



ISOBAY 14

XIV International Symposium on Oceanography of the Bay of Biscay

11-13 June 2014, Bordeaux, France

Programme

Wednesday, June 11

09:00 – 09:30 Registration

09:30 – 10:00 Opening ceremony

10:00 – 10:30 *Coffee break*

Oral session 1: Biogeochemical Cycles (chairs: Bruno Deflandre & Ricardo Prego)

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| 10:30 – 10:50 | C. Charbonnier | Land-ocean connectivity through fresh groundwater discharge: Nutrient mass balance along the Aquitaine sandy coast |
| 10:50 – 11:10 | A. Mouret | Porewater biogeochemistry in a sandy beach of Yeu Island (French Atlantic coast) |
| 11:10 – 11:30 | J. Parot | Tracing the Liga phenomenon in the Bay of Biscay through optical properties of the dissolved organic matter |
| 11:30 – 11:50 | C. Liénart | Origin of particulate organic matter (POM) in a system characterized by seasonal high occurrence of viscous material |
| 11:50 – 12:10 | M. Plus | Phytoplankton versus macrophytes respective contributions to the Arcachon Bay annual production and N/P cycles. A modelling approach |
| 12:10 – 12:30 | S. Rigaud | Non-steady state biogeochemistry in Arcachon Bay sediments: New insights from intertidal pools |
| 12:30 – 14:00 | <i>Lunch</i> | |
| 14:00 – 14:20 | P. Bonin | Nitrogen cycling in Arcachon Bay (Bay of Biscay): Impact of <i>Zostera</i> spp. meadows |
| 14:20 – 14:40 | A. Cobelo-García | Behaviour and fluxes of dissolved and particulate Pt in the Gironde Estuary (SW France) |
| 14:40 – 15:00 | P. Anschutz | The control of phosphorus by Fe(III) oxyhydroxide in the coastal zone of the Bay of Biscay |

Oral session 2: Paleo-Climatology (chairs: Valérie David & Larraitz Garmendia)

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| 15:00 – 15:20 | K. Klouch | Multidisciplinary paleoecological approach unveiled toxic phytoplankton species invasions and the eutrophication status of coastal ecosystems |
| 15:20 – 15:40 | Y. Mary | Historical evolution of the Southern Bay of Biscay paleoenvironments: Towards a regional synthesis |

15:40 – 16:10 *Coffee break*

Oral session 3: Fisheries, Aquaculture and Quality Assessment of Ecosystems (chairs: Valérie David & Larraitz Garmendia)

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| 16:10 – 16:30 | X. de Montaudouin | Why is Manila clam (<i>Venerupis philippinarum</i>) fitness poor in Arcachon Bay: A meta-analysis to answer? |
| 16:30 – 16:50 | J.C. Pereau | Ecoviability for ecosystem based fisheries management |
| 16:50 – 17:10 | A. Chaalali | Climate-driven changes' incidence on the food-web status of the Bay of Biscay: A focus on dominant fish species |
| 17:10 – 17:30 | M.P. Cajaraville | A multidisciplinary approach to understand the health of estuaries and coastal areas in the Bay of Biscay |

Thursday, June 12

Oral session 4: Physical Oceanography and Coastal Dynamics (chairs: Moncho Gomez Gesteira & Bernard Le Cann)

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| 09:00 – 09:20 | C. Assassi | Interannual variability of hydrology and circulation over the past 50 years in the Bay of Biscay from a regional simulation |
| 09:20 – 09:40 | X. Costoya | Changes in thermohaline variables in the Bay of Biscay measured with Argo floats over the decade 2004-2013 |
| 09:40 – 10:00 | M. Thiébaud | Assessment of tidal circulation and tidal current asymmetry in the Iroise Sea with specific emphasis on characterization of tidal energy resources around the Ushant Island |
| 10:00 – 10:20 | A. Caballero | Glider campaign to estimate the 3D structure of an eddy in the south-eastern Bay of Biscay (GESEBB) |
| 10:20 – 10:50 | <i>Coffee break</i> | |
| 10:50 – 11:10 | M. Kersalé | Subinertial poleward along-shore currents on the shelf and slope of the Bay of Biscay |
| 11:10 – 11:30 | D. Buquet | Tidal dynamics of the shallow aquifer at the freshwater – seawater interface on a high energy sandy beach (Truc Vert, Aquitaine, France) |
| 11:30 – 11:50 | A. Barreiro | Study of extreme wave events on the Bay of Biscay coasts |
| 11:50 – 12:10 | S. Abadie | Statistical properties of storm waves in the Basque and Les Landes coast, Bay of Biscay |
| 12:10 – 12:30 | V. Valencia | Winter Mixed Layer Depth in the SE Bay of Biscay (1986-2013). Water masses properties in relation with atmospheric patterns and climatic anomalies |
| 12:30 – 14:00 | <i>Lunch</i> | |

Oral session 5: Organic and Inorganic Pollution, Ecotoxicology, and Eutrophication (chairs: Patrice Gonzalez & Beñat Zaldibar)

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| 14:00 – 14:20 | O. Solaun | Biomonitoring of metals: Detecting temporal trends and abrupt changes, in relation to the removal of pollution sources |
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14:20 – 14:40	P. Gamain	Effects of copper, metolachlor and changes in temperature and salinity of Arcachon Bay on embryo-larval development of the Pacific oyster <i>Crassostrea gigas</i>
14:40 – 15:00	M.A. Álvarez-Vázquez	Eutrophication and metal contamination sources in small rias: Sewage fluxes versus fluvial loads in the Rias of Ortigueira and Viveiro (western Cantabrian Sea)
15:00 – 15:20	J. Cruz	Occurrence, sources and fate of pesticides in the Gironde estuary
15:20 – 15:40	I. Zorita	Health status of gobies (<i>Pomatoschistus</i> sp.) collected along the Ibaizabal estuary (south-eastern Bay of Biscay)
15:40 – 16:00	G. Munoz	Trophic transfer of poly- and perfluoroalkyl substances (PFASs) in the Gironde estuary
16:00 – 17:00	<i>Coffee break and Poster session</i>	
17:00 – 17:20	A. Rementeria	Use of a battery of cell and tissue level biomarkers to assess the effects of sublethal concentrations of ⁶³ Cu and ¹⁰⁷ Ag stable isotopes in oysters <i>Crassostrea gigas</i> after direct exposure
17:20 – 17:40	J. Cavalheiro	Occurrence of compounds of emerging concern in the Adour estuary. Evaluation of wastewater treatment plants as sources
17:40 – 18:00	M. Ortiz-Zarragoitia	Long-term biomonitoring of intersex condition and xenoestrogenic biomarker responses in thicklip grey mullet (<i>Chelon labrosus</i>) from the Basque coast (south east Bay of Biscay)
18:00 – 18:20	M. Monperrus	Imaging differential mercury species bioaccumulation by glass eels using isotopic tracers and laser ablation
20:00	<i>Symposium dinner at Café Opéra, Bordeaux</i>	

Friday, June 13

Oral session 6: Biodiversity and Ecosystems (chairs: Christine Dupuy & Fernando Villate)

09:00 – 09:20	E. Ramos	The role of geomorphology in the distribution of intertidal rocky macroalgae in the Bay of Biscay
09:20 – 09:40	M.N. De Casamajor	Subtidal benthic macroalgae communities to qualify environment (rocky subtidal Basque coast, Aquitania)
09:40 – 10:00	J.M. Gorostiaga	Recent changes in the distribution and abundance of marine macroalgae in the north of the Iberian Peninsula and its relation to climate change
10:00 – 10:20	F. Cesbron	Influence of <i>Zostera</i> meadows on hard-shelled meiofauna of the sediment of a tidal lagoon (Arcachon Basin, France)
10:20 – 10:50	<i>Coffee break</i>	
10:50 – 11:10	J.M. Garmendia	Effect of shellfishing on intertidal <i>Zostera noltii</i> meadows within the Oka estuary (Basque Country, N of Spain)
11:10 – 11:30	C. Massé	<i>Melinna palmata</i> : A new biological model to assess bioturbation mediated interactions at the sediment-water interface
11:30 – 11:50	T. Chauvelon	Isotope and fatty acid trends across depth gradients in the northern part of the Bay of Biscay: Evidence for the influence of a “cold pool” structure on benthic trophic functioning?

11:50 – 12:10	L. Pascal	Impact of bioturbation by the mud shrimp <i>Upogebia pusilla</i> on nutrient and oxygen benthic fluxes in Arcachon Bay
12:10 – 12:30	R. González-Quirós	Sudden expansion of <i>Scomber colias</i> and <i>Trachurus picturatus</i> in the Cantabrian shelf driven by summer water temperatures
12:30 – 14:00	<i>Lunch</i>	
14:00 – 14:20	Y. Del Amo	Biotic and abiotic factors driving the occurrence of mucilage in the French Basque coast
14:20 – 14:40	C. Rodriguez-Cabello	Leafscale gulper shark (<i>Centrophorus squamosus</i>) migrations in the Bay of Biscay (NE Atlantic) based on electronic tagging
14:40 – 15:00	X. Chevillot	Impact of climate abrupt shift on fish biodiversity: The case of the Gironde estuary
15:00 – 15:20	M. Chifflet	Modeling climate change and variability effects in the Bay of Biscay ecosystem using end-to-end model
15:20 – 15:50	<i>Coffee break and Award Jury deliberation</i>	
15:50 – 16:40	<i>Announcement of the winners of the Student best talk and best poster awards</i> <i>Closing ceremony</i>	