



OCO 2008 Conference

Operational Coastal Oceanography

Final Programme

Monday 13 October 2008

9 :00 – 9 :10 Introduction
Jacques Legrand (Ifremer), Maguy Bourbigot (Brittany Marine Cluster)

Session 1 - Modelling

Chair : Yann Hervé De Roeck (Ifremer)

9:10 – 9:40 **Modélisation 3D avec MARS-AGRIF: un exemple issu du projet GIRAC,**
Nicolas Pérenne (HOCER SAS), Franck Dumas (Ifremer)

9 :40 – 10 :10 **Development and implementation of key processes modules of coastal sediment transport modelling,**
Nicolas Guillou, Georges Chapalain (CETMEF)

10 :10 – 10 :40 **Real-time modelling of coupled physical-biogeochemical process in the french brittany coastal zone. Effect of nutrient enrichment,**
Cédric Pénard, Alain Ménesguen, Morgan Dussauze (Ifremer)

Break

11 :10 – 11 :40 **Regional activities in Mercator Ocean: toward a regional perational system on the IBI domain,**
Sylvain Cailleau, J. Chanut, Bruno Levier, G. Reffray (Mercator Ocean).

11:40 – 12:10 **Wave and stratification effects on surface drift currents: analysis of HF radar data,**
Nicolas Rasclé (Ifremer), Fabrice Ardhuin (SHOM), Louis Marie (Ifremer).

12:10 – 12:40 **Development and application of EnKF Data assimilation system based on MARS-3D: achievements and future plans,**
Philippe Craneguy¹, Catherine Heyraud², Pascal Lazure², Pierre Garreau², Fabrice Lecornu², Valérie Mombet³, Anne Cujol³, Laurent Bertino⁴, Hélène Pineau¹
1-Actimar, 2-Ifremer, 3-Université Bretagne Sud, 4-NERSC (Norway).

Lunch

Ifremer





Session 2 - *In situ* measurements: components and systems

Chair: Glenn Nolan (Irish Marine Institute)

- 14:30 – 15:00 **Development of an *in situ* control system of the turbidity vertical profile : lessons from the winter 2007/2008 measurements,**
 Pierre Le Hir¹, Hervé Jestin¹, André Dolle², Agnès Bourret², Fabrice Lecornu¹.
 1-Ifremer, 2-Ixsurvey.
- 15:00 – 15:30 **"Trophimatic" project and chemical analysers,**
 Michel Répécaud, annick Aoustin, Stéphane Barbot, Michel Hamon, Dominique Le Piver, Loic Quemener, Christian Podeur, Renaud Vuillemin, Karen Bucas, Tiphaine Rudelle, Paul Jégou (Ifremer).
- 15:30 – 16:00 **MOLIT: a nex buoy for monitoring coastal waters from surface to sea bottom,**
 Yannick Aoustin, Paul Jégou, Marc Le Boulluec (Ifremer).
- Break
- 16:30 – 17:00 **FerryBox - Continuous and Automatic Water Quality Observations along Transects in the Southern North Sea,**
 Wilhelm Petersen, Friedhelm Schroeder (GKSS - Germany)
- 17:00 – 17:30 **CDOCO - Data Centre for French Coastal Operational Oceanography,**
 Michèle Fichaut, Armel Bonnat, Thierry Carval, Fabrice Lecornu, Jean François Le Roux, Eric Moussat, Lidwine Nonotte, Stéphane Tarot (Ifremer).
- 17:30 – 18:00 **A reference for air-sea interactions monitoring in coastal domain,**
 Marie Noëlle Bouin¹, Jean Rolland¹, Joël Poitevin¹, G. Caniaux²
 1-Météo France, 2-CNRM



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Session 3 - Remote sensing

Chair: Hugues Ravenel (Météo France)

- 9:00 – 9:30 **Synergetic use of scatterometer and synthetic aperture wind measurements in coastal areas.**
Mohamed Bassam Ben Ticha, Bertrand Chapron (Ifremer).
- 9:30 – 10:00 **A CNES initiative for improved altimeter processing in coastal zone: PISTACH,**
Claire Dufau¹, Franck Mercier¹, Michael Ablain¹, Gérard Debarboure¹, Loren Carrere¹, Sylvie Labroue¹, Estelle Obligis¹, Philippe Sicard¹, Pierre Thibaut¹, Jérôme Bouffard², Nicolac Picot³,
1-CLS, 2-CNRS-LEGOS, 3-CNES.
- 10:00 – 10:30 **Merging chlorophyll concentration from MERIS and MODIS sensors for the operational monitoring of coastal waters,**
Bertrand Saulquin¹, Francis Gohin²,
1-ENST Bretagne, 2-Ifremer

Break

Session 4 - Integrated operational systems

Chair: Jérôme Paillet (SHOM now at AAMP)

- 11:00 – 11:30 **Integrated real-time in-situ physical, chemical and biological measurements and operational modelling in Irish waters,**
Glenn Nolan, Guy Westbrook, Sheena Funnell, Marcel Cure, Kieran Lyons, Michael Roper, Kieran Adlum (Marine Institute – Galway – Ireland)
- 11:30 – 12:00 **The IEO Coastal Observing System new real-time developments: ocean-meteorological AGL buoy and TSG data in research vessels,**
Alicia Lavin¹, J. Alonso², J.M. Cabanas², D. Cano², G. Diaz del Rio², J. Gago², M.J. Garcia², C. Gonzales-Pola², P. Otero², C. Rodriguez², M. Ruiz Villareal², R.Sanchez², R. Somavilla², E. Tel².
1-Promotorio San Martin (Santander – Spain), 2-IEO (Spain).
- 12:00 – 12:30 **Towards 2010 strategy : operational coastal oceanography system in the Basque Country,**
Julien Mader, L. Ferrer, M. Gonzales, A. Fontan, G. Esnaloa, Adolfo Uriarte (AZTI-Technalia – Gipuzkoa – Spain)
- 12:30 – 13:00 **The Liverpool Bay Coastal Observatory,**
John Howarth (POL - UK)





Lunch

- 14:00 – 14:30 **ICON, an integrated Coastal Observation Network for the German North Sea,**
Rolf Riethmüller, Franciscus Colijn, Friedhelm Schröder (GKSS – Geesthacht – Germany).
- 14:30 – 15:00 **PREVIMER-Coastal observations and forecast – summary of 2 years demonstration and future perspectives,**
Fabrice Lecornu¹, Jérôme Paillet², Hugues Ravenel³,
1-Ifremer, 2-Protected marine area agency, 3-Météo France.
- 15:00 – 15:30 **MOBY - A real time oceanographic observatory,**
L.S. Quaresma (Instituto Hidrografico – Portugal).
- 15:30 – 16:00 **Towards an integrated national service for operational oceanography of the french coastal areas: the REDEO initiative,**
Jérôme Paillet¹, Jacques Legrand², Hugues Ravenel³,
1-SHOM/AAMP, 2-Ifremer, 3-Météo France.

Break

Session 5 - Applications and products

Chair: Maguy Bourbigot (Brittany Marine Cluster)

- 16:30 – 17:00 **Climatological and meteorological expertise to help decision making for beach management in the context of the new bathing waters directive,**
Hugues Ravenel, Franck Baraer, A. Torrente (Météo France)
- 17:00 – 17:30 **PREVICOT: dedicated products for users of the sea in coastal zones,**
Philippe Craneguy (Actimar).
- 17:30 – 18:00 **Merchant ship route optimisation by use of tidal currents,**
Capt. Alain Richard (Institut Maritime du Québec)

Conclusion

- 18:00 – 18:15 **Keynotes: synthetic remarks, strength and weakness, future needs,**
Christophe Le Visage (SG Mer), Anne Fontaine (MEEDDAT)



Poster session

- P1 **The national coastal network of *in situ* measurement of swell and its data management system CANDHIS**,
Gérard Goasguen, Joël L'Her, Guy Amis, Alain Le Berre, Michel Rogard (CETMEF)
- P2 **Implementation of the SEEK filter for data assimilation in a regional model of the Gulf of Lions**
Aurélie Duchez¹, Jacques Verron¹, Philippe Fraunié², J.M. Brankart¹, Y. Ourmières², Pierre Brasseur¹,
1-CNRS-LEGI, 2-CNRS-LSEET
- P3 **MONICAN: MONItoring of the Nazaré CANyon area**,
Carlos Fernandes, (Instituto Hidrografico – Portugal)
- P4 **Parametrization of long wave runup characteristics**,
Ira Didenkulova^{1,2}, Efin Pelinovsky², Tarmo Soomere¹,
1-Institut of cybernetics, Talinn University of Technology, (Talinn - Estonia), 2-Institut of applied physics, (Nizhny Novgorod - Russia)
- P5 **High frequency observations from Ferrybox – Contribution to process understanding in the coastal oceans GMES context**,
Henning Wehde, Dominique Durand, Are Folkestad, Jan Magnusson, Kai Sorensen (NIVA – Norway).
- P6 **COSYNA: Improving regional forecasting capabilities for the German Bight**,
J. Schulz-Stellenfleth, J. Staneva, S. Grayek, H. Günther, W. Petersen, E. Stanev (GKSS – Geesthacht – Germany).