-MICROBE INTERACTIONS IN RECIRCULATING AQUACULTURE SYSTEMS (RAS)

SS23: The Urban Coast: A Growing World-Wide Trend

Chair(s): Russell Moll, rmoll@ucsd.edu

Linda Duguay, duguay@usc.edu

Location: Palacio de Congresos y Exposiciones de Galicia

170. Vila, M.; Masó, M.; Garcés, E.; Sampedro, N.; Romo, J.; Camp, J.: BARCELONA HARBOUR: PHYTOPLANKTON COMPOSITION CHANGES (1995-2003) ASSOCIATED WITH ENVIRONMENTAL RESTORATION
171. Martin, D.; Gacia, E.; MacPherson, E.; Satta, M. P.: LOW CRESTED COASTAL DEFENCE SYSTEMS IN THE CATALAN-COAST (NW MEDITERRANEAN): HOW THEY COMPARE WITH NATURAL SHORES?
172. Sampedro, N.; Flo, E.; Vila, M.; Masó, M.; Flos, J.; Torres, M. d.; Camp, J.: HARBOR WATERS IN THE NORTHWESTERN MEDITERRANEAN COMPARED WITH OPEN COASTAL WATERS
173. Fourqurean, J. W.; Duarte, C. M.; Marba, N.; Ruiz, S.: SURVEY OF ELEMENTAL CONTENT AND STABLE ISOTOPES IN POSIDONIA OCEANICA AND CYMODOCEA NODOSA FROM THE BALEARIC ISLANDS, SPAIN.

SS25: Identification and Quantification of Major Feed-backs of Ocean Biology to Climate Change

Chair(s): Dieter Wolf-Gladrow, dwolf@awi-bremerhaven.de

Marion Gehlen, gehlen@cea.fr

Location: Palacio de Congresos y Exposiciones de Galicia

96. Sachs, O.; Sauter, E. J.; Schlüter, M.; Wiltshire, K. H.; Aberle, N.; Peeken, I.; Assmy, P.; Stumm, K.; Bathmann, U.; Strass, V. H.: BENTHIC FLUXES IN THE REGION OF THE POLAR FRONT IN THE EAST ATLANTIC SECTOR OF THE SOUTHERN OCEAN DURING AUSTRAL FALL 2004

SS26: Respiration in Aquatic Ecosystems: Current Understanding and Future Directions

Chair(s): Peter J. Le B. Williams, pljw@bangor.ac.uk

Paul A. del Giorgio, del_giorgio.paul@uqam.ca

Location: Palacio de Congresos y Exposiciones de Galicia

222. Yoshie, N.; Yamanaka, Y.: PROCESSES CAUSING THE TEMPORAL CHANGES IN SI/N RATIOS OF NUTRIENT CONSUMPTION AND EXPORT FLUX DURING THE SPRING DIATOM BLOOM
223. Bock-Larsen, S.: KEY DETERMINANTS FOR THE NET CO2 BALANCE OF LAKES
224. Arbones, B.; Alonso-Perez, F.; Figueiras, F. G.; Pardo, P. C.; Teixeira, I. G.; Crespo, B. G.; Padin, X. A.; Castro, C. G.: METABOLIC BALANCE OF MICROPLANKTON COMMUNITY IN THE UPWELLING SYSTEM OF RIA DE VIGO (NW IBERIAN PENINSULA)

SS27: Biomineralized Tissues in Marine and Freshwater Organisms

Chair(s): Beatriz Morales-Nin, beatriz.morales@uib.es

Erlend Moksness, moksness@imr.no

Location: Palacio de Congresos y Exposiciones de Galicia

174. Lorrain, A.; Barats, A.; Paulet, Y. M.; Chauvaud, L.; Amouroux, A.; Pécuyer, C.; André, L.: HIGH RESOLUTION BA/CA PROFILES IN THE SHELLS OF THE CALCITIC BIVALVE PECTEN MAXIMUS
175. Chauvaud, L.; Paulet, Y. M.; Guarini, J. M.: SHELL DAILY GROWTH RATE ALTERATIONS IN THE SCALLOP PECTEN MAXIMUS: EVIDENCE OF NON-TOXIC DIATOM BLOOM NEGATIVE INVOLVEMENT

SS28: Copper: A Micronutrient or Toxic Element in the Environment?

Chair(s): María T. Maldonado, mmaldonado@eos.ubc.ca

James W. Moffett, jmoffett@whoi.edu

Location: Palacio de Congresos y Exposiciones de Galicia

31. Avellan, C. T.; Freeman, D. C.: COPPER SULFATE AS A STRESSOR FOR ELODEA CANADENSIS
32. Kráng, A. S.; Ekerholm, M.: BEHAVIOURAL RESPONSE OF SHORE CRAB CARCINUS MAENAS (L.) TO FOOD AND FOOD ODOUR STIMULI FOLLOWING COPPER EXPOSURE

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33. [Andrade, S.](#); Contreras, L.; Moffett, J. W.; Correa, J. A.: KINETICS OF COPPER UPTAKE AND ACUMULATION UNDER OXIDATIVE STRESS CONDITIONS IN A MACROALGA EXPOSED TO A COPPER MINE TAILING-POLLUTED AREA
34. [Chen, Y.](#); Rios, J. V.; Walsh, E. J.: COPPER DETOXIFICATION BY METALLOTHIONEINS IN ROTIFERS?
35. [Fitzmaurice, A. G.](#); Voelker, B. M.: A TEMPORAL AND SPATIAL ANALYSIS OF KINETICALLY INERT COPPER IN BOSTON HARBOR

SS29: Atmospheric Deposition of Nutrients, Organic Carbon and Pollutants as a Driver of Marine and Limnic Ecosystems

Chair(s): Steven J. Eisenreich, steven.eisenreich@jrc.it
Jordi Dachs, jdmqam@cid.csic.es

Location: Palacio de Congresos y Exposiciones de Galicia

36. [Jurado, E.](#); Dachs, J.; Simó, R.: ATMOSPHERIC DEPOSITION OF INDIVIDUAL ORGANIC COMPOUNDS AND TOTAL AEROSOL ORGANIC CARBON TO THE GLOBAL OCEANS
37. [Meijer, S. N.](#); [Dachs, J.](#); Grimalt, J. O.: THE ROLE OF ATMOSPHERIC DEPOSITIONAL AND INTERNAL CYCLING PROCESSES IN THE ACCUMULATION OF PERSISTENT ORGANIC POLLUTANTS IN LAKES
38. [Del Vento, S.](#); Nelson, R. K.; Frysinger, G. S.; Gaines, R. B.; Dachs, J.; Reddy, C. M.: CHARACTERIZING ATMOSPHERIC INPUTS OF ORGANIC CARBON TO THE NORTH-EAST SUBTROPICAL ATLANTIC OCEAN
39. [Morales-Baquero, R.](#); Pulido-Villena, E.; Reche, I.: ATMOSPHERIC INPUTS OF PHOSPHORUS AND NITROGEN TO SOUTHWEST MEDITERRANEAN REGION: BIOGEOCHEMICAL RESPONSE OF HIGH MOUNTAIN LAKES
40. [Romera, O.](#); Pérez-Martínez, C.; Morales-Baquero, R.: CUANTIFICACION AND ORIGIN ANALYSIS OF ATMOSPHERIC DEPOSITION OVER THREE SPANISH RESERVOIRS
41. [Paytan, A.](#); Street, J. H.; Chen, Y.; Labiosa, R. G.; Chase, Z.; Faul, K.; Golan, D.; Post, A.: ATMOSPHERIC DEPOSITION AN IMPORTANT SOURCE OF NUTRIENTS TO THE GULF OF AQABA, RED SEA
42. [Street, J. H.](#); Paytan, A.; Chen, Y.; Labiosa, R.; Ginder-Vogel, M.; Chase, Z.; Faul, K.; Resing, J.; Golan, D.; Post, A. F.: TEMPORAL VARIABILITY IN ATMOSPHERIC DUST COMPOSITION, SOURCE REGION AND DEPOSITION FLUX TO THE GULF OF AQABA, RED SEA
43. [Gelado, M. D.](#); Hernández, J. J.; Rodríguez, M. J.; Collado, C.; Llinás, O.; Rueda, M. J.; Brito de Azevedo, E.: DUST DEPOSITION FLUXES TO NORTHEASTERN SUBTROPICAL ATLANTIC (CANARY ISLANDS)
44. [Tsapakis, M.](#); Apostolaki, M.; Stephanou, E. G.: STUDY OF ATMOSPHERIC DEPOSITION PROCESSES OF PAHS IN THE EASTERN MEDITERRANEAN BASIN
45. [Detres, Y.](#); Morris, V.; Lozada, A. R.; Armstrong, R.: MASS CONCENTRATION AND DEPOSITION OF IRON AND CARBON ACROSS THE ATLANTIC OCEAN DURING A SAHARAN DUST STORM

SS33: Estuaries as Biogeochemical Reactors

Chair(s): Kenneth Mopper, kmopper@odu.edu
Elizabeth C. Minor, eminor@odu.edu

Location: Palacio de Congresos y Exposiciones de Galicia

46. [García-Sánchez, M. P.](#); Olive, I.; Brun, F. G.; de los Santos, C. B.; Hernandez, I.; Perez-Llorens, J. L.; Vergara, J. J.: COUPLING BETWEEN PLANT MORPHOMETRY, MEADOW FEATURES AND ENVIRONMENTAL VARIATIONS IN SEAGRASS BEDS FROM THE CADIZ BAY NATURAL PARK (SW OF SPAIN)
47. [Prego, R.](#); Cobelo-García, A.; DeCastro, M.: TRACE METAL FLUXES IN A RIVER-RIA-OCEAN SYSTEM: THE FERROL RIA (NW IBERIAN PENINSULA)
48. [Loh, A. N.](#); Bauer, J. E.; Canuel, E. A.: DISSOLVED AND PARTICULATE ORGANIC MATTER SOURCE-AGE CHARACTERIZATION IN RIVER AND ESTUARINE OUTFLOW WATERS: A COMBINED ISOTOPE AND BIOCHEMICAL APPROACH

SS35: Alternative Pathways of Nitrogen Removal From the Sea

Chair(s): Stefan Hulth, stefan.hulth@chem.gu.se
Nils Risgaard-Petersen, nri@dmu.dk
Tage Dalsgaard, tda@dmu.dk

Location: Palacio de Congresos y Exposiciones de Galicia

49. [Risgaard-Petersen, N.](#); Meyer, R. L.; Schramm, A.; Revsbech, N. P.: ANAEROBIC AMMONIUM OXIDATION AND THE MICRO DISTRIBUTION OF NITRITE IN SEDIMENTS
50. [Rao, A. M.](#); Jahnke, R. A.: NITROGEN CYCLING IN PERMEABLE CONTINENTAL SHELF SEDIMENTS ON THE SOUTH ATLANTIC BIGHT

51. [Li, Y. H.](#); Menviel, L.; Peng, T. H.: NITRATE DEFICITS BY NITRIFICATION AND DENITRIFICATION PROCESSES, PART I: INDIAN OCEAN
52. [Schubert, C. J.](#); Durisch-Kaiser, E.; Kuypers, M. M.; Thamdrup, B.; Wehrli, B.: ANAEROBIC AMMONIUM OXIDATION (ANAMMOX) IN A FRESH WATER SYSTEM (LAKE TANGANYIKA)

SS39: Ecological Thresholds of Sustainability in Aquatic Ecosystems

Chair(s): Michael F. Piehler, mpiehler@email.unc.edu
Hans Paerl, hans_paerl@unc.edu
Daniel Conley, dco@dmu.dk

Location: Palacio de Congresos y Exposiciones de Galicia

176. [Rosselli, G.](#); Bartoli, M.; Nizzoli, D.; Tavernini, S.; Viaroli, P.: DEFINITION OF CRITERIA FOR THE MANAGEMENT OF WATER QUALITY IN QUARRY LAKES: CASE STUDIES IN THE PO RIVER FLOODPLAIN, NORTHERN ITALY
177. Cancellation
178. [Romo, S.](#); Villena, M. J.: NUTRIENT THRESHOLDS FOR MACROPHYTE AND ALGAL STATES IN A SHALLOW MEDITERRANEAN LAKE
179. [Guerrero, E.](#); Jiménez-Melero, R.; García-Muñoz, E.; Parra, G.: IMPACT OF AGRICULTURE ON MEDITERRANEAN WETLANDS: THE EFFECT OF PESTICIDES ON ZOOPLANKTON AND AMPHIBIAN POPULATIONS

SS40: Nutrient Transformations Along the Land-ocean Continuum in the Context of Global Change

Chair(s): Phillip Ford, Phillip.Ford@csiro.au
Caroline Slomp, slomp@geo.uu.nl
Ragueneau Olivier, olivier.ragueneau@univ-brest.fr

Location: Palacio de Congresos y Exposiciones de Galicia

97. van der Zee, C.; [Chou, L.](#); Carboneel, V.; Tsagaris, M.; Roevros, N.: FLUXES AND TRANSFORMATIONS OF PHOSPHORUS SPECIES IN THE SCHELDT ESTUARY AND ITS TRIBUTARIES
98. [Almroth, E.](#); Tengberg, A.; Andersson, H.; Hall, P.: INFLUENCE OF RESUSPENSION ON BENTHIC NUTRIENT AND OXYGEN FLUXES - IN SITU STUDIES IN THE BALTIC SEA
99. [KHALIL, K.](#); Rabouille, C.; Ragueneau, O.; Gallinari, M.; DeMaster, D. J.; Soetaert, K.: MODELLING THE RECYCLING OF SEDIMENT BIOGENIC SILICA WITH 1D MODELS
100. [Rebreanu, L.](#); Carboneel, V.; De Bodt, C.; Petit, J.; Tsagaris, M.; Chou, L.: BIOGENIC SILICA DISTRIBUTION IN THE SEDIMENTS OF THE SCHELDT CONTINUUM
101. [Chevalier, E.](#); Diaconu, C.; Korntheuer, M.; Van Damme, S.; Maris, T.; De Brabandere, L.; Baeyens, W.; Dehairs, F.; Vanderborght, J. P.: EVOLUTION OF THE BIOGEOCHEMICAL PROCESSING OF CARBON IN THE SCHELDT ESTUARY: A SEVEN YEAR TIME SERIES
102. [Bernárdez, P.](#); Prego, R.; Francés, G.: BIOGENIC SILICA IN A RIA SYSTEM AFFECTED BY UPWELLING
103. [Swaney, D. P.](#); Howarth, R. W.; Galford, A. E.; Boyer, E. W.; Goodale, C. L.; Marino, R. M.: MODELLING DISCHARGE AND NITROGEN FLUXES FROM LARGE WATERSHEDS IN THE NORTHEASTERN UNITED STATES

SS47: Autotrophic and Heterotrophic Relationships in Streams and Rivers

Chair(s): Bill Sobczak, wsozczak@holycross.edu
Sergi Sabater, sergi.sabater@udg.es

Location: Palacio de Congresos y Exposiciones de Galicia

225. Enrich-Prast, A.; [Marotta, H.](#); Esteves, F. A.: NUTRIENT INPUT INFLUENCE ON THE CARBON DIOXIDE SATURATION: A WHOLE TROPICAL ECOSYSTEM APPROACH
226. [Vieira, AAH.](#); Antonio, R. M.; Bianchini Jr, I.: PRODUCTION OF HUMIC SUBSTANCES-LIKE COMPOUNDS (HSLC) FROM FRESHWATER MICROALGAL EXTRACELLULAR POLYSACCHARIDES
227. [FUJINO/TAKESHI, F. T.](#); ASAEDA/TAKASHI, A. T.; NAKAJIMA/TAKASHI, N. T.; AUNG/NANDA, A. N.: ORGANIC MATTER RETENTION AND ITS DISTRIBUTION IN LOW DISCHARGE STREAM
228. [Warnaars, T. A.](#); Hondzo, M.; Power, M. E.: PERIPHYTON ABUNDANCE AND DISTRIBUTION AS A FUNCTION OF DRAINAGE AREA AND FLUVIAL FLOW CONDITIONS.

(* represents Invited presentations)

SS50: Ecology of Aquatic Pathogens in a Changing Environment

Chair(s): Alexandra Z. Worden, aworden@rsmas.miami.edu
Stefan Bertilsson, stebe@ebc.uu.se

Location: Palacio de Congresos y Exposiciones de Galicia

180. Reinoso, R.; Bécáres, E.: OCCURRENCE OF PARASITES CYSTS IN LAKES WITH DIFFERENT LEVEL OF EUTROPHICATION
181. Stenberg, J.; Gonzalez-Rey, C.; Göransson, J.; Nilsson, M.; Bertilsson, S.: APPLICATION OF PADLOCK PROBE AND CIRCLE-TO-CIRCLE AMPLIFICATION TECHNOLOGY TO THE DETECTION OF AQUATIC VIBRIOS
182. Güde, H.: ORIGIN, DISTRIBUTION AND FATE OF FECAL BACTERIA IN A PREALPINE LAKE (LAKE CONSTANCE)
183. Papa, S.; Falcioni, T.; Manti, A.; Campana, R.; Battistelli, M.; Baffone, W.: FLOW CYTOMETRIC APPLICATION TO THE STUDY OF MORPHOLOGICAL AND PHYSIOLOGICAL CHANGES IN VIBRIO PARAHAEOLYTICUS DURING SURVIVAL IN THE MARINE ENVIRONMENT.
184. Torres-Alvarado, M. R.; Zuñiga-Centeno, B.; Gutiérrez-López, B.; Varona-Cordero, F.: VARIABILITY OF BACTERIAL INDICATORS AND PATHOGENS IN A TROPICAL COASTAL LAGOON ECOSYSTEM
185. Smruga, S. P.; Azam, F.: VIBRIO CHOLERAE HYDROLYTIC ENZYME ACTIVITY IN RESPONSE TO ORGANIC SUBSTRATES

SS53: Polar Aquatic Ecosystems and Environmental Change

Chair(s): Carles Pedrós-Alió, cpedros@cmima.csic.es

John C. Priscu, jpriscu@montana.edu

Warwick F. Vincent, warwick.vincent@bio.ulaval.ca

Location: Palacio de Congresos y Exposiciones de Galicia

104. Blais, J. M.; Keatley, B.; Kimpe, L. E.; Mallory, M.; Douglas, M.; Smol, J. P.: SEABIRDS ARE IMPORTANT VECTORS FOR TRANSPORTING NUTRIENTS AND CONTAMINANTS TO COASTAL PONDS ON DEVON ISLAND, NUNAVUT, ARCTIC CANADA
105. Bélanger, S.; Xie, H.; Babin, M.; Vincent, W. F.; Larouche, P.: PHOTOCHEMICAL DEGRADATION OF COLORED DISSOLVED ORGANIC MATTER IN ARCTIC COASTAL WATERS: POSSIBLE IMPACTS OF ENVIRONMENTAL CHANGE
106. Vendrell, B.; Gili, J. M.; Gasol, J. M.; Sabater, F.: HOW DO BENTHIC ANTARCTIC COMMUNITIES IMPACT NEAR-BOTTOM WATER LAYER PROPERTIES?
107. Garneau, M. E.; Alonso-Saez, L.; Lovejoy, C.; Vincent, W. F.: PROKARYOTIC COMMUNITY STRUCTURE AND HETEROTROPHIC PRODUCTION IN A RIVER-INFLUENCED, COASTAL ARCTIC ECOSYSTEM
108. Unanue, M. A.; Azua, I.; Gasol, J. M.; Pedrós-Alió, C.; Iriberrí, J.: BACTERIAL ACTIVITY AND ENANTIOMERIC AMINO ACID COMPOSITION IN THE ATLANTIC SECTOR OF THE SOUTHERN OCEAN
109. Forsström, L. J.; Sorvari, S.; Korhola, A.: SEASONALITY OF PHYTOPLANKTON IN SUBARCTIC LAKE SAANAJÄRVI NW FINNISH LAPLAND
110. Primo, C.; Vázquez, E.: BIOGEOGRAPHICAL ELEMENTS OF THE ANTARCTIC ASCIDIAN FAUNA
111. Latasá, M.; Scharek, R.: PHYTOPLANKTON GROWTH AND MORTALITY AS MEASURED BY DILUTION EXPERIMENTS DURING A FE-INDUCED PHYTOPLANKTON BLOOM IN THE SOUTHERN OCEAN (EIFEX)
112. Cancellation
113. Rahm, L.; Sahlberg, J.: LIGHT LIMITATION OF PRIMARY PRODUCTION IN HIGH ALTITUDE ALPINE RESERVOIRS
114. Retamal, L.; Bonilla, S.; Vincent, W. F.: OPTICAL, PIGMENT AND PRIMARY PRODUCTION GRADIENTS IN THE MACKENZIE RIVER AND COASTAL SHELF, WESTERN CANADIAN ARCTIC
115. Rico, E.; Toro, M.; Camacho, A.; Rochera, C.; Fernandez, E.; Quesada, A.: INVERTEBRATE COMMUNITIES OF FRESHWATER ECOSYSTEMS IN BYERS PENINSULA, LIVINGSTON ISLAND, ANTARCTICA
116. Rochera, C.; Camacho, A.; Vincent, W. F.; Rico, E.; Fernandez-Valiente, E.; Toro, M.; Quesada, A.: PHOTOSYNTHETIC MICROBIAL BIOFILMS IN THE WATERFALL OF AN ANTARCTIC STREAM
117. Barry, J. P.; Grebmeier, J. M.; Dunbar, R. B.; Smith, J.; Osborn, K.: BENTHIC COMMUNITY RESPONSES TO CLIMATE AND UPPER OCEAN VARIABILITY IN THE SW ROSS SEA, ANTARCTICA
118. Muir, D.; Lim, D. S.; Antoniadou, D.; Douglas, M. S.; Evans, M.; Jackson, T.; Kling, H.; Smol, J. P.; Wang, X.; Yang, F.: INVESTIGATING LINKAGES BETWEEN CLIMATE WARMING AND MERCURY IN ARCTIC AND SUB-ARCTIC LAKE SEDIMENTS
119. Fernández-Valiente, E.; Rico, E.; Camacho, A.; Rochera, C.; Quesada, A.: CYANOBACTERIAL MATS IN ANTARCTIC NON-MARINE AQUATIC ECOSYSTEMS. UNIFYING THE DIVERSITY

120. Quesada, A.; Toro, M.; Camacho, A.; Rochera, C.: CATASTROPHIC BREAK UP OF ICE DAMS IN ANTARCTIC LAKES
121. Toro, M.; Camacho, A.; Rochera, C.; Rico, E.; Banón, M.; Fernández, E.; Marco, E.; Avendano, C.; Ariosa, Y.; Quesada, A.: LIMNOLOGY OF FRESHWATER ECOSYSTEMS OF BYERS PENINSULA, LIVINGSTON ISLAND (SOUTH SHETLAND ISLANDS, ANTARCTICA)
122. Saggiomo, V.; Mangoni, O.; Modigh, M.; Saggiomo, M.: IMPLICATIONS OF PROLONGED ICE COVERAGE IN THE ROSS SEA, (ANTARCTICA) ON PHYTOPLANKTON ASSEMBLAGES
123. Poulain, A. J.; Garcia, E.; Amyot, M.; Ariya, P. A.: HG DYNAMICS IN SNOW AND MELTWATERS ON CORNWALLIS ISLAND, NU, CANADA
124. Striegl, R. G.; Aiken, G. R.: CLIMATE WARMING IMPACTS ON CARBON EXPORT BY THE YUKON RIVER
125. Dorland, R. D.; Zhou, M.: CIRCULATION AND ZOOPLANKTON TRANSPORT DURING THE AUSTRAL FALL IN GEORGE VI SOUND, ANTARCTIC PENINSULA
126. Kimura, S.; Ban, S.; Imura, S.; Kudoh, S.; Matsuzaki, M.: EFFECT OF ENVIRONMENTAL GRADIENT ON STRUCTURE OF MICROBIAL COMMUNITIES IN ANTARCTIC LAKES AROUND SYOWA OASIS

SS54: Production of the Odours Geosmin and MIB in Freshwater

Chair(s): Niels O. G. Jorgensen, nogj@kvl.dk

Michele Burford, m.burford@griffith.edu.au

Location: Palacio de Congresos y Exposiciones de Galicia

186. Klausen, C. M.; Jorgensen, N. O.: OCCURRENCE OF THE ODOURS GEOSMIN AND MIB IN DANISH AQUACULTURES
187. Zaitlin, B.; Watson, S. B.: ACTINOMYCETES AS A MAJOR SOURCE OF AQUATIC TASTE AND ODOUR: A COMPLEX ISSUE.
188. GUASCH, H.; VILALTA, E.; MUÑOZ, I.; ROMANI, A.; SABATER, S.: CAUSES OF GEOSMIN PRODUCTION IN LOTIC SYSTEMS. THE CASE OF THE LLOBREGAT RIVER

SS57: Eutrophication, Macroalgal Blooms and Coastal Ecosystem Services

Chair(s): Just Cebrian, jcebrian@diel.org

Nuria Marba, nuria.marba@uib.es

Location: Palacio de Congresos y Exposiciones de Galicia

189. Kraufvelin, P.; Christie, H.; Bokn, T. L.; Moy, F.: NUTRIENT ADDITION TO EXPERIMENTAL ROCKY SHORE COMMUNITIES: DELAYED RESPONSES, RAPID RECOVERY
190. Hubas, C.; Davoult, D.: EFFECTS OF MACROALGAL MATS ON ANNUAL PRIMARY PRODUCTION AND RESPIRATION DURING LOW TIDE IN INTERTIDAL SEDIMENTS (ROSCOFF ABER BAY, FRANCE, PRELIMINARY RESULTS)
191. Schygula, C. T.; Schubert, H.: MACROALGAE SUCCESSION ON ARTIFICIAL SUBSTRATA AT THE SOUTHERN BALTIC COAST (GERMANY)
192. Rubach, A.; Eriksson, B. K.; Hillebrand, H.: BIOTIC HABITAT COMPLEXITY CONTROLS NET BIOMASS PRODUCTION AND SPECIES DIVERSITY IN A ROCKY SHORE COMMUNITY
193. van Bergeijm, S. A.; Corzo, A.: SEASONAL VARIATION OF CARBON AND NUTRIENT FLUXES IN INTERTIDAL GREEN MACROALGAE: A FIELD MICROCOSM STUDY
194. Lee/Jae Seong, L.; Kim/Kee Hyun, .; Kim/Seong Soo, .; Jung/Rae Hong, .; Lee/Pil-Yong, .; Lee/Won Chan, .; Choi/Woo Jung, .: THE ASSESSMENT OF TROPIC STATE AND THE IMPORTANCE OF BENTHIC BOUNDARY LAYER IN THE SOUTHERN COAST OF KOREA

SS63: Chemical Characterization of Dissolved Organic Matter in Aquatic Systems

Chair(s): Georgina Spyres, spyres@imcs.rutgers.edu

Alexandra Gogou, agogou@ath.hcmr.gr

Location: Palacio de Congresos y Exposiciones de Galicia

53. Barazzuol, L. N.; Gelinás, Y.; Mucci, A.: THE RELATIONSHIP BETWEEN THE DIAGENETIC CYCLES OF REDUCIBLE IRON AND MANGANESE OXIDES AND DISSOLVED ORGANIC CARBON (DOC)
54. Fujiwara/Kitao, K.; Ishige/Yuko, Y.; Taigo/Sunao, S.; Kumata/Hidetoshi, H.: SOLAR-INDUCED DECOMPOSITION OF POLYCYCLIC AROMATIC HYDROCARBONS IN AQUATIC MEDIA

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55. Nieto-Cid, M.: Álvarez-Salgado, X. A.; Pérez, F. F.: MICROBIAL AND PHOTOCHEMICAL REACTIVITY OF HUMIC SUBSTANCES IN A COASTAL UPWELLING SYSTEM
56. Tsuchida, N.: Honda, Y.; Kumata, H.; Fujiwara, K.: DISTRIBUTION AND THEIR REMOVAL OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) IN ESTUARY REGION
57. Klauser, L.; Schubert, C. J.; Wehrli, B.: DISTRIBUTION OF AMINO SUGARS IN THE OXIC AND ANOXIC WATER COLUMN OF LAKE LUGANO, SWITZERLAND
58. Male, N.; Miyoshi, T.; Jaffé, R.: Chemical Characteristics of High Molecular Weight DOM in an Oligotrophic Subtropical Wetland: Influence of Vegetation, Geomorphology, and Seasonality
59. ZERI, C.; KATSOURAS, G.; DASSENAKIS, E.; SCOULLOS, M. J.: SEAWATER CARBOHYDRATE CONCENTRATIONS IN TWO EASTERN MEDITERRANEAN GULFS
60. Charriere, B.; Tedetti, M.; Sempere, R.; Joux, F.; Abboudi, M.; Wagner, E.; Kawamura, K.; Miller, W.; Mopper, K.: IMPACT OF ULTRAVIOLET RADIATION ON DISSOLVED ORGANIC MATTER CYCLING BY BACTERIA IN COASTAL MEDITERRANEAN SEA
61. Koch, B. P.; Witt, M.; Engbrodt, R.; Dittmar, T.; Kattner, G.: MOLECULAR FORMULAE OF REFRACTORY MARINE AND TERRIGENOUS DISSOLVED ORGANIC MATTER DETECTED BY FOURIER TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY
62. Heath, R. T.; Hansen, D.: ADENOSINE-TRIPHOSPHATE (ATP) AS A SOURCE OF C AND P TO BACTERIOPLANKTON IN A TEMPERATE HARDWATER LAKE
63. Cancellation
64. Gasparovic, B.; Plavsic, M.; Cosovic, B.; Boskovic, N.; Reigstad, M.: SURFACE-ACTIVE AND ACIDIC PROPERTIES OF ORGANIC MATTER AND FOLIC ACID DETERMINATION IN THE NORTHERN POLAR REGION DURING SUMMER 2004
65. Almeida Adelaide, M. A.; Cunha Angela, M. A.; Santos Luisa, L.; Malatkova Brona, B.; Santos Eduarda, E.: EFFECT OF ORGANIC MATTER COMPOSITION ON BACTERIAL ACTIVITY DISTRIBUTION DOWN THE WATER COLUMN OF A SHALLOW ESTUARINE SYSTEM.
66. Vojvodic, V.; Bura-Nakic, E.; Cocovic, B.: CHARACTERIZATION OF MARINE SURFACE ACTIVE ORGANIC SUBSTANCES FRACTIONATED ACCORDING TO THEIR HYDROPHOBIC-HYDROPHILIC PROPERTIES AND MOLECULAR SIZE

SS65: Human Incentives and Valuation of Aquatic Ecosystems and Their Services

Chair(s): Niels Vestergaard, nv@sam.sdu.dk
Eva Roth, er@sam.sdu.dk

Location: Palacio de Congresos y Exposiciones de Galicia

195. Dubgaard, A.: Ladenburg, J.: ECONOMIC VALUATION OF EXTERNALITIES FROM OFF-SHORE WIND FARMS IN DENMARK

SS66: Ocean & Ice - Atmosphere Interactions Through the Emission of Trace Gases

Chair(s): Patricia A. Matrai, PMatrai@bigelow.org
Rafel Simó, rsimo@icm.csic.es

Location: Palacio de Congresos y Exposiciones de Galicia

127. Avgoustidi, V.; Joint, I.; Nightingale, P.; Steinke, M.; Turner, S.; Liss, P.: WILL DMS PRODUCTION CHANGE IN A DOUBLED CO₂ WORLD?
128. Vila, M.; Del Valle, D.; Slezak, D.; Kiene, R.; Simó, R.: METABOLISM AND IDENTIFICATION OF DMS-CONSUMING BACTERIA IN SEAWATER
129. Lizotte, M.; Levasseur, M.; Scarratt, M. G.; Merzouk, A.; Michaud, S.; Gosselin, M.: DMS PRODUCTION DURING THE SENESCENCE PHASE OF THE SPRING DIATOM BLOOM IN THE NORTH ATLANTIC
130. Franklin, D. J.; Steinke, M.; Probert, I.; Young, J.; Malin, G.: EMILIANA HUXLEYI IS NOT THE ONLY FRUIT: PRODUCTION OF DIMETHYLSULPHONIOPROPIONATE (DMSP) AND DIMETHYL SULPHIDE (DMS) IN COCCOLITHOPHORES (HAPTOPYCEAE)
131. Vila, M.; Simó, R.: PROCESSES, PLAYERS AND FORCINGS IN THE MARINE DMS CYCLE: LESSONS FROM AN ANNUAL TIME SERIES
132. Westby, G. R.; Kleber, D. J.; Bisgrove, J.; Toole, D. A.; Kiene, R. P.; Del Valle, D. A.; Slezak, D.: DIMETHYLSULFIDE PHOTOLYSIS IN ANTARCTIC WATERS
133. Martínez-Arroyo, M. A.; Benítez-Macias, M. A.; Gallegos, A.: ANALYSIS OF THE ROLE OF THE BIOPHYSICAL CONTEXT ON THE OCEAN/ATMOSPHERE DMS SYSTEM IN THE MEXICAN TROPICAL PACIFIC

SS68: Pharmaceuticals in the Aquatic Environment

Chair(s): Miquel Lurling, miquel.lurling@wur.nl

Marieke de Lange, marieke.delange@wur.nl

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196. Gros, M.; Petrovic, M.; Barceló, D.: DEVELOPMENT OF A MULTIRESIDUE METHOD FOR THE ANALYSIS OF PHARMACEUTICAL COMPOUNDS BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY IN SURFACE AND WASTEWATERS
197. Weerman, E.; Sargent, E.; de Lange, H. J.; Roessink, I.; Lurling, M.: EFFECTS OF CARBAMAZEPINE, CLOFIBRIC ACID, DICLOFENAC AND IBUPROFEN ON FRESHWATER PLANKTONIC ORGANISMS
198. Cancellation
199. Cancellation
200. Suarez, S.; Carballa, M.; Omil, F.; Lema, J. M.; Gomez, M.: OCCURRENCE AND FATE OF PHARMACEUTICALS IN THE SEWAGE TREATMENT SYSTEM OF A CITY OF GALICIA, NW SPAIN

SS74: Biogeochemistry of Methane and Carbon Dioxide at High Concentrations

Chair(s): George W. Kling, gwk@umich.edu

Bernhard Wehrli, wehrli@eawag.ch

Location: Palacio de Congresos y Exposiciones de Galicia

67. Stadmark, J.; Leonardson, L.: IMPACT OF TEMPERATURE, NITRATE CONCENTRATION AND SEDIMENT QUALITY ON GREENHOUSE GAS PRODUCTION IN A CONSTRUCTED WETLAND
68. Lucas, F. S.; Aguilar, E.; Kaiser, E.; Mueller, B.; Schubert, C.: VERTICAL DISTRIBUTION OF METHANE-OXIDIZING BACTERIA IN THE WATER COLUMN OF LAKE ROTSEE, SWITZERLAND
69. Roberts, E. E.; Schukraft, G.: METHANE RELEASE FROM A SULFATE-RICH, MAN-MADE LAKE IN THE RHINE GRABEN, SOUTHWEST GERMANY
70. Billett, M. E.; Harvey, F. J.: SUPERSATURATION AND EVASION OF CARBON DIOXIDE AND METHANE FROM STREAMS DRAINING UK PEATLANDS
71. Schmid, M.; Halbwachs, M.; Wuest, A.; Wehrli, B.: INCREASING GAS CONCENTRATIONS IN LAKE KIVU - A LONG-TERM ERUPTION RISK?
72. Guerin, F.; Abril, G.: METHANE OXIDATION IN A TROPICAL RESERVOIR AND ITS RIVER DOWNSTREAM

SS77: Stoichiometric Aspects of Ecology and Evolution in Aquatic Ecosystems

Chair(s): Dag O. Hessen, d.o.hessen@bio.uio.no

Tom Andersen, tom.andersen@bio.uio.no

Location: Palacio de Congresos y Exposiciones de Galicia

229. Liess, A.; Eklöv, P.; Hillebrand, H.; Olsson, J.; Quevedo, M.; Vrede, T.: ECOLOGICAL STOICHIOMETRY AND TROPHIC INTERACTIONS IN FOOD WEBS OF DIFFERENT COMPLEXITY
230. Singer, G. A.; Battin, T. J.: CONSUMER-RESOURCE STOICHIOMETRY IN STREAM INVERTEBRATES: EFFECTS OF ALLOCHTHONOUS INPUTS ON INVERTEBRATE STOICHIOMETRY, BIODIVERSITY AND FOOD CHAIN PROPERTIES
231. Striebel, M.; Spörl, G.; Slibor, H.: LIGHT-NUTRIENT RATIOS AND PHYTOPLANKTON-ZOOPLANKTON DYNAMICS IN LAKES OF DIFFERENT TROPHIC STATUS
232. Vidal, M.; Cauwet, G.; Simó, R.; Emelianov, M.; Naudin, J. J.; Flos, J.: DISSOLVED AND PARTICULATE NITROGEN AND PHOSPHORUS POOLS IN NW MEDITERRANEAN
233. Kyle, M.; Acharya, K.; Weider, L.; Looper, K.; Elser, J. J.: INTER- AND INTRA-SPECIFIC COUPLING OF GROWTH RATE AND BODY STOICHIOMETRY IN DAPHNIA: A ROLE FOR MAINTENANCE PROCESSES?

(*) represents Invited presentations

SS78: Radionuclide Tracers: Contributions to Our Understanding of Freshwater, Estuarine and Marine Processes

Chair(s): Ashanti J. Pyrtle, apyrtle@marine.usf.edu
Joseph Smoak, smoak@stpt.usf.edu

Location: Palacio de Congresos y Exposiciones de Galicia

73. [Alvarez-Iglesias, P.](#); Quintana, B.; Rubio, B.; Perez-Arluca, M.: PB-210 AND CS-137 DATING ON INTERTIDAL SEDIMENTS: SAN SIMON BAY (INNER RIA DE VIGO, NW SPAIN)
74. [Carroll, J.](#); Zaborska, A.; Papucci, C.; Pempkowiak, J.: SEDIMENT BURIAL PROCESSES IN AN ARCTIC MARGINAL SEA
75. [Flower, R. J.](#); Appleby, P. G.; Ramdani, M.; Rose, N.: SOME RADIOMETRIC DATING ISSUES AND RECENT SEDIMENT CORES FROM SHALLOW LAKES AND COASTAL LAGOONS IN THE SOUTH MEDITERRANEAN REGION
76. [Ithier, W.](#); Pyrtle, A.: DETERMINING THE PRESENCE OF ANTHROPOGENIC RADIONUCLIDES IN PUERTO RICO: PRELIMINARY RESULTS
77. [Hillaire-Marcel, C.](#); [Pons-Branchu, E.](#); Ghaleb, B.; Williams, B.; Sinclair, D.: U-SERIES SYSTEMATICS IN DEEP CORALS (238U-234U-230TH-226RA-210PB): IMPLICATIONS FOR THEIR TRACE-ELEMENT STUDY AND DATING

SS80: Impacts of Climate Change and Other Drivers of Change on Freshwater Ecosystems

Chair(s): Martin Dokull, martin.dokull@oeaw.ac.at
Charles R. Goldman, crgoldman@ucdavis.edu
Rick Battarbee, rbattarb@geog.ucl.ac.uk
Martin Kernan, mkernan@geog.ucl.ac.uk

Location: Palacio de Congresos y Exposiciones de Galicia

134. [Weyhenmeyer, G. A.](#): TOWARDS NITRATE DEFICIENCY IN SWEDISH LAKES?
135. [Tulonen, T.](#); Arvola, L.; Hakala, I.; Kankaala, P.: TRANSFORMATION AND RETENTION OF NITROGEN IN A BOREAL LAKE IN DIFFERENT HYDROLOGICAL YEARS
136. [de Senerpont Domis, L. N.](#); Mooij, W. M.: RESPONSES TO CLIMATE CHANGE IN SHALLOW LAKES: MATCH/MISMATCH OF SPECIES INTERACTIONS
137. [Altuna, M.](#); Camarero, L.: MAJOR BIOGEOCHEMICAL PROCESSES IN TWO MOUNTAIN CATCHMENTS AFFECTED BY HOLOCENE ENVIRONMENTAL CHANGES: A CHEMICAL STRATIGRAPHY STUDY OF LAKE SEDIMENTS
138. [Valiranta, M. M.](#): LONG-TERM CHANGES IN AQUATIC PLANT SPECIES COMPOSITION IN NORTH-EASTERN EUROPEAN RUSSIA AND FINNISH LAPLAND, EVIDENCED BY PLANT MACROFOSSIL ANALYSIS
139. [Romero, L.](#); Julia, R.; Camacho, A.; Vicente, E.; Miracle, M. R.: RAINFALL PATTERNS IN EASTERN SPAIN DURING THE LAST CENTURIES INFERRED FROM VARVED SEDIMENT OF LAKE LA CRUZ.
140. Cancellation
141. [Weitere, M.](#); Viergutz, C.; Dahmann, J.; Arndt, H.: CONTROL OF MICROBIAL COMMUNITIES BY THE MACROFAUNA: A VULNERABLE SYSTEM IN RESPECT TO CHANGING TEMPERATURE?
142. [Argerich, A.](#); von Schiller, D.; Marti, E.; Sabater, F.; Riera, J. L.; Ribot, M.: THE ROLE OF LEAF LITTER ON STREAM PHOSPHORUS RETENTION AND ITS IMPLICATIONS WITHIN THE CONTEXT OF CLIMATE CHANGE
143. [von Schiller, D.](#); Marti, E.; Argerich, A.; Sabater, F.; Riera, J. L.; Ribot, M.: TEMPORAL VARIABILITY IN NUTRIENT RETENTION IN TWO MEDITERRANEAN STREAMS WITH CONTRASTING LOCAL CLIMATE CHARACTERISTICS
144. [Hall, E. K.](#); Cotner, J. B.: COUPLING OF BACTERIOPANKTON GROWTH AND BIOMASS C:P ACROSS A BROAD RANGE OF TEMPERATURE AND NUTRIENT ENVIRONMENTS
145. [Bade, D. L.](#); Likens, G. E.: DECLINING SULFATE BURIAL IN MIRROR LAKE

SS84: Multi-tracer Approaches Toward Understanding Particle Fluxes and Dynamics in the Sea

Chair(s): Stuart Wakeham, stuart@skio.peachnet.edu
Pere Masque, Pere.Masque@uab.es
Juan-Carlos Miquel, j.c.miquel@iaea.org
Robert Armstrong, armstrong@notes.cc.sunysb.edu

Location: Palacio de Congresos y Exposiciones de Galicia

78. Cancellation
79. [Lamborg, C. H.](#); Buesseler, K. O.; Valdes, J.; Trull, T.; Bishop, J. K.; Casciotti, K. L.; Pike, S. M.; Andrews, J. E.; Manginini, S. J.; Bertrand, C.: PARTICULATE ELEMENT FLUXES AND RECYCLING DURING VERTIGO '04: PRELIMINARY RESULTS
80. [Speicher, E. A.](#); Moran, S. B.; Delfanti, R.; Kaberi, E.; Papucci, C.; Stavrakakis, S.; Zervakis, V.: SIZE-FRACTIONATED POC/234TH RATIOS AND POC EXPORT FLUXES IN THE TYRRHENIAN AND AEGEAN SEAS
81. [Cardinal, D.](#); Savoye, N.; Jacquet, S. H.; André, L.; Wolf-Gladrow, D.; Dehairs, F.: SILICON ISOTOPES, 234THORUM AND MESOPELAGIC BARIUM TO CONSTRAIN THE DYNAMICS OF A SOUTHERN OCEAN DIATOM BLOOM INDUCED BY IN SITU IRON FERTILIZATION (EIFEX)
82. [Sanchez-Vidal, A.](#); Fabres, J.; Collier, R. W.; Calafat, A.; Canals, M.: PRESENT AND PAST ORGANIC CARBON FLUXES IN A SEMI-ENCLOSED BASIN: A STUDY FROM THE ALBORAN SEA
83. [Zúñiga, D.](#); Heussner, S.; Miserocchi, S.; Calafat, A.; Fabres, J.; Sanchez-Vidal, A.; Canals, M.: COMPOSITION AND SPATIO-TEMPORAL DISTRIBUTION OF PARTICLE FLUXES IN THE ALGERIAN BASIN (WESTERN MEDITERRANEAN SEA)
84. [Goutx, M.](#); Lee, C.; Armstrong, R.; Sempéré, R.; Liu, Z.; Guigue, C.; Duflos, M.; Moriceau, B.; Wakeham, S. G.; Peterson, M.: COMPOSITION AND DEGRADATION OF SINKING PARTICLES WITH DIFFERENT SETTLING VELOCITIES
85. [Verdeny, E.](#); Masqué, P.; Hanfland, C.; Garcia-Orellana, J.; Cochran, J. K.; Miquel, J. C.; Fowler, S. W.: PARTICLE EXPORT FROM OCEAN SURFACE WATERS BY MEANS OF 234TH/238U AND 210PO/210PB DISEQUILIBRIA: A COMPARISON OF TWO RADIOTRACER PAIRS

SS90: Other

Chair(s): N/A

Location: Palacio de Congresos y Exposiciones de Galicia

86. [Raymond, E. H.](#); Widder, E. A.: STEALTH MATTERS: OPENING AN UNOBTUSIVE WINDOW INTO THE DEEP-SEA
87. Cancellation

(^c) represents Tutorial presentations

Thursday, 23 June 2005

SS06: Fate and Effects of Terrestrial DOM in Aquatic Ecosystems

Chair(s): Jan Karlsson, jan.karlsson@eg.umu.se

Morten Søndergaard, msondergaard@bl.ku.dk

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 17:30 Tranvik, L. J.: TERRESTRIAL DISSOLVED ORGANIC MATTER – A HUGE BUT NOT UNLIMITED SUBSIDY TO AQUATIC ECOSYSTEMS-
- 18:00 Roehm, C. L.: del Giorgio, P. A.; Prairie, Y. S.: PCO₂ HETEROGENEITY: INSIGHT TO THE COUPLING OF LAKES AND THEIR WATERSHEDS?
- 18:15 Page, M. L.: Bade, D. L.; Carpenter, S. R.; Cole, J. J.; Kritzbeg, E. S.; Van De Bogert, M. C.: PATHWAYS OF ALLOCHTHONY IN LAKE FOOD WEBS: DOC TO BACTERIA TO ZOOPLANKTON IS NOT THE MAIN ROAD
- 18:30 Berglund, J. M.: Muren, U.; Andersson, A.: INFLUENCE OF THE BASIC RESOURCE ON THE FOOD WEB EFFICIENCY IN A PELAGIC MARINE ECOSYSTEM
- 18:45 Bronk, D. A.: Sanderson, M. P.; See, J. H.: HUMIC SUBSTANCES AS A SOURCE OF NITROGEN TO COASTAL PLANKTON
- 19:00 Algesten, G.: Sobek, S.; Bergström, A. K.; Jonsson, A.; Tranvik, L. J.; Jansson, M.: CONTRIBUTION OF SEDIMENT RESPIRATION TO SUMMER CO₂ EMISSION FROM BOREAL AND SUBARCTIC LAKES
- 19:15 Hultu, E.: Mäkelä, S.; Rantakari, M.; Kankaala, P.; Kortelainen, P.; Ojala, A.; Pajunen, H.; Arvola, L.: CARBON POOLS AND FLUXES IN A CHAIN OF FOUR BOREAL LAKES

SS09: Interactive Effects of Multiple Stressors on Aquatic Ecosystems

Chair(s): Rolf Vinebrooke, rolf@ualberta.ca

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 15:15 Yan, N. D.: Ramcharan, C. W.; Paterson, A. M.; Winter, J. G.; Somers, K. M.; Keller, W. B.; Arnott, S. E.; Molot, L. A.; Gunn, J. M.; Dillon, P. J.: THE NEED FOR AN APPLIED SCIENCE OF MULTIPLE STRESSORS: AN EXAMPLE OF THREE DECADES OF CHANGES IN CANADIAN SHIELD ZOOPLANKTON AND THEIR MANY REGULATORS -
- 15:45 Williamson, C. E.: Saros, J. E.: PLANKTON COMMUNITIES IN ALPINE LAKES AS INDICATORS OF MULTIPLE STRESSES FROM UV RADIATION, TEMPERATURE, AND NITROGEN DEPOSITION*
- 16:00 Vinebrooke, R. D.: DO MULTIPLE STRESSORS HAVE ADDITIVE OR NON-ADDITIVE EFFECTS ON AQUATIC ECOSYSTEMS?
- 16:15 Graham, M. D.: Christensen, M. R.; Vinebrooke, R. D.: INTERACTIVE AND DIRECT EFFECTS OF CLIMATIC VARIABLES ON BOREAL LAKE ECOSYSTEMS: A MESOCOSM EXPERIMENT
- 16:30 Christensen, M. R.: Graham, M. D.; Vinebrooke, R. D.: INTERACTIVE EFFECTS OF DROUGHT, WARMING, AND ACIDIFICATION ON PLANKTONIC COMMUNITIES
- 16:45 Medina-Sánchez, J. M.: Villar-Algaiz, M.; Bullejos, F. J.; Delgado-Molina, J. A.; Carrillo, P.: DOES THE INTERACTION BETWEEN SOLAR RADIATION AND NUTRIENT ENHANCE THE TROPHIC WEB FUNCTIONING IN CLEAR-WATER ECOSYSTEMS?
- 17:30 Gonzalez, M. J.: Knoll, L. B.; Vanni, M. J.: INTERACTIVE EFFECTS OF ELEVATED NUTRIENT AND SUSPENDED SEDIMENT INPUTS ON LARVAL GIZZARD SHAD PERFORMANCE IN RESERVOIRS
- 17:45 Nejrup, L.: Pedersen, M. F.: INTERACTION EFFECTS BETWEEN SALINITY AND SEDIMENT ORGANIC MATTER CONTENT ON EELGRASS (ZOSTERA MARINA) GROWTH
- 18:00 Lenz, M.: Molis, M.; Wahl, M.: EFFECTS OF DISTURBANCE AND NUTRIENT ENRICHMENT ON MARINE HARDBOTTOM COMMUNITIES: RESULTS FROM AN EXPERIMENT WITH A LARGE SCALE REPLICATION
- 18:15 Sobrinho, C.: Neale, P. J.: INTERACTION OF UV-RADIATION AND TEMPERATURE IN THE INHIBITION OF PHOTOSYNTHESIS: SPECTRAL AND TEMPORAL RESPONSES OF AN ESTUARINE DIATOM
- 18:30 Steel, E. A.: Feist, B. E.; Jensen, D. W.: LINKAGES BETWEEN CLIMATE, GEOLOGY, LAND-USE AND PACIFIC SALMON SPAWNING HABITAT
- 18:45 Rios Arana, J. V.: Walsh, E. J.; Ortiz, M.; Gardea-Torresdey, J. L.: INTEGRATING LIFE HISTORY AND MOLECULAR RESPONSES TO ARSENIC AND HEAVY METALS IN A BASAL CONSUMER (ROTIFERA: PLATIONUS PATULUS) IN A RIVERINE FOOD WEB
- 19:00 Schiedek, D.: Pfeifer, S.; Hambach, B.; Kube, S.: EFFECT OF SALINITY ON CONTAMINANT RESPONSES IN BIVALVES FROM THE BALTIC SEA
- 19:15 Salas, E.: Patrício, J.; Pardal, M.; Marques, J. C.: IMPACT OF EUTROPHICATION AND RIVER MANAGEMENT AND TRENDS IN ECOSYSTEM'S SERVICES IN THE MONDEGO ESTUARY (PORTUGAL).

SS11: Biodiversity, Biogeochemistry and Trophic Interactions: The Braid of Pelagic Microbial Ecology

Chair(s): Farooq Azam, fazam@ucsd.edu

Fereidoun Rassoulzadegan, rassoul@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 12:15 Dalby, A. P.: Kormas, A. K.; Christaki, U.; Moutsaki, P.: HETEROTROPHIC NANOFAGELLATE PREDATION ON HYDROCARBON-DEGRADING BACTERIA IN CRUDE OIL POLLUTED MARINE ENVIRONMENTS
- 12:30 David, V.: Santour, B.; Chardy, P.: PLANKTONIC TROPHIC INTERACTIONS IN A TURBID ESTUARY, GIRONDE ESTUARY, FRANCE
- 12:45 Iglesias-Rodríguez, M. D.: Frommlet, J. C.; Treviño-Santa Cruz, M. B.: INTRASPECIFIC GENETIC AND PHYSIOLOGICAL VARIABILITY IN NATURAL POPULATIONS OF BIOLUMINESCENT DINOFLAGELLATES
- 13:00 Kent, A. D.: Watras, C. J.; Eckley, C.; Regnell, O.; McMahon, K. D.; Hintelmann, H.: MICROBIAL COMMUNITY COMPOSITION AND MERCURY METHYLATION IN THE ANOXIC HYPOLIMNIA OF STRATIFIED WISCONSIN LAKES
- 13:15 Sonntag, B.: Summerer, M.; Sommaruga, R.: ADAPTATIVE ROLE OF MYCOSPORINE-LIKE AMINO ACIDS (MAAS) IN THE DYNAMICS OF CHLORELLA-BEARING CILIATES FROM LAKE PLANKTON
- 13:30 Tadonléké, R. D.: DO KEYSTONE SPECIES EXIST WITHIN THE PLANKTONIC MICROBIAL FOOD WEBS ?
- 13:45 Sala, M. M.: Balagué, V.; Pedrós-Alió, C.; Massana, R.; Felipe, J.; Arin, L.; Illoul, H.; Estrada, M.: PHYLOGENETIC AND FUNCTIONAL DIVERSITY OF BACTERIOPANKTON DURING TOXIC DINOFLAGELLATE BLOOMS

SS18: The Consequences of Biodiversity in Aquatic Habitats

Chair(s): Per Jonsson, perjonsson@tmbl.gu.se

Helmut Hillebrand, helmut.hillebrand@uni-koeln.de

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 12:15 Hillebrand, H.: BIODIVERSITY AFFECTS ECOSYSTEM FUNCTIONING – AN AQUATIC PERSPECTIVE
- 12:30 Fox, J. W.: THE PRICE (EQUATION) OF BIODIVERSITY LOSS
- 12:45 Gamfeldt, L.: Hillebrand, H.; Jonsson, P. R.: SPECIES RICHNESS CHANGES ACROSS TWO TROPHIC LEVELS SIMULTANEOUSLY AFFECT PREY AND CONSUMER BIOMASS
- 13:00 Næslund, B.: Norberg, J.: ECOSYSTEM CONSEQUENCES OF THE REGIONAL SPECIES POOL
- 13:15 Matthiessen, B.: Hillebrand, H.: THE INFLUENCE OF LOCAL DIVERSITY AND DISPERSAL FREQUENCY ON LOCAL PRODUCTIVITY IN AN OPEN MARINE SYSTEM
- 13:30 Middelboe, A. L.: Binzer, T.: IMPORTANCE OF CANOPY STRUCTURE ON PHOTOSYNTHESIS IN SINGLE- AND MULTI-SPECIES ASSEMBLAGES OF MARINE MACROALGAE.
- 15:15 Krumins, J. A.: Long, Z. T.; Steiner, C. F.; Morin, P. J.: EFFECTS OF FOOD WEB DIVERSITY AND PRODUCTIVITY ON BACTERIALLY MEDIATED DECOMPOSITION
- 15:30 Aberle, N.: Gohse-Reimann, S. S.; Jaschinski, S.; Wiltshire, K. H.; Brendelberger, H.; Sommer, U.: EFFECTS OF WATER COLUMN NUTRIENTS AND GRAZER DIVERSITY ON A SEAGRASS-EPIPHYTE-MICROPHYTOBENTHOS COMMUNITY WITHIN AND BENEATH A ZOSTERA MARINA MEADOW
- 15:45 Mazumder, A.: AQUATIC BIODIVERSITY AND ITS CONSEQUENCES FOR WATER QUALITY AND HEALTH
- 16:00 Ragnarsson, H.: Eklov, P.; Holmgren, K.: FISH SPECIES RICHNESS IN SWEDISH LAKES – THE IMPORTANCE OF REGIONAL- AND LOCAL-SCALE PROCESSES
- 16:15 Bécares, E.: Garcia-Criado, F.; Fernández-Aláez, C.; Jeppesen, E.; Jensen, J. P.; Hansson, L. A.; Gyllström, M.; Romo, S.; Miracle, M. R.; Nöges, P.; Nöges, T.; Stephen, D.; Moss, B.; Van de Bund, W.; Van Donk, E.; De Eyto, E.; Irvine, K.; Tesch, C.; Gross, E.; Nykänen, M.; Kalresalo, T.; Peczuła, W.; Kornijow, R.: EFFECTS OF NUTRIENTS AND CLIMATIC GRADIENTS ON COMMUNITY RICHNESS IN EUROPEAN SHALLOW LAKES
- 16:30 Muylaert, K.: Pérez-Martinez, C.; Sánchez-Castillo, P.; Lauridsen, T.; Declerck, S.; Jeppesen, E.; Zwart, G.; Conde-Porcuna, J. M.; De Meester, L.; Vyverman, W.: PHYTOPLANKTON DIVERSITY IN SHALLOW LAKES FROM 3 EUROPEAN REGIONS
- 16:45 Knight, E. P.: Watling, L.; McLellan, M. C.: THE EFFECTS OF TRAWLING ON BENTHIC HABITATS: AN ANALYSIS OF RECOVERY IN THE WESTERN GULF OF MAINE CLOSURE

(*) represents Invited presentations

SS21: Functional Diversity of the Microzooplankton

Chair(s): Albert Calbet, acalbet@icm.csic.es
Michael R. Landry, mlandry@ucsd.edu

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 17:30 [Stoecker, D.](#): REVIEW: FUNCTIONAL DIVERSITY OF MICROZOOPLANKTON -
- 18:00 [Costas, B. A.](#); McManus, G. B.; Connel, L. B.; Doherty, M.; Katz, L. A.: UNDERSTANDING MICROZOOPLANKTON COMMUNITY STRUCTURE BOTH TEMPORALLY AND SPATIALLY IN LONG ISLAND SOUND USING SPECIES-SPECIFIC MOLECULAR PROBES
- 18:15 [MARQUIS, E.](#); DUPUY, C.: MICROZOOPLANKTON SEASONAL DYNAMIC RELATED TO ENVIRONMENTAL CONDITIONS OF THE BAY OF BISCAY, FRANCE.
- 18:30 [Granda, A. P.](#); Anadon, R.: MICROZOOPLANKTON AS GRAZERS OF PHYTOPLANKTON BLOOMS
- 18:45 [Landry, M. R.](#); Yang, E. J.; Selp, K. E.; Hodges, M.; Bidigare, R. R.: DEPTH-RESOLVED MICROPLANKTON DYNAMICS IN THE EQUATORIAL PACIFIC
- 19:00 [Teixeira, J. G.](#); Crespo, B. G.; Figueiras, F. G.: SEASONAL PATTERNS IN MICROZOOPLANKTON GRAZING IN RIA DE VIGO (NW SPAIN)
- 19:15 [Unrein, E.](#); Gasol, J. M.; Massana, R.: BACTERIVORY BY AUTOTROPHIC FLAGELLATES IN AN OLIGOTROPHIC COASTAL SYSTEM

SS25: Identification and Quantification of Major Feed-backs of Ocean Biology to Climate Change

Chair(s): Dieter Wolf-Gladrow, dwolf@awi-bremerhaven.de
Marion Gehlen, gehlen@cea.fr

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 17:30 [Heinze, C.](#): MARINE BIOLOGICAL CARBON CYCLE CLIMATE FEEDBACKS – DO THEY MATTER OR NOT?–
- 18:00 [Manizza, M.](#); Le Quéré, C.; Watson, A. J.; Buitenhuis, E. T.: UPPER OCEAN PHYTOPLANKTON BIO-HEATING: PRESENT AND FUTURE BIOGEOCHEMICAL FEEDBACKS
- 18:15 Bopp, L.; [Aumont, Q.](#); Gehlen, M.: MODELLING GLOBAL WARMING IMPACT ON OCEAN CARBON UPTAKE : IDENTIFYING NEW FEEDBACKS.
- 18:30 Chuck, A.; [Tyrrell, T.](#); Totterdell, I. J.; Holligan, P. M.: THE OCEANIC RESPONSE TO CARBON EMISSIONS OVER THE NEXT CENTURY: INVESTIGATION USING THREE OCEAN CARBON CYCLE MODELS
- 18:45 [Jacobson, A. R.](#); Schultz, P.; Hiscock, M. R.; Sarmiento, J. L.; Behrenfeld, M. J.: AN INDUCTIVE OCEAN ECOLOGY MODEL BASED ON SATELLITE OBSERVATIONS OF PHYTOPLANKTON CARBON BIOMASS
- 19:00 [LaRoche, J.](#); Mills, M. M.; Langlois, R.; Moore, C. M.; Gelder, R. J.: NUTRIENT LIMITATION OF PRIMARY PRODUCTION AND NITROGEN FIXATION IN THE NORTH ATLANTIC*
- 19:15 [Pahlow, M.](#); Vézina, A. F.; Wright, D. G.; Li, W. K.: MODELING INTERANNUAL VARIABILITY OF CARBON EXPORT IN THE LABRADOR SEA

SS26: Respiration in Aquatic Ecosystems: Current Understanding and Future Directions

Chair(s): Peter J. Le B. Williams, pljw@bangor.ac.uk
Paul A. del Giorgio, del_giorgio.paul@uqam.ca

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 12:15 [Reinthal, T.](#); Herndl, G. J.: BACTERIAL RESPIRATION AND GROWTH EFFICIENCY: A SYSTEM COMPARISON OF OCEANIC SITES
- 12:30 [McCallister, S. L.](#); Guillemette, F.; del Giorgio, P. A.: SOURCES AND AGE OF ORGANIC MATTER FUELING BACTERIAL RESPIRATION IN LAKES AND RIVERS
- 12:45 [Stets, E. G.](#); Cotner, J. B.: GROWING FASTER VERSUS BREATHING HARDER: BACTERIAL RESPONSES TO ORGANIC CARBON ADDITIONS IN DIFFERENT AQUATIC ECOSYSTEMS
- 13:00 [Bocaniov, S. A.](#); Smith, R.; Schiff, S.: AQUATIC RESPIRATION AND PHOTOSYNTHESIS AT EUTROPHIC, OLIGOTROPHIC AND DYSTROPHIC SITES IN COASTAL ZONES OF THE LAURENTIAN GREAT LAKES
- 13:15 [Chen, Y. W.](#); Wu, Q. L.; Hu, Y. H.; Dokulil, M. T.: SIZE-FRACTIONATED PLANKTON COMMUNITY RESPIRATION IN A LARGE SHALLOW EUTROPHIC CHINESE LAKE
- 13:30 [Vidal, L.](#); Bassoli, F.; Roland, F.: LIGHT INDUCING PLANKTONIC RESPIRATION IN TROPICAL BRAZILIAN FRESHWATER ECOSYSTEMS
- 15:15 [Spilmont, N.](#); Hubas, C.; Migné, A.; Boucher, G.; Davoult, D.: INTERTIDAL BENTHIC COMMUNITY RESPIRATION DURING EMERSION: SPATIO-TEMPORAL SCALES OF VARIABILITY ON THE FRENCH COASTS OF THE ENGLISH CHANNEL

- 15:30 [Flosegi, A.](#); Pozo, J.: ENVIRONMENTAL CONTROLS ON AUTOTROPHY AND HETEROTROPHY IN ATLANTIC STREAMS
- 15:45 [Sobczak, W. V.](#); Sabater, S. C.: ECOLOGICAL IMPORTANCE OF AUTOTROPHIC AND HETEROTROPHIC RELATIONSHIPS IN STREAMS AND RIVERS WITH VARYING WATERSHED ATTRIBUTES
- 16:00 [Jiao, N.](#); Zhang, Y.; Du, H.; Zeng, Y.; Hong, N.; Hu, Y.: DUAL NICHE OF AEROBIC ANOXYGENIC PHOTOTROPHIC BACTERIA IN THE SEA
- 16:15 [González, N.](#); Gattuso, J. P.; Middelburg, J.; Nieuwenhuize, J.: PRIMARY PRODUCTION BASED ON DIFFERENT APPROACHES 14C, 18O AND OXYGEN-LIGHT/DARK METHOD.
- 16:30 [Schultz, P.](#); Behrenfeld, M. J.; Jacobson, A. R.; Sarmiento, J. L.: INVESTIGATING THE BALANCE BETWEEN PHYTOPLANKTON GROWTH AND LOSS FROM SPACE
- 16:45 [Duarte, C. M.](#): ELUCIDATING THE METABOLIC BALANCE OF THE OPEN OCEAN: ARE WE ANYWHERE NEAR A CONSENSUS?

SS27: Biomineralized Tissues in Marine and Freshwater Organisms

Chair(s): Beatriz Morales-Nin, beatriz.morales@uib.es
Erlend Moksness, moksness@imr.no

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 12:15 [Limburg, K. E.](#); Walther, Y.; Olson, C.: AGE AND GROWTH OF STONE-AGE VS. MODERN CODFISH, GADUS MORHUA, IN THE BALTIC SEA – OTOLITH ANALYSIS–
- 12:30 [Barats, A.](#); Amouroux, D.; Pécheyran, C.; Chauvaud, L.; Donard, O.: DAILY SCALE RECORD OF MOLYBDENUM (MO) CONCENTRATIONS IN THE CALCITE OF THE GREAT SCALLOP SHELL ‘PECTEN MAXIMUS’: A POTENTIAL PROXY OF DIATOM BLOOM EVENTS?
- 12:45 [Thébault, J.](#); Clavier, J.; Chauvaud, L.; Fichez, R.; Amouroux, D.; Barats, A.: THE SHELL OF THE TROPICAL SCALLOP COMPTOPALLIUM RADULA: ARCHIVES OF SILICEOUS AND CYANOBACTERIAL PELAGIC PRIMARY PRODUCTION?
- 13:00 [Zumholz, K.](#); Hansteen, T. H.; Platkowski, U.; Croot, P. L.: TEMPERATURE AND SALINITY EFFECTS ON TRACE ELEMENT INCORPORATION IN STATOLITHS OF CUTTLEFISH (SEPIA OFFICINALIS)
- 13:15 [Koehler-Rink, S.](#); Grinstain, M.; de Beer, D.; Erez, J.: REGULATION OF CALCITE PRECIPITATION IN BENTHIC PERFORATE FORAMINIFERA
- 13:30 LORRAIN, A.; GILLIKIN, D. P.; [PAULET, Y. M.](#); CHAUVAUD, L.; NAVEZ, J.; LE MERCIER, A.; ANDRE, L.: STRONG KINETICS EFFECTS ON SR/CA RATIOS IN THE CALCITIC BIVALVE PECTEN MAXIMUS

SS32: Diversity Among Components of the Microbial Loop

Chair(s): John Dolan, dolan@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 15:15 [Fenchel, T.](#): ALL PROTISTS ARE EVERYWHERE?–
- 15:45 [Breitbart, M.](#); Angly, F.; Bangor, D.; Casas, V.; Edwards, R.; Felts, B.; Mahaffy, J. M.; McNairnie, P.; Rayhawk, S.; Rodriguez-Brito, B.; Salamon, P.; Sano, E.; Rohwer, F.: DIVERSITY, DISTRIBUTION, AND POPULATION STRUCTURE OF UNCULTURED VIRAL COMMUNITIES
- 16:00 [Pedrós-Alió, C.](#): THE NUMBER OF MICROBIAL SPECIES
- 16:15 [Hagström, Å.](#); Pommier, T.: COSMOPOLITAN MARINE BACTERIOPANKTON.
- 16:30 [de Vargas, C.](#); Falkowski, P. G.: MORPHOGENETIC & FOSSIL DATA IN FORAMS AND COCCOLITHOPHORES: A TEST OF OUR KNOWLEDGE ON SPECIES-LEVEL DIVERSITY, BIOGEOGRAPHY, AND EVOLUTION IN MARINE PROTISTS
- 16:45 [Ward, B. B.](#); Nelson, J. D.; Eviellard, D.; Jackson, G. A.; Kirshtein, J. D.; Voytek, M. A.: AMMONIA-OXIDIZING BACTERIAL COMMUNITY DIVERSITY IN ESTUARINE AND OCEANIC ENVIRONMENTS ASSESSED USING A FUNCTIONAL GENE MICROARRAY
- 17:30 [Proctor, L. M.](#); Kingsbury, D. T.: GORDON AND BETTY MOORE MARINE MICROBIAL GENOME SEQUENCING PROJECT: STATUS REPORT
- 17:45 [Heidelberg, J. E.](#); Nelson, W. C.; Heidelberg, K. B.: COMPARATIVE GENOMICS OF WHOLE ENVIRONMENTAL SHOTGUN ASSEMBLIES AND BAC-CLOSURE DERIVED SAR86 SEQUENCE
- 18:00 [Halpern, A. L.](#); Rusch, D.; Yooshep, S.; Remington, K.; Venter, J. C.: MACRO- AND MICRO-DIVERSITY OF OCEAN MICROBES REVEALED BY ENVIRONMENTAL SHOTGUN SEQUENCING
- 18:15 [Lopez-Garcia, P.](#): PROTIST DIVERSITY AT HYDROTHERMAL VENTS
- 18:30 [Guillou, L.](#): PARASITISM WITHIN ‘NOVEL’ MARINE ALVEOLATES
- 18:45 [Massana, R.](#): DIVERSITY OF MARINE STRAMENOPILES
- 19:00 [Lovejoy, C.](#); Massana, R.; Pedrós-Alió, C.: MICRODIVERSITY OF CHROMISTAN PROTISTS IN COLD OCEANS

(¹) represents Tutorial presentations

19:15 Montagnes, D. J.; Lowe, C. D.; Kemp, S. J.: CLONAL DIVERSITY MATTERS: HIGH LEVELS OF FUNCTIONAL AND GENETIC DIVERSITY OCCUR IN THE MODEL MICROZOOPLANKTON OXYRRHIS MARINA

SS33: Estuaries as Biogeochemical Reactors

Chair(s): Kenneth Mopper, kmopper@odu.edu
Elizabeth C. Minor, emminor@odu.edu

Location: Puerto del Camino Hotel V, Breakout #9

- 15:15 Mopper, K.; Chen, N.; Helms, J. R.; Minor, E. C.: EFFECT OF PH ON THE PHOTOREACTIVITY OF TERRESTRIAL DOM DURING ESTUARINE TRANSPORT-
- 15:30 Minor, E. C.; Pothen, J.; Mopper, K.: EFFECT OF SALINITY ON THE PHOTOREACTIVITY OF TERRESTRIAL DISSOLVED ORGANIC MATTER FROM GREAT DISMAL SWAMP, VA, USA
- 15:45 White, E. M.; Kieber, D. J.; Mopper, K.: PHOTOCHEMICAL TRANSFORMATION OF TERRESTRIAL DISSOLVED ORGANIC MATTER IN THE DELAWARE ESTUARY
- 16:00 Mayer, L. M.; Schick, L. L.; Skorko, K.; Boss, E.: PHOTODISSOLUTION OF PARTICULATE ORGANIC MATTER FROM DELTAIC SEDIMENTS
- 16:15 Cave, R. R.; Jickells, T.; Andrews, J.; Coombes, E. G.; Tappin, A.: ESTUARIES AS FILTERS FOR NUTRIENTS – A CASE STUDY OF THE HUMBER ESTUARY, UK
- 16:30 Commarieu, M. V.; Abril, G.; Anschutz, P.; Guerin, F.; Deborde, J.: SEASONAL VARIABILITY OF OXYGEN AND PCO₂ IN THE GARONNE AND DORDOGNE TIDAL RIVERS, AT THE ENTRANCE OF THE GIRONDE ESTUARINE TURBIDITY MAXIMUM (SW FRANCE)
- 16:45 Deborde, J.; Anschutz, P.; Abril, G.; Chaillou, G.: THE DYNAMICS OF PHOSPHORUS IN TURBID ESTUARINE SYSTEMS: EXAMPLE OF THE GIRONDE ESTUARY (SW-FRANCE)

SS40: Nutrient Transformations Along the Land-ocean Continuum in the Context of Global Change

Chair(s): Phillip Ford, Phillip.Ford@csiro.au
Caroline Slomp, slomp@geo.uu.nl
Ragueneau Olivier, olivier.ragueneau@univ-brest.fr

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 12:15 Seitzinger, S. P.; Harrison, J. H.; Dumont, E.; Bouwman, A. F.; Beusen, A. H.; Caraco, N. F.; Kroeze, C.: GLOBAL SCALE PATTERNS OF NUTRIENT TRANSPORT FROM WATERSHEDS TO COASTAL SYSTEMS: AMOUNT, FORMS AND SOURCES
- 12:30 Lancelot, C.; Billen, G.; Gypens, N.; Garnier, J.; Roubel, V.: TESTING AN INTEGRATED RIVER-OCEAN MATHEMATICAL TOOL TO LINK MARINE EUTROPHICATION TO LAND USE: THE SOUTHERN BIGHT OF THE NORTH SEA OVER THE PAST 50 YEARS
- 12:45 Testa, J. M.; Kemp, W. M.: STOICHIOMETRY OF BIOGEOCHEMICAL FLUXES IN THE PATUXENT RIVER ESTUARY, USA: 1985-2003
- 13:00 Ford, P. W.; Vink, S.; Bormans, J. M.: RIVERINE DISSOLVED SILICA DYNAMICS: FROM CATCHMENT TO SEA IN A LARGE SEMI-ARID CATCHMENT
- 13:15 Carbonnel, V.; Chou, L.; Lionard, M.; Muylaert, K.; Rebreaun, L.; Tzagaris, M.: BIOGEOCHEMICAL TRANSFORMATION OF SILICA ALONG THE SCHELDT CONTINUUM
- 13:30 Sferratore, A.; Garnier, J.; Billen, G.: MODELLING SI CYCLE ALONG THE RIVER CONTINUUM: UPGRADED RIVERSTRAHLER APPROACH
- 15:15 Presti, M.; Michalopoulos, P.: SILICA EARLY DIAGENESIS IN THE MISSISSIPPI RIVER DELTA
- 15:30 Ni Longphuir, S.; Leynaert, A.; Guarini, J. M.; Chauvaud, L.; Ragueneau, O.; Clavier, J.: FUNCTIONING OF SUBTIDAL MICROPHYTOBENTHOS AND THEIR INFLUENCE ON SILICA CYCLING IN AN ESTUARINE SYSTEM
- 15:45 Loucaldes, S.; Van Cappellen, P.; Behrends, T.; Koning, E.; Slomp, C. P.: SURFACE CHARGE DENSITY AND REACTIVITY OF BIOGENIC SILICA: A COUPLED TITRATION-DISSOLUTION APPROACH
- 16:00 Sanderson, M. P.; Bronk, D. A.: INORGANIC AND ORGANIC NITROGEN UPTAKE IN TWO GEORGIA RIVERS
- 16:15 Laruelle, G. G.; Ragueneau, O.; Thouzeau, G.; Leynaert, A.; Chauvaud, L.; Regnier, P.: BENTHIC-PELAGIC COUPLING OF NUTRIENT CYCLES BY FILTER FEEDERS ACTIVITY IN A SEMI-ENCLOSED MARINE ECOSYSTEM
- 16:30 Foullaron, P.; Leynaert, A.; Huonnic, P.; Masson, A.; Thouzeau, G.; L'helguen, S.; Dham, V.; Dham, D.: RESPONSE OF PHYTOPLANKTON DYNAMICS TO THE MODIFICATION OF BENTHIC FLUXES OF N, P AND SI INDUCED BY AN INVASIVE FILTER FEEDER IN THE BAY OF BREST, FRANCE.
- 16:45 Alonso-Perez, E.; Castro, C. G.: FIRST STUDIES ABOUT THE EFFECTS OF MUSSEL RAFT ON THE BENTHIC OXYGEN AND NUTRIENT FLUXES IN THE RIA DE VIGO (NW SPAIN)

SS43: Eutrophication and Harmful Algal Blooms

Chair(s): Edna Granelli, Edna.Granelli@hik.se
Patricia M. Glibert, glibert@hpl.umces.edu

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #12

- 12:15 Granelli, E.; Fistarol, G.; Legrand, C.: THE ROLE OF EUTROPHICATION ON TOXICITY, ALLELOPATHY AND MIXOTROPHY IN HABTS-
- 12:45 Gordon, N.; Herut, B.; Kimor, B.: MICROPHYTOPLANKTON MONITORING AS A USEFUL TOOL IN DETECTING EUTROPHICATION AND HARMFUL ALGAE OFF THE NEAR SHORE WATERS OF THE MEDITERRANEAN COAST OF ISRAEL
- 13:00 Livingston, R. J.: COMPARISON OF IMPACTS OF NUTRIENT LOADING ON 3 COASTAL SYSTEMS: BLOOM EFFECTS ON PHYTOPLANKTON ASSEMBLAGES AND ASSOCIATED FOOD WEBS.
- 13:15 Crowe, A. M.; Schindler, D. W.: THE ROLE OF SILICA DEPLETION IN THE EUTROPHICATION OF LAC LA BICHE, ALBERTA.
- 13:30 Ellwood, N. T.; Albertano, P.; Mosello, R.; Funicello, R.: CAUSAL FACTORS OF THE TOXIC ALGAL BLOOMS IN LAKE ALBANO, ROME, ITALY.
- 15:15 van Lenning, K.; Vila, M.; Masó, M.; Sampedro, N.; Anglès, S.; Garcès, E.; Morales, A.; Camp, J.: MULTIDISCIPLINARY ANALYSES OF A RECURRENT ALEXANDRIUM MINUTUM BLOOM ALONG THE NE SPANISH COAST
- 15:30 BRUYANT, E.; Ryan, C. M.; Normandeau, C.; Dacanay, A.; Burke, S. M.; Rafuse, C. M.; Cembella, A. D.; Cullen, J. J.: CHANGES IN THE HAEMOLYTIC PROPERTIES OF HETEROSIGMA AKASHIWO (RAPHIDOPHYCEAE) DURING PHOSPHATE STARVATION
- 15:45 Robbins, J. C.; Kirkpatrick, G. J.; Blackwell, S. M.; Hillier, J.; Pederson, B.; Moline, M. A.: MONITORING A TOXIC KARENIA BREVIS BLOOM ON THE WEST FLORIDA SHELF USING AN AUTONOMOUS VEHICLE
- 16:00 Furuya, K.; Kawamura, H.; Takahashi, W.; Omura, T.: DETECTION AND TRACKING OF HARMFUL RED TIDES IN EUTROPHICATED COASTAL WATERS BY SATELLITE REMOTE SENSING
- 16:15 Quesada, A.; Sanchis, D.; Carrasco, D.; De Hoyos, C.: CYANOBACTERIAL ABUNDANCE AND CYANOTOXINS IN SPANISH FRESHWATERS.
- 16:30 Hense, J.; Beckmann, A.: TOWARDS A MODEL OF CYANOBACTERIA LIFE CYCLE
- 16:45 Mulholland, M. R.; Watson, A. M.; Rocha, A.; Bernhardt, P.: NUTRITIONAL FLEXIBILITY OF MIXOTROPHIC DINOFLAGELLATES IN LOWER CHESAPEAKE BAY TRIBUTARIES-

SS48: Biogeochemistry, Ecology, and Hydrodynamics of Tidal Flat Systems

Chair(s): Jack Middelburg, j.middelburg@nioo.knaw.nl
Meinhard Simon, m.simon@icbm.de

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 12:15 Underwood, G. J.: BIOGEOCHEMICAL CYCLING IN INTERTIDAL FLATS: INTERACTIONS BETWEEN AUTOTROPHIC AND HETEROTROPHIC PROCESSES IN THE SURFACE LAYERS. -
- 12:45 Stanev, E. V.; Brink-Spalink, G.; Wolff, J. O.; Flemming, B.; Bartholomae, A.: HYDRODYNAMICS AND SEDIMENT DYNAMICS OF EAST FRISIAN WADDEN SEA. OBSERVATIONS AND MODELING*
- 13:00 Rullkötter, J.; Simon, M.: INTERDISCIPLINARY RESEARCH ON HYDRODYNAMICS AND BIOGEOCHEMISTRY IN THE SPIEKEROOG TIDAL BASIN OF THE SOUTHERN NORTH SEA
- 13:15 Badewien, T.; Brumsack, H.; Dellwig, O.; Gemein, N.; Grunwald, M.; Luebben, A.; Reuter, R.: HYDROGRAPHIC MEASUREMENTS AT THE WADDEN SEA TIME SERIES STATION
- 13:30 Dellwig, O.; Grunwald, M.; Beck, M.; Badewien, T.; Luebben, A.; Reuter, R.; Brumsack, H. J.: MANGANESE BUDGET OF THE SPIEKEROOG BACKBARRIER TIDAL FLAT (NW GERMANY)
- 15:15 Grunwald, M.; Dellwig, O.; Freund, J.: TIDAL VARIATIONS OF DISSOLVED METHANE IN THE WADDEN SEA OF NW GERMANY
- 15:30 Wirtz, K. W.; Holstein, J.; Staneva, J.: MODEL HINDCASTS FOR AN AQUIFER RELEASE OF ANAEROBIC CHEMICAL AND MICROBIAL SPECIES INTO TIDAL WATERS
- 15:45 Lunau, M.; Lemke, A.; Dellwig, O.; Simon, M.: TIDAL DYNAMICS AFFECT THE LINKAGE BETWEEN HYDRODYNAMIC, GEOCHEMICAL AND MICROBIAL PROCESSES
- 16:00 Lemke, A.; Lunau, M.; Dellwig, O.; Simon, M.: TIDAL DYNAMICS AFFECT THE GROWTH AND SUBSTRATE UPTAKE OF PARTICLE-ASSOCIATED AND FREE-LIVING BACTERIAL COMMUNITIES
- 16:15 Morris, E. P.; Forster, R. M.; Kromkamp, J. C.: QUANTIFYING THE PRIMARY PRODUCTION OF MICROPHYTOBENTHOS: APPLICATION OF OPTICAL METHODS

(* represents Invited presentations)

- 16:30 [Forster, R. M.](#); Morris, E. P.; Kromkamp, J. C.: FUNCTION AND PHYSIOLOGY OF TIDAL FLAT MICROPHYTOBENTHOS
- 16:45 [Sabbe, K.](#); Forster, R. M.; Créach, V.; de Jong, D. J.; Vyverman, W.; Stal, L. J.: RELATIONSHIPS BETWEEN BIODIVERSITY, BIOMASS AND PRODUCTION IN BENTHIC INTERTIDAL ESTUARINE DIATOMS

SS52: Comparative Ecosystem Studies of Harmful Algal Blooms

Chair(s): Patrick Gentien, Patrick.Gentien@ifremer.fr
 Alan Cembella, acembella@awi-bremerhaven.d
 Grant C. Pitcher, gpitcher@deat.gov.za

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #12

- 17:30 [Pitcher, G. C.](#): COMPARATIVE STUDIES OF HARMFUL ALGAE: THE BENEFITS OF COMPARISON OF BLOOMS IN UPWELLING ECOSYSTEMS-
- 17:45 [Cembella, A. D.](#): DYNAMICS OF HARMFUL ALGAL BLOOMS IN FJORDS AND COASTAL EMBAYMENTS
- 18:00 Cancellation
- 18:15 [Molla, M. I.](#); Reguera, B.; Palma, S.; Escalera, L.; Cerejo, M.; Cabanas, J. M.: MESOSCALE SPATIO-TEMPORAL DYNAMICS OF DINOPHYSA ACUTA IN WESTERN IBERIAN COASTAL WATERS
- 18:30 [Dahl, E.](#): THE NORWEGIAN COAST - A UNIQUE ASSEMBLY OF ECOSYSTEMS FOR COMPARATIVE STUDIES OF HARMFUL ALGAL BLOOMS
- 18:45 [Diogene, J.](#); Camp, J.; Blasco, D.; Bravo, I.; Franco, J.; Fernandez, M.; Elandaloussi, L.; Delgado, M.; Furones, D.: HARMFUL ALGAL BLOOMS IN THE EBRO DELTA COASTAL EMBAYMENTS, NORTH WESTERN MEDITERRANEAN: A POTENTIAL CASE STUDY FOR GEOHAB.
- 19:00 [Malkiel, E.](#); Pfitsch, D. W.; Katz, J.: IN SITU DIGITAL HOLOGRAPHIC CINEMATOGRAPHY OF THIN LAYERS
- 19:15 [Bradt, S. R.](#); Haney, J. F.: DETECTION OF CYANOBACTERIA IN NEW ENGLAND LAKES BY REMOTE SENSING

SS55: Parasitism in the Plankton

Chair(s): Alf Skovgaard, skovgaard@icm.csic.es
 D. Wayne Coats, coatsw@si.edu

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #11

- 12:15 [Lass, S.](#): PARASITES IN FRESHWATER ZOOPLANKTON-
- 12:30 [Gómez-Gutiérrez, J.](#); Robinson, C. J.: PARASITOID CILIATES (APOSTOMATIDA: COLLINIIDA: COLLINIA) INFECTING EUPHAUSIDS ALONG THE CALIFORNIA CURRENT SYSTEM, MISSING OR JUST HIDING?*
- 12:45 [Ibelings, B. W.](#); De Bruin, A.; Kagami, M.; Rijkeboer, M.; Van Donk, E.: ECOLOGICAL AND EVOLUTIONARY ASPECTS OF THE INTERACTION BETWEEN DIATOM HOSTS AND FUNGAL PARASITES
- 13:00 [Kim, S.](#); Park, M. G.; Yih, W.; Coats, D. W.: PARASITISM OF THECATE DINOFLAGELLATES BY TWO STRAINS OF AMOEBOPHYRYA (DINOPHYTA): PARASITE DEVELOPMENT, GENERATION TIME, AND HOST SPECIFICITY
- 13:15 [Skovgaard, A.](#); Massana, R.; Balagué, V.; Saiz, E.: TAXONOMIC POSITION OF SYNDINIUM - A DINOFLAGELLATE PARASITE OF MARINE PLANKTONIC COPEPODS
- 13:30 [Messick, C. A.](#); Nalepa, T. F.; Overstreet, R. M.; Vanderploeg, H. A.; Dermott, R.; Tyler, S. S.: PARASITES IN ZOOPLANKTON FROM THE GREAT LAKES REGION, USA

SS56: Coastal Sand Ecosystem Dynamics

Chair(s): Perran Cook, pcook@mpi-bremen.de
 Markus Huettel, mhuettel@ocean.fsu.edu

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 17:30 [Glud, R. N.](#); Wenzhoefer, F.: A TWO DIMENSIONAL VIEW ON BENTHIC OXYGEN DYNAMICS-
- 18:00 Cancellation
- 18:15 [Kroeger, K. D.](#); Charette, M. A.: NITROGEN BIOGEOCHEMISTRY AND FIXED NITROGEN LOSS IN A ZONE OF SUBMARINE GROUNDWATER DISCHARGE
- 18:30 [van Beusekom, J.](#): SUSPENDED MATTER DYNAMICS IN A SHALLOW TIDAL BASIN: THE COMBINED EFFECT OF WIND AND EUTROPHICATION
- 18:45 [Weslawski, J. M.](#); Reise, K. K.; Armonies, W.; Hedtkamp, S.; Kotwicki, L.: LOW VERSUS HIGH DIVERSITY MACROZOOBENTHOS IN THE SAME SIMPLE HABITAT - SHALLOW SANDY SUBLITTORAL.

- 19:00 [Galaktionov, O. S.](#); Meysman, F. J.; Middelburg, J. J.: BIO-IRRIGATION IN MARINE SEDIMENTS: HOW COMPLEX SHOULD MODELS BE?
- 19:15 [Wenzhoefer, F.](#); Glud, R. N.; Cook, P.; Huettel, M.: BENTHIC OXYGEN DYNAMICS IN SUBTIDAL SANDY SEDIMENTS: HOW DO ENVIRONMENTAL FACTORS EFFECT SPATIOTEMPORAL VARIABILITY

SS58: Global or Coastal Observations with Ships of Opportunity

Chair(s): Friedhelm Schroeder, friedhelm.schroeder@gkss.de
 David Hydes, djh@soc.soton.ac.uk
 Franciscus Colin, franciscus.colijn@gkss.de

Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7

- 15:15 [Petersen, W.](#); Colijn, F.; Hydes, D. J.; Kaitala, S.; Kontoyiannis, H.; Lavin, A.; Lips, I.; Procter, R.; Ridderinkhof, H.; Sørensen, K.: EUROPEAN FERRYBOX PROJECT: FROM ONLINE OCEANOGRAPHIC MEASUREMENTS TO ENVIRONMENTAL INFORMATION
- 15:30 [Wehde, H.](#); Petersen, W.; Callies, U.; Schrum, C.; Pluß, A.: FERRYBOX OBSERVATIONS IN THE SOUTHERN NORTH SEA - IMPROVEMENT OF TEMPORAL AND SPATIAL SIGNIFICANCE OF FERRYBOX DATA BY APPLICATION OF NUMERICAL MODELS -
- 15:45 [Hydes, D. J.](#); Kelly-Gerrey, B. A.; Wehde, H.; Petersen, W.; Kaitala, S.; Fleming, V.; Sørensen, K.; Magnusson, J.; Lips, I.; Lips, U.: QUANTIFICATION OF EUTROPHICATION PROCESSES AND EFFECTS IN DIFFERENT EUROPEAN MARINE AREAS BASED ON THE RESULTS OF THE EU FP-5 FERRYBOX PROJECT
- 16:00 [Pechatnikov, M.](#); [Kroeger, K.](#); Petersen, W.: CONTINUOUS DIRECT NITRATE DETERMINATION IN THE NORTH SEA IN COMPARISON TO CHEMICAL METHODS
- 16:15 [Ridderinkhof, H.](#): ESTIMATING SUSPENDED SEDIMENT FLUXES THROUGH A TIDAL INLET USING LONG-TERM ADCP OBSERVATIONS FROM A FERRY
- 16:30 [Morrison, G. K.](#): THE SEAKEEPER 1000TM, A SHIPBOARD AUTOMATED, METEOROLOGICAL AND OCEANOGRAPHIC MONITORING, LOGGING, AND TELEMETERING SYSTEM
- 16:45 [Röttgers, R.](#); Schröder, F.; Doerffer, R.: PARTICULATE ABSORPTION MEASUREMENTS BY A POINT-SOURCE INTEGRATING-CAVITY ABSORPTION METER (PSICAM): APPLICATIONS FOR ONLINE MEASUREMENTS.
- 17:30 [Seppälä, J.](#); Kaitala, S.: PARTIAL LEAST SQUARES ANALYSIS OF PHYTOPLANKTON ABSORPTION, FLUORESCENCE AND OCEAN COLOUR SPECTRA: EVALUATION OF RAPID CHEMOTAXONOMIC TOOL
- 17:45 [Williams, W. G.](#); Bucklin, A.; Groman, R.; Wiebe, P. H.: FLEETLINK: A COASTAL OBSERVING SYSTEM UTILIZING VESSELS OF OPPORTUNITY
- 18:00 [Paerl, H. W.](#); Buzzelli, C. P.; Gallo, T.; Ramus, J. S.: FERRYMON: USING FERRIES TO MONITOR AND ASSESS ENVIRONMENTAL CHANGE IN NORTH CAROLINA'S ALBEMARLE-PAMLICO SOUND SYSTEM
- 18:15 [Sørensen, K.](#); Magnusson, J.; Høkedal, J.; Hydes, D.; Petersen, W.: USE OF SHIPS OF OPPORTUNITY AND REMOTE SENSING DATA FOR WATER QUALITY MONITORING
- 18:30 Cancellation
- 18:45 [Kelly-Gerrey, B. A.](#); Hydes, D. J.; Fernand, L. J.; Jégou, A. M.; Lazure, P.; Puillat, I.: INTERANNUAL VARIATIONS IN SURFACE WATER TRANSPORT AND BIOGEOCHEMISTRY RESOLVED IN SHIP OF OPPORTUNITY STUDIES IN THE ENGLISH CHANNEL AND BAY OF BISCAY
- 19:00 [Cokelet, E. D.](#); Jenkins, A. J.; Pegau, W. S.; Mordy, C. W.; Sullivan, M. E.: BIOPHYSICAL OBSERVATIONS ABOARD AN ALASKAN STATE FERRY
- 19:15 [Schroeder, F.](#); Colijn, F.; Petersen, W.; Wehde, H.: SHIPS OF OPPORTUNITY AND FERRY BOATS AS MARINE OBSERVING SYSTEMS FOR DIFFERENT MARINE APPLICATIONS

SS59: Seamount and Island Oceanography

Chair(s): Rui Miguel A. Caldeira, rui.caldeira@uma.pt
 Manfred Kaufmann, mkbiomar@uma.pt

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 12:15 [Wolanski, E. J.](#): WATER CIRCULATION AROUND ISLANDS: LESSONS FROM RAINE ISLAND, RIBBON REEFS, MURUROA, TAHITI, SCOTT REEF, GUAM, AND PALAU*
- 12:30 [Barton, E. D.](#); Rodríguez, J. M.; Aristegui, J.: WAKES, EDDIES AND LARVAE AROUND THE CANARY ISLANDS
- 12:45 [Takeda, S.](#); Ramaiah, N.; Miki, M.; Kondo, Y.; Yamaguchi, Y.; Arii, Y.; Gomez, F.; Furuya, K.; Takahashi, W.: EFFECTS OF UPWELLING WATERS ON PHYTOPLANKTON PRODUCTIVITY NEAR THE SULU ARCHIPELAGO
- 13:00 [Matson, E. A.](#): AN INTERNAL ISLAND EFFECT: SUBAQUIFER ENRICHMENT OF SEAWATER FLOWING THROUGH A TROPICAL CARBONATE ISLAND, (GUAM, USA).

(*) represents Tutorial presentations

- 13:15 [Christiansen, B.](#): SEAMOUNT ECOSYSTEMS: FEATURES AND THREATS *
- 13:30 [Mohn, C.](#): White, M.: STRUCTURE AND VARIABILITY OF THE BIOPHYSICAL REGIME AT TWO SUBMARINE BANKS IN THE NE ATLANTIC WEST OF IRELAND
- 15:15 [Basmachnikov, I.](#): White, M.; Jose, F.; Mohn, C.; Martins, A.; Pelegri, J. L.: WATER DYNAMICS AT AN ISOLATED SEAMOUNT LOCATED WITHIN A REGION OF THE MEDITERRANEAN OUTFLOW
- 15:30 [White, M.](#): Mohn, C.; Basmachnikov, I.; Jose, F.: SEAMOUNT DYNAMICS AT AN ELONGATED, MULTI-PEAKED, SEAMOUNT IN THE NE ATLANTIC
- 15:45 [Couto, A. B.](#): Lafon, V.; Martins, A.; Basmachnikov, I.; Rodrigues, M.; Figueiredo, M.; Mendonça, M.: SEASONALITY OF SEA SURFACE TEMPERATURE AND OCEAN COLOR OVER SEDLO AND SEINE SEAMOUNTS (NE ATLANTIC) BASED ON REMOTE SENSING DATA
- 16:00 [Mendonça, A.](#): Vilas, J. C.; Lobato, C.; Espino, M.; Polo, I.; Montero, M. F.; Aristegui, J.; Martins, A. M.: VARIABILITY IN PLANKTON COMMUNITY STRUCTURE AND METABOLISM AROUND TWO SEAMOUNTS
- 16:15 [Kiriaoulakis, K.](#): Wolff, G. A.: PARTICULATE ORGANIC MATTER AT TWO OCEANIC SEAMOUNTS IN THE NE ATLANTIC OCEAN
- 16:30 Cancellation
- 16:45 [Diekmann, R.](#): Nellen, W.; Platkowski, U.: FISH LARVAE AND CEPHALOPOD PARALARVAE ASSEMBLAGE STRUCTURES AT GREAT METEOR SEAMOUNT 'A MULTIVARIATE APPROACH'

SS70: Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health

Chair(s): Dorte Krause Jensen, dkj@dmu.dk

Anna-Stilina Heiskanen, anna-stilina.heiskanen@jrc.it

Anne Lyche-Solheim, anne.lyche@niva.no

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #10

- 12:15 [Valiela, I.](#): Kinney, E.; Teichberg, M.; Fox, S.: INDICATORS OF AQUATIC ECOSYSTEM CHANGE: A REVIEW OF PURPOSES AND ATTRIBUTES-
- 12:45 [Moe, S. J.](#): Andersen, T.; Brettum, P.; Placnik, R.; Lyche-Solheim, A.: QUANTILE REGRESSION AND SMOOTHING AS A NEW TOOL FOR ECOLOGICAL RISK ASSESSMENT: PREDICTING THE PROPORTION OF CYANOBACTERIA ALONG A EUTROPHICATION GRADIENT
- 13:00 [Leira, M.](#): Dalton, C.; Taylor, D.; Jordan, P.; McGee, E.; Irvine, K.: ESTABLISHING RESTORATION TARGETS FOR NUTRIENT-ENRICHED SHALLOW LAKES IN IRELAND: THE ROLE OF PALAEO-LIMNOLOGY
- 13:15 [Poikane, S.](#): Toth, L. G.; Penning, E.: MACROPHYTE VEGETATION AS BIOLOGICAL QUALITY ELEMENT FOR WATER FRAMEWORK DIRECTIVE
- 13:30 [Sondergaard, M.](#): [Lauridsen, T. L.](#): Amsinck, S. L.; Jensen, J. P.; Jeppesen, E.: THE USE OF SUBMERGED MACROPHYTES AS AN INDICATOR OF WATER QUALITY IN FRESHWATER LAKES*
- 15:15 [Miles, A. C.](#): Prior, A.; Anwar, A.; Phillips, G. R.; Martina, L.: THE UK APPROACH FOR WATER FRAMEWORK DIRECTIVE ECOLOGICAL ASSESSMENT USING BENTHIC INVERTEBRATE COMMUNITIES
- 15:30 [ARTEMIOU, V. A.](#): [LAZARIDOU-DIMITRIADOU, M. G.](#): EVALUATION SCORE AND INTERPRETATION INDEX FOR THE ECOLOGICAL QUALITY OF RUNNING WATERS IN CENTRAL AND NORTHERN HELLAS.
- 15:45 [Schmutz, S.](#): Pont, D.; Melcher, A.; Haidvogel, G.; Baier, U.; Noble, R.: FAME: DEVELOPMENT, EVALUATION AND IMPLEMENTATION OF A STANDARDISED FISH-BASED ASSESSMENT METHOD FOR THE ECOLOGICAL STATUS OF EUROPEAN RIVERS
- 16:00 [Deegan, B. M.](#): Ganf, G. G.; Facelli, J. M.: ASSESSING THE POTENTIAL FOR THE RESTORATION OF AQUATIC PLANT COMMUNITIES THROUGH THE USE OF ENVIRONMENTAL FLOWS.
- 16:15 Cancellation
- 16:30 [van de Bund, W. J.](#): TYPOLOGY, REFERENCE CONDITIONS AND ECOLOGICAL QUALITY RATIOS IN THE WATER FRAMEWORK DIRECTIVE: SCIENCE OR POLITICS?
- 16:45 [Wijsman, J.](#): Blauw, A.; Kuijper, M.; Los, F.: ECOLOGICAL MODELLING WITHIN THE CONTEXT OF THE WATER FRAMEWORK DIRECTIVE – IMPLICATIONS FOR COASTAL AND TRANSITIONAL WATERS
- 17:30 [Möhlenberg, F.](#): Petersen, S.; Petersen, A. H.: PREDICTABLE WATER QUALITY INDICATORS IDENTIFIED USING MULTIVARIATE STATISTICS – A STUDY BASED ON 20 YEARS MONITORING OF AN ESTUARY
- 17:45 [Tanaka, T.](#): Thingstad, T. F.: TWO POWERFUL DIAGNOSTIC PARAMETERS FOR DETECTING P-LIMITATION
- 18:00 [Heiskanen, A. S.](#): Carstensen, J.; Gromisz, S.; Henriksen, P.; Helminen, U.; Kauppila, P.; Kuoppa, P.: PHYTOPLANKTON COMMUNITY INDICATORS FOR EUTROPHICATION ASSESSMENT OF COASTAL BALTIC SEA
- 18:15 [Carstensen, J.](#): Heiskanen, A. S.; Henriksen, P.: OPERATIONAL DEFINITION OF ALGAL BLOOMS FOR WATER QUALITY ASSESSMENT

- 18:30 [Edler, L.](#): Andersson, A.; Hajdu, S.; Larsson, U.; Samuelsson, K.: USE OF PHYTOPLANKTON FOR CLASSIFICATION OF ECOLOGICAL STATUS OF SWEDISH COASTAL WATERS
- 18:45 [Krause-Jensen, D.](#): Carstensen, J.; Dahl, K.: COVER AND COMPOSITION OF COASTAL MACROALGAE IN RELATION TO WATER QUALITY
- 19:00 [Devlin, M. J.](#): Best, M.: THE ROLE OF MARINE PLANTS AS INDICATORS OF ECOLOGICAL HEALTH FOR THE EUROPEAN WATER FRAMEWORK DIRECTIVE – A UK AND ROI PERSPECTIVE.
- 19:15 [Alcoverro, T.](#): Martinez-Crego, B.; Pérez, M.; Romero, J.: POMI INDEX: MULTIVARIATE METHOD BASED ON THE SEAGRASS POSIDONIA OCEANICA TO ASSESS ECOLOGICAL STATUS OF COASTAL WATER UNDER THE WATER FRAMEWORK DIRECTIVE (WFD)

SS75: Advances at the Interface of Theoretical and Empirical Plankton Ecology

Chair(s): Chris Klausmeier, christopher.klausmeier@biology.gatech.edu

Elena Litchman, Elena.litchman@biology.gatech.edu

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #11

- 15:15 [McCaughey, E.](#): Nisbet, R. M.: THEORY AND EXPERIMENTS IN PLANKTONIC SYSTEMS: A BALANCE OF FORCES-
- 15:45 Vos, M.; [Mooij, W. M.](#): Verschoor, A. M.; Kooij, B. W.; DeAngelis, D. L.: INDUCIBLE DEFENSES, TROPHIC STRUCTURE AND THE PARADOX OF ENRICHMENT
- 16:00 [Stralhe, D.](#): INFLUENCE OF CLIMATE FORCING, TRI-TROPHIC INTERACTIONS AND INFOCHEMICALS ON DAPHNIA POPULATION DYNAMICS
- 16:15 [Lampert, W.](#): VERTICAL DISTRIBUTION OF ZOOPLANKTON: EVIDENCE FOR AN IDEAL FREE DISTRIBUTION WITH COSTS
- 16:30 [Kramer, A. M.](#): Sarnelle, O.; Knapp, R. A.: ALLEE EFFECT LIMITS RE-ESTABLISHMENT OF AN ALPINE COPEPOD: MULTI-LAKE STOCKING EXPERIMENT
- 16:45 [Genkai-Kato, M.](#): GAME BETWEEN ZOOPLANKTON AND FISH COMPETING FOR MACROPHYTE REFUGE AND ITS CONSEQUENCE ON WATER CLARITY IN LAKES
- 17:00 [Leibold, M. A.](#): Downing, A. L.: ENVIRONMENTAL FLUCTUATIONS CAN STABILIZE ZOOPLANKTON COMMUNITIES
- 17:30 [Johannessen, T.](#): SYNERGISM – POSITIVE PREDATOR-PREY RELATIONSHIP – EVIDENCE FOR AN IMPORTANT ECOLOGICAL AND EVOLUTIONARY PRINCIPLE
- 17:45 [Huisman, J.](#): Johnk, K. D.; Sharples, J.; Stroom, J. M.; Visser, P. M.; Sommeijer, B.: CLIMATE CHANGE AND HARMFUL ALGAL BLOOMS: BRIDGING COMPETITION THEORY AND LAKE EXPERIMENTS*
- 18:00 [Jäger, C. G.](#): Diehl, S.: THE INFLUENCE OF MIXING DEPTH AND MIXING INTENSITY ON PHYTOPLANKTON: A FIELD EXPERIMENT
- 18:15 [Stomp, M.](#): Huisman, J.; Stal, L. J.: PHYTOPLANKTON SHARE THE SPECTRUM: STABLE COEXISTENCE OF RED AND GREEN PICOCYANOBACTERIA IN THE BALTIC SEA
- 18:30 Cancellation
- 18:45 [Bird, D. F.](#): Giani, A.; Rolland, A.: PERSISTENCE AND EXCESS DOMINANCE: PHYTOPLANKTON COMMUNITIES ARE NOT NEUTRAL
- 19:00 [Litchman, E.](#): Klausmeier, C. A.: DIFFERENT SELECTIVE PRESSURES ON DIATOMS IN MARINE AND FRESHWATER ENVIRONMENTS
- 19:15 [Eveillard, D.](#): Jackson, G. A.; Larhlmi, A.; Bockmayr, A.; Ward, B. B.: MODELING THE AMMONIA-OXIDIZING BACTERIA COMMUNITY DIVERSITY USING METABOLIC GENERIC PATHWAYS

SS78: Radionuclide Tracers: Contributions to Our Understanding of Freshwater, Estuarine and Marine Processes

Chair(s): Ashanti J. Pyrtle, apyrtle@marine.usf.edu

Joseph Smoak, smoak@stpt.usf.edu

Location: Puerto del Camino Hotel V, Breakout #9

- 17:30 [Moran, S. B.](#): RADIONUCLIDE TRACERS OF COASTAL GROUNDWATER TRANSPORT-
- 18:00 [Kim, K. H.](#): RA-228/RA-226 RATIO AS A TRACER FOR ESTIMATING THE INFLUENCE OF CHANGJIANG OUTFLOW WATER TO THE ADJACENT SEAS
- 18:15 [Cable, J. E.](#): Martin, J. B.; Smith, C. G.; Jaeger, J.; Cable, P. H.: EXAMINING PORE WATER EXCHANGE RATES AND MECHANISMS IN PERMEABLE MARINE SEDIMENTS*
- 18:30 [Brennwald, M. S.](#): Strassmann, K. M.; Kipfer, R.: SOLUTE EXCHANGE BETWEEN LAKE SEDIMENT AND LAKE WATER CALIBRATED BY TRITIUM AND RADIOGENIC HE ISOTOPES
- 18:45 [Smith, J. P.](#): Boyd, T. J.; Osburn, C. L.; Olsen, C. R.: INVESTIGATING THE IMPACT OF A MAJOR STORM EVENT ON THE SEDIMENTS OF CHESAPEAKE BAY USING BERYLLIUM-7

(* represents invited presentations)

- 19:00 [LANSARD, B. ...](#); GRENZ, C. ...; CHARMASSON, S. ...: TRACING THE DISPERSION OF PARTICLES FROM THE RHONE RIVER TO THE GULF OF LIONS USING PLUTONIUM ISOTOPES
- 19:15 Mullinger, N. J.; [Pates, J. M.](#); Crook, N.; Binley, A. M.: CAN RN-222 BE USED TO QUANTIFY STREAM-AQUIFER INTERACTIONS IN CHALK CATCHMENTS? TEMPORAL VARIABILITY IN GROUNDWATER RN ACTIVITIES.

SS84: Multi-tracer Approaches Toward Understanding Particle Fluxes and Dynamics in the Sea

- Chair(s): Stuart Wakeham, stuart@skio.peachnet.edu
Pere Masque, Pere.Masque@uab.es
Juan-Carlos Miquel, j.c.miquel@iaea.org
Robert Armstrong, ramstrong@notes.cc.sunysb.edu
- Location: Puerto del Camino Hotel V, Breakout #9
- 12:15 [Miquel, J. C.](#); Cochran, J. K.; Gasser, B.; Rodríguez y Baena, A. M.; Peterson, M.; Fowler, S. W.; Lee, C.; Masqué, P.; Jeandel, C.; Marty, J. C.: CARBON EXPORT IN THE NW MEDITERRANEAN DERIVED FROM MOORED SEDIMENT TRAPS AND TH-234:U-238 DISEQUILIBRIA; RESULTS FROM THE BARMED, DYFAMED AND MEDFLUX STUDIES
- 12:30 [Lampitt, R. S.](#); Sanders, R. J.; Boorman, B.; Brown, L.; Lucas, M.; Saw, K. A.; Seeyave, S.; Thomalla, S.; Turnewitsch, R.: AN INTEGRATED APPROACH TO EXPORT FLUX MEASUREMENT AT THE PAP SITE: PRIMARY PRODUCTION, 234THORIUM AND A NOVEL DRIFTING SEDIMENT TRAP; PELAGRA.
- 12:45 [Burd, A. B.](#); Jackson, G. A.; Moran, S. B.: PARTICLE SIZE AND POC FLUXES ESTIMATED FROM THORIUM DISEQUILIBRIUM
- 13:00 [Masqué, P.](#); Stewart, G.; Cochran, J. K.; Miquel, J. C.; Rodríguez-Ybaena, A. M.; Szlosek, J.; Fowler, S. W.; Peterson, M. L.; Lee, C.: MEDFLUX: POC FLUXES IN THE NORTHWESTERN MEDITERRANEAN SEA DERIVED FROM 210PO/210PB DISEQUILIBRIUM: COMPARISON TO 234TH/238U AND SEDIMENT TRAP PROXIES
- 13:15 [Rodríguez y Baena, A. M.](#); Miquel, J. C.; Masqué, P.; Wyse, E.; La Rosa, J.; Isla, E.; Sanchez-Cabeza, J. A.; Fowler, S. W.: 234TH EXCESS OFF THE EASTERN WEDDELL SEA ICE-EDGE: COULD SEA-ICE ALGAE BE RESPONSIBLE FOR THIS UNCOMMON OBSERVATION?
- 13:30 [Taylor, G. T.](#); Iabichella-Armas, M.; Thunell, R. C.; Varela, R.; Astor, Y.: HYDROLYTIC ECTOENZYME ACTIVITY ASSOCIATED WITH SUSPENDED AND SINKING ORGANIC PARTICLES IN THE ANOXIC CARIACO BASIN

SS85: The Implementation of Observations in the Coastal Zone: The Global Ocean Observing System

- Chair(s): Tom Malone, t.malone@ocean.us
Tony Knap, knap@bbsr.edu
- Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7
- 12:15 Fletcher, M.; Porter, D. E.; Buckley, E.; Pietrafesa, L.; Xie, L.; Cothran, J.; Vedre, R.; Peng, M.; Bao, S.; [Davis, B. C.](#): DEVELOPING INFORMATION PRODUCTS FOR COASTAL AND OCEAN MANAGERS: THE CAROLINAS COASTAL OCEAN OBSERVING AND PREDICTION SYSTEM (CARO-COOPS)
- 12:30 [Leonard, L. A.](#); Durako, M. J.; Moss, M. K.; Bingham, F. M.; Qi, X.; Pietrafesa, L. J.: PHYSICS TO FISH I: INTEGRATING PHYSICAL AND ECOLOGICAL OBSERVATIONS IN THE COASTAL OCEAN
- 12:45 [Durako, M. J.](#); Leonard, L. A.; Moss, M. K.; Posey, M. H.; Mallin, M. A.; Cahoon, L. B.; Lankford, T. E.; Alphin, T. D.; Pietrafesa, L. J.; Xie, L.: PHYSICS TO FISH: II. USING COASTAL OCEAN OBSERVATIONS TO IDENTIFY ECOSYSTEM CONDITIONS, RESPONSES AND LINKAGES.
- 13:00 [Rees, J. M.](#); Mills, D. K.; Pearce, D. J.; Sivyer, D. S.; Childs, M.; Scriven, M. A.: TOWARDS AN INTEGRATED ECOSYSTEM MONITORING SYSTEM - SMARTBUOY AND WAVENET
- 13:15 [Simis, S. G.](#); Ruiz-Verdú, A.; Dominguez, J. A.; Peters, S. W.; Peña-Martinez, R.; Gons, H. J.: REMOTE SENSING OF CYANOBACTERIAL BIOMASS IN EUTROPHIC LAKES
- 13:30 [Barreiro, M.](#); Torres-Lopez, S.; Montero, P.; Carracedo, P.; Pérez-Muñuzuri, V.; Ruiz-Villarreal, M.; Leitaó, P.: OPERATIONAL MARINE WEATHER FORECAST AT THE REGIONAL SCALE

SS87: The Biogeochemistry of the Tropical Atlantic Ocean

- Chair(s): Ajit Subramaniam, ajit@ideo.columbia.edu
Douglas Capone, capone@usc.edu
Douglas Wallace, dwallace@ifm-geomar.de
- Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6
- 17:15 [Longhurst, A. R.](#): AN INTRODUCTION TO THE BIOGEOCHEMISTRY OF TROPICAL OCEANS: THE ATLANTIC EXAMPLE -
- 17:45 [Lopez, J. M.](#); Morell, J. M.; Dieppa, A. R.; Justiniano, A.; Corredor, J. E.: PHYTOPLANKTON PHOTOPHYSIOLOGY IN THE TROPICAL AND SUBTROPICAL NORTH ATLANTIC AND EASTERN CARIBBEAN
- 18:00 [Montoya, J. P.](#); Mahaffey, C.; Gunderson, T. E.; Capone, D. G.: NITROGEN FIXATION IN THE TROPICAL ATLANTIC: INSIGHTS FROM EXPERIMENTAL, STABLE ISOTOPE, AND NUTRIENT RATIO ANALYSES
- 18:15 [Breitbarth, E.](#); Oeschles, A.; Friedrichs, G.; Mills, M. M.; La Roche, J.: GLOBAL WARMING MAY DECREASE NITROGEN FIXATION BY TRICHODESMIUM
- 18:30 Muñoz-Hincapié, M. F.; [Qtero, E.](#); Corredor, J. E.; López, J. M.; Morrell, J. M.: BACTERIAL PRODUCTIVITY AND COMMUNITY RESPIRATION IN NORTH ATLANTIC EQUATORIAL WATERS
- 18:45 [Morell, J. M.](#); Lopez, J. M.; Munoz, M.; Corredor, J. E.: MODULATION OF ORGANIC CARBON FLUX BY THE ORINOCO RIVER PLUME IN THE EASTERN CARIBBEAN AND ADJACENT TROPICAL ATLANTIC WATERS
- 19:00 Lochte, K.; [Peeken, I.](#); Hoffmann, L.: THE ROLE OF THE CHLOROPHYLL MAXIMUM FOR PHYTOPLANKTON PRODUCTION IN THE TROPICAL ATLANTIC
- 19:15 [Subramaniam, A.](#); Carpenter, E. J.; Shipe, R.; Yager, P.; Capone, D.: THE DIATOM EXPRESS

RS02: Phytoplankton

- Chair(s): Brandon Sackmann, brandon.sackmann@maine.edu
- Location: Palacio de Congresos y Exposiciones de Galicia
105. [Allen, A. E.](#); Ward, B. B.; Bowler, C. P.: A MOLECULAR PERSPECTIVE ON NITROGEN AND IRON METABOLISM IN MARINE DIATOMS
106. [López, M.](#); Acuña, J. L.; Sostres, J. A.; Arrontes, J.: EXPERIMENTAL DYNAMICS OF WINTER PHYTOPLANKTON ASSEMBLAGES
107. [Kawakami, H.](#); Matsumoto, Y.; Tsuduki, M.; Fujiwara, K.: EVALUATIONS OF METAL TOXICITY AND ACCUMULATION FROM CHLORELLA KESSLERI TO DAPHNIA MAGNA IN AQUATIC MEDIA
108. [Sarmiento, H.](#); Isumbisho, M.; Descy, J. P.: BIOMASS AND COMPOSITION OF PHYTOPLANKTON OF LAKE KIVU (EAST AFRICA)
109. [Gutiérrez, A.](#); Latasa, M. M.: PHOTOSYNTHETIC COMPETENCE OF PHYTOPLANKTON IN THE NORTHWESTERN MEDITERRANEAN ASSESSED USING THE FAST REPETITION RATE FLUORIMETER
110. [Montsant, A.](#); Jabbari, K.; Maheswari, U.; Bowler, C.: COMPARATIVE GENOMICS OF THE PENNATE DIATOM PHAEODACTYLUM TRICORNUTUM
111. [Kraberg, A.](#); Raabe, T.; Dürselen, C. D.; Wiltshire, K. H.: DEALING WITH THE CHALLENGES IN PRESENTING TAXONOMIC INFORMATION ONLINE: AN INTRODUCTION TO PLANKTON*NET@AWI
112. [Yoshikawa, T.](#); Takashi, T.; Murata, O.; Eguchi, M.: SHORT-TERM CHANGES IN PRIMARY PRODUCTION AND DISSOLVED OXYGEN OBSERVED BY MOORED SENSORS IN A COASTAL FISH AQUACULTURE AREA
113. [Lewin, R. A.](#); Deyhle, A.: BORON IN DIATOMS
114. Bengtsson, G.; [Montenegro, K.](#); Savelli, H.: TRADE-OFFS BETWEEN GROWTH AND TOXIN PRODUCTION IN STRESSED CYANOBACTERIA
115. [Hancke, K.](#); Hancke, T. B.; Olsen, L. M.; Johnsen, G.: TEMPERATURE EFFECTS ON PHOTOSYNTHESIS-LIGHT RESPONSES MEASURED BY O₂-EVOLUTION, 14C-ASSIMILATION AND PULSE AMPLITUDE MODULATED (PAM) FLUORESCENCE
116. [Kraus, R.](#); Degobbi, D.: MICROPHYTOPLANKTON COMPOSITION AS A TOOL STUDYING THE MUCLAGE PHENOMENON IN THE NORTHERN ADRIATIC SEA
117. [Batta Lona, P. G.](#); Zhang, H.; Lin, S.: DEVELOPMENT OF A METHODOLOGY TO MEASURE IN SITU CELL DIVISION RATE (CDR) FOR EMLIANIA HUXLEYI.
118. [Kuwala, A.](#); Estrada, M.: DIVERSITY OF GROWTH AND RESTING SPORE FORMATION OF CHAETOCEROS SPECIES UNDER VARIOUS NUTRIENT LIMITATIONS

^(c) represents Tutorial presentations

RS03: Zooplankton

Chair(s): Dave Hambricht, dhambricht@ou.edu

Location: Palacio de Congresos y Exposiciones de Galicia

119. Zirbel, M. J.; Miller, C. B.; Batchelder, H. P.: A ONE STEP METHOD FOR FLUORESCENT NUCLEIC ACID STAINS IN COPEPOD EGGS
120. Calbet, A.; Saiz, E.: THE CILIATE-COPEPOD LINK IN MARINE ECOSYSTEMS
121. Alienza, D.; Saiz, E.; Calbet, A.; Lopes, R.: FEEDING, GROWTH AND GROSS GROWTH EFFICIENCIES OF THE MARINE CLADOCERAN PENLIA AVIROSTRIS IN SAO SEBASTIAO BAY, BRASIL
122. Angeler, D. G.: INDUCIBLE DIAPAUSE PROLONGATION AS A PREDATOR AVOIDANCE STRATEGY: WHEN CAN WE EXPECT AND DETECT IT IN NATURE?
123. Jónasdóttir, S. H.; Koski, M.; Bagojen, E.: COPEPOD PRODUCTION IN THE SUBSURFACE CHLOROPHYLL MAXIMUM ON THE DOGGER BANK, NORTH SEA
124. RAMOS-RODRIGUEZ, E.; SERRA, M.: INTERSPECIFIC AND INTRASPECIFIC ECOLOGICAL DIFFERENTIATION IN TWO SYMPATRIC CRYPTIC ROTIFER SPECIES
125. Campillo, S.; Garcia-Roger, E. M.; Carmona, M. J.; Serra, M.: INTRASPECIFIC VARIATION IN ROTIFER LIFE-HISTORY TRAITS
126. Tarlarotti, B.; Torres, J.: SUBLETHAL STRESS: IMPACT OF SOLAR UV RADIATION ON PROTEIN SYNTHESIS IN THE COPEPOD ACARTIA TONSA
127. Saiz, E.; Calbet, A.: IS MARINE COPEPOD FEEDING LIMITED? A COMPARISON OF FIELD AND LABORATORY DATA
128. Summerer, M.; Sonntag, B.; Sommaruga, R.: SYMBIOTIC CHLORELLA IN MIXOTROPHIC FRESHWATER CILIATES AND THEIR ROLE IN UV-PROTECTION OF THE HOST
129. Joaquim-Justo, C.; Ayala Andrés, N.; Thomé, J. P.: FEEDING SELECTIVITY OF THE ROTIFER BRACHIONUS CALYCIFLORUS: EVIDENCE OF THE ROLE OF CHEMICAL CUES
130. Leeson, P.; Weckström, K.; Korhola, A.: CHANGES IN CLADOCERA COMMUNITY STRUCTURE WITH INCREASED HUMAN DISTURBANCE IN TWO BALTIC SEA EMBAYMENTS
131. Gustafsson, S.; Rengefors, K.; Hansson, L.: INDUCED TOXIN TOLERANCE IN DAPHNIA – A TRANSGENERATIONAL EFFECT
132. Weigand, P. V.; Escalante, A. H.: MIGRATORY BEHAVIOR OF CYCLOMORPHIC AND NON-CYCLOMORPHIC BRACHIONUS HAVANAENSIS (ROTIFERA) INDIVIDUALS IN A SHALLOW LAKE
133. GOMEZ ERACHE, M.; NORBIS, W.: TEMPORAL CHANGES IN PLANKTON COMMUNITY STRUCTURE RELATED TO ENSO EVENTS IN MONTEVIDEO COASTAL ZONE OF THE RIO DE LA PLATA ESTUARY
134. Brown, M. E.: SEASONAL CHANGES IN BYTHOTREHES LONGIMANUS ABUNDANCE AND MORPHOLOGY IN ISLAND LAKES RESERVOIR, MINNESOTA (USA)
135. Roman, M. R.; Zhang, X.: PRODUCTION DYNAMICS OF THE COPEPOD, ACARTIA TONSA: EFFECTS OF DENSITY-INDEPENDENT AND DENSITY-DEPENDENT FACTORS
136. Nejstgaard, J. N.; Frischer, M. E.; Simonelli, P.; Brakel, M.; Sazhin, A.; Artigas, J. F.: COMPARISON OF MOLECULAR AND TRADITIONAL METHODS TO QUANTIFY SELECTIVE COPEPOD FEEDING IN SITU
137. Endo, Y.; Suzuki, N.; Yamaguchi, T.: REGIONAL DIFFERENCE IN TROPHIC LEVEL AND ENZYME ACTIVITY OF EUPHAUSIA PACIFICA IN JAPANESE WATERS
138. Eggen, R.; Tokle, N.; Evjemo, J. O.; Vadstein, O.: EFFECT OF ALGAL SPECIES AND PHYSIOLOGICAL STATUS ON EGG PRODUCTION AND GROWTH OF COPEPODS
139. Ortells, R.; Lampert, W.: SALINITY STRESS IN D. MAGNA POPULATIONS INFERRED FROM AN EGG BANK
140. Huotari, J.; Ojala, A.; Saarinen, T.; Kairesalo, T.: CHANGES IN LIFE HISTORY STRATEGY OF TWO DAPHNIA SPECIES UNDER SIMULATED CLIMATE CHANGE CONDITIONS
141. Bochdanský, A. B.; Deibel, D.; Leggett, W. C.: CALCULATION OF FEEDING RATES FROM GUT CONTENT AND INSTANTANEOUS RATE OF GUT EVACUATION IN ZOOPLANKTON AND LARVAL FISH
142. Cancellation
143. Walsh, E. J.; Arroyo, M. L.; Schroeder, T.; Wallace, R. L.: BIODIVERSITY OF ROTIFERA IN CHIHUAHUAN DESERT SPRINGS

RS04: Benthos

Chair(s): Victoriano Urgorri, bavluco@usc.es

Location: Palacio de Congresos y Exposiciones de Galicia

1. Horppila Jukka, A.; Nurminen Leena, K. L.: EFFECT OF DIFFERENT MACROPHYTE GROWTH FORMS ON SEDIMENT AND P RESUSPENSION IN A SHALLOW LAKE
2. Weckström, K.; Juggins, S.: COASTAL DIATOM-ENVIRONMENT RELATIONSHIPS FROM THE GULF OF FINLAND, BALTIC SEA
3. Lopez-Rodríguez, M. J.; Tierno de Figueroa, J. M.; Alba-Tercedor, J.: THE DIET OF EPHEMEROPTERA AND PLECOPTERA NYMPHS IN HIGH MOUNTAINS OF SOUTHERN EUROPE AND ITS RELATIONSHIPS WITH TEMPERATURE.
4. Otero, J.; Gonzalez, A. E.; Alvarez-Salgado, X. A.; Gilcolo, M.; Guerra, A.; Rocha, F. J.: CLIMATE VARIABILITY AND COMMON OCTOPUS POPULATION CHANGES IN GALICIAN SHELF WATERS (NE ATLANTIC)
5. Alvarez-Fernandez, I.; Sarda, F.; Rottlant, G.; Verisimo, P.; Fernandez, L.: ROLE OF LIPID, PROTEIN, CARBOHYDRATE AND NUCLEIC ACID AS INDICATORS OF THE MOLTING CYCLE OF NORWAY LOBSTER (NEPHROPS NORVEGICUS)
6. Urgorri, V.; Corral, E.; Garcia-Alvarez, O.: ANATOMY AND SYSTEMATIC OF DEEP-SEA GASTROPODS OF THE GENUS CORNISEPTA (VETIGASTROPODA, FISSURELLOIDEA) FROM THE BATHYAL BOTTOMS OFF GALICIA (SPAIN).
7. Diaz-Agras, G.; Cristobo, F. J.; Rios, P.; Urgorri, V.: THREE NEW SPECIES OF DEEP-SEA SPONGES OF THE GENUS POZZIELLA FROM THE PAGANINI SO 144-3A EXPEDITION IN THE COCOS AND CARNEGIE RIDGES (EAST PACIFIC)
8. Garcia-Alvarez, O.; Urgorri, V.; Gil-Mansilla, E.; Zamarro, M.: MOLLUSCA SOLENOGASTRES OF GALICIA (NW, SPAIN): CURRENT STATE AND FUTURE PERSPECTIVES: THE DIVA-ARTABRIA PROJECT
9. Reiss, J.; Schmid-Araya, J. M.: CILIATES VS. MEIOFAUNA – WHO DOMINATES STREAM SEDIMENTS?
10. Cristobo, F. J.; Rios, P.; Avila, C.; Ballesteros, M.: PRELIMINARY RESULTS OF PORIFERA COLLECTED WITHIN THE ECOQUIM PROJECT IN ANTARCTICA
11. Hironitsu KAMAUCHI, H. K.: RELATIVE CONTRIBUTION OF SHREDDER FECES TO FINE PARTICLE ORGANIC MATTER (FPOM) IN A WOODLAND STREAM
12. Walters, T. L.; Foy, T. F.; Baylor, V. D.; Danforth, J. M.; Frischer, M. E.: SUCCESSION OF BACTERIAL COMMUNITIES ASSOCIATED WITH THE DECOMPOSITION OF MANGROVE LEAVES
13. Venn, C.: PELAGIC BARNACLE SETTLEMENT ON A BUOY IN THE EASTERN TROPICAL PACIFIC DURING DEVELOPMENT OF THE 1997-1998 ENSO

SS02: Ecology of Gelatinous Zooplankton

Chair(s): Francesc Pages, fpages@cmima.csic.es

Jennifer E. Purcell, purcell@cc.wvu.edu

Location: Palacio de Congresos y Exposiciones de Galicia

144. Lundberg, M.; Hop, H.; Eiane, K.; Gulliksen, B.; Falk-Petersen, S.: POPULATION DYNAMICS AND ACCUMULATION OF LIPIDS IN MERTENSIA OVUM (CTENOPHORA) REVEAL ITS REPRODUCTIVE STRATEGY IN KONGSFJORDEN, SVALBARD
145. Moeller, L. F.; Riisgaard, H. U.: BIOENERGETICS AND GROWTH IN THE COMMON JELLYFISH, AURELIA AURITA, AND SELECTED HYDROMEDUSAE IN LIMFJORDEN (DENMARK)
146. Shin, K.; Lee, W. J.; Kang, J. H.: LIFE CYCLE OF AURELIA AURITA IN LABORATORY AND MASAN BAY, KOREA
147. Ramsak, A.: POPULATION CHARACTERISTICS AND GENETIC STRUCTURE OF BLOOM-FORMING SCYPHOMEDUSA RHIZOSTOMA PULMO FROM THE GULF OF TRIESTE (ADRIATIC SEA)
148. Zeidberg, L.: STABLE ISOTOPE ANALYSIS OF GELATINOUS ZOOPLANKTON
149. Granhag, L.; Norrbin, F.; Haanes, H.; Henriksen, J.; Kolb, J.: FEEDING PREFERENCE OF THE ARCTIC CTENOPHORE MERTENSIA OVUM
150. Grishin, A. N.; Mihneva, V. V.; Hineva, E. V.: SOME PECULIARITIES OF THE FEEDING BEHAVIOUR AND GROWTH OF THE CTENOPHORE MNEMIOPSIS LEIDYI
151. Irvine, H.; Hope, R. J.; McEvoy, J.; McEvoy, L. A.: ANNUAL SIZE FLUCTUATIONS AND PREY ITEMS OF AURELIA AURITA L. IN SANDSOUND VOE, SLETTLAND, UK
152. Ambler, J. W.: COMPARISON OF THALIACEAN AND COPEPOD ASSEMBLAGES IN SUMMER COASTAL WATERS OFF CHINCOTEAGUE, VA
153. Bretton, E.; Rousseau, V.; Parent, J.; Daro, M.; Lancelot, C.: FEEDING PATTERNS OF THE APPENDICULARIAN OIKOPLEURA DIOICA IN BELGIAN COASTAL WATERS
154. Cancellation
155. Skikne, S. A.; Sherlock, R. E.; Robison, B. H.; Reisenbichler, K. R.: UPTAKE OF DISSOLVED ORGANIC MATTER (DOM) BY TWO SPECIES OF SCYPHOZOAN MEDUSAE FROM MONTEREY BAY
156. Bayha, K. M.; Gaffney, P. M.: MOLECULAR SYSTEMATICS AND PHYLOGEOGRAPHY OF THE INVASIVE CTENOPHORE MNEMIOPSIS BASED ON NUCLEAR AND MITOCHONDRIAL MARKERS

(*) represents Invited presentations

SS04: Climate Change in Ocean and Marginal Sea Ecosystems: Observation, Modeling, and Experiments

Chair(s): Evaristo Vázquez-Domínguez, evazquez@icm.csic.es
Victoria Coles, vcoles@hpl.umces.edu

Location: Palacio de Congresos y Exposiciones de Galicia

14. Chu, F.; Lund, E.; Flowers, A. W.: EFFECTS OF THE DRUG , TRICLOSAN, ON OYSTER HEMOCYTE FUNCTION AND VIABILITY
15. Cancellation
16. Yamanaka, Y.; Hashioka, T.: ECOSYSTEM CHANGE IN THE WESTERN NORTH PACIFIC DUE TO GLOBAL CHANGE OBTAINED BY 3-D ECOSYSTEM MODEL
17. Gonzalez-Davila, M.; Santana-Casiano, J. M.; Suarez-Tangil, M.; Rodriguez-Ucha, I.: SEASONAL AND INTERANNUAL VARIABILITY OF SEA-SURFACE CARBON DIOXIDE SPECIES AT THE ESTOC SITE BETWEEN 1996 AND 2004
18. Foulland, E.; Mostajir, B.; Nougier, J.; Le Floch, E.; Vidussi, F.: PRIMARY PRODUCTION AND BACTERIAL RESPIRATION OF A LAGOONAL MICROBIAL COMMUNITY: RESPONSE TO AN ENHANCEMENT IN TEMPERATURE AND ULTRAVIOLET-B RADIATION
19. Zorita, E.: THE RELATIVE CONTRIBUTION OF THE NORTH ATLANTIC OSCILLATION TO FUTURE REGIONAL CLIMATE CHANGE
20. Lovera, C. F.; Buck, K. R.; Levesque, C.; Barry, J. P.: EFFECTS OF DEEP-SEA OCEAN CARBON SEQUESTRATION ON SEDIMENT MICROBIAL BIOMASS
21. Bisagnani, J. J.; Mouw, C. B.; Gangopadhyay, A.; Goes, J. I.: NAO-RELATED INTERANNUAL VARIABILITY OF MACRO-NUTRIENTS IN THE WESTERN NORTH ATLANTIC OCEAN
22. Cancellation
23. Hashioka, T.; Yamanaka, Y.: CHANGE IN RAIN RATIO ASSOCIATED WITH GLOBAL WARMING OBTAINED BY A 3-D ECOSYSTEM MODEL
24. Touratier, F.; Azouzi, L.; Goyet, C.: DISTRIBUTION OF ANTHROPOGENIC CO₂ IN THE WORLD OCEAN USING THE TROCA APPROACH
25. Kossak, U.; Reuter, P.; Wahl, M.: MUSSELS IN A CHANGING WORLD: INTERACTIVE EFFECTS OF WARMING, SALINITY SHIFTS AND EUTROPHICATION ON THE PERFORMANCE OF MYTILUS EDULIS
26. Dale, B.; Dale, A. L.; Amorim, A.: DINOFLAGELLATE CYSTS AS ENVIRONMENTAL INDICATORS OVER THE PAST 2000 YEARS IN SHALLOW MARINE SEDIMENT CORES FROM THE TAGUS DEPOSITION CENTER (W IBERIA)
27. Vidussi, F.; Mostajir, B.; Nougier, J.; Le Floch, E.: EFFECTS OF TEMPERATURE AND ULTRAVIOLET-B RADIATION INCREASES ON MARINE PELAGIC FOOD WEB: A MESOCOSM EXPERIMENTAL DESIGN
28. Coles, V. J.; Hood, R. R.: ATMOSPHERIC DUST DEPOSITION VARIABILITY AND ATLANTIC NITROGEN FIXATION
29. Irvine, G. V.; Carpenter, S. J.; Schaaf, J. M.; Mann, D. H.: PILGRIMAGE THROUGH TIME IN THE NE PACIFIC: STABLE ISOTOPE ANALYSIS OF BIVALVES FROM MIDDENS REVEALS CLIMATE/COASTAL OCEAN CHANGES OVER THE LAST 6,000 YEARS
30. Lance, V. P.; Hiscock, M. R.; Hiltling, A. H.; Buesseler, K. O.; Barber, R. T.: CARBON PRODUCTIVITY AND FLUX IN AN IRON-REPLETE SOUTHERN OCEAN
31. Hood, R. R.; Brown, C. W.; Gross, T. F.; Decker, M. B.; Purcell, J. E.: MODELING INTERANNUAL VARIABILITY IN SEA NETTLE (CHRYSAORA QUINQUECIRRHA) POPULATIONS IN CHESAPEAKE BAY, U.S.A
32. Beuchel, F.; Gulliksen, B.: LONG-TERM VARIABILITY OF ROCKY-BOTTOM MACROBENTHIC COMMUNITIES IN AN ARCTIC FJORD, USING DIGITAL IMAGE ANALYSIS OF UNDERWATER PHOTOGRAPHS
33. Kozarac, Z.; Frka Milosavljevic, S.; Risovic, D.; Cosovic, B.: CHEMICAL CHARACTERIZATION AND PHYSICAL NATURE OF SEA-SURFACE MICROLAYERS

SS13: Stable Isotopes in Ecology and Biogeochemistry

Chair(s): Eric Boschker, e.boschker@nioo.knaw.nl
Jack J. Middelburg, j.middelburg@nioo.knaw.nl

Location: Palacio de Congresos y Exposiciones de Galicia

59. Eller, G.; Delnes, P.; Krüger, M.: METHANE AS CARBON SOURCE FOR FRESHWATER FOOD WEBS – A POSSIBLE LINK BETWEEN THE METHANE CYCLE AND THE ¹³C SIGNATURE OF CHIRONOMID LARVAE
60. Tameler, T.; Søreide, J. S.; Hop, H.; Carroll, M.: FRACTIONATION OF STABLE CARBON AND NITROGEN ISOTOPES IN THE ARCTIC COPEPOD CALANUS GLACIALIS

61. Taipale, S. J.; Kankaala, P.; Jones, R. I.: ¹³C ENRICHMENT OF LAKEWATER DISSOLVED INORGANIC CARBON REVEALS SEASONAL CHANGES IN CARBON PATHWAYS TO DAPHNIA
62. Munuera, J.; Gonzalez-Quiros, R.: SEASONAL VARIATION IN D¹³C AND D¹⁵N OF SARDINA PILCHARDUS LARVAL STAGES AND THEIR PREY AT TWO COASTAL STATIONS, CENTRAL CANTABRIAN SEA
63. Cognie, B.; Barillé, L.; Decottignies, P.; Riera, P.: TEMPORAL VARIATIONS IN THE ISOTOPE COMPOSITIONS OF WILD AND CULTIVATED CRASSOSTREA GIGAS AND OF THE HONEYCOMB WORM SABELLARIA ALVEOLATA: AN IN SITU APPROACH
64. Agurto, C.; Hansen, T.; Sommer, U.: DELTA ¹⁵N AND DELTA ¹³C SIGNATURES OF MESOZOOPLANKTON SPECIES AND SESTON SIZE FRACTIONS FROM THE CENTRAL BALTIC SEA: BORNHOLM BASIN.
65. Velasco, J.; Millán, A.; Barahona, J.; Abellán, P.; Sánchez-Fernández, D.: FOOD WEB ANALYSIS OF A SALINE STREAM USING STABLE ISOTOPES
66. Bartrons, M.; de Mendoza, G.; Catalan, J.: A STABLE ISOTOPE APPROACH TO FOOD WEB STRUCTURE IN HIGH-MOUNTAIN LAKES THROUGHOUT AN ALTITUDINAL GRADIENT
67. BASS, A. M.; WALDRON, S.; ADAMS, C. E.; PRESTON, T.: DISSOLVED ORGANIC CARBON IN LOCH LOMOND, SCOTLAND: SPATIAL VARIATION IN CONCENTRATION AND CARBON ISOTOPIC COMPOSITION.
68. Jaschinski, S.; Brepohl, D. C.: TROPHIC IMPORTANCE OF EPIPHYTIC ALGAE IN A MACROPHYTE SYSTEM: STABLE ISOTOPE AND FATTY ACID ANALYSES
69. Brulemark, A.; Granéli, E.; Granéli, W.: THE CARBON ISOTOPE "FINGERPRINT" WITHIN ALGAL SPECIES
70. Lindehoff, E.; Granéli, E.; Granéli, W.: THE INFLUENCE OF INORGANIC AND ORGANIC NUTRIENTS ON THE STABLE ISOTOPE COMPOSITION, GROWTH AND TOXICITY OF THE MIXOTROPHIC HAPTOPHYTE PRYMNESIUM PARVUM.
71. Jones, W. B.; Cifuentes, L. A.; Rauschenberg, C. D.: NEW METHOD FOR ISOTOPIC ANALYSIS OF DOC IN SEAWATER
72. Davis, J. A.; Dias, R. F.: OXYGEN ISOTOPE ANALYSIS OF DISSOLVED ORGANIC MATTER
73. Mino, Y.; Saino, T.; Imai, K.; Tsurushima, N.; Nojiri, Y.: SEASONAL VARIATION IN THE STABLE CARBON AND NITROGEN ISOTOPES BIOGEOCHEMISTRY OF THE SUBARCTIC WESTERN NORTH PACIFIC

SS15: Food Webs End-to-end, Including the Ecosystem Approach to Living Marine Resources

Chair(s): Richard B. Rivkin, rivkin@mun.ca
Louis Legendre, legendre@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia

74. Guenther, M.; Gonzalez-Rodriguez, E.; Valentin, J. L.: PRODUCTION-BIOMASS RELATIONSHIPS OF SIZE-FRACTIONATED PHYTOPLANKTON IN A TROPICAL EUTROPHIC BAY (GUANABARA BAY, RIO DE JANEIRO, BRAZIL)
75. Malzahn, A. M.; Clemmesen, C.; Wiltshire, K. H.; Laakmann, S.; Boersma, M.: TROPHIC INTERACTIONS BETWEEN COPEPOD, LARVAL FISH AND CTENOPHORE DURING A SPRING BLOOM AT HELGOLAND ISLANDS.
76. Mostajir, B.; Nougier, J.; Got, P.; Bouvier, T.; Sime-Ngando, T.; Troussellier, M.; Laugier, T.; Charrière, B.; Pons, E.; Elguezal-Mendez, M.: A MESOCOSM APPROACH TO EVALUATE COASTAL FOOD WEB RESPONSES TO RAIN AND RIVER WATERS
77. Martinho, E.; Leitão, R.; Neto, J. M.; Cabral, H.; Marques, J. C.; Pardal, M. A.: GROWTH AND FEEDING ECOLOGY OF JUVENILE SEA BASS, FLOUNDER AND SOLE IN A TEMPERATE ESTUARY, PORTUGAL

SS36: Non-extremophilic Archaea in Aquatic Environments

Chair(s): Lydie Herfort, Herfort@nioz.nl
Randall E. Hicks, rhicks@imap.d.umn.edu

Location: Palacio de Congresos y Exposiciones de Galicia

157. Jurgens, G.; Montonen, L.; Munster, U.: UPDATED PHYLOGENY OF ARCHAEA DOMAIN
158. Bañeras, L.; Plasencia, A.; Llorés, M.; Casamayor, E. O.; Borrego, C. M.: EVALUATION OF DIFFERENT CULTURING STRATEGIES FOR THE SELECTIVE ENRICHMENT OF NON-THERMOPHILIC PLANKTONIC CRNARCHAEOTA

(^c) represents Tutorial presentations

SS37: Size Structure of Plankton Communities

Chair(s): Xabier Irigoien, xirigoien@pas.azti.es
 Roger Harris, r.harris@pml.ac.uk
 Angel Lopez-Urrutia, alop@gi.ieso

Location: Palacio de Congresos y Exposiciones de Galicia

159. Kamenir, Y. G.; Dubinsky, Z.; Zohary, T.: TAXONOMIC SIZE SPECTRA OF LAKE KINNERET PHYTOPLANKTON REVEAL STABLE PATTERNS
160. Moller, E. E.: SLOPPY FEEDING IN MARINE COPEPODS: PREY-SIZE-DEPENDENT PRODUCTION OF DISSOLVED ORGANIC CARBON
161. González-Nuevo, G.; Valdés, L.; Nogueira, E.: SEASONAL CYCLE OF MESOPLANKTON BIOMASS AND SIZE-STRUCTURE IN THE CENTRAL CANTABRIAN SEA (SOUTHERN BAY OF BISCAY)
162. Cermeño, P.; Marañón, E.; Harbour, D.; Harris, R. P.: SIZE SCALING OF PHYTOPLANKTON ABUNDANCE IN CONTRASTING MARINE ENVIRONMENTS
163. Harris, R. P.; San Martín, E.; Irigoien, X.; Zubkov, M.; Heywood, J.: SPATIAL VARIATION IN PLANKTON SIZE SPECTRA ALONG A 50°N TO 50°S LATITUDINAL TRANSECT OF THE ATLANTIC
164. Inoue, K.; Nishimura, M.; Kogure, K.: DENSITY-DEPENDENT CELL SORTING FOR ECOLOGICAL CONSIDERATION ON THE BUOYANT DENSITY OF MARINE BACTERIA
165. González, J.; Fernández, E.; Pérez, V.; Cermeño, P.; Marañón, E.; Varela, M.: SPATIAL VARIABILITY OF THE SIZE FRACTIONATED PRODUCTION/CHL A RATIO IN THE OCEAN.
166. Almesjõ, L.; Rolff, C.: SEASONAL CHANGES IN FILAMENT LENGTH OF THE BALTIC SEA CYANOBACTERIUM APHANIZOMENON SP.

SS38: Microbial Plankton Ecology and Biogeochemical Fluxes in the Subtropical Gyres

Chair(s): Emilio Marañón, em@uvigo.es
 Ricardo Letellier, letellier@coas.oregonstate.edu

Location: Palacio de Congresos y Exposiciones de Galicia

176. Gist, N.; Robinson, C.: SPATIAL AND TEMPORAL VARIABILITY OF THE BALANCE BETWEEN MARINE PLANKTON PRODUCTION AND RESPIRATION
177. Landolfi, A.; Purdie, D. A.; Sanders, R.: THE IMPORTANCE OF N₂ FIXATION AND TON AND TOP AS NUTRIENT SOURCE ACROSS THE NORTH ATLANTIC SUBTROPICAL GYRE
178. Ashby, D. M.; Robinson, C.: THE ATLANTIC MERIDIONAL TRANSECT PROGRAMME
179. Sempere, R.; Tedetti, M.; Charriere, B.; Nerini, D.; Tranier, M.; Claustre, H.; Ras, J.; Tieche, A.; Bricaud, A.; Raimbault, P.: UV IRRADIANCE PROFILES ASSOCIATED WITH BIO-OPTICAL PARAMETERS OF SEAWATER (CDOM, CHLOROPHYLL) AND OH RADICAL PHOTOPRODUCTION IN THE SOUTH EAST PACIFIC OCEAN
180. Grob, M. C.; Ulloa, O.; Alarcón, G.; Marie, D.; Claustre, H.: PICOPHYTOPLANKTON IN THE SOUTH PACIFIC SUBTROPICAL GYRE
181. Zinser, E. R.; Johnson, Z.; Coe, A.; Chisholm, S. W.: LINKING PHYSIOLOGY WITH ECOLOGY TO HELP INTERPRET GENETIC DIVERSITY WITHIN THE PROCHLOROCOCCUS LINEAGE
182. Foster, R. A.; Jenkins, B. D.; Zehr, J. P.: DIVERSE MICROBIAL ASSEMBLAGES CULTIVATED UNDER DIAZOTROPHIC CONDITIONS

SS41: Lipids in Trophic Interactions

Chair(s): Michael Arts, Michael.Arts@ec.gc.ca
 Eric von Elert, eric.vonelert@uni-konstanz.de

Location: Palacio de Congresos y Exposiciones de Galicia

34. Wold, A.; Leu, E.; Walkusz, W.; Falk-Petersen, S.: LIPID COMPOSITION IN DIFFERENT DEVELOPMENTAL STAGES OF CALANUS GLACIALUS DURING THE ARCTIC PHYTOPLANKTON SPRING BLOOM
35. Gutseit, K. C.; Berglund, O.; Graneli, W.: THE QUALITY OF POTENTIAL ZOOPLANKTON FOOD IN LAKES WITH CONTRASTING INFLUENCE OF TERRESTRIAL ORGANIC MATTER
36. Desvillettes, C.; Bec, A.; Vera, A.; Bourdier, G.: FATTY ACID COMPOSITION OF THE SIZE FRACTIONATED SESTON FROM THE OLIGOTROPHIC LAKE ANNECY (FRANCE) – SEASONAL VARIATIONS.
37. Saito, H.; Tanaka, H.; Aono, H.; Hoshikawa, H.; Sakai, Y.: LIPID ANALYSIS OF ABALONES HALIOTIS DISCUS DISCUS AND HALIOTIS DISCUS HANNAI COLLECTED IN THE NORTHERN PACIFIC OCEAN

38. Peters, J.; Renz, J.; Hagen, W.: TROPHODYNAMICS AND LIFE CYCLE STRATEGIES OF THE COPEPOD PSEUDOCALANUS ACUSPES IN THE CENTRAL BALTIC SEA - EVIDENCE FROM LIPID COMPOSITION
39. Augspurger, C.; Gleixner, G.; Kusel, K.: ANALYZING CARBON FLOW IN A BIOFILM FOOD WEB USING STABLE ISOTOPES AND LIPID BIOMARKERS
40. PROKOPOWICZ, A.; FORTIER, L.: THEMISTO LIBELLULA JUST A CRUNCHY CRUSTACEAN OR A KEY CHANNEL FOR LIPIDS IN THE TROPHIC WEB?
41. Henery, R. E.; Chandra, S.; Goldman, C. R.: BENTHIC VS. PELAGIC DIETS IN JUVENILE RAINBOW TROUT (ONCORHYNCHUS MYKISS): EFFECTS ON GROWTH AND ESSENTIAL FATTY ACID CONTENT

SS43: Eutrophication and Harmful Algal Blooms

Chair(s): Edna Graneli, Edna.Graneli@hik.se

Patricia M. Gilbert, gilbert@hpl.umces.edu

Location: Palacio de Congresos y Exposiciones de Galicia

183. Hansen, P. J.; Lundholm, N.: THE INFLUENCE OF HIGH PH AND DIC LIMITATION ON THE GROWTH OF MARINE PLANKTONIC ALGAE
184. Tonk, L.; Visser, P. M.; Huisman, J.: ENVIRONMENTAL EFFECTS ON CYANOPEPTOLIN PRODUCTION OF THE HARMFUL CYANOBACTERIUM MICROCYSTIS
185. Revilla, M.; Gilbert, P. M.; Alexander, J.: UREA, A NUTRIENT RELATED TO HARMFUL ALGAL BLOOMS: ARE CONCENTRATIONS ACCURATELY DETERMINED IN COASTAL WATERS?
186. Carrasco, D.; Paniagua, T.; Moreno, E.; Wormer, L.; Fernández-del Campo, F.; Ouahid, Y.; De Hoyos, C.; Quesada, A.: TOXICITY VS TOXINS CONCENTRATION IN SPANISH RESERVOIRS
187. DiMarco, S. E.; Hettland, R. D.; Chapman, P.; Rowe, G.; Kiselkova, V.; Lahiry, S.; Guinasso, N. L.: ROLE OF INTERNAL AND SHELVES WAVES IN DISSIPATING BOTTOM HYPOXIA ON THE LOUISIANA SHELF DURING SUMMER 2004
188. Vakkilainen, K.; Horppila, J.; Vaisanen, A.; Sivonen, K.; Kairesalo, T.: SUBMERGED MACROPHYTES (ELODEA CANADENSIS) SHAPE THE IMPACTS OF PHOSPHORUS ENRICHMENT IN LAKE LITTORAL
189. Wormer, L.; Carrasco, D.; Paniagua, T.; Moreno, E.; Quesada, A.: DEGRADATION AND DYNAMICS OF DISSOLVED MICROCYSTINS IN A MEDITERRANEAN RESERVOIR
190. Dias, E. M.; Faria, N.; Pereira, P.; Franca, S.: GROWTH, TOXICITY AND MORPHOLOGY OF CYANOBACTERIUM APHANIZOMENON SP. LMECYA 31 UNDER DIFFERENT LABORATORY CULTURE CONDITIONS
191. Reizopoulou, S.; Stroglyludi, E.; Giannakourou, A.; Varkitzi, I.; Petermann, A.; Ramil, F.; Bareiro, A.; Graneli, E.; Pagou, K.: DOMOIC ACID DETECTION IN VARIOUS FUNCTIONAL GROUPS OF THE BENTHIC FOOD WEB IN RIA DE VIGO, SPAIN
192. Sousa, A. L.; Martins, I. I.; Pardal, M. A.; Marques, J. C.: INFLUENCE OF SALINITY, NUTRIENTS AND LIGHT ON GERMINATION AND GROWTH OF ENTEROMORPHA INTESTINALIS SPORES
193. Larsson, U.; Hajdu, S.; Elmgren, R.; Höglander, H.: CUTTING THE NITROGEN LOAD GIVES BETTER WATER QUALITY BUT MORE NITROGEN-FIXING CYANOBACTERIA IN A BALTIC BAY
194. Wheeler, S. M.; Levine, S. N.; Morrissey, L. A.; Vincent, W. F.: A COMPARISON OF SATELLITE SENSORS FOR MAPPING CYANOBACTERIA IN LAKE CHAMPLAIN
195. Varkitzi, I.; Maneiro, I.; Dahlman, J.; Graneli, E.; Pagou, K.: THE ROLE OF RUDITAPES DECUSSATUS IN THE FATE OF DOMOIC ACID IN A EUTROPHIC UPWELLING AREA OF THE SPANISH-ATLANTIC COAST
196. Cancellation
197. BRIENT, L. B.; LE ROUZIC, L. R.: DETECTION OF CYANOBACTERIA IN FRESHWATER BY A PHYCOCYANIN PROBE

SS45: Understanding the Plumbing of the Biosphere: Theory and Observations in Aquatic Systems (Homage to Ramon Margalef)

Chair(s): Marta Estrada, marta@icm.csic.es

Dolors Planas, planas.dolores@uqam.ca

Location: Palacio de Congresos y Exposiciones de Galicia

78. Nogueira, E.; Acuña, J. L.; Irigoien, X.; García-Soto, C.; Sostres, J. A.; Revilla, R.: LATE-WINTER PHYTOPLANKTON BLOOMS DRIVEN BY TRANSIENT ANTICYCLONIC WEATHER CONDITIONS IN A TEMPERATE SEA (SOUTHERN BAY OF BISCAY)
79. Cancellation
80. Scharek, R.; Latasa, M.; Massana, R.; Not, F.; Pedros-Alló, C.: DYNAMICS OF MICRO-, NANO- AND PICOPHYTOPLANKTON AT A COASTAL SITE IN THE NW MEDITERRANEAN

(* represents Invited presentations)

81. Guerra, A.: Valavanis, V.; Gonzalez, A. F.; Rocha, F. J.: ARCHITEUTHIS RECORDS AND RELATIONS TO OCEAN PROCESSES AND BOTTOM TOPOGRAPHY
82. Cozar, A.: Garcia, C. M.; Galvez, J. A.; Loisel, S. A.: TROPHIC MODELLING OF TWO NEOTROPICAL LAKES USING THE BODY SIZE AS KEY PARAMETER
83. Carr, M. E.: Schmeltz, M.: A SATELLITE-BASED EXPLORATION OF NUTRIENT SUPPLY AND ECOSYSTEM STRUCTURE
84. Egge, J. K.; Peters, F.; Thingstad, T. F.; Felipe, J.; Marrasé, C.: TURBULENCE STIMULATED UPTAKE OF PHOSPHATE IN LARGE PHYTOPLANKTON
85. Frisch, D.; Green, A. J.; Figuerola, J.: VIABILITY OF PROPAGULES OF AQUATIC INVERTEBRATES IN WATERFOWL FAECES COLLECTED IN DOÑANA, SOUTHWEST SPAIN

SS46: Allelopathy in Aquatic Systems

Chair(s): Catherine Legrand, catherine.legrand@hik.se

Karin Rengefors, Karin.Rengefors@limnol.lu.se

Location: Palacio de Congresos y Exposiciones de Galicia

42. Fistarol, G. O.; Legrand, C.; Granéli, E.: RESPONSE OF A TARGET MICROALGA TO ALLELOCHEMICALS UNDER STRESS CONDITIONS
43. Olli, K.; Trunov, K.: AUTO-TOXICITY OF PRYMNESIUM PARVUM
44. Suikkanen, S.: EFFECTS OF CYANOBACTERIA ON BALTIC SEA PHYTOPLANKTON
45. Nylund, G. M.; Cervin, G.; Hermansson, M.; Pavia, H.: CHEMICAL INHIBITION OF BACTERIAL COLONIZATION BY THE RED ALGA BONNEMAISONIA HAMIFERA

SS49: An Ocean Literacy Campaign

Chair(s): Michiko Martin, michiko.martin@noaa.gov

Francesca Cava, francesca.cava@noaa.gov

Location: Palacio de Congresos y Exposiciones de Galicia

46. Rogoff, D. A.; Dalton, J. B.; Duncan, C. M.; Palmer-Moloney, L. J.; Carpenter, E. J.: RESTORATION OF THE ESTUARINE WETLANDS OF SOUTHERN SAN FRANCISCO BAY: RESEARCH AND OUTREACH APPLICATIONS FOR IN SITU AND REMOTE SENSING CHARACTERIZATIONS
47. Muller-Karger, F. E.: RECOMMENDATIONS OF THE U.S. COMMISSION ON OCEAN POLICY ON EDUCATION AND THE U.S. OCEAN ACTION PLAN
48. Broglio, E.; Gili, J. M.; Gasol, J. M.; Pedrós-Allo, C.: GET INVOLVED WITH SCIENCE! WORKING AS SCIENTISTS WITH SCIENTISTS
49. Casey, K. S.; Martin, M. J.: IMPROVING OCEAN LITERACY THROUGH ONLINE ACCESS TO OCEANOGRAPHIC DATA AND INFORMATION
50. Wentworth, S. E.; Sackmann, B. S.: WATER QUALITY ASSESSMENT AS MEANS OF ENHANCING MIDDLE SCHOOL SCIENCE EDUCATION
51. Smith, D. R.; Greer, I. W.; Vieira, M. E.: THE MAURY PROJECT – A SUMMER WORKSHOP FOR TEACHERS ON THE PHYSICAL FOUNDATIONS OF OCEANOGRAPHY

SS52: Comparative Ecosystem Studies of Harmful Algal Blooms

Chair(s): Patrick Gentien, Patrick.Gentien@ifremer.fr

Alan Cembella, acembella@awi-bremerhaven.de

Grant C. Pitcher, gpitcher@deat.gov.za

Location: Palacio de Congresos y Exposiciones de Galicia

198. Orive, E.; Laza, A.; Seoane, S.; Urrutxurtu, I.; de la Sota, A.: RECURRENT HARMFUL PHYTOPLANKTON BOOMS IN THE NERVIÓN RIVER ESTUARY, NORTHERN SPAIN
199. Kuuppo, P.; Uronen, P.; Petermann, A.; Tamminen, T.; Granéli, E.: OCCURRENCE AND TOXICITY OF DINOPHYSA SPP. IN THE GULF OF FINLAND, THE BALTIC SEA
200. Crespo, B. G.; Figueiras, F. G.: PHYTOPLANKTON ASSEMBLAGES DISTRIBUTION ALONG THE WESTERN IBERIAN COAST AFFECTED BY A SPRING POLEWARD CURRENT
201. Karlson, B.: REAL TIME MONITORING OF HIGH BIOMASS HARMFUL ALGAL BLOOMS (HAB:S) USING A VERTICAL PROFILING SYSTEM IN THE SKAGERRAK, NE ATLANTIC
202. Genovesi-Giunli, B.; Mouillot, D.; Vaquer, A.; Laabir, M.; Pastoureaud, A.: THE RESTING CYST OF ALEXANDRIUM CATENELLA IN A MEDITERRANEAN LAGOON: SAMPLING STRATEGY AND QUANTIFICATION
203. Cedeño, D. J.; Armstrong, R. A.: POPULATION DYNAMICS OF THE HARMFUL DINOFLAGELLATE COCHLODINIUM POLYKRIKOIDES IN SOUTHWESTERN PUERTO RICO

SS55: Parasitism in the Plankton

Chair(s): Alf Skovgaard, skovgaard@icm.csic.es

D. Wayne Coats, coatsw@si.edu

Location: Palacio de Congresos y Exposiciones de Galicia

167. Cancellation
168. Kim, S.; Park, M. G.; Kim, K. Y.; Kim, C. H.; Yih, W.; Coats, D. W.: REVISITING THE SPECIES COMPLEX HYPOTHESIS FOR AMOEBOPOHYRA CERATII (DINOPHYTA)
169. Gast, R. J.: MOLECULAR PHYLOGENY OF A DINOFLAGELLATE PARASITE FROM THE SOLITARY RADIOLARIAN, THALASSICOLLA NUCLEATA
170. Albaina, A.; IRIGOIEN, X.: THE EFFECT OF THE PARASITIC DINOFLAGELLATE ELLOBIOPSIS SP. ON CALANUS HELGOLANDICUS AND CALANOIDES CARINATUS FECUNDITY IN THE BAY OF BISCAY
171. Johansson, M. B.; Tranvik, L. J.; Bertilsson, S.: DISTRIBUTION OF THE DINOFLAGELLATE PARASITE PARVILUCIFERA INFECTANS (PERKINSOZOA) ALONG THE SWEDISH COAST.

SS58: Global or Coastal Observations with Ships of Opportunity

Chair(s): Friedhelm Schroeder, friedhelm.schroeder@gkss.de

David Hydes, dhj@soc.soton.ac.uk

Franciscus Colin, franciscus.colijn@gkss.de

Location: Palacio de Congresos y Exposiciones de Galicia

52. Cancellation
53. Kaitala, S.; Laamanen, M.; Hällfors, S.: CYANOBACTERIA BLOOM INDEX FOR THE BALTIC SEA
54. Torning, K.; Lips, I.; Lips, U.: USE OF SHIPS OF OPPORTUNITY TO DETECT AND UNDERSTAND SHORT TIME SUMMER PHYTOPLANKTON BLOOMS
55. Rallsos, D. E.; Lavender, S. J.; Edwards, M.; Reid, P. C.; Pradhan, Y.: DEVELOPMENT OF A PROTOTYPE SYSTEM FOR DERIVING MAPS OF PHYTOPLANKTON TAXA: SPATIAL DISTRIBUTION OF DIATOMS AND DINOFLAGELLATES SINCE 1950 IN THE NORTH ATLANTIC

SS70: Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health

Chair(s): Dorte Krause Jensen, dkj@dmu.dk

Anna-Stiina Heiskanen, anna-stiina.heiskanen@jrc.it

Anne Lyche-Solheim, anne.lyche@niva.no

Location: Palacio de Congresos y Exposiciones de Galicia

86. Beiras, R.; Saco-Álvarez, L.; Pérez, P.; Lorenzo, J. I.; Sánchez-Marín, P.; Bellas, J.: PRENORMATIVE RESEARCH FOR THE IMPLEMENTATION OF SEAWATER QUALITY CRITERIA FOR METALS IN A SHELLFISH PRODUCTION AREA: THE GALICIAN RIAS (NW SPAIN)
87. Ellison, R. M.: NEW SOLID-STATE FLUORESCENCE SENSORS USED TO MONITOR PHOTOSYNTHETIC PARAMETERS AND ALGAL BIOMASS.
88. Woltho, A.; Heege, T.; Pinnel, N.; Schmieder, K.: REMOTE SENSING TECHNIQUES AND GIS MODELING APPROACHES FOR MONITORING THE SPATIAL DISTRIBUTION OF SUBMERGED VEGETATION AT LAKE CONSTANCE, GERMANY
89. Trobajo, R.; Cox, E. J.; Quintana, X. D.: PHENOTYPIC VARIABILITY IN THE DIATOM NITZSCHIA FRUSTULUM: IMPLICATION FOR TAXONOMY AND BIOMONITORING
90. Trigal, C.; Garcia- Criado, F.; Fernández- Aláez, C.: SEASONAL AND INTERANNUAL VARIABILITY IN THE MACROINVERTEBRATE COMMUNITY OF A MEDITERRANEAN POND: IMPLICATIONS FOR WATER QUALITY ASSESSMENT
91. De Hoyos, C.; Serrano, M. L.: PHYTOPLANKTON AS A BIOLOGICAL INDICATOR TO ASSESS THE ECOLOGICAL STATUS OF SPANISH RESERVOIRS
92. Schlüter, L.; Lauridsen, T. L.; Jørgensen, T.; Krogh, G.: THE USE OF PHYTOPLANKTON PIGMENTS FOR IDENTIFYING AND QUANTIFYING PHYTOPLANKTON GROUPS IN LAKES USING PIGMENT RATIOS DERIVED FROM CULTURES
93. Breine, J. J.; Maes, J.; Van den Bergh, E. C.; Goethals, P. L.; Quataert, P.; Simoens, I.; Van Thuyne, G.; Belpaire, C.: A FISH-BASED ASSESSMENT FOR THE ECOLOGICAL QUALITY OF THE BRACKISH SCHELDE ESTUARY IN FLANDERS (BELGIUM)
94. Martinez-Crego, B.; Romero, J.; Alcoveiro, T.: CHOICE OF DESCRIPTORS FOR ENVIRONMENTAL QUALITY MONITORING: THE EXAMPLE OF THE SEAGRASS POSIDONIA OCEANICA

^(c) represents Tutorial presentations

95. [Moller, T.](#); Martin, G.: ADVANCES IN THE DEVELOPMENT OF BIOLOGICAL INDICATORS FOR ASSESSMENT OF AQUATIC ECOSYSTEM HEALTH
96. [Drinovec, L.](#); Zrimec, A.; Berden Zrimec, M.; Tisler, T.; Razinger, J.: DELAYED LUMINESCENCE OF *LEMNA MINOR* AND *SCENEDESMUS SUBSPICATUS* AS A BIOINDICATOR OF WATER QUALITY
97. [Almeida, S. E.](#); Craveiro, S. C.; Calado, A. J.: PERFORMANCE EVALUATION OF BIOLOGICAL QUALITY INDICES BASED ON EPLITHIC DIATOM COMMUNITIES IN PORTUGAL
98. [Dalton, C.](#); Leira, M.; Taylor, D.; Jordan, P.; McGee, E.; Irvine, K.: AN IN-SIGHT INTO REFERENCE-STATUS FOR IRISH LAKES USING PALAEO-LIMNOLOGICAL METHODS
99. [Solimini, A. G.](#); Cardoso, A. C.; Premazzi, G.; Carvalho, L.; Lyche-Solheim, A.; Rekolainen, S.: APPLICATION OF THE MORPHOEDAPHIC INDEX (MEI) FOR ESTABLISHING REFERENCE PHOSPHORUS LEVELS IN EUROPEAN LAKES
100. [G. Toth, L.](#); Korponai, J.; Forro, L.; Tatrai, I.; Helminen, U.: ZOOPLANKTON AS A POSSIBLE BIOLOGICAL ELEMENT FOR ECOLOGICAL QUALITY ASSESSMENT IN WFD
101. [Brendelberger, H.](#); Bobsien, I.; Baehrs, H.; Dittami, S.; Jacobsen, K.; Klauke, C.; Ostrau, C.: WALKING ON THE LAKE BOTTOM: AN INVESTIGATION ON FRESHWATER MUSSEL ASSOCIATIONS AND SEDIMENT CHARACTERISTICS IN A DRAINED RESERVOIR
102. [Coelho, J. P.](#); Pimenta, J.; Gomes, A. R.; Barroso, C. M.; Pereira, M. E.; Pardal, M. A.; Duarte, A.: IS *NASSARIUS RETICULATUS* AN EFFICIENT BIOINDICATOR FOR MERCURY CONTAMINATION IN ESTUARINE AND COASTAL AREAS?
103. [Herrmann, J.](#); Grenstadius, M.: IS THE SAUCER BUG (*APHELOCEIRUS AESTIVALIS*, HETEROPTERA) A GOOD INDICATOR OF LOW OXYGEN OR ACIDITY IN STREAMS?
104. [Sauer, M. J.](#); Moline, M. A.; Bissett, W. P.; Kohler, D. D.; Steward, R. G.; Zimmerman, R. C.; Dierssen, H. M.: DISTRIBUTION AND QUANTIFICATION OF ESTUARINE VEGETATION IN MORRO BAY, CA BY HYPERSPECTRAL IMAGERY

SS71: Role of Algal Mortality in the Dynamics of Harmful Blooms

Chair(s): Ed Buskey, buskey@utmsi.utexas.edu

Location: Palacio de Congresos y Exposiciones de Galicia

204. [Iaabir, M.](#); Tapilatu, Y.; Lassus, P.; Amzil, Z.; Vaquer, A.: SURVIVAL AND GERMINATION OF *ALEXANDRIUM CATENELLA* (A TOXIC DINOFLAGELLATE AFFECTING THAU LAGOON-MEDITERRANEAN SEA) AFTER ITS GUT PASSAGE IN *CRASSOSTREA GIGAS*

SS72: Assessing and Modelling Eutrophication

Chair(s): Alice Newton, anewton@ualg.pt

Location: Palacio de Congresos y Exposiciones de Galicia

205. [MARTINEZ, G. A.](#); SOTOMAYOR-RAMIREZ, D.; PEREZ-ALEGRIA, L. R.: DETERMINATION OF NUMERIC NUTRIENT CRITERIA IN RESERVOIRS OF PUERTO RICO
206. [Danielsson, A.](#); Rahm, L.; Papush, L.: CHANGING THE BALTIC SEA AS A CONSEQUENCE OF ALTERATIONS IN NUTRIENT LIMITATIONS
207. [Figueiredo da Silva, J.](#); Catarino, J. B.: CHANGES IN THE LOADS AND STOCKS OF NUTRIENTS AND THE CONTROL OF EUTROPHICATION IN THE RIA DE AVEIRO, PORTUGAL
208. [Newton, A.](#): ASSESSING AND MODELLING EUTROPHICATION
209. [SPATHARIS, S.](#); [TSIRTISIS, G.](#): PHYTOPLANKTON SPECIES ABUNDANCE PATTERNS IN THE AEGEAN/EASTERN MEDITERRANEAN: APPLICATION AND COMPARATIVE ANALYSIS OF VARIOUS STATISTICAL AND BIOLOGICAL MODEL
210. [Blanco, S.](#); Fernández-Aláez, M.; Romo, S.; Bécares, E.: RESPONSES OF EPIPHYTIC ALGAE TO NUTRIENT LOADING AND FISH PREDATION IN A SHALLOW LAKE
211. [Zervos, N.](#); Vinçon-Leite, B.; Humbert, J. F.; Paolini, G.; Tassin, B.: MODELLING PLANKTOTHRIX RUBESCENS DYNAMICS IN LAKE BOURGET (FRANCE)
212. [Cattaneo, A.](#); Pinel-Alloul, B.; Lambert, D.; De Sousa, S.: RESPONSE OF THE LITTORAL ZONE OF OLIGOTROPHIC LAKES TO INCIPIENT WATERSHED URBANIZATION
213. [Chung, E. G.](#); [Perez-Losada, J.](#); [Schladow, S. G.](#); [Robertson, D. M.](#): MODELING THE HYPEREUTROPHIC SALTON SEA

SS73: Coupling of Physical, Chemical and Biological Processes in Plankton Dynamics: A Quantitative Multidisciplinary Perspective

Chair(s): Yvan Lagadeuc, yvan.lagadeuc@univ-rennes1.fr

Jef Huisman, jef.huisman@science.uva.nl

Myriam Bormans, myriam.bormans@univ-rennes1.fr

Location: Palacio de Congresos y Exposiciones de Galicia

214. [Pemberton, K. L.](#); Smith, R. E.; Howell, T.; Silsbe, G. M.: FAST REPETITION RATE FLUOROMETRY AS A TOOL FOR MEASURING THE IMPACT OF NUTRIENT ENRICHMENT AND POLLUTION ON ALGAL PHOTOSYNTHESIS IN THE LAURENTIAN GREAT LAKES
215. [Ruiz, J.](#); Macias, D.; Peters, F.: TURBULENCE INCREASES THE AVERAGE SETTLING VELOCITY OF PHYTOPLANKTON CELLS.
216. [Pan, M.](#); Gallego, A.; Zuur, A.; Hay, S.: TEMPORAL PATTERNS OF DECAPOD LARVAL OCCURRENCE IN NORTHEAST SCOTLAND
217. [León, P. I.](#); Blanco, J. M.; Reul, A.; Jimenez, F.; Rodriguez, V.; Rodriguez, J.; Muñoz, M.; Gomis, D.; Flexas, M. M.; Ruiz, S.: RELATIONSHIP BETWEEN SPACE DISTRIBUTION OF PHYTOPLANKTON ABUNDANCES AND MESOSCALE CIRCULATION IN THE ALBORAN SEA (SOUTHWESTERN MEDITERRANEAN)
218. [Ariñ, L.](#); Segura, M.; Chic, O.; Blasco, D.; Estrada, M.: PHYTOPLANKTON DYNAMICS IN A COASTAL AREA IN FRONT OF BARCELONA (NW MEDITERRANEAN)
219. [Bautista, B.](#); Vargas, M.; Ramirez, T.; Reul, A.; Aguilera, J.; Mercado, J.; Cortés, D.; Sebastian, M.; Muñoz, M.: VARIABILITY OF PHYTOPLANKTON ACROSS AN UPWELLING AREA IN THE NW-ALBORAN SEA (WESTERN MEDITERRANEAN)
220. [Hayami, Y.](#); Koizumi, T.; Kohama, T.; Kaneda, A.; Nakano, S.; Takeoka, H.: THE MECHANISM OF PHYTOPLANKTON BLOOM INDUCED BY PERIODIC INTRUSIONS OF SHELF SLOPE WATER IN KITANADA BAY, BUNGO CHANNEL, JAPAN
221. Cancellation
222. [Fernandez de Puelles, M. L.](#); Jansa, J.; Morillas, A.; Vicente, L.; Aparicio, A.; Amengual, B.; Alou, E.: COUPLING BETWEEN PHYSICO-CHEMICAL AND PLANKTON COMMUNITIES IN A FRONTAL AREA OF THE BALEARIC SEA (WESTERN MEDITERRANEAN)

SS75: Advances at the Interface of Theoretical and Empirical Plankton Ecology

Chair(s): Chris Klausmeier, christopher.klausmeier@biology.gatech.edu

Elena Litchman, elena.litchman@biology.gatech.edu

Location: Palacio de Congresos y Exposiciones de Galicia

172. [Lind, O.](#); López, C.; López, M.; Dávalos-Lind, L.: PLANKTON HETEROGENEITY AND TROPHIC RELATIONS IN A HYPERTROPHIC TROPICAL CALDERA
173. [Norberg, J.](#): PREDICTIVE MODELS FOR DIVERSITY AND ECOSYSTEM FUNCTIONING
174. [Bullejos, F. J.](#); Delgado-Molina, J. A.; Medina-Sánchez, J. M.; Villar-Argaiz, M.; Carrillo, P.: THE STRENGTH OF THE ALGAE-BACTERIA COMMENSALISM ACROSS OPTICAL AND TROPHIC GRADIENTS IN SHALLOW LAKES OF SOUTHERN SPAIN
175. [Irwin, A. J.](#); Finkel, Z. V.: PREDICTING CHLOROPHYLL IN THE GLOBAL OCEAN: AN EMPIRICAL DATA-DRIVEN MODEL

SS79: Algal and Bacterial Cell Death: Incidence, Mechanisms and Consequences

Chair(s): Kay Bidle, bidle@imcs.rutgers.edu

Susana Agustí, sagusti@uib.es

Ilana Berman-Frank, irfrank@mail.biu.ac.il

Tom Berman, berman@amiad.org.il

Location: Palacio de Congresos y Exposiciones de Galicia

223. [Hayakawa, M.](#); Suzuki, K.; Kuwata, A.; Saito, H.; Nishioka, J.; Tsuda, A.: CELL VIABILITY OF PHYTOPLANKTON COMMUNITY IN THE NORTHWEST SUBARCTIC PACIFIC DURING SUMMER
224. [Zrimec, A.](#); [Kožar Logar, J.](#); [Berden Zrimec, M.](#); [Drinovec, L.](#); [Franko, M.](#); [Malej, A.](#): NEW METHODS IN PHYTOPLANKTON CELL LYSIS DETECTION: DELAYED LUMINESCENCE AND THERMAL LENS SPECTROMETRY
225. [Gonzalez-Gil/Sonsoles, G.](#); Escalera/Laura, E.; Reguera/Beatriz, R.: CELL DEATH PHENOMENA IN MARINE DINOFLAGELLATES

(*) represents Invited presentations

226. Bender, S. J.; Bidle, K. D.: MORTALITY IN THE DIATOM, THALASSIOSIRA PSEUDONANA, IN RESPONSE TO DIFFERING NUTRIENT STRESSES
227. Joux, F.; Conan, P.; Lantoine, F.; Obernosterer, I.; Jeffrey, W. H.; Abboudi, M.: DEPTH DISTRIBUTIONS OF SOLAR UV RADIATION EFFECTS ON BACTERIOPLANKTON AND PHYTOPLANKTON IN NW MEDITERRANEAN COASTAL WATER DURING SUMMER

SS85: The Implementation of Observations in the Coastal Zone: The Global Ocean Observing System

Chair(s): Tom Malone, t.malone@ocean.us
Tony Knap, knap@bbsr.edu

Location: Palacio de Congresos y Exposiciones de Galicia

56. Cancellation
57. Gorsky, G.; ZOOPNEC group; CIESM Task Force on Zooplankton Indicators; HARMONIZATION OF LONG-TERM ZOOPLANKTON TIME SERIES IN THE MEDITERRANEAN.
58. Nelson, J. R.; Seim, H. E.; Bacon, R. H.; Fletcher, M.; Mooers, C. N.; Weisberg, R. H.; Werner, F. E.: THE SOUTHEAST ATLANTIC COASTAL OCEAN OBSERVING SYSTEM (SEACOOS): IMPLEMENTING A REGIONAL PROGRAM IN THE SOUTHEASTERN UNITED STATES

Friday, 24 June 2005

RS01: Fish Ecology

Chair(s): Franz Uiblein, franz@imr.no

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 09:45 Hsieh, C.; Sugihara, G.: FISHING EFFECTS ON THE VARIABILITY OF FISH POPULATIONS
- 10:00 Uiblein, F.; Wienerroither, R.; Youngbluth, M.; Miya, M.: MESOPELAGIC FISH DIVERSITY AND ABUNDANCE IN FOUR CANYONS ALONG THE SOUTHERN MARGIN OF GEORGES BANK, NW ATLANTIC
- 10:15 Urtizberea, A.; Irigoien, X.; Zarauz, L.; Alvarez, P.; Santos, M.: FACTORS AFFECTING SARDINE AND ANCHOVY EGG DISTRIBUTION IN THE BAY OF BISCAY.
- 10:30 Bronmark, C.; Skov, C.; Brodersen, J.; Hansson, L. A.: SEASONAL FISHMIGRATIONS IN A SHALLOW, EUTROPHIC LAKE: CAUSES AND CONSEQUENCES
- 10:45 Haas, K.; Diehl, S.: MANAGEMENT OF SHALLOW LAKE SYSTEMS FOR WATERFOWL: FIRST RESULTS FROM REPLICATED LARGE-SCALE, WHOLE-POND EXPERIMENTS

RS04: Benthos

Chair(s): Victoriano Urgorri, bavituco@usc.es

Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7

- 09:45 Meyerdiets, A.; Kube, M.; Richter, M.; Teeling, H.; Reinhardt, R.; Amann, R.: METAGENOMIC FOSMID LIBRARY CONSTRUCTION AND COMPARISON OF 16S RRNA GENE CARRYING GENOMIC FRAGMENTS ASSIGNED TO THE ANME-1, ANME-2A, ANME-2C, AND ANME-3 CLUSTER
- 10:00 Murase, J.; Noll, M.; Frenzel, P.: THE IMPACT OF PROTISTS ON ACTIVITY AND STRUCTURE OF BACTERIAL COMMUNITY IN A FLOODED RICE FIELD SOIL
- 10:15 JESUS, T.: BIOLOGICAL WATER QUALITY EVALUATION ON PORTUGUESE NORTHERN RIVERS: COMPARISON OF RESULTS OBTAINED BY DIFFERENT BIOTIC INDEXES
- 10:30 Hedley, J. D.: MODELLING THE LIGHT ENVIRONMENT OF STRUCTURAL BENTHOS: A NEW RADIOSITY BASED APPROACH
- 10:45 Conway, M. J.; McGill, P. R.; Grech, C.; Graves, D.; Erickson, J.; Dawe, T. C.; Reynolds, R.: TRANSPORTING SCIENCE EQUIPMENT AND SAMPLES IN THE DEEP SEA USING BENTHIC ELEVATORS
- 11:30 Binzer, T.; Borum, J.; Larsen, P.; Pedersen, O.: DOES REDUCED WATER FLOW VELOCITY STIMULATE SEAGRASS DIEBACKS?
- 11:45 Borum, J.; Pedersen, O.; Greve, T. M.; Binzer, T.: IS SUDDEN SEAGRASS DIE-OFF CAUSED BY PLANT ANOXIA AND INVASION OF SULPHIDE?
- 12:00 de Juan, S.; Demestre, M.; Sanchez, P.; Sartor, P.; Ligas, A.; de Biasi, A.; Palanques, A.; Recasens, L.; Cartes, J.: SEASONAL AREA CLOSURE IN TWO MEDITERRANEAN TRAWL FISHING GROUNDS: CONSEQUENCES ON EPIBENTHIC FAUNA

- 12:15 Hiddink, J. G.; Forde, J.; Michel, Kaiser@bangor.ac.uk, M. J.: ECOSYSTEM EFFECTS OF CHRONIC BOTTOM TRAWLING DISTURBANCE ON MEIOFAUNAL COMMUNITIES
- 12:30 Kilgour, M. J.; Shirley, T. C.; Baldwin, A. P.: DEPTH DISTRIBUTION AND HABITAT OF THE RED DEEPSEA CRAB (CHACEON QUINQUEDENS) IN THE GULF OF MEXICO
- 12:45 Linares, C.; Coma, R.; Diaz, D.; Zabala, M.; Hereu, B.; Dantart, L.: IMMEDIATE AND DELAYED IMPACT OF A MASS MORTALITY EVENT ON A GORGONIAN POPULATION IN THE NW MEDITERRANEAN

SS06: Fate and Effects of Terrestrial DOM in Aquatic Ecosystems

Chair(s): Jan Karlsson, jan.karlsson@eg.umu.se

Morten Søndergaard, msondergaard@bi.ku.dk

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 09:45 Rosén, P.: TOTAL ORGANIC CARBON (TOC) OF LAKE-WATER DURING THE HOLOCENE INFERRED FROM LAKE SEDIMENTS AND NEAR-INFRARED SPECTROSCOPY IN EIGHT LAKES FROM NORTHERN SWEDEN
- 10:00 Xenopoulos, M. A.; Frost, P. C.: EFFECTS OF AGRICULTURAL LAND USE ON DISSOLVED ORGANIC MATTER IN STREAMS OF SOUTHERN ONTARIO, CANADA
- 10:15 Wang, X.; Litz, L.; Chen, R.; Feng, P.; Allabet, M.: MAJOR CONTRIBUTION OF CHROMOPHORIC DISSOLVED ORGANIC MATTER (CDOM) FROM DECOMPOSITION OF SALT MARSH CORDGRASS
- 10:30 Gilpin, L. C.; Davidson, K.; Leakey, R. J.; Foulland, E.; Mitchell, E.; Laurent, C. E.; Alvarez-Calleja, I.: THE INFLUENCE OF THE BALANCE OF INORGANIC & ORGANIC NITROGEN ON MICROBIAL FOOD WEB TROPHIC DYNAMICS.
- 10:45 Graneli, W.; Kritzberg, E.; Nylander, C.: THE FATE OF ALLOCHTHONOUS AND AUTOCHTHONOUS CARBON IN A LAKE UNDER VARIOUS SCENARIOS OF DOC INPUT, PHOTOOXIDATION AND HYDRAULIC RESIDENCE TIME

SS14: Nutrient Return Pathways to the Upper Ocean and Their Climate Sensitivity on Decadal to Centennial Time Scales

Chair(s): Andreas Oschlies, andreas.oschlies@soc.soton.ac.uk

Jorge L. Sarmiento, jls@princeton.edu

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 11:30 Follows, M. J.; Dutkiewicz, S.; Parekh, P.; Ito, T.; Williams, R. G.: REGULATION OF MACRO-NUTRIENT AVAILABILITY BY CIRCULATION AND IRON.~
- 12:00 Rintoul, S. R.: NUTRIENT RETURN BY THE SOUTHERN OCEAN OVERTURNING CIRCULATION: EFFICACY, PATHWAYS, AND SENSITIVITY TO CHANGE
- 12:15 Marinov, I.; Gnanadesikan, A.; Toggweiler, J. R.; Sarmiento, J. L.: THE SOUTHERN OCEAN CONTROL ON GLOBAL BIOLOGICAL PRODUCTION AND ATMOSPHERIC CO2
- 12:30 Hales, B.; Moun, J.; Karp-Boss, L.: TURBULENT SUPPLY OF PELAGIC NUTRIENTS TO THE COASTAL SURFACE OCEAN, AND THEIR SUBSEQUENT SEQUESTRATION IN THE DEEP-SEA
- 12:45 Corredor, J. E.; Morell, J. M.; Canals, M.; Capella, J. E.: NUTRIENT FLUX IN CARIBBEAN CYCLONIC EDDIES
- 13:30 Lewis, M. R.; Claustre, H.; Morel, A.; Raimbault, P.: NUTRIENT RETURN IN THE CLEAREST OCEAN WATERS
- 13:45 Palter, J. B.; Lozier, M. S.; Barber, R. T.: THE ROLE OF THE ADVECTIVE NUTRIENT IN ESTABLISHING THE NORTH ATLANTIC NUTRIENT RESERVOIR
- 14:00 Williams, R. G.; Roussenov, V.; Follows, M. J.: NUTRIENT STREAMS: HOW ARE THEY FORMED AND WHAT IS THEIR EFFECT ON THE NORTH ATLANTIC?
- 14:15 Measures, C. L.; Landing, W. M.; Brown, M. T.; Buck, C. S.: INCORPORATION OF DISSOLVED ALUMINIUM INTO THE MODE WATERS OF THE ATLANTIC AND PACIFIC OCEANS
- 14:30 MEMERY, L.; REVERDIN, G.: THE POMME EXPERIMENT : TRACER CHARECTERICS OF NE ATLANTIC MODE WATER AND IMPACT OF SMALL AND MEDIUM SCALES
- 14:45 Sarmiento, J. L.; Simeon, J.; Gnanadesikan, A.: ROLE OF SUBANTARCTIC MODE WATER IN NUTRIENT SUPPLY TO THE MAIN THERMOCLINE
- 15:00 roy, T. M.; Matear, R. J.; Trull, T.: OXYGEN-BASED ESTIMATES OF BIOLOGICAL NEW PRODUCTION ARE BIASED BY THE LARGE-SCALE VENTILATION OF THE OCEANS
- 15:15 Moriceau, B.; Gallinari, M.; Passow, U.; Bucciarelli, E.; Ragueneau, O.: IMPORTANCE OF THE TYPE OF SINKING PARTICLES FOR BSI RECYCLING IN SURFACE, INTERMEDIATE AND DEEP WATERS

(~) represents Tutorial presentations

SS15: Food Webs End-to-end, Including the Ecosystem Approach to Living Marine Resources

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

Location: Puerto del Camino Hotel I, Breakout #10

- 11:30 [Legendre, L.](#); Rivkin, R. B.: CONTROLS OF MARINE PELAGIC FOOD WEBS ON BIOGEOCHEMICAL CARBON CYCLES-
- 12:00 [Dowell, M. D.](#); Platt, T.; Beaugrand, G.; Broomhead, D.; Campbell, J. W.; Devred, R.; Dutkiewicz, S.; Froese, R.; Hoepfner, N.; Kamykowski, D.; Mata, A. J.; Melin, F.; Moore, R. S.; Morales, J.; Povolina, J.; Sathyendranath, S.: USING OCEAN COLOUR TO ELUCIDATE THE FUNCTIONAL STRUCTURE OF MARINE ECOSYSTEMS: RESULTS OF AN INTERNATIONAL WORKING GROUP*
- 12:15 [Honjo, S.](#): VERTICAL PROPAGATION OF FOOD WEB FROM THE EUPHOTIC ZONE TO THE DEEP OCEAN FLOOR*
- 12:30 [Aumont, O.](#); Bopp, L.: IS IRON FERTILIZATION EFFICIENT TO OFFSET ATMOSPHERIC CO₂ INCREASE?*
- 12:45 [Dagg, M.](#); Liu, H.; Strom, S.: LARGE COPEPODS AND PHYTOPLANKTON COMMUNITY STRUCTURE IN THE COASTAL GULF OF ALASKA.
- 13:30 [Pommier, J.](#); Gosselin, M.; Michel, C.; Roy, S.: LAGRANGIAN STUDY OF THE DECLINE AND FATE OF A NORTHWEST ATLANTIC SPRING BLOOM
- 13:45 [Rivkin, R. B.](#); Anderson, M. R.; Richardson, A. J.; Edwards, M.; Reid, P. C.; Legendre, L.: CLIMATE EFFECTS ON FOOD WEB DYNAMICS AND TROPIC COUPLING IN THE NORTH ATLANTIC
- 14:00 [Van den Meersche, K.](#); Middelburg, J. J.; Soetaert, K.; Van Rijswijk, P.; Dijkman, N. A.: A DUAL TRACER STUDY OF ALGAL-BACTERIAL INTERACTIONS AND TRANSFER TO COPEPODS IN AN ESTUARINE FOODWEB
- 14:15 [Engelke, C. J.](#); Schwaderer, A. S.; Wiltshire, K. H.: SPRING BLOOM IN A BOTTLE – IS AN UNKNOWN WATER QUALITY CONTROLLING BLOOM SUCCESSION?
- 14:30 [Schwaderer, A. S.](#); Engelke, C. J.; Wiltshire, K. H.: SPRING BLOOM IN A BOTTLE – TRYING TO UNDERSTAND THE MECHANISMS BEHIND PHYTOPLANKTON SUCCESSION
- 14:45 [Daneri, G.](#); Pantoja, S.; Gonzalez, H.; Quiñones, R.; Gonzalez, R.: CARBON FLUXES IN THE HUMBOLDT CURRENT SYSTEM (HCS): A SYNTHESIS
- 15:00 [Sastri, A. R.](#); Dower, J. F.: INSTANTANEOUS ESTIMATES OF COPEPOD COMMUNITY GROWTH AND DEVELOPMENT RATES VIA MEASUREMENTS OF CHITINASE DECAY RATES
- 15:15 [HECO, J. H.](#); Descamps, E.; Goffart, A. L.: THE PELAGIC ECOSYSTEM CONTROL IN THE OLIGOTROPIC BAY OF CALVI (CORSICA, NORTHWESTERN MEDITERRANEAN)

SS20: Diazotrophy in the Ocean: Rates, Causes and Consequences

Chair(s): Aubert Le Bouteiller, Aubert.Le-Bouteiller@noumea.ird.nc
Cecile Dupouy, dupouy@noumea.ird.nc

Location: Palacio de Congresos y Exposiciones de Galicia Obradoiro Hall, Breakout #3

- 11:30 [Mulholland, M. R.](#): N (C AND P) CYCLING IN COMMUNITIES DOMINATED BY THE MARINE DIAZOTROPH, TRICHODESMIUM-
- 12:00 [Capone, D. G.](#); Mahaffey, C.; Montoya, J. P.: RECONCILING GEOCHEMICAL AND BIOLOGICAL VIEWS OF MARINE NITROGEN FIXATION *
- 12:15 [RAIMBAULT, P.](#); GARCIA, N.: NITROGEN FIXATION AND PRIMARY PRODUCTION IN THE SOUTH-WESTERN PACIFIC
- 12:30 [Garcia, N.](#); Raimbault, P.: DIAZOTROPHS IN THE SOUTH WEST PACIFIC : TRICHODESMIUM ET AL?
- 12:45 [NEVEUX, J.](#); TENORIO, M.; DUPOUY, C.: PHYCOERYTHRIN OF PELAGIC CYANOBACTERIA IN THE SOUTH WESTERN TROPICAL PACIFIC
- 13:00 [Moutin, T.](#); Van den Broeck, N.; Beker, B.; Dupouy, C.; Rimmelin, P.; Le Bouteiller, A.: PHOSPHATE AVAILABILITY AND THE CONTROL OF TRICHODESMIUM SPP. BIOMASS IN THE SW PACIFIC OCEAN
- 13:30 [Boström, K. H.](#); Riemann, L.; Hagström, Å.: ISOLATION OF HETEROTROPHIC POTENTIALLY NITROGEN FIXING BACTERIOPANKTON FROM THE BALTIC SEA: OBSTACLES AND SOLUTIONS
- 13:45 [White, A. E.](#); Letellier, R. M.; Spitz, Y. H.; Karl, D. M.: TRICHODESMIUM PHOSPHORUS DYNAMICS: HYPOTHESIS TESTING OF THE SIGNIFICANCE OF DOP UTILIZATION, VARIABLE STOICHIOMETRY AND DIP ACQUISITION VIA VERTICAL MIGRATION
- 14:00 [Staal, M. J.](#); Lintel-Hekkert, S.; Stal, L. J.: IS TEMPERATURE THE KEY TO THE GEOGRAPHICAL DISTRIBUTION OF N₂ FIXATION IN THE OCEAN?

- 14:15 [Masotti, L.](#); Ruiz-Pino, D.; Le Bouteiller, A.: PHOTOSYNTHETIC CHARACTERISTICS OF TRICHODESMIUM SPP AT THE SW PACIFIC
- 14:30 [AGAWIN, N. R.](#); Huisman, J.; Veldhuis, M.; Hol, S.; Servatius, L.; van Overzee, H.: EXPERIMENTAL ANALYSES ON COMPETITION FOR LIGHT AND NITROGEN BETWEEN N₂ AND NON-N₂-FIXING PHYTOPLANKTON
- 14:45 [Dupouy, C.](#); Dirberg, G.; Tenorio, M.; Neveux, J.; Le Bouteiller, A.: SATELLITE TRICHODESMIUM OPTICAL SIGNATURE IN THE SOUTH WESTERN PACIFIC
- 15:00 [Le Bouteiller, A.](#); Dupouy, C.; Tenorio, M.: BLOOMS OF TRICHODESMIUM : FAVOURABLE OR UNFAVOURABLE ISSUE FOR THESE ORGANISMS?
- 15:15 [Hadas, O.](#); Pinkas, R.; Rushansky-Malinsky, N.; Nachaliel, N.; Wynne, D.; Corredor, P.; Witzel, K. P.: NITROGEN CYCLE IN LAKE KINNERET

SS23: The Urban Coast: A Growing World-Wide Trend

Chair(s): Russell Moll, rmoll@ucsd.edu

Linda Duguay, duguay@usc.edu

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 14:15 [BAIRD, R. C.](#): THE URBAN COAST: URGENCY AND THE IMPORTANCE OF INSTITUTIONAL CAPACITY BUILDING
- 14:30 [Flo, E.](#); Camp, J.; Masó, M.; Manzanera, M.: IMPLEMENTING THE EUROPEAN WATER FRAMEWORK DIRECTIVE. ASSESSMENT OF COASTAL WATER QUALITY IN THE NW MEDITERRANEAN USING PHYSICAL AND CHEMICAL VARIABLES
- 14:45 [Werner, A.](#); [Browne, K. L.](#); Savidge, G.; Dring, M. J.: USE OF MACROALGAE FOR BIOREMEDIATION OF NUTRIENT INPUTS FROM POINT AND NON-POINT SOURCES
- 15:00 [Jones, R. C.](#); Kelso, D. P.: TRENDS OVER TWO DECADES IN WATER QUALITY AND PHYTOPLANKTON IN EMBAYMENT AND CHANNEL SITES IN THE TIDAL FRESHWATER POTOMAC RIVER, USA
- 15:15 [Kaushal, S. S.](#); Groffman, P. M.: ECOSYSTEM RESTORATION AND DENITRIFICATION IN A COASTAL STREAM OF THE CHESAPEAKE BAY WATERSHED

SS25: Identification and Quantification of Major Feed-backs of Ocean Biology to Climate Change

Chair(s): Dieter Wolf-Gladrow, dewolf@awi-bremerhaven.de

Marion Gehlen, gehlen@cea.fr

Location: Palacio de Congresos y Exposiciones de Galicia Santiago Hall, Breakout #1

- 09:45 [Leonardos, N.](#); Geider, R. J.: EFFECT OF ELEVATED CO₂ ON ORGANIC AND INORGANIC CARBON FIXATION IN EMILIANA HUXLEYI.
- 10:00 [Hiscock, M. R.](#); Sweeney, C.; Sarmiento, J. L.: LIGHT AND IRON LIMITATION IN THE SOUTHERN OCEAN
- 10:15 [Hoffmann, L.](#); Peeken, I.; Assmy, P.; Veldhuis, M.; Lochte, K.: RESPONSE OF PICO-, NANO-, AND MICROPHYTOPLANKTON DURING THE SOUTHERN OCEAN IRON FERTILISATION EXPERIMENT EIFEX
- 10:30 [Peeken, I.](#); Hoffmann, L.; Assmy, P.; Bathmann, U.; Cisewski, B.; Leach, H.; Lochte, K.; Sachs, O.; Sauter, E.; Strass, V.: EXPORT OF FRESH ALGAL MATERIAL DURING THE SOUTHERN OCEAN IRON FERTILISATION EXPERIMENT, EIFEX

SS32: Diversity Among Components of the Microbial Loop

Chair(s): John Dolan, dolan@obs-vlfr.fr

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 09:45 [Lowe, C. D.](#); Montagnes, D. J.; Kemp, S. J.; Bates, A. D.: A MULTIDISCIPLINARY APPROACH TO EXAMINING ECOPHYSIOLOGICAL DIFFERENCES BETWEEN SIBLING SPECIES OF MICROZOOPLANKTON
- 10:00 [McManus, G. B.](#); Costas, B. A.; Snoeyenbos-West, O. L.; Pirog, K.; Katz, L. A.: A TALE OF TWO? CILIATES: STROMBIDIUM OCULATUM AND S. STYLIFER IN ATLANTIC TIDE POOLS
- 10:15 [Dolan, J. R.](#); Jacquet, S.; Torretón, J. P.: TAXONOMIC AND MORPHOLOGICAL DIVERSITY OF TINTINNIDS (PLANKTONIC CILIATES): RELATIONSHIPS WITH CHLOROPHYLL AND PRIMARY PRODUCTION IN NEW CALEDONIA
- 10:30 [Rehnstam-Holm, A.](#); McQuoid, M. R.; Karunasagar, I.; Godhe, A.: INVESTIGATING THE RESOLUTION OF SOME COMMON MOLECULAR TOOLS FOR STUDYING POPULATION GENETICS OF THE DIATOM SKELETONEMA
- 10:45 [Montesor, M.](#); Amato, A.; Kooistra, W.; Leviardi-Ghiron, J. L.; Procaccini, G.; Sarno, D.: CRYPTIC DIVERSITY IN THE DIATOM GENUS PSEUDO-NITZSCHIA

(*) represents Invited presentations

SS34: Plate Tectonics and Chemotrophy at Deep-sea Vents

Chair(s): F. Grant Ferris, grant.ferris@utoronto.ca
Danielle Fortin, dfortin@uottawa.ca

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 14:15 Scott, S. D.: PLATE TECTONICS, VOLCANISM AND HYDROTHERMALISM OF THE DEEP OCEAN FLOOR-
- 14:45 Takai, K.: MODE OF MICROBIAL ECOSYSTEM IN DEEP-SEA HYDROTHERMAL VENTS ASSOCIATED WITH TECTONIC SETTINGS
- 15:00 Ferris, F. G.: SUBMARINE TO SUBAERIAL TRANSITIONS IN MID-OCEAN RIDGE BACTERIAL MINERALIZATION: OBSERVATIONS FROM HYDROTHERMAL SYSTEMS IN ICELAND
- 15:15 James, R. E.; Kennedy, C. B.; Scott, S. D.; Ferris, F. G.: PRESERVATION POTENTIAL OF IRON-OXIDING BACTERIA AT SEAFLOOR HYDROTHERMAL VENTS

SS37: Size Structure of Plankton Communities

Chair(s): Xabier Irigoien, xirigoien@pas.azti.es
Roger Harris, r.harris@pml.ac.uk
Angel Lopez-Urrutia, alop@gi.ieo.es

Location: Puerto del Camino Hotel II, Breakout #11

- 09:45 Aksnes, D. L.; Troedsson, C.; Thompson, E. M.: ALLOMETRIC RELATIONSHIPS INTERPRETED FROM CELL DYNAMICS
- 10:00 Poulin, F. J.; Flierl, G. R.; Franks, P. J.: A SIZE-STRUCTURED PLANKTONIC ECOSYSTEM MODEL
- 10:15 Zhou, M.: WHAT DETERMINES THE SLOPE OF A BIOMASS SPECTRUM?
- 10:30 Schartau, M.; Armstrong, R. A.; Landry, M. R.: STATISTICAL METHODS FOR CHARACTERIZING PHYTOPLANKTON AND MICROZOOPLANKTON SIZE SPECTRA
- 10:45 San Martin, E.; López Urrutia, A.; Harris, R. P.; Irigoien, X.; Robinson, C.; Gist, N.; Poulton, A.: SCALING THE METABOLIC BALANCE OF THE OCEANS: A MACROECOLOGICAL PERSPECTIVE
- 11:30 Einkel, Z. V.; Irwin, A. J.; Schofield, O.; Falkowski, P. G.: SCALING-UP FROM SIZE-DEPENDENT PHYSIOLOGY TO THE SIZE STRUCTURE OF PHYTOPLANKTON COMMUNITIES OVER A RESOURCE GRADIENT
- 11:45 Estévez-Blanco, P.; Suggett, D. J.; Fernández, E.: SIZE-DEPENDENCE OF THE PHOTOCHEMICAL EFFICIENCY OF PHOTOSYSTEM II IN MARINE PHYTOPLANKTON UNDER NUTRIENT REPLETE CONDITIONS.
- 12:00 Harris, L. A.; Brush, M. J.; Nixon, S. W.: PREDICTION OF PHYTOPLANKTON PRODUCTION: USING THE METABOLIC THEORY OF ECOLOGY TO MOVE FROM EMPIRICAL TO MECHANISTIC ORIGINS FOR NUMERICAL MODELS
- 12:15 Reul, A.; Rodríguez, J.; Blanco, J. M.; León, P.; Burkil, P.: PHYSICAL AND BIOLOGICAL CONTROL OF MICROPHYTOPLANKTON SIZE STRUCTURE IN THE UPPER MIXED LAYER OF CELTIC SEA WATERS
- 12:30 Montecino, V.; Pizarro, G. M.; Paredes, M. A.; Vargas, C. A.; Uribe, P.; Astoreca, R.: PHYTOPLANKTON SIZE-DIVERSITY AND BIO-OPTICAL INTRA AND INTERANNUAL CHANGES IN AUSTRAL FJORDS AND CHANNELS.
- 12:45 Munawar, M.; Munawar, I. F.; El-Shaarawi, A.; Fitzpatrick, M.: CHANGING PHYTOPLANKTON SIZE STRUCTURE OF THE NORTH AMERICAN GREAT LAKES
- 13:30 Silbor, H.; Sommer, U.; Vadstein, O.: SILICATE, PHYTOPLANKTON SIZE STRUCTURE AND TROPHIC CASCADES IN MARINE PLANKTON COMMUNITIES: A MESOCOSM STUDY.
- 13:45 CARLOTTI, F.; HERLORY, O.: USE OF AN OPTICAL PLANKTON COUNTER TO ANALYSE MESOZOOPLANKTON COMMUNITY IN TIME SERIES.
- 14:00 Checkley, D.; Davison, P.; Powell, J.: INFERENCE FROM SIZE DISTRIBUTIONS OF PARTICLES IN THE CALIFORNIA CURRENT
- 14:15 Herman, A. W.; Baumgartner, M.; Checkley, D. M.: UTILIZATION OF BIOMASS SIZE SPECTRA IN MONITORING ZOOPLANKTON COMMUNITY STRUCTURE AND IDENTIFYING SPECIES.
- 14:30 Kimmel, D. G.; Zhang, X.; Roman, M. R.: SPATIAL AND TEMPORAL VARIABILITY IN FACTORS AFFECTING MESOZOOPLANKTON DYNAMICS IN CHESAPEAKE BAY: EVIDENCE FROM BIOMASS SIZE SPECTRA
- 14:45 Krupica, K. L.; Sprules, W. G.: SIZE-BASED INDICES USED TO DETECT SPATIAL AND TEMPORAL CHANGES IN SCOTIAN SHELF ZOOPLANKTON ASSEMBLAGES DURING A THREE-YEAR PERIOD OF HYDROGRAPHIC EXTREMES
- 15:00 SAITO, H.; TAKAHASHI, K.; TUSDA, A.: LARGER FAECAL PELLETS ARE MORE VULNERABLE: SIZE-DEPENDENT DETECTION OF SINKING PARTICLES BY OITHONA SIMILIS
- 15:15 Kamjunke, N.; Gaedke, U.: COMMUNITY COMPOSITION, TROPHIC STRUCTURE, PREDATOR-PREY WEIGHT RATIOS AND SIZE SPECTRA IN PLANKTON FOOD WEBS OF DIFFERENT COMPLEXITY

SS39: Ecological Thresholds of Sustainability in Aquatic Ecosystems

Chair(s): Michael F. Piehler, mpiehler@email.unc.edu
Hans Paerl, hans_paerl@unc.edu
Daniel Conley, dco@dnu.dk

Location: Palacio de Congresos y Exposiciones de Galicia #8/9, Breakout #4

- 11:30 Conley, D. J.; Duarte, C. M.: THRESHOLDS OF ENVIRONMENTAL SUSTAINABILITY IN COASTAL MARINE ECOSYSTEMS -
- 12:00 Hayden, B. J.; Stevens, C. L.; Zeldis, J. R.; Carter, C. M.; Plew, D.; Smith, A.: INFLUENCE OF TEMPORAL AND SPATIAL SCALES OF ECOSYSTEM VARIABILITY ON MARINE FARMING PRODUCTION THRESHOLDS IN NEW ZEALAND COASTAL EMBAYMENTS
- 12:15 Grabowski, J. H.; Clesceri, E. J.; Baukus, A.; Gaudette, J.; Yund, P. O.: ARE WE FARMING LOBSTERS IN THE GULF OF MAINE?
- 12:30 Petersen, J. K.; Hansen, J. W.; Laursen, M. B.; Conley, D. J.: REGIME SHIFT IN A COASTAL MARINE ECOSYSTEM
- 12:45 Piehler, M. F.; Valdes, L. M.; Paerl, H. W.: UTILIZING ECOLOGICAL THRESHOLDS IN WATER QUALITY MANAGEMENT OF THE NEUSE RIVER ESTUARY, NC USA
- 13:30 Garnier, J.; Billen, G.: PRODUCTION vs. RESPIRATION (P/R): A THRESHOLD INDICATOR FOR EVALUATING "GOOD" ECOLOGICAL FUNCTIONING
- 13:45 Cancellation
- 14:00 Parparov, A.; Gal, G.: EXAMINING THE SUSTAINABILITY LIMITS AS AN ELEMENT OF WATER QUALITY QUANTIFICATION

SS46: Allelopathy in Aquatic Systems

Chair(s): Catherine Legrand, catherine.legrand@hik.se
Karin Rengefors, Karin.Rengefors@limnol.lu.se

Location: Palacio de Congresos y Exposiciones de Galicia #15/16, Breakout #7

- 13:30 Kubaneck, J.; Prince, E. K.: RECENT ADVANCES IN OUR UNDERSTANDING OF ALLELOPATHY IN AQUATIC SYSTEMS -
- 14:00 Tillmann, U.; John, U.; Alpermann, T.; Cembella, A.: ON THE ALLELOCHEMICAL POTENCY OF THE GENUS ALEXANDRIUM*
- 14:15 Mulderij, G.; Mooij, W. M.; Van Donk, E.: ALLELOPATHIC GROWTH INHIBITION AND COLONY FORMATION OF THE GREEN ALGA SCENEDESMUS OBLIQUUS BY THE AQUATIC MACROPHYTE STRATIOTES ALOIDES
- 14:30 Rengefors, K.; Legrand, C.: ALLELOPATHY IN DINOFLAGELLATES - AN ADAPTATION TO MAINTAIN COMPETITORS AT LOW DENSITIES?
- 14:45 Legrand, C.; Brussaard, C. P.: PHYTOPLANKTON ALLELOCHEMICALS: LYTIC AND SUBLETHAL EFFECTS ON COMPETITORS
- 15:00 Giani, A.; Figueredo, C. C.: ALLELOPATHIC GROWTH INHIBITION OF PLANKTONIC ALGAE BY CYLINDROSPERMOPSIS RACIBORSKII
- 15:15 Prince, E. K.; Hicks, M. K.; Naar, J.; Villareal, T. C.; Kubaneck, J.: THE RED TIDE DINOFLAGELLATE KARENIA BREVIS USES CHEMICALLY-MEDIATED INTERFERENCE TO SUPPRESS COMPETING PHYTOPLANKTON

SS51: Exchange Processes in Upwelling Systems

Chair(s): M. Kosro, kosro@coas.oregonstate.edu
E. D. Barton, e.d.barton@im.csic.es

Location: Palacio de Congresos y Exposiciones de Galicia #13/14, Breakout #6

- 09:45 Shillington, F. A.: LARGE SCALE EXCHANGES IN THE BENGUELA CURRENT ECOSYSTEM -
- 10:15 Strub, P. T.; James, C.; Thomas, A. C.: SATELLITE ESTIMATES OF EDDY-MEDIATED OFFSHORE TRANSPORTS IN EASTERN BOUNDARY CURRENTS
- 10:30 Alvarez-Salgado, X. A.; Aristegui, J.; Barton, E. D.; Hansell, D. A.; Wheeler, P.: CONTRIBUTION OF UPWELLING FILAMENTS TO THE OCEAN CARBON CYCLE
- 10:45 Pastor, M. V.; Pelegrí, J. L.; Emelianov, M. V.; Font, J.; Salat, J.: DISTRIBUTIONS AND FLUXES OF MASS AND NUTRIENTS OFF NORTHWEST AFRICA DURING SPRING AND FALL
- 11:30 Letelier, R. M.; Abbott, M. R.; Cowles, T. J.; Barth, J. A.; Ashe, A.: COMBINING HIGH RESOLUTION IN SITU MEASUREMENTS AND SATELLITE OBSERVATIONS TO ESTIMATE SPATIAL PATTERNS OF PRIMARY PRODUCTION IN THE OREGON UPWELLING REGION
- 11:45 Botsford, L. W.; Lawrence, C. A.; Hastings, A.; Largier, J. L.; Dever, E. P.: EFFECTS OF INTENSITY AND TIME SCALE OF WIND ON BIOLOGICAL PRODUCTIVITY IN UPWELLING SYSTEMS WITH ADVECTIVE LOSS
- 12:00 Largier, J. L.: BAYS IN UPWELLING REGIONS - UPWELLING PLUMES, UPWELLING JETS, UPWELLING SHADOWS, AND UPWELLING TRAPS.

(^c) represents Tutorial presentations

- 12:15 Piedracoba, S.; Rosón, G.; Álvarez-Salgado, X. A.: ONSET AND DECAY OF A WINTER DIATOM BLOOM IN THE COASTAL UPWELLING SYSTEM OF THE RIA DE VIGO (NW IBERIAN PENINSULA)
- 12:30 Austin, J. A.: A POTENTIAL ROLE FOR UPWELLING IN ESTUARINE-OCEAN EXCHANGE
- 12:45 Herrera, J. L.; Rosón, G.; Varela, R. A.: SHORT TIME SCALE VARIABILITY OF THE WESTERN IBERIAN BUOYANT PLUME AND THE IBERIAN POLEWARD CURRENT IN THE GALICIAN SHELF (NW SPAIN)
- 13:15 Lipphardt, B. L.; Kirwan, Jr., A. D.; Paduan, J. D.; Kosro, P. M.: PARTICLE PATHWAYS IN UPWELLING SYSTEMS BASED ON HF RADAR-DERIVED SURFACE CURRENTS
- 13:30 Wu, D.; Zhou, M.: ZOOPLANKTON DISTRIBUTION AND TRANSPORT IN CALIFORNIA CURRENT OFF OREGON IN JUNE 2002
- 13:45 Tisnérat-Laborde, N.; Frank, N.; Paterne, M.; Chauvaud, L.: RADIOCARBON VARIATIONS RECORDED IN SCALLOP SHELLS AND DEEP-SEA CORALS ON THE NORWEGIAN SHELF: IMPLICATIONS FOR UPWELLING INTENSITY
- 14:00 Macías-Moy, D.; Martín, A. P.; Yool, A.; García, C. M.; Bruno, M.; Izquierdo, A.; Vázquez-Escobar, A.; Echevarria-Navas, F.: 1D PHYSICAL-BIOLOGICAL COUPLED MODEL ALONG THE STRAIT OF GIBRALTAR

SS56: Coastal Sand Ecosystem Dynamics

Chair(s): Perran Cook, pcook@mpi-bremen.de
Markus Huettel, mhuettel@ocean.fsu.edu

Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5

- 09:45 Janssen, F.; Cook, P.; Huettel, M.: INTEGRATED MEASUREMENTS OF SURFACE TOPOGRAPHY AND POREWATER FLOW IN SANDY SEDIMENTS
- 10:00 Cook, P. M.; Roy, H.; Huettel, M.: ADVECTIVE RELIEF OF CO₂ LIMITATION IN MICROHYOBENTHOS IN HIGHLY PRODUCTIVE SANDY SEDIMENTS
- 10:15 Evrard, V.; Cook, P.; Rijswijk, van, P.; Huettel, M.; Middelburg, J. J.: FATE OF BENTHIC MICROALGAE IN COARSE SANDY SEDIMENTS: A DUAL (13C AND 15N) TRACER PULSE-CHASE APPROACH
- 10:30 Huettel, M.; Cook, P.; Weslawski, J. M.; Middelburg, J.; Van Beusekom, J.; Glud, R.; Jaszewski, J.; Eskildsen, K.: COMPARING BIOGEOCHEMICAL PROCESSES IN NORTH SEA AND BALTIC COASTAL SANDS: RESULTS FROM THE EU-PROJECT COSA.
- 10:45 Forehead, H. J.; Thompson, P. A.; Kendrick, G. A.; Waite, A. M.: THE EFFECTS OF DIFFERENT HYDRODYNAMIC CONDITIONS ON SEDIMENT ECOLOGY AND NITROGEN FLUXES IN WESTERN AUSTRALIA

SS61: Linkage Between Pico, Nano-plankton and Biogeochemical Cycle in the Ocean

Chair(s): Yoshimi Suzuki, seysuzu@ipc.shizuoka.ac.jp
Loic Charpy, lcharpy@com.univ-mrs.fr
Beatriz E. Casareto, casaretobe@aol.com

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 11:30 Charpy, L.: CONTRIBUTION OF UNICELLULAR CYANOBACTERIA TO CORAL REEF NEW PRODUCTION
- 12:00 Zehr, J. P.; Delong, E. F.; Church, M. J.; Short, C.; Mondragon, E.; Jenkins, B. D.; Karl, D. M.: NITROGEN FIXATION BY NANOPLANKTON IN THE OPEN OCEAN: NEW PLAYERS PLAYING BY NEW RULES?
- 12:15 CASARETO, B. E.; SUZUKI, Y.; BLANCHOT, J.; CHARPY, L.: ROLE OF PICOPLANKTON AS ORGANIC MATTER SOURCE AND EXPORT FLUX IN CORAL REEF ECOSYSTEM*
- 12:30 SUZUKI, Y.; CASARETO, B. E.; CHARPY, L.; BLANCHOT, J.: LINKAGE BETWEEN DISSOLVED ORGANIC MATTER AND PICO, NANO-PLANKTON IN CORAL REEF AND COASTAL WATER
- 12:45 Obayashi, Y.; Suzuki, S.: SIGNIFICANT ACTIVITY OF "DISSOLVED" ENDOPEPTIDASES IN COASTAL SURFACE SEAWATER

SS63: Chemical Characterization of Dissolved Organic Matter in Aquatic Systems

Chair(s): Georgina Spyres, spyres@imcs.rutgers.edu
Alexandra Gogou, agogou@ath.hcmr.gr

Location: Puerto del Camino Hotel V, Breakout #9

- 09:45 Repeta, D. J.; Panagiotopoulos, C.; Johnson, C. J.; Aluwihare, L. I.: THE COMPOSITION AND CYCLING OF HIGH MOLECULAR WEIGHT DISSOLVED ORGANIC MATTER IN THE OPEN OCEAN. -

- 10:15 Kaiser, K.; Benner, R.: BACTERIAL CELL COMPONENTS IN VARIOUS SIZE FRACTIONS OF MARINE ORGANIC MATTER -
- 10:30 Simjouw, J. P.; Seitzinger, S. P.; Gruber, D. F.; Spyres, G.; Lauck, R.: MOLECULAR-LEVEL CHARACTERIZATION OF DOM COMPOUNDS PRODUCED BY BACTERIA
- 10:45 Jones, V.; Gogou, A.; Migon, C.; Repeta, D. J.: CHARACTERISATION AND CYCLING OF DISSOLVED ORGANIC MATTER IN THE NORTH-WESTERN MEDITERRANEAN SEA
- 11:30 Blough, N. V.; Del Vecchio, R.; Kujawinski, E. B.: MOLECULAR BASIS OF THE OPTICAL PROPERTIES OF MOUNT RAINIER HUMIC ACID
- 11:45 Aluwihare, L. I.; Herszage, J.; Barbeau, K. A.: CHEMICAL COMPOSITION AND IRON BINDING PROPERTIES OF PHOTOREACTIVE DISSOLVED ORGANIC MATTER (DOM) ISOLATED FROM MARINE ENVIRONMENTS
- 12:00 de Jesus, R. P.; Aluwihare, L. I.: CHEMICAL CHARACTERIZATION AND RADIOCARBON DATING OF DISSOLVED ORGANIC MATTER (DOM) EXTRACTED ONTO HYDROPHOBIC RESINS
- 12:15 Kawasaki, N.; Benner, R.: MECHANISMS OF DISSOLVED ORGANIC MATTER PRODUCTION BY BACTERIA
- 12:30 Tedetti, M.; Kawamura, K.; Charriere, B.; Sempéré, R.: DETERMINATION OF STABLE CARBON ISOTOPIC COMPOSITIONS OF LOW MOLECULAR WEIGHT DICARBOXYLIC ACIDS IN SEAWATER SAMPLES: BIOGEOCHEMICAL IMPLICATIONS
- 12:45 Truffelli, H.; Famiglioli, G.; Cappiello, A.; Capellacci, S.; Ricci, F.; Ingarao, C.; Penna, N.: PRESENCE OF OLIGOSACCHARIDES IN MUCILAGE SAMPLES OF ADRIATIC SEA WATER AND THEIR CHARACTERIZATION BY ESI-MS/MS.

SS67: Aquatic Pilgrimages: Non-Indigenous Species Invasions in Aquatic Ecosystems

Chair(s): Henry Vanderploeg, Henry.Vanderploeg@noaa.gov
Thomas Nalepa, Thomas.Nalepa@noaa.gov
Beatrix Beisner, beisner.beatrix@uqam.ca

Location: Palacio de Congresos y Exposiciones de Galicia #23/25, Breakout #8

- 09:45 Ricciardi, A.: PREDICTING THE OCCURRENCE AND IMPACT OF AQUATIC SPECIES INVASIONS -
- 10:15 Leung, B.; Delaney, D. G.: PREDICTING INVASIONS TO INLAND LAKES: WHAT TO DO WHEN YOU HAVE ONLY SPARSE DATA
- 10:30 Whitlow, W. L.; Henshaw, A. S.; Fick, S.: INTERACTIVE EFFECTS OF INVASIVE SPECIES, HARVESTING, AND HISTORY ON CLAM POPULATIONS IN MAINE, USA
- 10:45 Davis, M. H.; Davis, M. E.: PREDICTING SUCCESSFUL INVASIONS OF NON-INDIGENOUS SPECIES
- 11:30 Dunstan, P. K.; Bax, N.: MANAGEMENT OF AN INVASIVE MARINE SPECIES: DEFINING AND TESTING THE EFFECTIVENESS OF MANAGEMENT OPTIONS USING SIMULATED ECOSYSTEMS.
- 11:45 Voisin, M.; Engel, C.; Viard, F.: DIFFERENTIAL SHUFFLING OF NATIVE GENETIC DIVERSITY ACROSS INTRODUCED REGIONS IN A BROWN ALGA: AQUACULTURE VS. MARITIME TRAFFIC EFFECTS
- 12:00 Engelen, A. H.; Pearson, G.; Serrao, E.; Santos, R.: BROWN ALIEN INVASION: THE SEAWEEED SARGASSUM MUTICUM AT ITS SOUTHERN DISTRIBUTION LIMIT IN EUROPE
- 12:15 Beisner, B. E.; Hovius, J.; Paterson, A. M.; Heintsch, L.; Winter, J. G.; McCann, K. S.: LOWER TROPHIC LEVEL RESPONSE TO INVASION BY BYTHOTREPES LONGIMANUS IN INLAND CANADIAN LAKES
- 12:30 Strecker, A. L.; Arnott, S. E.: RESPONSES OF ZOOPLANKTON COMMUNITY STRUCTURE AND FUNCTION TO AN INVASIVE PREDATOR IN BOREAL LAKES
- 12:45 Foster, S. E.; Sprules, W. G.: SPECIES INVASION: TROPHIC INTERACTIONS AND COMMUNITY COMPOSITION
- 13:30 Young, J. D.; Yan, N. D.: SEASONAL VARIATION OF BYTHOTREPES BODY SIZE IN CANADIAN SHIELD LAKES: PLANKTIVORE INDUCED LIFE HISTORY SHIFTS?
- 13:45 Vanderploeg, H. A.; Pothoven, S. A.; O'Gorman, R. O.; Madenjian, C. P.; Schaeffer, J. S.; Warner, D. M.; Pichlova, R.; Liebig, J. R.: FISH PREDATION MEDIATED THE INVASION DYNAMICS AND ESTABLISHMENT OF TWO PREDATORY CLADOCERANS IN THE GREAT LAKES
- 14:00 Pichlova, R.; Vanderploeg, H. A.; Cavaletto, J. F.: EFFECTS OF TWO INVASIVE INVERTEBRATE PREDATORS, BYTHOTREPES LONGIMANUS AND CERCOPAGIS PENGOI ON ZOOPLANKTON COMMUNITY IN LAKE MICHIGAN
- 14:15 Nalepa, T. E.; Fanslow, D. L.; Foley, A. J.: DECLINES IN THE BENTHIC AMPHIPOD DIPOREIA IN THE GREAT LAKES: IS THERE EVIDENCE FOR FOOD LIMITATION CAUSED BY DREISSENIDS?
- 14:30 Pérez-Fuentetaja, A.; Lee, W. T.; Clapsadl, M. D.; Getchell, R. G.: INVASIVE DREISSENID MUSSELS AND OTHER INVERTEBRATES IMPLICATED AS A SOURCE OF TYPE E BOTULISM IN LAKE ERIE
- 14:45 Jara, C. G.; Solo, D. I.: BROWN TROUT EFFECTS ON NUTRIENT CYCLING IN STREAMS: EXPERIMENTAL EVIDENCES FROM MESOCOSMS IN SOUTHERN CHILE.

(*) represents Invited presentations

- 15:00 [Garcia-Vazquez, E.](#); Nuñez, P.; Juanes, F.: GENETIC ORIGIN OF INTRODUCED PATAGONIAN BROWN TROUT
- 15:15 [Jaeger, A. L.](#); Mason, D. M.; Krause, A. E.; Taylor, W. W.; Frank, K. A.: INVASIVE SPECIES IMPACTS ON ECOSYSTEM STRUCTURE AND FUNCTION: A COMPARISON OF ONEIDA LAKE, USA, BEFORE AND AFTER ZEBRA MUSSEL INVASION

SS70: Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health

Chair(s): Dorte Krause Jensen, dkj@dmu.dk

Anna-Stiina Heiskanen, anna-stiina.heiskanen@jrc.it

Anne Lyche-Solheim, anne.lyche@niva.no

Location: Puerto del Camino Hotel I, Breakout #10

- 09:45 [Helminen, U.](#); Josefson, A. B.; Perus, J.; Heiskanen, A. S.; van de Bund, W.: TOWARDS FUNCTIONAL TYPOLOGY OF COASTAL BALTIC SEA: VERIFICATION BASED ON PHYTOPLANKTON AND MACROZOOBENTHOS
- 10:00 [Borja, A.](#); Muxika, I.; Franco, J.: THE SUITABILITY OF AMBI (AZTI MARINE BIOTIC INDEX) IN ASSESSING THE BENTHIC ESTUARINE AND COASTAL HEALTH
- 10:15 [Perus, J.](#); Back, S.; Lax, H. G.; Westberg, V.; Kaupplia, P.; Bonsdorff, E.: COASTAL MARINE ZOOBENTHOS AS AN ECOLOGICAL QUALITY ELEMENT: A TEST OF ENVIRONMENTAL TYPOLOGY AND THE EUROPEAN WATER FRAMEWORK DIRECTIVE
- 10:30 [Labruno, C.](#); Amouroux, J. M.; Sarda, R.; Grémare, A.: USE OF THE BENTHIC QUALITY INDEX PRIOR TO THE APPLICATION OF THE EUROPEAN UNION FRAMEWORK DIRECTIVE IN THE MEDITERRANEAN SEA
- 10:45 [Brogdon, S. E.](#); Snell, T. W.; Morgan, M. B.: DETECTING CORAL RESPONSE TO ENVIRONMENTAL STRESS IN THE FIELD USING A CDNA ARRAY

SS71: Role of Algal Mortality in the Dynamics of Harmful Blooms

Chair(s): Ed Buskey, buskey@utmsi.utexas.edu

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 13:30 Cancellation
- 13:45 [Deonarine, S.](#); Gobler, C. J.; Lonsdale, D. J.; Caron, D. A.: THE IMPACT OF ZOOPLANKTON GRAZING AND TROPHIC STRUCTURE ON MORTALITY OF AUREOCOCCUS ANOPHAGEFERENS IN US MID-ATLANTIC ESTUARIES
- 14:00 [Sarnelle, O.](#); Wilson, A. E.: LOCAL ADAPTATION OF DAPHNIA PULICARIA TO TOXIC MICROCYSTIS AERUGINOSA
- 14:15 [Olson, M. B.](#); Lessard, E. J.; Foy, M. S.; Bernhardt, M. J.: FAILURE OF MICROZOOPLANKTON GRAZING ON THE TOXIGENIC DIATOM PSEUDONITZSCHIA CONTRIBUTES TO BLOOM FORMATION OFF THE COAST OF WASHINGTON STATE, USA
- 14:30 [Buskey, E. J.](#); Hyatt, C. J.: IS KARENIA BREVIS TOXIC TO PLANKTONIC GRAZERS?
- 14:45 [Jacobsen, A.](#); Martinez-Martinez, J.; Verity, P.; Frischer, M. E.; Sandaa, R. A.; Larsen, A.: ARE COLONIES OR COLONIAL CELLS OF PHAEOCYSTIS POUCHETII (PRYMNESIOPHYCEAE) SUSEPTIBLE TO VIRUS INFECTION?
- 15:00 Song, X.; [YIN, K.](#); Qian, P.; YU, Z.: RELEASE OF NUTRIENTS DURING COLLAPSE OF RED TIDES OF CILIATE MERIONECTA RUBRA: IMPLICATIONS FOR REDISTRIBUTION OF NUTRIENTS IN COASTAL WATERS DURING HABs

SS74: Biogeochemistry of Methane and Carbon Dioxide at High Concentrations

Chair(s): George W. Kling, gwk@umich.edu

Bernhard Wehrli, wehrli@eawag.ch

Location: Puerto del Camino Hotel V, Breakout #9

- 13:30 [Schmid, M.](#); Halbawachs, M.; Wüest, A.: SIMULATION OF THE EFFECT OF ARTIFICIAL DEGASSING ON THE STRATIFICATION OF LAKE NYOS
- 13:45 [Kling, G. W.](#); Evans, W. C.; Tanyileke, G.; Kusakabe, M.; Yoshida, Y.; Ohba, T.; Hell, J. V.: DEFUSING CERTAIN DISASTER: RESULTS FROM DEGASSING LAKES NYOS AND MONOUN IN CAMEROON, WEST AFRICA
- 14:00 [Kononov, S.](#); Ivanov, M.; Pimenov, N.; Wehrli, B.: METHANE BUDGET FOR THE OXIC/ANOXIC WATER COLUMN OF THE BLACK SEA: DATA SYNTHESIS, PARAMETERISATION OF BIOCHEMICAL TRANSFORMATIONS, NUMERICAL SIMULATION*

- 14:15 [Durisch-Kaiser, E.](#); Schubert, C.; Wehrli, B.: METHANOTROPHIC COMMUNITIES MEDIATING METHANE TRANSFORMATION IN MARINE AND FRESHWATER SYSTEMS
- 14:30 [Ostrovsky, I.](#); Eckert, W.: ACOUSTIC QUANTIFICATION OF METHANE EBULLITION FROM LAKE SEDIMENTS
- 14:45 [McGinnis, D. F.](#); Artemov, Y. G.; Greinert, J.; Wüest, A.; De Balist, M.; Egorov, V. N.: DISPERSED METHANE FLUX FROM NATURAL GAS BUBBLE STREAMS IN THE BLACK SEA
- 15:00 [Kortelainen, P.](#); Rantakari, M.; Huttunen, J. T.; Mattsson, T.; Alm, J.; Juutinen, S.; Larmola, T.; Silvola, J.; Martikainen, P. J.: SEDIMENT RESPIRATION AND LAKE TROPHIC STATE IMPORTANT PREDICTORS FOR THE LARGE CO₂ EVASION FROM SMALL BOREAL LAKES
- 15:15 [Coffin, R.](#); Pohlman, J.; Gardner, J.; Downer, R.; Wood, W.; Gettrust, J.; Diaz, J.: HYDRATE SURVEY ALONG THE MID CHILEAN COAST: A GEOPHYSICAL AND GEOCHEMICAL SURVEY

SS76: The Microbial World as an Effective Model System in Ecology

Chair(s): Thierry Bouvier, tbouvier@univ-montp2.fr

Thomas Pommier, thomas.pommier@hik.se

Location: Palacio de Congresos y Exposiciones de Galicia Compostela Hall, Breakout #2

- 13:30 [Jürgens, K.](#): PREDATION-MEDIATED EFFECTS ON BACTERIAL DIVERSITY, PHENOTYPES AND FUNCTIONS: FROM MODEL SYSTEMS TO THE REAL WORLD~
- 14:00 [Arndt, H.](#); Becks, L.; Jürgens, K.: CHAOS IN THE MICROBIAL WORLD: EXPERIMENTAL EVIDENCE FOR INTRINSICALLY REGULATED COMPLEX DYNAMICS OF A THREE-SPECIES MICROBIAL FOOD WEB
- 14:15 [Pernthaler, J.](#); Warnecke, F.; Schattenhofer, M.; Sommaruga, R.; Herndl, G. J.: LOCAL DISTRIBUTION OPTIMA OF AQUATIC MICROBES: EVIDENCE FROM TWO KILOMETERS ABOVE AND BELOW THE SEA LEVEL
- 14:30 [Lindström, E. S.](#); Forslund, M.; Algesten, G.; Bergström, A. K.: EXTERNAL CONTROL OF BACTERIAL COMMUNITY STRUCTURE IN LAKES
- 14:45 [Pommier, T.](#); Lundberg, P.; Hagström, Å.: GLOBAL PERSPECTIVE ON BACTERIOPANKTON DIVERSITY AND DISTRIBUTION.
- 15:00 [Davenport, R. J.](#); Read, L. F.; Head, I. M.; Pickup, R.; Sloan, W. T.; Curtis, T. P.: DO DIFFERENT MODELS OF PROKARYOTE SPECIES ABUNDANCE REFLECT FRESHWATER QUALITY?
- 15:15 [De Wit, R.](#); Taton, A.; Wilmotte, A.; Abed, R. M.; Garcia-Pichel, F.: WHAT CAN WE LEARN ABOUT BIODIVERSITY BY COMPARING MICROBIAL MATS MAINTAINED AS LABORATORY MODEL SYSTEMS WITH THEIR NATURAL COUNTERPARTS?

SS79: Algal and Bacterial Cell Death: Incidence, Mechanisms and Consequences

Chair(s): Kay Bidle, bidle@imcs.rutgers.edu

Susana Agustí, sagusti@uib.es

Ilana Berman-Frank, irfrank@mail.biu.ac.il

Tom Berman, berman@amiad.org.il

Location: Puerto del Camino Hotel III/IV, Breakout #12

- 09:45 [Bidle, K. D.](#); Haramaty, L.; Falkowski, P. G.: ROADS TO RUIN: THE DEVELOPMENT AND RELATIONSHIP OF PROGRAMMED CELL DEATH AND VIRAL INFECTION IN PHYTOPLANKTON~
- 10:15 [Agusti, S.](#); Alonso, P.; Labres, M.: CELL DEATH AS A PROCESS STRUCTURING PHYTOPLANKTON COMMUNITIES
- 10:30 [Labres, M.](#); Agustí, S.: PICO-PHYTOPLANKTON CELL DEATH INDUCED BY UV RADIATION: EVIDENCE FOR OCEANIC ATLANTIC COMMUNITIES
- 10:45 [Alonso-Laita, P.](#); Agustí, S.: HIGH DISSOLVED ORGANIC CARBON RELEASE BY PHYTOPLANKTON IN THE OLIGOTROPHIC OCEAN: A CONSEQUENCE OF CELL DEATH?
- 11:30 Mari, X.; Haramaty, L.; [Berman-Frank, I. R.](#): COUPLING OF AUTOCATALYTIC CELL DEATH AND TEP PRODUCTION IN TRICHODESMIUM
- 11:45 [Llewellyn, C. A.](#); de Menezes, A. B.; Tarran, G. A.; Cummings, D. G.: DECLINE OF A PHYTOPLANKTON SPRING BLOOM MONITORED USING PIGMENTS & THEIR TRANSFORMATION PRODUCTS: RELATIONSHIP WITH HETEROTROPHIC BACTERIA, NUTRIENTS & VIRUSES
- 12:00 Cancellation

(*) represents Tutorial presentations

- 12:15 Vardi, A.; Eisenstadt, D.; Murik, O.; Berman-Frank, I.; Levine, A.; Kaplan, A.: EXTRACELLULAR THIOL PROTEASE SENSITIZES THE DINOFLAGELLATE PERIDINIUM GATUNENSE TO OXIDATIVE STRESS THUS SYNCHRONIZING THEIR CELL DEATH
- 12:30 Tchernov, D.; Haramaty, L.; Bibby, T. S.; Gorbunov, M. Y.; Falkowski, P. G.: PROGRAMMED CELL DEATH IS A PART OF THE CELLULAR MECHANISM OF CORAL BLEACHING.
- 12:45 von Dassow, P.; Bearon, R. N.; Armbrust, E. V.; Grunbaum, D.: SEARCHING FOR SEX WHILE AVOIDING SUICIDE: THE PERSPECTIVE OF THE CENTRIC DIATOM THALASSIOSIRA WEISSFLOGII
- 12:45 Pohlon, E.; Marxsen, J.; Küsel, K.: EFFECT OF THE FLOW VELOCITY ON THE DEVELOPMENT AND FUNCTION OF BACTERIAL BIOFILMS IN A RIVER
- 13:30 Stal, L. J.; De Brouwer, J. F.: DIATOM BIOFILMS AND THE STABILITY OF INTERTIDAL MUDFLATS
- 13:45 Bellinger, B. J.; Hanlon, A. R.; Gretz, M. R.; Underwood, G. J.: POLYMER DYNAMICS AND CHEMISTRY FROM ESTUARINE BIOFILMS AND UNIALGAL DIATOM CULTURES
- 14:00 Cyr, H.: EFFECTS OF LIGHT AND SUBSTRATE ON THE COMPOSITION OF EPS IN THE LITTORAL SEDIMENTS OF OLIGOTROPHIC LAKES.
- 14:15 Caramujo, M. J.; Cartaxana, P.; Brotas, V.; Boavida, M. J.: PERIPHYTON COMPOSITION, HYDROLOGICAL REGIME, AND SEDIMENT GRANULOMETRY AS POPULATION STRUCTURING FORCES IN FRESHWATER BENTHIC COPEPODS
- 14:30 HERLORY, O.; BLANCHARD, G. F.; PLANCHE, S.; HUET, V.; RICHARD, P.: MICROSCALE VARIABILITY OF THE SIZE OF THE MICROPHYTOBENTHIC BIOFILM AND ITS EFFECT ON THE PHOTOSYNTHETIC YIELD IN INTERTIDAL MUDFLATS
- 14:45 Scherwass, A.; Budde, H.; Arndt, H.: THREE-DIMENSIONAL STRUCTURE OF BIOFILMS IN THE RIVER RHINE AND THE POSSIBLE STRUCTURING INFLUENCE OF CILIATES
- 15:00 Sayama, M.; Risgaard-Petersen, N.; Nielsen, L. P.; Fossing, H.; Christensen, P. B.: NITRATE ACCUMULATING SULFUR OXIDIZING BACTERIA CAN CREATE AND MAINTAIN A SULFIDE FREE ANOXIC ZONE IN COASTAL SEDIMENTS
- 15:15 Créach, V.; Sabbe, K.; Ernst, A.; Vanellander, B.; Vyverman, W.; Stal, L. J.: USING QUANTITATIVE REAL-TIME PCR TO STUDY NICHE DIFFERENTIATION IN CRYPTIC SPECIES COMPLEXES IN MICROBIAL BIOFILMS
- SS82: Benthic Biofilms in Freshwater and Marine Systems**
- Chair(s): Anna M. Romani, anna.romani@udg.es),
Helene Cyr, helene@zoo.utoronto.ca
Graham Underwood, gjcu@essex.ac.uk
- Location: Palacio de Congresos y Exposiciones de Galicia #10, Breakout #5
- 11:30 Battin, T. J.: WHO IS WHO ALONG THE LOTIC CONTINUUM? FROM BIOFILMS TO PARTICLES TO BIOFILMS*
- 11:45 Paterson, D. M.; Consalvey, M.: BENTHIC BIOFILMS: A COMPARATIVE APPROACH USING TRANSIENT BIOFILMS AND STROMATOLITES AS EXAMPLE SYSTEMS-
- 12:15 Stevenson, R. J.: BENTHIC BIOFILMS IN RIVERS: FROM ACHNANTHIDIUM TO ZYGNEMA *
- 12:30 Romani, A. M.; Artigas, J.; Giorgi, A.; Sabater, S.: COLONIZATION PATTERNS OF AUTOTROPHIC AND HETEROTROPHIC MICROORGANISMS ON RIVER BENTHIC SUBSTRATA

(*) represents Invited presentations

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Schedule Matrix Sunday

16:00 - 21:00	Registration - Palacio de Congresos y Exposiciones de Galicia	Registration - Palacio de Congresos y Exposiciones de Galicia	16:00 - 21:00
18:00 - 18:45	Introduction of President of ASLO - Santiago Hall, Palacio de Congresos y Exposiciones de Galicia Carlos M. Duarte, ASLO 2005 Summer Meeting Co-Chair	Introduction of President of ASLO - Santiago Hall, Palacio de Congresos y Exposiciones de Galicia Carlos M. Duarte, ASLO 2005 Summer Meeting Co-Chair	18:00 - 18:45
	Conference Welcome - Opening Address Jonathan J. Cole, ASLO President, Institute of Ecosystem Studies, USA	Conference Welcome - Opening Address Jonathan J. Cole, ASLO President, Institute of Ecosystem Studies, USA	
18:45 - 19:00	Eulogy to Dr. Robert Wetzel - Santiago Hall, Palacio de Congresos y Exposiciones de Galicia Gene E. Likens, Institute of Ecosystem Studies, USA	Eulogy to Dr. Robert Wetzel - Santiago Hall, Palacio de Congresos y Exposiciones de Galicia Gene E. Likens, Institute of Ecosystem Studies, USA	18:45 - 19:00
19:00 - 21:00	Opening Welcome Mixer Reception - Palacio de Congresos y Exposiciones de Galicia	Opening Welcome Mixer Reception - Palacio de Congresos y Exposiciones de Galicia	19:00 - 21:00

Schedule Matrix Monday

08:00 - 19:00	Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia												08:00 - 19:00
08:00 - 19:00	Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia												08:00 - 19:00
08:00 - 18:00	Registration - Palacio de Congresos y Exposiciones de Galicia												08:00 - 18:00
09:30 - 10:15	Opening Conference Ceremony - Santiago Hall, Palacio de Congresos y Exposiciones de Galicia Carlos M. Duarte and Emilio Fernández, ASLO 2005 Summer Meeting Co-Chairs												09:30 - 10:15
10:15 - 10:45	Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia												10:15 - 10:45
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*
Session	SS17	SS01	SS83	SS42	SS05	SS53	SS19	SS08	SS04	SS13	RS03	RS06	Session
Title	Viruses, Microbial Diversity and Ecosystem Function	Ecosystem Engineers in the Benthic Boundary Layer	Spatial Processes in Marine and Freshwater Ecosystems	Hydrology-related Downstream-effects on Lakes	Biogeochemistry of Tropical Rivers	Polar Aquatic Ecosystems and Environmental Change	Ecosystem Level Approach in Environmental Assessments of Maricultures	Carbon and Carbonate Fluxes in the Coastal Ocean	Climate Change in Ocean and Marginal Sea Ecosystems: Observation, Modeling, and Experiments	Stable Isotopes in Ecology and Biogeochemistry	Zooplankton	Physical Interactions	Title
10:45	Suttle, C. A.	Wotton, R. S.	Powell, T. M.	Stockner, J. G.	Victoria, R. L.	Deming, J. W.	Karakassis, I.	Mackenzie, F. T.	Casey, K. S.	York, J. K.	Takahashi, K.	Descolas, C.	10:45
11:00	Suttle, C. A.	Wotton, R. S.	Powell, T. M.	Stockner, J. G.	Tremblay, L.	Stramska, M.	Karakassis, I.	Mackenzie, F. T.	Wilshire, K. H.	Thor, P.	Gribsholt, B.	Henson, S. A.	11:00
11:15	Brun, J. R.	Bouma, T. J.	Sprules, W. G.	Humborg, C.	Martinelli, L. A.	Neale, P. J.	Hargrave, B. T.	Gruber, N.	Vázquez-Dominguez	Antajan, E.	Bouchard, J. N.	Banaszak, A. T.	11:15
11:30	Sime-Ngando, T.	Peralta, G.	Sprules, W. G.	Teodoru, C. R.	Ballester, V. R.	Wängberg, S. Å.	Dean, R.	Plattner, G. K.	Garde, K.	Meador, T. B.	Zitzmann, S.	Sander, J. A.	11:30
11:45	Winter Christian, C.	Folkard, A. M.	Visser, A. W.	Ashley, K. I.	McClain, M. E.	Leu, E.	Angel, D. L.	Dittmar, T.	Wedthey, D. S.	Wang, X.	Schultes, S.	Sandergaard, M.	11:45
12:00	Agis, M.	Ribes, M.	Blukacz, E. A.	Rydin, E.	Brandes, J. A.	Perin, S. L.	Lazar, B.	Barron, C.	Barth, J. A.	Frederiksen, M. S.	Tønnessen, K.	Achterberg, E. P.	12:00
12:15	Auguet, J. C.	Ackerman, J. D.	Currie, W. E.	Fleener, W. E.	Townsend-Smail, A.	Morán, X. A.	Malej, J.	Gattuso, J. P.	Llope, M.	Meili, M.	Augustin, C. B.	De Wever, A.	12:15
12:30	Weinbauer, M. G.	Ribes, M.	Butler, N. M.	Finger, D.	Rueda-Delgado, G.	Guadayo, Ó.	Erez, J.	Kuczer, C.	Christian, R. R.	King, L.	Baugsten, E.	Kromkamp, J. C.	12:30
12:45	Wang, K.	Koehl, M. A.	Basedow, S. L.	Chanudet, V.	McDowell, W. H.	Vaqué, D.	Eriz, J.	Dai, M.	Katsev, S.	Yamamoto, M.	Miller, C. B.	Berden Zrimec, M.	12:45
13:00	Rowe, J. M.	Hase, C.	Hunt, D. E.	Sherman, B. S.	Stonayor Ramirez, D. R.	Helmeke, E.	Holmer, M.	CAI, W.	Thistle, D.	Perga, M. E.	García-Roger, E. M.	Brookes, J. D.	13:00
13:15	Gobler, C. J.	Gascoigne, J. C.	Bees, M. A.	Matzinger, A.	Le Thi Phuong, Q.	McGillivray, P. A.	Ruiz, J. M.	Borges, A. V.	de Jonge, V. N.	Veuger, B. D.	Figuerola, J.	Peperzak, L.	13:15
13:30	Schroeder, D. C.	Williams, E.	Meredith, S. N.	Boehrer, B.	Robson, B. J.	Carroll, M. L.	Diaz-Almela, E.	Bosc, E.	Rauschenberg, C. D.	Rauschenberg, C. D.	Soldiro, C.	Soldiro, C.	13:30
13:45	LUNCH	Patterson, P.	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	Wasmund, N.	LUNCH	LUNCH	LUNCH	LUNCH	13:45
13:45 - 15:30	SCOR Working Group 126 Kick-Off Meeting - Room #15/16, Palacio de Congresos y Exposiciones de Galicia												13:45 - 15:30
13:45 - 18:30	Exhibitor and Poster Session I Set-up - Palacio de Congresos y Exposiciones de Galicia												13:45 - 18:30
14:00 - 15:15	ASLO Student/DIALOG Mixer Reception - Obradoiro Hall, Palacio de Congresos y Exposiciones de Galicia												14:00 - 15:15
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*
Session	SS17 (cont.)	SS01 (cont.)	SS83 (cont.)	SS89	SS28	SS53 (cont.)	SS19 (cont.)	SS08 (cont.)	SS49	SS13 (cont.)	RS03 (cont.)	SS73	Session
Title	Viruses, Microbial Diversity and Ecosystem Function	Ecosystem Engineers in the Benthic Boundary Layer	Spatial Processes in Marine and Freshwater Ecosystems	Global Limnology	Copper: A Micronutrient or Toxic Element in the Environment?	Polar Aquatic Ecosystems and Environmental Change	Ecosystem Level Approach in Environmental Assessments of Maricultures	Carbon and Carbonate Fluxes in the Coastal Ocean	An Ocean Literacy Campaign	Stable Isotopes in Ecology and Biogeochemistry	Zooplankton	Coupling of Physical, Chemical and Biological Processes in Plankton Dynamics	Title
15:30	Baudoux, A.	van Duren, L. A.	BULT, C.	Downing, J. A.	Morel, F. M.	Laybourn-Parry, J.	Thouzeau, G.	Semiletov, I. P.	Cava, F. M.	Bouillon, S.	Mayor, D. J.	Jöhn, K. D.	15:30
15:45	Sandaa, R. A.	GRALL, J.	Filken, Ø.	Kutser, T.	Morel, F. M.	Laybourn-Parry, J.	Borg, J. A.	Santos, R.	Cava, F. M.	Friedrich, M. W.	Leandro, S. M.	Klausmeier, C. A.	15:45
16:00	Pezzoli, P.	Volkenborn, N.	Durbin, E. G.	Prairie, Y. T.	Maldonado, M. T.	Priscu, J. C.	Bartoli, M.	Salisbury, J. E.	Coble, P. G.	Conrad, R.	Abrusán, G.	Steiner, N. S.	16:00
16:15	Brussaard, C. P.	Peine, F.	Sobel, S.	Trulsen, J.	Wells, M. L.	Taton, A.	Fallon, A.	Tuddenham, J. J.	Van Oevelen, P.	Van Oevelen, P.	Russen, H. P.	Lewis, D. M.	16:15
16:30	Bonilla-Findji, O.	Vitasalo, S.	Torgersen, T.	Waldron, S.	Tuit, C. B.	Pearce, D. A.	Jover, D. F.	Mateo, M. A.	Martin, M. J.	Grey, J.	Fripien, J.	Koslow, J. A.	16:30
16:45	Middelboe, M.	Cluat, A.	Piera/Jaume, J.	Green, A. J.	Moffett, J. W.	Camacho, A.	Beaz, D.	Hoover, D. J.	Widder, E. A.	Kankaala, P.	Hambright, K. D.	Vézina, A. F.	16:45
17:00 - 17:30	Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia												17:00 - 17:30
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*
Session	SS81	SS12	SS83 (cont.)	SS89 (cont.)	SS28 (cont.)	SS53 (cont.)	SS57	SS08 (cont.)	SS49 (cont.)	SS13 (cont.)	RS03 (cont.)	SS73 (cont.)	Session
Title	Single-cell Analyses in Aquatic Microbes: Patterns, Controls, and Linkages Between Biogeochemical Function and Microbial Diversity	Quantifying Bioturbation and Bio-irrigation: A 'Caminó' Beneath the Sediment-water Interface	Spatial Processes in Marine and Freshwater Ecosystems	Global Limnology	Copper: A Micronutrient or Toxic Element in the Environment?	Polar Aquatic Ecosystems and Environmental Change	Eutrophication, Macroalgal Blooms and Coastal Ecosystem Services	Carbon and Carbonate Fluxes in the Coastal Ocean	An Ocean Literacy Campaign	Stable Isotopes in Ecology and Biogeochemistry	Zooplankton	Coupling of Physical, Chemical and Biological Processes in Plankton Dynamics	Title
17:30	Kirchman, D. L.	Meyersman, F.	Cowles, T. J.	Gutierrez, J. D.	Arnold, W. R.	McKenna, K. C.	Valléa, I.	Millero, F. J.	Keener-Chavis, P.	Dienes, P.	Reichwaldt, E. S.	Cuypers, Y.	17:30
17:45	Kirchman, D. L.	Stief, P.	Eklov, P.	Brunberg, A. K.	van den Berg, C. M.	Moorehead, D. L.	Valléa, I.	Morse, J. W.	Lemus, J. D.	Martinetto, P. M.	SeB#271;a, J.	Pannard, A.	17:45
18:00	Tetra, E.	Madani, S.	Gruber/Mergemann, H.	Bastviken, D.	Sigg, L.	Karisson, J.	Pedersen, M. F.	Tribollet, A. D.	Moravchik, B.	Vincent, D.	Pinto-Coelho, R. H.	Bormans, M.	18:00
18:15	Eifantz, H.	Polerecky, L.	Leterme, S. C.	Brezonik, P. L.	Perez, P.	Korhola, A.	Nielsen, S. L.	Taubner, I.	Hammond, S. R.	Dijkman, N. A.	Cheng, L.	Loiselle, S. A.	18:15
19:00	Board Buses - Service at Romanesque Cathedral (Optional activity)												19:00

Clusters

A1	Microbial Biodiversity and Ecology
A2	Functional Role of Biodiversity
B1	Ocean Processes
B2	Continental & Coastal Processes
C	Biogeochemistry
D	Global & Climate Change
E	Applied Ecosystem Research
F	Metabolism & Stoichiometry
H	Perspectives & Frontiers
I	Concepts, Theories and Approaches
J1	Plankton: Communities and Life History
J2	Planktonic Processes

Concurrent Session Room Legend

Breakout	Location	Room	Cluster
#1	Palacio de Congresos y Exposiciones de Galicia	Santiago Hall	D
#2	Palacio de Congresos y Exposiciones de Galicia	Compostela Hall	A1
#3	Palacio de Congresos y Exposiciones de Galicia	Obradoiro Hall	F
#4	Palacio de Congresos y Exposiciones de Galicia	#8/9	E
#5	Palacio de Congresos y Exposiciones de Galicia	#10	B2
#6	Palacio de Congresos y Exposiciones de Galicia	#13/14	B1
#7	Palacio de Congresos y Exposiciones de Galicia	#15/16	H
#8	Palacio de Congresos y Exposiciones de Galicia	#23/35	A2
#9	Puerto del Camino Hotel	V	C
#10	Puerto del Camino Hotel	I	I
#11	Puerto del Camino Hotel	II	J1
#12	Puerto del Camino Hotel	III/IV	J2

Schedule Matrix Tuesday

08:00 - 19:00 Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia						08:00 - 19:00 Speaker Ready Room - Palacio de Congresos y Exposiciones de Galicia #22						08:00 - 19:00																																																																																			
08:00 - 19:00 Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia						08:00 - 19:00 Presentation Room - Palacio de Congresos y Exposiciones de Galicia #19/20						08:00 - 19:00																																																																																			
08:00 - 19:00 Registration - Palacio de Congresos y Exposiciones de Galicia						08:00 - 19:00 Registration - Palacio de Congresos y Exposiciones de Galicia						08:00 - 19:00																																																																																			
09:00 - 20:00 Exhibits - Palacio de Congresos y Exposiciones de Galicia						09:00 - 20:00 Exhibits - Palacio de Congresos y Exposiciones de Galicia						09:00 - 20:00																																																																																			
09:00 - 09:30 Opening Remarks and Introduction of Awardee Speaker - Santiago Hall						09:00 - 09:30 Opening Remarks and Introduction of Awardee Speaker - Santiago Hall						09:00 - 09:30																																																																																			
Michael L. Pace, ASLO 2005 Summer Meeting Organizing Committee Recipient of the G. Evelyn Hutchinson Award Mary E. Power, University of California at Berkeley, USA <i>Digital Elevationology for the Copepodologist</i>						Michael L. Pace, ASLO 2005 Summer Meeting Organizing Committee Recipient of the G. Evelyn Hutchinson Award Mary E. Power, University of California at Berkeley, USA <i>Digital Elevationology for the Copepodologist</i>						09:30 - 10:10 Introduction of Plenary Speaker Marianne Holmer, ASLO 2005 Summer Meeting Organizing Committee Plenary Address - Santiago Hall Doris Soto, Universidad Austral, Chile <i>Aquaculture of XXI Century and Its Challenges for Aquatic Sciences and Ecosystem Management</i>																																																																																			
																		09:30 - 10:10 Introduction of Plenary Speaker						09:30 - 10:10 Introduction of Plenary Speaker																																																																							
																		09:30 - 10:10 Introduction of Plenary Speaker						09:30 - 10:10 Introduction of Plenary Speaker																																																																							
10:10 - 12:10 Exhibits, Poster Session I & Complimentary Coffee Service - Palacio de Congresos y Exposiciones de Galicia						10:10 - 12:10 Exhibits, Poster Session I & Complimentary Coffee Service - Palacio de Congresos y Exposiciones de Galicia						10:10 - 12:10																																																																																			
Cluster A1		A2		B1		B2		C		D		E		F		H		I		J1		J2																																																																									
Breakout* #2		#8		#6		#5		#9		#1		#4		#3		#7		#10		#11		#12																																																																									
Session SS81 (cont.)		SS12 (cont.)		SS83 (cont.)		SS88 (cont.)		SS03 (cont.)		SS53 (cont.)		SS57 (cont.)		SS08 (cont.)		SS41		SS13 (cont.)		SS02		SS73 (cont.)																																																																									
Title		Title		Title		Title		Title		Title		Title		Title		Title		Title		Title		Title																																																																									
12:15 Alonso, C.		12:30 Longnecker, K.		12:45 Sintes, E.		13:00 Sommaruga, R.		13:15 Hornak, K.		13:30 Bouvier, T.		12:15 Alonso, C.		12:30 Longnecker, K.		12:45 Sintes, E.		13:00 Sommaruga, R.		13:15 Hornak, K.		13:30 Bouvier, T.																																																																									
13:45 - 15:15 LUNCH																																																																																															
14:00 - 15:00 ASLO-SIL Student Forums - Various Rooms, Palacio de Congresos y Exposiciones de Galicia												14:00 - 15:00 ASLO-SIL Student Forums - Various Rooms, Palacio de Congresos y Exposiciones de Galicia																																																																																			
Cluster A1						A2						B1						B2						C						D						E						F						H						I						J1						J2																													
Breakout* #2						#8						#6						#5						#9						#1						#4						#3						#7						#10						#11						#12																													
Session SS81 (cont.)						SS12 (cont.)						SS83 (cont.)						SS88 (cont.)						SS03 (cont.)						SS56 (cont.)						SS57 (cont.)						SS77						SS41 (cont.)						SS13 (cont.)						SS02 (cont.)						SS38																													
Title						Title						Title						Title						Title						Title						Title						Title						Title						Title						Title						Title						Title																							
15:15 Frischer, M. E.						15:30 Mayali, X.						15:45 Wu, Q. L.						16:00 Knab, S. I.						16:15 Wootton, E. C.						16:30 Paranhos, R.						16:45 Ivanikova, N. V.						15:15 Frischer, M. E.						15:30 Mayali, X.						15:45 Wu, Q. L.						16:00 Knab, S. I.						16:15 Wootton, E. C.						16:30 Paranhos, R.						16:45 Ivanikova, N. V.																	
17:00 - 17:30 Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia																																																																																															
Cluster A1						A2						B1						B2						C						D						E						F						H						I						J1						J2																													
Breakout* #2						#8						#6						#5						#9						#1						#4						#3						#7						#10						#11						#12																													
Session SS44						SS24						SS22						SS69						SS29						SS66 (cont.)						SS77 (cont.)						SS41 (cont.)						SS45						SS02 (cont.)						SS38 (cont.)																																			
Title						Title						Title						Title						Title						Title						Title						Title						Title						Title						Title						Title						Title																							
17:30 Casamayor, E. O.						17:45 Casamayor, E. O.						18:00 Mellander, T. T.						18:15 Reche, I.						18:30 Hoch, M. P.						18:45 Ortega-Retuerta, E.						19:00 Pérez, M. T.						19:15 Findlay, S. E.						17:30 Casamayor, E. O.						17:45 Casamayor, E. O.						18:00 Mellander, T. T.						18:15 Reche, I.						18:30 Hoch, M. P.						18:45 Ortega-Retuerta, E.						19:00 Pérez, M. T.						19:15 Findlay, S. E.					
19:30 - 20:30 Reception - Palacio de Congresos y Exposiciones de Galicia																																																																																															
20:30 - 21:00 Poster Session I Tear-down - Palacio de Congresos y Exposiciones de Galicia												20:30 - 21:00 Poster Session I Tear-down - Palacio de Congresos y Exposiciones de Galicia																																																																																			

*See room legend on first page of Schedule A1-A-Galicia

*See room legend on first page of Schedule A1-A-Galicia

POSTER PRESENTATIONS

Cluster A1						Cluster A2						Cluster B1						Cluster B2									
SS11		SS44		SS81		SS01		SS16 (cont.)		SS24		SS22		SS51		SS83		RS05		SS31 (cont.)		SS48 (cont.)		SS60		SS88	
1. Pete, R.		22. Magalhães, C. P.		34. Conry, A.		54. Amaral, T. P.		75. Moura, N. F.		91. Schulz, M.		106. Ota, T.		125. Garcia, C. M.		148. Rennie, S. J.		170. Aigars, J.		191. Puig, P.		212. Engelen, B.		235. Furnas, M. J.		255. Colomer, J.	
2. Penna, A.		23. Piccini, C.		35. Saurel, C.		55. Fernandes, S.		67. Coma, R.		92. Madi, K.		107. Mundy, C. J.		126. Pennington, J.		150. Zarauz, L.		171. Varela, M.		192. Kerheve, P.		213. Hayacinthe, C.		237. Kim, J. S.		256. Benjam, L.	
3. Polymenakou, P.		24. Dorador, C.		36. Besemer, K.		56. SAURIAU, P. G.		77. Cruz, T.		93. Albino, M. F.		108. Makabe, R.		127. Navarro, G.		151. Brown, C. W.		172. Filgueira, R.		193. Silva, H.		214. Al Rai, A. M.		238. Schmeider, R.		257. Ruiz-Verdú, A.	
4. Lekunberri, I.		25. Hoikka, L.		38. Tada, Y.		57. SAURIAU, P. G.		78. Jacinto, D.		94. Chatzinkolaou, Y.		109. Hiroshi, H.		128. Julies, E. M.		152. Garcia, V.		173. Babarro, J. M.		194. Arndt, S.		215. van Leeuwe, M.		239. Larmola, T.		258. Caputo, L.	
5. Sherr, B. F.		26. Suzuki, K.		39. Fuchs, B. M.		58. Couto, E. G.		79. Asaeda, T.		95. Suarez, M. L.		110. Hinsho, S.		129. Santos, A. O.		153. Stok#324; Egiert		174. Marotta, H.		195. Greengrove, C.		216. Stumm, K.		238. Schmeider, R.		259. Branco, C. C.	
6. Penno, S.		27. Iglesias-Prieto, F.		41. van den Ength, G.		59. Stahk, H.		80. Jonsson, P. R.		96. Robles, S.		111. Matsuko, A.		130. POMPEU, M.		154. Campbell, R. W.		175. Fernández-Aleáz, J.		196. Varona-Cordero		217. FERREIRA, #. F.		239. Larmola, T.		260. Trembay, A.	
7. Hansman, R. L.		28. Labiosa, R. G.		42. Haldal, M.		60. Oguri Katsumasa		81. Conde-Portunua		97. Vervier Philippe		112. Zaborzka, A.		131. Prieto, L.		155. Kim, O. S.		176. Djakovac, T.		197. Zhu, Y.		218. Anschutz, P.		240. Juitinen, S.		261. Galotti, A.	
8. Boylen, C. W.		29. Langenheder, S.		43. Jiménez-Gómez, F.		61. Maire, O.		82. Råberg, S.		98. Gomá, J.		113. Mucci, A.		132. Castro, C. G.		156. Hickman, A. E.		177. Ramcharan, C. W.		198. Bozek, M. A.		219. Hedkamp, S. I.		241. Tornés, E.		262. Abri, G.	
9. Lau, W.		30. Felipe, M.		44. Zwinglmaier, K.		62. Banta, G. T.		83. Ysebaert, T.		99. Larson, E. K.		114. Kosobokova, K. N.		133. Michisaki, R. P.		157. Corredor, P.		178. Corman, J. R.		199. Wuertsbaugh, W.		220. Velasco, S.		242. Artigas, J.		263. Malits, A.	
10. Boyd, C. M.		31. Bertilsson, S.		45. Gribble, K. E.		63. Birchenough, S.		84. JANSON, A. L.		100. Marba, N.		115. Dmitrenko, I.		134. Scharžhanar, J.		158. Tweddle, J. F.		179. Dias, R. F.		200. Pilditch, C. A.		221. Loeb, M.		243. Cruz, S.		264. Letet, C.	
11. Moreira, D.		32. Hecker, S.		46. Falconi, T.		64. Dorgan, K. M.		85. López, E.		101. Littles, C. B.		116. Hofmann, E. E.		135. Friederich, G.		159. Van de Bogert, M. C.		180. Olivé, I.		201. YANG, E. J.		222. Müller, J.		244. Cruz, S.		265. Bettarel, Y.	
12. Garcés, E.		33. Bullar, M. A.		47. Rodriguez-Galvez		65. Delmotte, C.		86. Henriksen, C.		102. De Stasio, B. T.		117. Kashiwa, Y.		136. Vilas, J. C.		160. Tanaka, L. L.		181. Echevarría, F.		202. Kötter, J.		223. Miller, J.		245. Vieira, S.		266. Eissler, Y.	
13. Godhe, A.		34. Hüllar, M. A.		48. Montonen, L.		66. Hansen, B. W.		87. Kovač#269; #269;		103. Ghadoouani, A.		118. Alkawa, S.		137. Hasegawa, J.		161. McCallum, S. S.		182. Cayabayo, N.		203. YAG, E. J.		224. Fischer, J.		246. Coelho, H.		267. Eissler, Y.	
14. Slapeta, J.		35. Bucar, M. A.		49. Coustou, J.		67. Martínez-Castro, C.		88. Liu, H.		104. Daller, M. L.		119. Morata, N.		138. Waseg, S.		162. Baker, A. R.		183. Pálsson, C.		204. Köster, J.		225. Werner, U.		247. García-Robledo, E.		268. Malits, A.	
15. Lefèvre, E.		36. Urrutia, M. A.		50. Troussellier, M.		68. Peña-Arenas, M.		89. Fillemann, E. S.		105. Kulč#269;#269; #269;		120. Belicka, L. L.		139. Sangr#233;, P.		163. Milne, A.		184. Ternat, F.		205. Böer, S.		226. Lastra, M.		248. McLachlan, D.		269. Parada, V. S.	
16. Turk, V.		37. Urrutia, M. A.		51. GOT, P.		69. Duchéne, J. C.		90. Widdicombe, C. E.		106. Barba, N.		121. Urban-Rich, J.		141. Fraga, S.		164. Quack, B.		185. Lionard, M.		206. Harder, T.		227. Ferrón, J. S.		249. VIERMA, M. S.		270. Thyrhaug, R.	
17. Logares, R.		38. Beckler, S.		52. Nguyen, B. V.		70. Roy, M. A.		91. Widdicombe, C. E.		107. Littles, C. B.		122. Cooper, L. W.		142. Melo-Moreira, R.		165. Mannino, A.		186. Grouz, C. L.		207. FERRERA, #. F.		228. Kozyra, J.		250. EVERS, S. B.		271. Williams, H. N.	
18. Modigh, M.		39. Garcia, E.		53. Dubelaar, G. B.		71. Gonzalez, J. M.		92. Widdicombe, C. E.		108. Makabe, R.		123. Urban-Rich, J.		143. Rodriguez-Santana		166. Mannino, A.		187. Lionard, M.		208. M#234;rz, J.		229. Kozyra, J.		251. Hoedl, I. A.		272. Thyrhaug, R.	
19. Wickham, S. A.		40. Garcia, E.		54. Dubelaar, G. B.		72. Rocha, F.		93. Widdicombe, C. E.		109. Hiroshi, H.		124. Le Bris, N.		144. Rodríguez-Santana		167. C. da Cunha, L.		188. Grouz, C. L.		209. Jansen, S.		230. Kozyra, J.		252. Jesus, B. M.		273. Reboreda, R.	
20. Berninger, U. G.		41. Magalhães, C. P.		55. Dubelaar, G. B.		73. Vázquez, E.		94. Widdicombe, C. E.		110. Hinsho, S.		125. Garcia, C. M.		145. Caldera, R. M.		168. Morato, T.		189. Lionard, M.		210. Hilker, U. G.		231. Jankovská, K.		253. Guarni, J. M.		274. Garbatina, A.	
21. Jeffrey, W. H.		42. Dorador, C.		56. Besemer, K.		74. Dominguez, C. P.		95. Suarez, M. L.		111. Matsuko, A.		126. Pennington, J.		146. Morato, T.		169. Wallace, D. W.		190. Doval, M. D.		211. Gittel, A.		232. Jankovská, K.		254. Garbatina, A.		275. Reboreda, R.	

Schedule Matrix Wednesday

08:00 - 19:00							08:00 - 19:00							08:00 - 19:00	
Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia							Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia							Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia	
Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia							Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia							Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia	
Registration - Palacio de Congresos y Exposiciones de Galicia							Registration - Palacio de Congresos y Exposiciones de Galicia							Registration - Palacio de Congresos y Exposiciones de Galicia	
Poster Session II Set-up - Palacio de Congresos y Exposiciones de Galicia							Poster Session II Set-up - Palacio de Congresos y Exposiciones de Galicia							Poster Session II Set-up - Palacio de Congresos y Exposiciones de Galicia	
Exhibits - Palacio de Congresos y Exposiciones de Galicia							Exhibits - Palacio de Congresos y Exposiciones de Galicia							Exhibits - Palacio de Congresos y Exposiciones de Galicia	
Opening Remarks and Introduction of Awardee Speaker - Santiago Hall							Opening Remarks and Introduction of Awardee Speaker - Santiago Hall							Opening Remarks and Introduction of Awardee Speaker - Santiago Hall	
Colin Stedmon, ASLO 2005 Summer Meeting Organizing Committee							Colin Stedmon, ASLO 2005 Summer Meeting Organizing Committee							Colin Stedmon, ASLO 2005 Summer Meeting Organizing Committee	
Recipient of the Raymond Lindeman Award							Recipient of the Raymond Lindeman Award							Recipient of the Raymond Lindeman Award	
Kay Bidle, Rutgers University, USA							Kay Bidle, Rutgers University, USA							Kay Bidle, Rutgers University, USA	
Multi-Faceted In Situ Controls on Silica and Carbon Cycling from Diatoms							Multi-Faceted In Situ Controls on Silica and Carbon Cycling from Diatoms							Multi-Faceted In Situ Controls on Silica and Carbon Cycling from Diatoms	
Introduction of Plenary Speaker							Introduction of Plenary Speaker							Introduction of Plenary Speaker	
Carol Robinson, ASLO 2005 Summer Meeting Organizing Committee							Carol Robinson, ASLO 2005 Summer Meeting Organizing Committee							Carol Robinson, ASLO 2005 Summer Meeting Organizing Committee	
Plenary Address - Santiago Hall							Plenary Address - Santiago Hall							Plenary Address - Santiago Hall	
Jordi Dachs, Institute of Chemical and Environmental Research, Spain							Jordi Dachs, Institute of Chemical and Environmental Research, Spain							Jordi Dachs, Institute of Chemical and Environmental Research, Spain	
Interactions Between Aquatic Ecosystems and the Atmosphere: From Contaminants to Biogeochemical Cycles							Interactions Between Aquatic Ecosystems and the Atmosphere: From Contaminants to Biogeochemical Cycles							Interactions Between Aquatic Ecosystems and the Atmosphere: From Contaminants to Biogeochemical Cycles	
Exhibits, Poster Session II & Complimentary Coffee Service - Palacio de Congresos y Exposiciones de Galicia							Exhibits, Poster Session II & Complimentary Coffee Service - Palacio de Congresos y Exposiciones de Galicia							Exhibits, Poster Session II & Complimentary Coffee Service - Palacio de Congresos y Exposiciones de Galicia	
Cluster A1							Cluster E							Cluster	
Breakout* #2							Breakout* #4							Breakout* #12	
Session SS11							Session SS07 (cont.)							Session SS38 (cont.)	
Title							Title							Title	
12:15 Thingstad, T. F.							12:15 Livingstone, D. M.							12:15 Johnson, Z. T.	
12:30 Thingstad, T. F.							12:30 Wolanski, E.							12:30 Gifford, J.	
12:45 Anderson, M. R.							12:45 Haupt, F.							12:45 Hampton, P. A.	
13:00 Kozbur, S.							13:00 Boersma, M.							13:00 Alonso-Sáez, L.	
13:15 Mikki, T.							13:15 Jensen, T. C.							13:15 Pérez, V.	
13:30 Pitta, P.							13:30 Andersen, T.							13:30 Kim, Y.	
13:45 - 15:15 LUNCH							13:45 - 15:15 LUNCH							13:45 - 15:15 LUNCH	
14:00 - 15:00 The Gordon and Betty Moore Foundation Town Hall Meeting - Room #8/9							14:00 - 15:00 The Gordon and Betty Moore Foundation Town Hall Meeting - Room #8/9							14:00 - 15:00 The Gordon and Betty Moore Foundation Town Hall Meeting - Room #8/9	
Cluster A1							Cluster E							Cluster	
Breakout* #2							Breakout* #4							Breakout* #12	
Session SS11 (cont.)							Session SS07 (cont.)							Session SS38 (cont.)	
Title							Title							Title	
15:15 Piarra, S.							15:15 Armstrong, R. A.							15:15 Villareal, T. A.	
15:30 Renaud, F.							15:30 Otero, E.							15:30 Prasil, O.	
15:45 Rusch, D. B.							15:45 Palandro, D.							15:45 Lefevre, D.	
16:00 Zohary, T.							16:00 Hering, D.							16:00 Neuer, S.	
16:15 Azam, F.							16:15 Kumpag, M.							16:15 Pliskaln, C. H.	
16:30 Azam, F.							16:30 Thies, H.							16:30 Spitz, Y. H.	
16:45 Andersson, A.							16:45 Rautio, M.							16:45 Gasser, B.	
17:00 Roldán, C.							17:00 Wynne, D.							17:00 Gasser, B.	
17:00 - 17:30 Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia							17:00 - 17:30 Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia							17:00 - 17:30 Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia	
Cluster A1							Cluster E							Cluster	
Breakout* #2							Breakout* #4							Breakout* #12	
Session SS11 (cont.)							Session SS07 (cont.)							Session SS38 (cont.)	
Title							Title							Title	
17:30 Henriksen, J.							17:30 Williams, P. J.							17:30 Bricker, S. B.	
17:45 Hoppe Hans-Georg.							17:45 Thompson, J. R.							17:45 Cardoso, A. C.	
18:00 Haffert, F.							18:00 Bhattacharya, N. C.							18:00 Carlson, R. E.	
18:15 Hoeseender, M. M.							18:15 Hollibaugh, J. T.							18:15 Ferreira, J. G.	
18:30 Smetacek, V.							18:30 Eiler, A.							18:30 Verity, P. G.	
18:45 Straza, T. R.							18:45 Tyner, E. C.							18:45 Sharp, J. H.	
19:00 Zoblner, E.							19:00 Kenny, D. J.							19:00 Tian, T.	
19:15 Assmy, P.							19:15 Rennie, M. D.							19:15 Marcé, R.	
19:30 - 20:30 Reception - Palacio de Congresos y Exposiciones de Galicia							19:30 - 20:30 Reception - Palacio de Congresos y Exposiciones de Galicia							19:30 - 20:30 Reception - Palacio de Congresos y Exposiciones de Galicia	
20:30 - 21:00 Poster Session II Tear-down - Palacio de Congresos y Exposiciones de Galicia							20:30 - 21:00 Poster Session II Tear-down - Palacio de Congresos y Exposiciones de Galicia							20:30 - 21:00 Poster Session II Tear-down - Palacio de Congresos y Exposiciones de Galicia	

*See room legend on first page of Schedule At-A-Glance

*See room legend on first page of Schedule At-A-Glance

POSTER PRESENTATIONS													
Cluster C				Cluster D				Cluster E				Cluster F	
R07	SS03 (cont.)	SS29 (cont.)	SS63 (cont.)	SS84 (cont.)	SS14	SS53	SS66	RS01	SS19	SS50 (cont.)	SS06	SS08	SS47
1. Kottelat, R.	25. Pelalo-Martínez, N.	44. Tsapakis, M.	64. Gasparovic, B.	84. Goux, M.	88. Brix, H.	104. Blais, J. M.	127. Augustodi, V.	146. Carol, J.	164. Porrello, S.	182. Güde, H.	201. Sandroni, S. D.	213. Padin, X. A.	225. Enrich-Prast, A.
	26. Weeks, D. A.	45. Detres, Y.	65. Almeida Adalado, H. A.	85. Verdery, E.	89. Schmittner, A.	105. Bèlinger, S.	128. Vila, M.		165. Marin, A.	183. Papa, S.	202. Tzorziou, M. A.	214. Rabouille, C.	226. Vieira, A.A.H.
2. Tovar-Sanchez, A.	SS05	SS33	SS74	SS90	91. Lehahn, Y.	107. Garneau, M. E.	130. Franklin, D. J.	SS07	166. Tomassetti, P.	184. Torres-Avalar, C.	203. Vázquez, E.	215. MARTIN, S.	227. TAKESHIT, F.
3. Santana-Casiano, J.	27. Castillo, M. M.	46. Garcia-Sanchez, M.	67. Stadmark, J.	86. Raynaud, E. H.	92. Olafsson, J.	108. Uhanue, M. A.	131. Vila, M.		167. Laurent, C. D.	185. Smruga, S. P.	204. Ferraro, M. A.	216. Varela, R.	228. Wamaars, T. A.
4. Hidalgo-Casasueva, N.	28. Triska, F. J.	47. Prego, R.	68. Lucas, F. S.		93. Lenton, A. J.	109. Forsström, L. J.	132. Westby, G. R.	SS09	168. Pastres, R.	186. Pastres, R.	205. Jonsson, A.	217. Huertas, R. E.	
5. Bacardit, M.	29. Ramos Escobedo, M.	48. Loh, A. N.	69. Roberts, E. F.		94. Oschlies, A.	110. Primo, C.	133. Martínez-Arroyo, M. A.		169. Beardstey, C.	187. Smetacek, V.	206. Stedmon, C. A.	218. Slomp, C. P.	
6. Lin, S.													
7. Plavsic, M.													
8. Al-Rshaidat, M. M.	SS28	SS35	SS78										
9. Yévenes-Burgos, M.	31. Avellan, C. T.	50. Rao, A. M.	72. Guerin, F.										
10. Choi, M. S.	32. Krång, A. S.	51. Li, Y. H.											
11. Cobelo-García, A.	33. Andrade, S.	52. Schubert, C. J.											
13. Gary Stern, A.	34. Chen, Y.												
14. Gaweł, J. E.	35. Fitzmaurice, A. C.												
15. Bengtsson, G.													
16. Filella, M.	SS29	SS36	SS79										
17. Huerta-Díaz, M.	36. Jurado, E.	55. Nieto-Gid, M.	77. Hillaire-Marcel, C.										
18. Sato, M.	37. Meijer, S. N.	56. Tsuchida, H.											
19. Rubio, B.	38. Del Vento, S.	57. Klausner, L.											
20. Simonucci, C. A.	39. Morales-Baqueiro, R.	58. Maie, N.											
21. Roussiez, V.	40. Romero, O.	59. ZERI, C.											
22. Fitzwater, S. E.	41. Paytan, A.	60. Charriere, B.											
23. Metzger, E.	42. Street, J. H.	61. Koch, B. P.											
24. Shostell, J. M.	43. Gelado, M. D.	62. Heath, R. T.											

Schedule Matrix Thursday

08:00 - 19:00	Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia												08:00 - 19:00
08:00 - 19:00	Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia												08:00 - 19:00
08:00 - 19:00	Registration - Palacio de Congresos y Exposiciones de Galicia												08:00 - 19:00
08:00 - 09:00	Poster Session III Set-up - Palacio de Congresos y Exposiciones de Galicia												08:00 - 09:00
09:00 - 20:00	Exhibits - Palacio de Congresos y Exposiciones de Galicia												09:00 - 20:00
09:00 - 09:30	Opening Remarks and Introduction of Awardee Speaker - Santiago Hall												09:00 - 09:30
Louis Legendre, ASLO 2005 Summer Meeting Organizing Committee													
Recipient of the Alfred C. Redfield Lifetime Achievement Award													
Andre Morel, Université Pierre et Marie Curie, France													
Evolution of the Role of Optics in Aquatic Research (Oceanography and Limnology)													
09:30 - 10:10	Introduction of Plenary Speaker												09:30 - 10:10
Dolores Planas, ASLO 2005 Summer Meeting Organizing Committee													
Plenary Address - Santiago Hall													
David W. Schindler, University of Alberta, Canada													
Limnology and Oceanography Through the Eyes of Ramon Margalef: The Legacy of a Visionary													
10:10 - 12:10	Exhibits, Poster Session III & Complimentary Coffee Service - Palacio de Congresos y Exposiciones de Galicia												10:10 - 12:10
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*
Session	SS11 (con't.)	SS18	SS59	SS48	SS84 (con't.)	SS40	SS27	SS26 (con't.)	SS85	SS70	SS55	SS43	Session
Title	Biodiversity, Biogeography and Trophic Interactions: The Role of Pelagic Microbial Ecology	The Consequences of Biodiversity in Aquatic Habitats	Seamount and Island Oceanography	Biogeochemistry, Ecology, and Hydrodynamics of Tidal Flat Systems	Multi-tracer Approaches Toward Understanding Particle Fluxes and Dynamics in the Sea	Transformations Along the Land-ocean Continuum in the Context of Global Change	Biomineralized Tissues in Marine and Freshwater Organisms	Respiration in Aquatic Ecosystems: Current Understanding and Future Directions	The Implementation of Observations in the Coastal Zone: The Global Ocean Observing System	Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health	Parasitism in the Plankton	Eutrophication and Harmful Algal Blooms	Title
12:15	Dalby, A. P.	Hillebrand, H.	Wolanski, E. J.	Underwood, G. J.	Miquel, J. C.	Seltzinger, S. P.	Limburg, K. E.	Reinthal, T.	Fletcher, M.	Vallela, I.	Lass, S.	Graneli, E.	12:15
12:30	David, V.	Barton, E. D.	Underwood, G. J.	Lampitt, R. S.	Lancelot, C.	Astasio, J. R.	Barats, A.	McCallister, S. L.	Leonard, L. A.	Vallela, I.	Gómez-Gutiérrez	Graneli, E.	12:30
12:45	Iglesias-Rodríguez, M.	Gamfeldt, L.	Takeda, S.	Stanev, E. V.	Burd, A. B.	Ford, P. W.	Thébaud, J.	Stets, E. G.	Durako, M. J.	Moe, S. J.	Ibelings, B. W.	Gordon, N.	12:45
13:00	Kent, A. D.	Rulkötter, J.	Matson, E. A.	Masqué, P.	Rodriguez y Baena	Taylor, G. T.	Zumholz, K.	Rees, J. M.	Bocanov, S. A.	Leira, M.	Kim, S.	Livingston, R. J.	13:00
13:15	Sonntag, B.	Matthiessen, B.	Christiansen, B.	Badewien, T.	Badewien, T.	Carbone, V.	Koehler-Rink, S.	Chen, Y. W.	Simis, S. G.	Poikane, S.	Skoogvaard, A.	Crowe, A. M.	13:15
13:30	Tadonlédé, R. D.	Mohr, G. A.	Mohr, G. A.	Dellwig, O.	Lorrain, A.	Sferratore, A.	Barreiro, M.	Barreiro, M.	Sondergaard, M.	Messick, G. A.	Ellwood, N. T.	Ellwood, N. T.	13:30
13:45	Sala, M. M.	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	13:45
13:45 - 15:15	LUNCH												13:45 - 15:15
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*
Session	SS32	SS18 (con't.)	SS59 (con't.)	SS48 (con't.)	SS33	SS40 (con't.)	SS09	SS26 (con't.)	SS58	SS70 (con't.)	SS75	SS43 (con't.)	Session
Title	Diversity Among Components of the Microbial Loop	The Consequences of Biodiversity in Aquatic Habitats	Seamount and Island Oceanography	Biogeochemistry, Ecology, and Hydrodynamics of Tidal Flat Systems	Estuaries as Biogeochemical Reactors	Nutrient Transformations Along the Land-ocean Continuum in the Context of Global Change	Interactive Effects of Multiple Stressors on Aquatic Ecosystems	Global or Coastal Observations with Ships of Opportunity	Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health	Advances at the Interface of Theoretical and Empirical Plankton Ecology	Eutrophication and Harmful Algal Blooms	Title	
15:15	Fenchel, T.	Krumins, J. A.	Basmachnikov, I.	Grunwald, M.	Mopper, K.	Presti, M.	Yan, N. D.	Spilmont, N.	Petersen, W.	Miles, A. C.	McCaulley, E.	van Lenning, K.	15:15
15:30	Fenchel, T.	Aberle, N.	White, M.	Wirtz, K. W.	Minor, E. C.	Ni Longshui, S.	Yan, N. D.	Elosegi, A.	Wedde, H.	Artemiadou, V. A.	McCaulley, E.	Bryant, F.	15:30
15:45	Breitbart, M.	Mazumder, A.	Couto, A. B.	Lunau, M.	White, E. M.	Loucales, S.	Sobczak, W. V.	Schmutz, S.	Hydes, D. J.	Vos, M.	Schmutz, S.	Williams, C. I.	15:45
16:00	Padrés-Alió, C.	Ragnarsdottir, A.	Mendoza, A.	Lemke, A.	Mayer, L. M.	Sanderson, M. P.	Vinebrooke, R. D.	Jiao, N.	Petschik, M.	Deegan, B. M.	Stralle, D.	Furuya, K.	16:00
16:15	Hagström, Å.	Bécares, E.	Kiriakoulakis, K.	Morris, E. P.	Cave, R. R.	Laruelle, G. G.	Graham, M. D.	Riddiker, H. F.	Elliott, M.	Lampert, W.	Quesada, A.	Hulse, I.	16:15
16:30	de Vargas, C.	Muybert, K.	Springer, B. M.	Forster, R. M.	Commariue, M. V.	Foullon, P.	Christensen, M. R.	Schultz, P.	Morrison, G. K.	van de Bund, W. J.	Kramer, A. M.	Hulse, I.	16:30
16:45	Ward, B. B.	Knight, E. P.	Diekmann, R.	Sabbe, K.	Diekmann, R.	Deborje, J.	Medina-Sánchez, J.	Duarte, C. M.	Röttgers, R.	Wijman, J.	Genki-Kato, M.	Moholland, M. R.	16:45
17:00	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	17:00
17:00 - 17:30	Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia												17:00 - 17:30
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*
Session	SS32 (con't.)	SS21	SS87	SS56	SS78	SS25	SS09 (con't.)	SS06	SS58 (con't.)	SS70 (con't.)	SS75 (con't.)	SS52	Session
Title	Diversity Among Components of the Microbial Loop	Functional Diversity of the Microzooplankton	The Biogeochemistry of the Tropical Atlantic Ocean	Coastal Sand Ecosystem Dynamics	Radiocesium Tracers: Contributions to Our Understanding of Freshwater, Estuarine and Marine Processes	Identification and Quantification of Major Feed-backs of Ocean Biogeochemistry to Climate Change	Interactive Effects of Multiple Stressors on Aquatic Ecosystems	Fate and Effects of Terrestrial DOM in Aquatic Ecosystems	Global or Coastal Observations with Ships of Opportunity	Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health	Advances at the Interface of Theoretical and Empirical Plankton Ecology	Comparative Ecosystem Studies of Harmful Algal Blooms	Title
17:15	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	17:15
17:30	Proctor, L. M.	Stocker, D.	Linghu, A. R.	Glud, R. N.	Moran, S. B.	Heintze, C. B.	Gonzalez, M. J.	Tranvik, L. J.	Seppälä, J.	Mehlenberg, F.	Johannessen, T.	Pitcher, G. C.	17:30
17:45	Heidberg, J. F.	Stocker, D.	Linghu, A. R.	Glud, R. N.	Moran, S. B.	Heintze, C. B.	Nejrup, L.	Tranvik, L. J.	Williams, W. G.	Huisman, J.	Tanaka, T.	Carroll, A. D.	17:45
18:00	Halpern, A. L.	Costas, B. A.	Montoya, J. P.	Charette, M. A.	Kim, K. H.	Manizza, M.	Lenz, M.	Roehm, C. L.	Paeri, I. H. W.	Heiskanen, A. S.	Jäger, C. G.	Gentien, P.	18:00
18:15	Lopez-Garcia, P.	Marques, E.	Breitbarth, E.	Kroeger, K. D.	Cable, J. E.	Bopp, L.	Sobrinho, C.	Pace, M. L.	Sorenson, K.	Carstenen, J.	Stomp, M.	Molla, H. T.	18:15
18:30	Guilford, L.	Granda, A. P.	Muñoz-Hincapié	van Beusekom, J.	Brennwald, M. S.	Chuck, A.	Steel, E. A. V.	Berglund, J. M.	Mitchelson-Jacob	Kelly-Grenney, B. A.	Laney, S. R.	Dahl, E.	18:30
18:45	Massana, R.	Lantry, M. R.	Morel, J. M.	Weslawski, J. J.	Smith, J. P.	Jacobson, A. R.	Rios Arana, J. A.	Bronk, D. A.	Krause-Jensen, D.	Krause-Jensen, D.	Bird, D. F.	Diogene, J.	18:45
19:00	Lovejoy, C.	Teixeira, I. G.	Lochte, K.	Galaktonov, O. S.	Lansard, B.	LaRoche, J.	Schiedek, D.	Algesten, G.	Cokelet, E. D.	Algesten, G.	Ultsman, E.	Malkeel, E.	19:00
19:15	Montagnes, D. J.	Unrein, F.	Subramaniam, A.	Wenzhoefer, F.	Mullinger, N. J.	Pañlow, M.	Salas, F.	Hultu, E.	Schroeder, F.	Alcoverro, T.	Eveillard, D.	Bradt, S. R.	19:15
19:30 - 20:30	Reception - Palacio de Congresos y Exposiciones de Galicia												19:30 - 20:30
20:30 - 22:00	Exhibit & Poster Session III Tear-down - Palacio de Congresos y Exposiciones de Galicia												20:30 - 22:00

*See room legend on first page of Schedule At-A-Glance

*See room legend on first page of Schedule At-A-Glance

POSTER PRESENTATIONS

Cluster H			Cluster I			Cluster J1			Cluster J2		
RS04	SS04 (con't.)	SS49	SS13	SS45 (con't.)	RS02	RS03	SS02	SS37	SS38	SS52	SS73
1. Horgopila Jukka, A.	26. Dale, B.	46. Rogoff, D. A.	59. Eller, G.	81. Guerra, A. E.	105. Allen, A. E.	119. Zibek, M. J.	144. Lundberg, M.	159. Kamenin, Y. G.	176. Gist, N.	198. Drive, E.	214. Pemberton, K. L.
2. Weckström, K.	27. Vidussi, F.	47. Müller-Karger, F. E.	60. Tammelander, T.	82. Cozar, A.	106. López, M.	120. Calbet, A.	145. Moeller, L. F.	160. Møller, E. F.	177. Landolfi, A.	199. Kuoppa, P.	215. Ruiz, J.
3. Lopez-Rodriguez, M.	28. Coles, V. J.	48. Broglie, E.	61. Taipale, S. J.	83. Carr, M. E.	107. Kawakami, H.	121. Attienza, D.	146. Shin, K.	161. González-Nuevo, G.	178. Ashby, D. M.	200. Crespo, B. G.	216. Pan, M.
4. Otero, J.	29. Irvine, G. V.	49. Casey, K. S.	62. Munuera, J.	84. Egge, J. K.	108. Sarmento, H.	122. Angeler, D. G.	147. Ramšak, A.	162. Cermeño, P.	179. Semperé, R.	201. Carlson, B.	217. León, P. I.
5. Alvarez-Fernandez, I.	30. Lance, V. P.	50. Wentworth, S. E.	63. Cogne, B.	85. Frisch, D.	109. Gutierrez, A.	123. Jónasdóttir, S. H.	148. Zeldberg, L.	163. Harris, R. P.	180. Grob, M. C.	202. Genovesi-Giunti, B.	218. Arin, L.
6. Urgorri, V.	31. Hood, R. R.	51. Smith, D. R.	64. Agurto, C.		110. Montsant, A.	124. RAMOS-RODRIGUEZ	149. Granhag, L.	164. Inoue, K.	181. Zinser, E. R.	203. Cedeño, D. J.	219. Bautista, B. ...
7. Diaz-Agrias, G.	32. Beuchel, F.		65. Velasco, J.	SS70	111. Kraberg, A.	125. Campillo, S.	150. Grishin, A. N.	165. González, J.	182. Foster, R. A.		220. Hayami, Y.
8. García-Álvarez, O.	33. Kozarac, Z.		66. Bartrons, M.	86. Beiras, R.	112. Yoshikawa, T.	126. Tartarotti, B.	151. Irvine, H.	166. Almesjö, L.		SS71	222. Ferrnández de Puñtes
9. Reiss, J.		53. Kaitala, S.	67. BASS, A. M.	87. Ellison, R. M.	113. Lewin, R. A.	127. Saiz, E.	152. Ambler, J. W.			SS43	204. Iabir, M.
10. Cristobo, F. J.	SS41	54. Tominig, K.	68. Jaschinski, S.	88. Woithon, A.	114. Bengtsson, G.			SS55	183. Hansen, P. J.		SS79
11. Hiromitsu, K.	34. Wolf, A.	55. Raitos, D. E.	69. Brutermark, A.	89. Trojajo, R.	115. Hancke, K.	129. Joaquim-Justo, C.	155. Skirne, S. A.	168. Kim, S.	184. Tonk, L.	SS72	223. Hayakawa, M.
12. Walters, T. L.	35. Gutseit, K. C.		70. Lindheoff, E.	90. Trigal, C.	116. Kraus, R.	130. Leeson, P.	156. Bayha, K. M.	169. Gast, R. J.	185. Revilla, M.	205. MARTINEZ, G. A.	224. Zrímeč, A.
13. Venn, C.	36. Desvillettes, C.	SS85	71. Jones, W. B.	91. De Hoyos, C.	117. Batta Lona, P.	131. Gustafsson, S.	170. ALBAINA, A.	170. ALBAINA, A.	186. Carrasco, D.	206. Danielsson, Å.	225. González-Gil/Sonolles, C.
	37. Salto, H.	57. Gorsky, J. G.	72. Davis, J. A.	92. Schütler, L.	118. Kuwata, A.	132. Weigand, P. V.	SS36	171. Johansson, M.	187. DiMarco, S. F.	207. Figueiredo da Silva	226. Bender, S. J.
14. Chu, F.	38. Peters, J.	58. Nelson, J. R.	73. Mino, Y.	93. Breine, J. J.		133. GOMEZ ERACH	157. Jurgens, G.		188. Väkiläinen, K.	208. Newton, A.	227. Joux, F.
16. Yamanaka, Y.	40. PROKOPOVICZ, A.			94. Martínez-Crego, B.		134. Brown, M. E.	158. Bañeras, L.	SS75	189. Wörmer, L.	209. SPATHARIS, S.	
17. Gonzalez-Davila, M.	41. Heneery, R. E.		74. Guenther, M.	96. Dzinovec, L.		135. Roman, M. R.		172. Lind, O.	190. Dias, E. M.	210. Blanco, S.	
18. Fouilland, E.			75. Malzahm, A. M.	97. Almeida, S. F.		136. Nejstgaard, J. N.		173. Norberg, J.	191. Betsopoulos, S.	211. Zervos, N.	
19. Zorita, E.	SS46		76. Mostajir, B.	98. Dalton, C.		137. Endo, Y.		174. Buljevs, F. J.	192. Sousa, A. J.	212. Cattaneo, A.	
20. Lovera, C. F.	42. Fistoral, G. O.		77. Martinho, F.	99. Solimini, A. G.		138. Eggen, R.		175. Irwin, A. J.	193. Larsson, U.	213. Chung, E. G.	
21. Btsagni, J. J.	43. Olli, K.					139. Ortells, R.			194. Wheeler, S. M.		
22. Hashikata, T.	44. Sukkanen, S.				SS45	140. Huotari, J.			195. Varkitzi, I.		
23. Touratier, F.	45. Nylund, J. G. M.			101. Brendelberger, H.		141. Bochtansky, A. B.			197. BRIENT, L. B.		
24. Touretier, F.	45. Nylund, J. G. M.			78. Nogueira, E.	102. Coelho, J. P.	143. Walsh, E. J.					
25. Kosak, U.				80. Sharek, R.	103. Herrmann, J.						
					104. Sauer, M. J.						

Schedule Matrix Friday

08:00 - 15:30		Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia						Speaker Ready Room - Room #22, Palacio de Congresos y Exposiciones de Galicia						08:00 - 15:30	
08:00 - 15:30		Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia						Presentation Room - Room #19/20, Palacio de Congresos y Exposiciones de Galicia						08:00 - 15:30	
08:00 - 14:00		Registration - Palacio de Congresos y Exposiciones de Galicia						Registration - Palacio de Congresos y Exposiciones de Galicia						08:00 - 14:00	
09:00 - 09:40		Introduction of Plenary Speaker						Introduction of Plenary Speaker						09:00 - 09:40	
		George Jackson, ASLO 2005 Summer Meeting Organizing Committee						Dolores Planas, ASLO 2005 Summer Meeting Organizing Committee							
		Plenary Address - Santiago Hall						Plenary Address - Santiago Hall							
		Thomas Kjørboe, Danish Institute for Fisheries Research, Denmark						David W. Schindler, University of Alberta, Canada							
		<i>Within the Black Box: Species-Explicit Interactions in Aquatic Systems</i>						<i>Limnology and Oceanography Through the Eyes of Ramon Margalef: The Legacy of a Visionary</i>							
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster		
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*		
Session	SS32 (cont.)	SS67	SS51	SS56	SS63	SS25 (cont.)	RS01	SS06 (cont.)	RS04	SS70 (cont.)	SS37	SS79	Session		
Title	Diversity Among Components of the Microbial Loop	Aquatic Pigeonages: Non-Indigenous Species Invasions in Aquatic Ecosystems	Exchange Processes in Upwelling Systems	Coastal Sand Ecosystem Dynamics	Chemical Characterization of Dissolved Organic Matter in Aquatic Systems	Identification and Quantification of Major Feed-backs of Ocean Biology to Climate Change	Fish Ecology	Fate and Effects of Terrestrial DOM in Aquatic Ecosystems	Benthos	Advances in the Development of Biological Indicators for Assessment of Aquatic Ecosystem Health	Size Structure of Plankton Communities	Algal and Bacterial Cell Death: Incidence, Mechanisms and Consequences	Title		
9:45	Lowe, C. D.	Ricciardi, A.	Shillington, F. A.	Janssen, F.	Repeta, D. J.	Leonardos, N.	Hsieh, C.	Rosén, P.	Meyerdierks, A.	Helminen, U.	Aknes, D. L.	Bidle, K. D.	9:45		
10:00	McManus, G. B.	Ricciardi, A.	Shillington, F. A.	Cook, P. M.	Repeta, D. J.	Hiscock, M. R.	Urbelt, F.	Xenopoulos, M. A.	Murase, J.	Borja, A.	Poulin, F. J.	Bidle, K. D.	10:00		
10:15	Dolan, J. R.	Laug, B.	Strub, P. T.	Ervand, V.	Kaiser, K.	Hoffmann, L.	Untzereba, A.	Wang, X.	Jesus, T.	Perus, J.	Zhou, M.	Agusti, S.	10:15		
10:30	Rehstam-Holm, A.	Whitlow, W. L.	Alvarez-Solgado, X.	Huetzel, M.	Smijouw, J. P.	Peeken, I.	Bronmark, C.	Gilpin, L. C.	Hedley, J. D.	Laborne, C.	Scharlau, M.	Libres, M.	10:30		
10:45	Montresor, M.	Davis, M. H.	Pastor, M. V.	Forehead, H. J.	Jones, V.		Haas, K.	Graneli, W.	Conway, M. J.	Brogdon, S. E.	San Martin, E.	Alonso-Latta, P.	10:45		
11:00 - 11:30		Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia						Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia						11:00 - 11:30	
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster		
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*		
Session	SS61	SS67 (cont.)	SS51 (cont.)	SS82	SS63 (cont.)	SS14	SS39	SS20	RS04 (cont.)	SS15	SS37 (cont.)	SS79 (cont.)	Session		
Title	Linkage Between Pico, Nano-plankton and Biogeochemical Cycle in the Ocean	Aquatic Pigeonages: Non-Indigenous Species Invasions in Aquatic Ecosystems	Exchange Processes in Upwelling Systems	Benthic Biofilms in Freshwater and Marine Systems	Chemical Characterization of Dissolved Organic Matter in Aquatic Systems	Nutrient Return Pathways to the Upper Ocean and Their Climate Sensitivity	Ecological Thresholds of Sustainability in Aquatic Ecosystems	Diazotrophy in the Ocean: Rates, Causes and Consequences	Benthos	Food Webs End-to-end, Including the Ecosystem Approach to Living Marine Resources	Size Structure of Plankton Communities	Algal and Bacterial Cell Death: Incidence, Mechanisms and Consequences	Title		
11:30	Charpy, L.	Dunstan, P. K.	Letelier, R. M.	Battin, T. J.	Blough, N. V.	Follows, M. J.	Conley, D. J.	Mulholland, M. R.	Binzer, T.	Legendre, L.	Finkel, Z. V.	Mari, X.	11:30		
11:45	Charpy, L.	Voisin, M.	Botford, L. W.	Paterson, D. M.	Aluwihare, L. I.	Follows, M. J.	Conley, D. J.	Mulholland, M. R.	Borum, J.	Legendre, L.	Estévez-Blanco, P.	Berlan, C. A.	11:45		
12:00	Zehr, J. P.	Largier, J. L.	Largier, J. L.	Paterson, D. M.	de Jesus, R. P.	Rintoul, S. R.	Hayden, B. J.	Capone, D. G.	de Juan, S.	Dowell, M. D.	Bernan, T.	Vardi, A.	12:00		
12:15	Casareto, B. E.	Beisner, B. E.	Piedracoba, S.	Stevenson, R. J.	Kawasaki, N.	Marinov, I.	Hales, B.	Raimbault, P.	Hiddink, J. G.	Honjo, S.	Raul, A.	Vardi, A.	12:15		
12:30	Suzuki, Y.	Strecker, A. L.	Austin, J. A.	Roman, A. M.	Tedetti, T.	Hales, B.	Petersen, J. K.	Grabowski, J. H.	Kilgour, M. J.	Aumont, O.	Montecino, V.	Tchernov, D.	12:30		
12:45	Obayashi, Y.	Foster, S. E.	Herrera, J. L.	Pohlon, E.	Trufelli, H.	Corredor, J. E.	Piehler, M. F.	Neveux, J.	Linares, C.	Dagg, M.	Munawar, M.	von Dassow, P.	12:45		
13:00	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	13:00		
13:00 - 13:30		Complimentary Coffee Break & Tapas - Palacio de Congresos y Exposiciones de Galicia						Complimentary Coffee Break - Palacio de Congresos y Exposiciones de Galicia						13:00 - 13:30	
Cluster	A1	A2	B1	B2	C	D	E	F	H	I	J1	J2	Cluster		
Breakout*	#2	#8	#6	#5	#9	#1	#4	#3	#7	#10	#11	#12	Breakout*		
Session	SS76	SS67 (cont.)	SS51/SS34	SS82 (cont.)	SS74	SS14 (cont.)	SS39/SS23	SS20 (cont.)	SS46	SS15 (cont.)	SS37 (cont.)	SS71	Session		
Title	The Microbial World as an Effective Model System in Ecology	Aquatic Pigeonages: Non-Indigenous Species Invasions in Aquatic Ecosystems	Exchange Processes in Upwelling Systems / Pale Tectonics and Chemotrophy at Deep-sea Vents	Benthic Biofilms in Freshwater and Marine Systems	Biogeochemistry of Methane and Carbon Dioxide at High Concentrations	Nutrient Return Pathways to the Upper Ocean and Their Climate Sensitivity	Ecological Thresholds of Sustainability in Aquatic Ecosystems / The Urban Coast: A Growing World-Wide Trend	Diazotrophy in the Ocean: Rates, Causes and Consequences	Allelopathy in Aquatic Systems	Food Webs End-to-end, Including the Ecosystem Approach to Living Marine Resources	Size Structure of Plankton Communities	Role of Algal Mortality in the Dynamics of Harmful Blooms	Title		
13:15	BREAK	BREAK	Lipphardt, B. L.	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	13:15		
13:30	Jürgens, K.	Young, J. D.	Wu, D.	Stal, L. J.	Schmid, M.	Lewis, M. R.	Garnier, J.	Boström, K. H.	Kubaneck, J.	Pommier, J.	Stibor, H.	Dam, H. G.	13:30		
13:45	Jürgens, K.	Vanderploeg, H. A.	Tisnérat-Laborde, N.	Bellingier, B. J.	Kling, G. W.	Palter, J. B.	Thomas, C. R.	White, A. E.	Kubaneck, J.	Rivkin, R. B.	Carlotti, F.	Deonarine, S.	13:45		
14:00	Arndt, H.	Pichlova, R.	Macías-Moy, D.	Cyr, H.	Konovoval, S.	Williams, R. G.	Parparov, A.	Staal, M. J.	Tillmann, U.	Van den Meersche, K.	Checkley, D.	Sarmelle, O.	14:00		
14:15	Pentahal, J.	Nalepa, T. F.	Scott, S. D.	Caramujo, M. J.	Durisch-Kaiser, E.	Measures, C. I.	Baird, R. C.	Masotti, I.	Mulderij, G.	Engelke, C. J.	Herman, A. W.	Olson, M. B.	14:15		
14:30	Lindström, E. S.	Pérez-Fuentetaja, A.	Scott, S. D.	Herlory, O.	Ostrovsky, I.	Memery, L.	Flo, E.	Agawin, N. R.	Rengefors, K.	Schwaderer, A. S.	Kimmel, D. G.	Buskey, E. J.	14:30		
14:45	Pommier, T.	Jara, C. G.	Takai, K.	Schervass, A.	McGinnis, D. F.	Sarmiento, J. L.	Werner, A.	Dupouy, C.	Legrand, C.	Daner, G.	Krupica, K. L.	Jacobsen, A.	14:45		
15:00	Davenport, R. J.	Ferris, F. G.	Sayama, M.	Kortelainen, P.	Roy, T. M.	Jones, R. C.	La Boutellier, A.	Giani, A.	Sastry, A. R.	Hezo, J. H.	Salto, H.	Song, X.	15:00		
15:15	De Wit, R.	Jaeger, A. L.	James, R. E.	Gráčák, V.	Coffin, R.	Morizeau, B.	Kaushal, S. S.	Hadas, O.	Prince, E. K.	Hezo, J. H.	Kamjunke, N.		15:15		

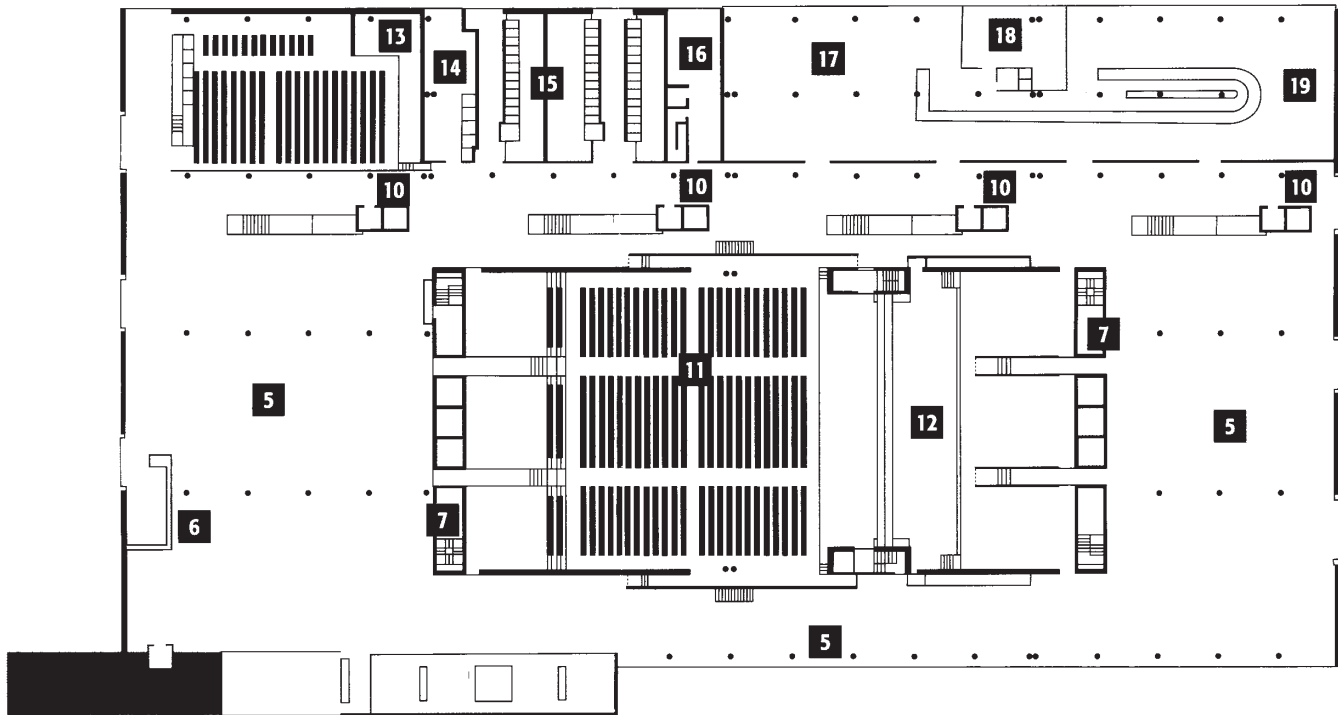
Concurrent Session Room Legend

Breakout	Location	Room	Cluster
#1	Palacio de Congresos y Exposiciones de Galicia	Santiago Hall	D
#2	Palacio de Congresos y Exposiciones de Galicia	Compostela Hall	A1
#3	Palacio de Congresos y Exposiciones de Galicia	Obraidoiro Hall	F
#4	Palacio de Congresos y Exposiciones de Galicia	#8/9	E
#5	Palacio de Congresos y Exposiciones de Galicia	#10	B2
#6	Palacio de Congresos y Exposiciones de Galicia	#13/14	B1
#7	Palacio de Congresos y Exposiciones de Galicia	#15/16	H
#8	Palacio de Congresos y Exposiciones de Galicia	#23/35	A2
#9	Puerto del Camino Hotel	V	C
#10	Puerto del Camino Hotel	I	I
#11	Puerto del Camino Hotel	II	J1
#12	Puerto del Camino Hotel	III/IV	J2

Clusters	Description
A1	Microbial Biodiversity and Ecology
A2	Functional Role of Biodiversity
B1	Ocean Processes
B2	Continental & Coastal Processes
C	Biogeochemistry
D	Global & Climate Change
E	Applied Ecosystem Research
F	Metabolism & Stoichiometry
H	Perspectives & Frontiers
I	Concepts, Theories and Approaches
J1	Plankton: Communities and Life History
J2	Planktonic Processes

Map - Palacio de Congresos y Exposiciones de Galicia

PLANTA BAJA/GROUND FLOOR



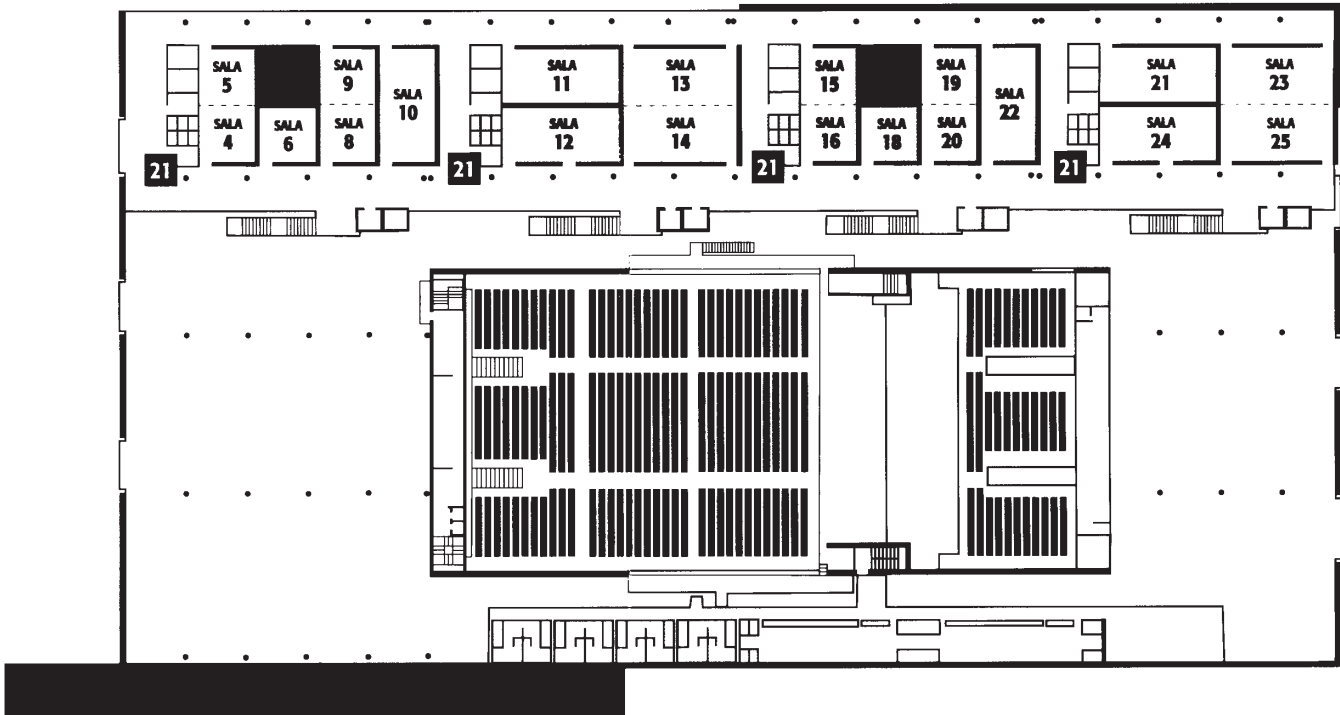
5 - Posters/Exhibit areas
 6 - Registration
 7 - Coat Check
 10 - Stairway & Lifts

11 - Santiago Room, Break-out #1
 12 - Compostela Room, Break-out #2
 13 - Obraadoiro Room, Break-out #3
 14 - Press Room

15/21 - Toilets
 17 - Rte Palacio De Congresos
 18 - Kitchen
 19 - Coffee Shop
 Sala 8/9 - Break-out #4
 Sala 10 - Break-out #5
 Sala 13/14 - Break-out #6

Sala 15/16 - Break-out #7
 Sala 23/25 - Break-out #8
 Sala 4/5 - Daycare (tentative)
 Sala 19/20 - Presentation Room
 Sala 22 - Speaker Practice Room
 Sala 11 - Email Room
 Sala 12/18/21/24 - Committee Rooms

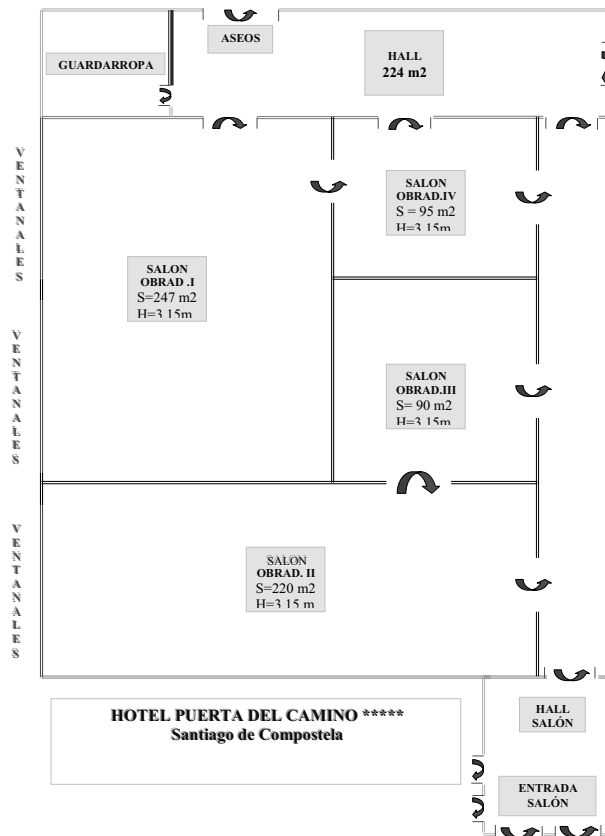
PRIMERA PLANTA/FIRST FLOOR



Map - Puerta del Camino



Plano Salón Obradoiro



ASLO 2005 Summer Meeting Registration Form

If you are unable to register electronically on the web at <http://www.aslo.org/santiago2005>, please mail completed registration form and payment to: ASLO, 5400 Bosque Boulevard, Suite 680, Waco, Texas 76710-4446, USA. Registrations complete with purchase order or credit card information that are not accompanying an abstract submission can be faxed to: +1-254-776-3767.

Please make checks payable in U.S. dollars and drawn on a U.S. bank to: ASLO

Please print or type.

LAST NAME	FIRST NAME	MIDDLE INITIAL	
NAME FOR BADGE			
INSTITUTE OR ORGANIZATION			
DEPARTMENT OR FIRST ADDRESS LINE			
LAST ADDRESS LINE			
CITY	STATE/PROVINCE	ZIP	COUNTRY
E-MAIL	PHONE	FAX	

I am a member of ASLO.

Fees (in U.S. dollars and per person):

<input type="checkbox"/> ASLO Members (received on or before 20 May 2005)	\$350.00 USD	
<input type="checkbox"/> Non-Members (received on or before 20 May 2005)	\$450.00 USD	
<input type="checkbox"/> ASLO Student Members (received on or before 20 May 2005)	\$250.00 USD	
<input type="checkbox"/> Non-Member Students (received on or before 20 May 2005)	\$350.00 USD	
<input type="checkbox"/> Spouse/Guest (received on or before 20 May 2005. Spouses/guests are not admitted to the sessions.)	\$100.00 USD	
Spouse/Guest Name: _____		
<input type="checkbox"/> One-Day Registrations (received on or before 20 May 2005)	\$200.00 USD	
<input type="checkbox"/> Late Fee (Must be added to all registrations that are received after 20 May 2005)	\$60.00 USD	
Total in U.S. Dollars		

Payment:

- Amount Enclosed
- Bill My Organization. *(You must submit a purchase order.)*
- Credit Card Payment
 - Visa MasterCard American Express

NAME ON CARD	
CARD NUMBER	EXP. DATE
SIGNATURE	

Confirmation:

A confirmation will be sent to the e-mail address on this form unless you specify otherwise.

I prefer that my registration confirmation be sent via:

- Fax Mail

Special Needs:

If you have a disability or limitation that may require special consideration in order to fully participate, please contact the meeting's planning organization to see how we can accommodate your needs. Call +1-800-929-2756 (USA, Canada & Caribbean) or +1-254-399-9635 (All other countries) or contact via e-mail at business@aslo.org

ASLO 2005 Summer Meeting Hotel Accomodation Form (Do not send with meeting registration. Send to address below.)

Name and Surname _____

Address _____

City _____ Country _____

Phone _____ Fax _____ E-mail _____

Invoice details _____

Do not cover:

--

RATES INCLUDE: ACCOMODATION, BREAKFAST, BUSING AND VAT

HOTEL	STARS	SINGLE ROOM	DOUBLE ROOM
PUERTA DEL CAMINO	*****	159,51€	213,09€
HOTEL LOS ABETOS	****	141,05€	190,49€
HESPERIA PEREGRINO	****	131,71€	175,78€
TRYP SAN LÁZARO	****	109,85€	134,59€
HESPERIA GELMÍREZ	***	95,29€	130,24€
HUSA SANTIAGO APÓSTOL	***	66,42€	87,90€
HUSA C. DE COMPOSTELA	***	66,42€	87,90€
HUSA UNIVERSAL	**	66,42€	87,90€
HOSTAL MÉXICO	**	58,30€	68,57€

Please book..... Double Room Single Room, in.....out....., Total.....nights.

Total :.....Euros included Room, Breakfast, Busing and VAT

BOOKING AND PAYMENT

Please send this form to :

mbkarma. C/ María Berdiales, 18 – 1º. Oficina 1. 36203 VIGO- SPAIN

Phone: 00 34 986 443 171 . Fax: 00 34 986 446 051 . e-mail: mbk@mbkarma.com

Cheque to the name of mbkarma

Wire Transfer to the Bank CAIXANOVA Account number: 2080 0528 67 0040000524

(enclose copy of payment)

VISA/ American Express credit card number.....Expiry date.....

Signature:

LAST DATE FOR RECEPTION OF BOOKINGS 1ST OF MARCH 2005
--

ASLO Membership Application 2005

Your Information:

FIRST NAME _____ MIDDLE INITIAL _____ LAST NAME _____

ADDRESS LINE 1 _____

ADDRESS LINE 2 _____

ADDRESS LINE 3 _____

ADDRESS LINE 4 _____

CITY _____ STATE _____ ZIP/POST CODE _____

COUNTRY _____

Demographic Information:

Please complete and/or indicate any changes to the following in the space provided below.

Institution/Organization: _____

Dept/School: _____

Telephone: _____

Fax: _____

E-Mail: _____

Gender (M/F): _____ Birth Year: _____

Highest Degree: _____ Year Completed: _____

Discipline: _____

Enter in order of priority

B - Biological O - Optical C - Chemical P - Physical G - Geological

Disciplinary Specialty (Use no more than 30 characters.): _____

Field: _____

LIM (Limnology) or OCE (Oceanography). Enter primary first if listing both.

Environmental Specialty: _____

Enter no more than four in order of priority.

1 - Lakes/Reservoirs/Ponds 4 - Wetlands 7 - Open Ocean
 2 - Rivers/Streams 5 - Estuaries 8 - Most or all
 3 - Great Lakes 6 - Coastal Ocean

Please list recent awards and/or honorariums received:

Payment Information:

Check enclosed

Make your check payable in US dollars to: **ASLO**.

Checks must be drawn on a US or Canadian bank.

Send remittance to: **ASLO**

American Society of Limnology and Oceanography
 5400 Bosque Blvd., Suite 680
 Waco, Texas 76710-4446 USA
 Voice: 800-929-ASLO or 254-399-9635
 Fax: 254-776-3767
 Email: business@aslo.org

Membership Dues: (Please indicate category.)

ASLO membership is based on a calendar year (January-December) and includes the *L&O Bulletin*, discounts on publications, and discounts on meeting registration fees. Members with print or electronic subscription to L&O will continue to receive *L&O: Methods* at no additional cost for 2005. Members without a subscription will not have access to *L&O: Methods*.

- Regular Member with Subscription to the Journal, *Limnology and Oceanography*
- Printed Version - North America \$95.00
 - Printed Version - Outside North America \$115.00
 - Electronic Version Only \$80.00
- Regular Member without Journal Subscription \$55.00
- Student Member with Subscription to the Journal, *Limnology and Oceanography* (5-year limit for graduate students)
- Printed Version \$75.00
 - Electronic Version Only \$35.00
- Student Member without Journal Subscription \$25.00

NOTE: Subscription to printed version includes access to electronic version. Use your ASLO Member ID Number (P#) to access the electronic version via the ASLO website - www.aslo.org.

Society Fund Contributions:

- Donation to Student Travel Fund \$ _____
 (This fund supports student members at ASLO meetings.)
- Donation to Endowment Fund \$ _____
 (This fund supports awards, special projects, and programs.)
- Donation to Education & Outreach Fund \$ _____
 (Contributors to be recognized in the *L&O Bulletin*.)

Limnology and Oceanography CD-ROM Offer:

- L&O Archival CD-ROM set (1956-1998, Volumes 1-43) \$150.00
- Shipping Charges—North America \$10.00
 - Shipping Charges—Outside North America \$15.00

Membership Directory:

The membership directory is available to members online, allowing members to search current membership information. The directory will also be available as a static PDF for download. If you would prefer to have a printed biennial directory mailed to you, please select the appropriate shipping fee below. The directory will be mailed in late February 2005.

- Printed Biennial Membership Directory
- Shipping Charges—North America \$5.00
 - Shipping Charges—Outside North America \$7.00

Total Amount Enclosed \$ _____

(Total includes dues, contributions, and any special offers)

- From time to time, the society rents the member mailing list to commercial and nonprofit organizations for one-time use. Permission to use the list is granted only if the intended mailing benefits ASLO members and conveys important information regarding industry and professional development. Please mark this circle if you **DO NOT** wish to be included in such mailings.

You can also apply online at www.aslo.org!

Credit card payment:

VISA MasterCard American Express Discover

CARDHOLDER NAME _____

CARD NUMBER _____ EXP DATE _____

SIGNATURE _____

ASLO

American Society of
Limnology and Oceanography

5400 Bosque Blvd., Suite 680
Waco, TX 76710-4446 USA