

Version 9 April 2008

# **EuroGOOS Conference 2008 Programme**

## **Coastal to Global Operational Oceanography: Achievements and Challenges**

20–22 May 2008 Exeter, UK

[www.metoffice.gov.uk/conference/eurogoos](http://www.metoffice.gov.uk/conference/eurogoos)

### **Conference “At a glance”**

<b>Tuesday</b>	<b>AM Registration / Opening Plenary PM Parallel sessions Observations / Modelling / Information Systems Posters Icebreaker reception Met Office</b>
<b>Wednesday</b>	<b>AM Plenary Overviews PM Parallel sessions Observations / Modelling / Global Services / Coastal services Conference Dinner</b>
<b>Thursday</b>	<b>AM Parallel sessions Observations / Modelling / Global Services / Coastal services PM Closing Plenary</b>

**EuroGOOS Conference  
20<sup>th</sup> - 22<sup>nd</sup> May 2008  
Detailed programme**

**Tuesday 20 May Sandy Park EUROPEAN MARITIME DAY**

**09.00–10.00 Registration & coffee** Sandy Park conference centre  
Buses leave town at: 0830

**10:00 - 12:30 Opening Plenary:  
Exeter Suites**

**Chair: Peter Ryder**

Welcome from the Met Office  
*John Hirst*

Conference opening - The Challenge  
*Baroness Young, Chief Executive Environment Agency*

The Global Ocean Observing System, GOOS, and contributions from GOOS Regional Alliances  
*François Gerard Chair of the Intergovernmental Committee for GOOS*

**The needs of the Maritime Policy for data and information**  
*Iain Shepherd (EMODNET/ Maritime Policy Task Force)*

The GMES Bureau's expectations of the Marine Core and associated Downstream Services  
*Valere Moutalier GMES*

The European Maritime Safety Agency's plans and expectations of operational oceanography  
*Olaf Trieschmann EMSA*

Protecting from the sea: Early Warning Systems to come  
*Peter Koltermann IOC*

**12:30–14:00 Lunch**

**Tuesday 20 May 14:00 - 17:30 Parallel sessions  
Rooms Exeter 1&2 Observations**

**Chair: Enrique Alvarez Fanjul** **coffee break 15.40–16.00**

OBS1	EURO ARGO – towards a sustained European contribution to ARGO <i>Pierre-Yves Le Traon</i>
OBS2	Global Comparison of Argo dynamic height with altimeter sea level anomalies <i>Stephanie Guinehut</i>
OBS3	Glider surveys planned in the Eastern Mediterranean <i>Daniel Hayes</i>
OBS4	Rapid environmental assessment of the Balearic front combining glider and altimetry data <i>Ananda Pascual</i>
OBS5	Velocity vertical structure in the NW Black Sea viewed from coast to the deep sea <i>Evgeny Lemesko</i>
OBS6	Innovative measurements of strong and persistent surface currents from Envisat ASAR – A new tool for operational monitoring <i>Johnny A. Johannessen</i>
OBS7	Requirements for an operational HF radar metocean service <i>Lucy Wyatt</i>
OBS8	A new concept of multi-purpose sea level station example of implementation on the REDMAR network <i>Begoña Perez</i>

<b>Tuesday 20 May 14:00 - 17:30 Parallel sessions</b> <b>County Room Modelling</b>	
<b>Chair Nadia Pinarði</b> <span style="float: right;"><b>coffee break 15.40–16.00</b></span>	
MOD1	The Mercator Ocean ocean forecasting systems – recent results and assessment <i>Eric Dombrowsky</i>
MOD2	Evaluation of a short-term regional forecast system of the Sicily Strait <i>Roberto Sorgente</i>
MOD3	An Operational Coastal Forecasting System in Galicia NW Spain – Improving the radiation forcing <i>Eva Pérez García</i>
MOD4	Wave forecasting system at the French Naval Hydrographic Center SHOM – from global to local scales <i>Rudy Magne</i>
MOD5	The EUSKALMET wave forecast system – preliminary results and validation <i>Santiago Gaztelumendi</i>
MOD6	Evaluating an operational hydrodynamic sediment and ecosystem model of the NW European Shelf <i>Enda O’Dea</i>
MOD7	Operational forecast of the Black Sea dynamics <i>Gennady Korotaev</i>
MOD8	Shelf Seas nowcasting and forecasting using the NEMO ocean model <i>Dave Storkey</i>
MOD9	The Adriatic Basin Forecasting System new model and system development <i>Antonio Guarnieri</i>
MOD10	Variability of circulation off N and NW Iberia in 2006–2008 – insights from a forecast model <i>Manuel Ruiz Villarreal</i>
<b>Tuesday 20 May 14:00 - 17:30 Parallel sessions</b> <b>Chiefs Room Information Systems</b>	
<b>Chair Sylvie Pouliquen</b> <span style="float: right;"><b>coffee break 15.40–16.00</b></span>	
INF1	Towards an operational pan-European oceanographic real time data exchange <i>Patrick Gorringe</i>
INF2	Operational Oceanography and INSPIRE – opportunities and challenges <i>Keiran Millard</i>
INF3	Towards an enhanced information system for the MyOcean project: Lessons learned from previous projects (Mersea, Humbolt, Boss4GMES,...) <i>Frederique Blanc</i>
INF4	SeaDataNet – Design of a distributed architecture for ocean data <i>Gilbert Maudire</i>
INF5	Design of a pan-European marine data management system <i>Kai Christian Soetje</i>
INF6	MDIP and MEDAG – Working to deliver improved access to and stewardship of UK Marine data and information <i>David Cotton</i>
INF7	Ingesting model outputs in a GIS <i>Pedro Montero</i>
INF8	Information Management and Marine Science and Technology in Europe <i>Laurent d’Ozouville</i>

**17:30–19:00 Poster reception  
(to include “poster flash” )**

**Icebreaker reception UK Met Office**  
Buses leave Sandy Park at: 19.10  
Return to town from Met Office at ?

**Wednesday 21 May Sandy Park**

**Wednesday 21 May 09:00 - 12:30 Plenary: Overview  
Exeter Suites**

**Chair Hans Dahlin**

**coffee break 10.30**

The expectations of the European Environment Agency  
*Professor Jacqueline McGlade Chief Executive EEA*

ESA's contribution to the GMES Space Programme  
*Josef Aschbacher ESA*

EUMETSAT's aspirations and plans to support operational oceanography  
*Mikael Rattenborg EUMETSAT*

MyOcean (Global and regional services)  
*Pierre Bahurel Mercator*

The HELCOM oil forecast system Seatrack Web, now including AIS ship track data  
*Cecilia Ambjörn SMHI*

Operational forecast of the Mediterranean marine ecosystem  
*Alessandro Crise OGS*

The Mersea information system  
*Thomas Loubrieu IFREMER*

From Data to Information: the role of industry in satellite enabled oceanographic and coastal environmental information services  
*Han Wensink ARGOS*

The Alliance for Coastal Technologies: A foundation for ocean observing  
*Richard Burt Chelsea Technologies Group Ltd*

**12:30–13:30 Lunch**

**Wednesday 21 May 13:30 – 17:00 Parallel sessions  
Exeter 1 Observations**

**Chair Glenn Nolan**

**coffee break 15.10**

OBS9	Ecological Indicators of the Ocean by Remote Sensing <i>Trevor Platt</i>
OBS10	Estimation of primary production in the Southern North Sea from continuous in situ observations of oxygen by a FerryBox <i>Wilhelm Petersen</i>
OBS11	An operational framework for determining phytoplankton bloom extent from Earth observation data <i>Jamie Shutler</i>
OBS12	Observations of phytoplankton dynamics and production at multiple spatial and temporal scales in the North Sea during 2007 <i>Rodney Forster</i>
OBS13	Towards an operational monitoring system for ocean carbon <i>Nick Hardman-Mountford</i>
OBS14	Studies of CO <sub>2</sub> exchange by continuous observations from ships of opportunity on regional and global scales <i>David John Hydes</i>

OBS15	Spatial and temporal variation in surface nitrate concentrations in the temperate and sub-tropical North Atlantic <i>Susan Hartman</i>
OBS16	Towards an integrated real-time in situ physical, chemical and biological network in Irish waters <i>Glenn Nolan</i>
<b>Wednesday 21 May 13:30 – 17:00 Parallel sessions</b> <b>County Room Modelling</b>	
<b>Chair Nadia Pinardi</b> <span style="float: right;"><b>coffee break 15.10</b></span>	
MOD11	Air-sea fluxes of CO <sub>2</sub> and the impact of physical and biological data assimilation <i>Rosa Barciela</i>
MOD12	Operational forecasts of algae bloom in the Baltic Sea <i>Lennart Funkquist</i>
MOD13	Predicting the consequences of nutrient reduction on the eutrophication status of the North Sea <i>David Mills</i>
MOD14	The Poseidon ecosystem model: The Mediterranean case <i>Konstantinos Tsiaras</i>
MOD15	Parameterization of light absorption by all in-water optically active components in the Black Sea impact for underwater irradiance and primary production modelling <i>Tanya Churilova</i>
MOD16	Long term evolution of physics and ecosystem of the Black Sea <i>Viktor Dorofeyev</i>
MOD17	Assimilation of sea surface temperature into the hydrodynamic model for application at the regional scale (MARS) using ensemble Kalman filter with application to continental shelf environment <i>Philippe Craneguy</i>
MOD18	Multivariate assimilation of HF currents in a 3d-baroclinic model of the Irish Sea <i>Isabel Andreu-Burillo</i>
MOD19	Surface velocity observations and experiments to assess their usefulness in Operational Ocean Data Assimilation Forecasting Systems <i>Sylvie Giraud Saint-Albin</i>
MOD20	The POSEIDON-II operational system – Forecasting at the Mediterranean scale <i>Gerasimos Korres</i>
<b>Wednesday 21 May 13:30 – 17:00 Parallel sessions</b> <b>Chiefs Room Global &amp; regional services</b>	
<b>Chair Kostas Nittis</b> <span style="float: right;"><b>coffee break 15.10</b></span>	
SERV1	Implementation of the Operational Oceanography System in the Iberia-Biscay-Ireland Area – IBIROOS <i>Alicia Lavín</i>
SERV2	Mediterranean Operational Oceanography Network – products and services <i>Nadia Pinardi</i>
SERV3	Arctic Regional Ocean Observing System – Arctic ROOS <i>Stein Sandven</i>
SERV4	Advances in the Black Sea regional efforts to build and sustain the operational status of oceanographic services <i>Atanas Palazov</i>
SERV5	Mersea – a precursor to GMES Marine Core Service <i>Yves Desaubies</i>

SERV6	POSEIDON II: Upgrading the monitoring and forecasting services in the Eastern Mediterranean Sea <i>Kostas Nittis</i>
SERV7	Results of the ESEOO Project: perspectives for Operational Oceanography in Spain <i>Enrique Álvarez Fanjul</i>
SERV8	Regional Services at the Swedish Meteorological and Hydrological Institute SMHI <i>Anette Jönsson</i>
SERV9	Progress within the UK's National Centre for Ocean Forecasting <i>Mike Bell</i>
SERV10	The MarCoast project – two years of water quality services <i>Monique Viel</i>

**Wednesday 21 May 13:30 – 17:00 Parallel sessions**

**Exeter 2 Coastal & EEZ services**

**Chair Erik Buch**

**coffee break 15.10**

COAST1	Interoperable GMES services for environmental risk management in marine and coastal areas <i>Stein Sandven</i>
COAST2	On the use of satellite imagery and modelling for the detection and follow-up of marine pollution some results and comments on a recent joint surveillance exercise Super CEPSCO <i>Machteld Price</i>
COAST3	AlgaRisk predicting harmful and nuisance algal blooms using EO data and ecosystem forecasts <i>Peter Miller</i>
COAST4	Operational Forecasting of the Impact of the MSC Napoli <i>Jon Rees</i>
COAST5	Marine core and downstream oceanographic services in the Eastern Mediterranean Levantine Basin and their success in assisting the EU response agencies <i>George Zodiatis</i>
COAST6	Mean seasonal cycles and variability in SST and chlorophyll concentration at coastal stations of the Bay of Biscay and the English Channel observed from in situ and satellite data <i>Francis Gohin</i>
COAST7	The Western Channel Observatory: application of the analysis of historical data to operational remote sensing products <i>Victor Martinez-Vicente</i>

**19.30 Conference Dinner (Sandy Park Conference Centre)**

**Thursday 22 May Sandy Park**

**Thursday 22 May 09:00 – 12:30 Parallel sessions**

**Exeter Suite 1 Observations**

**Chair Glenn Nolan**

**coffee break 10.30**

OBS16	The biogeochemical monitoring system in the North and Baltic Seas – A contribution to ECOOP <i>Philip Axe</i>
OBS17	Validation of turbidity products in the Baltic derived from multi-sensor observations of ocean colour <i>Antoine Mangin</i>
OBS18	Remote sensing segment of the Black Sea GOOS <i>Sergey Stanichny</i>
OBS19	Analysis of near real time remotely sensed wind fields <i>Abderrahim Bentamy</i>

OBS20	EuroSITES European network of deep ocean observatories <i>Kate Larkin</i>
OBS21	Daily global and regional sea ice concentrations – validation studies <i>Georg Heygster</i>
OBS22	Monitoring the ocean surface circulation from Global Observed Ocean products <i>Marie-Helene Rio</i>
OBS23	High-frequency continuous observations from Ferrybox: Contribution to process understanding in the GMES context <i>Kai Sorensen</i>
<b>Thursday 22 May 09:00 - 12:30 Parallel sessions</b> <b>County Room Modelling</b>	
<b>Chair Nadia Pinardi</b> <span style="float: right;"><b>coffee break 10.30</b></span>	
MOD21	The FOAM ocean forecasting system capabilities and developments <i>Rosa Barciela</i>
MOD22	The Mediterranean Ocean Forecasting System <i>Marina Tonani</i>
MOD23	High resolution modelling of intra-seasonal variability on continental slope in the Tropical and North Atlantic <i>Catherine Guiavarc'h</i>
MOD24	First results of a new operational circulation model for the North Sea and the Baltic using general vertical co-ordinates <i>Stephan Dick</i>
MOD25	The Global 1/12° Mercator Ocean forecasting system: new insights <i>Benoît Tranchant</i>
MOD26	Building a polycentric structure for the Atlantic Arc - EASY project <i>Pedro Montero</i>
MOD27	Validation of multiple ocean shelf models against EO data using automated front detection <i>Peter Miller</i>
MOD28	Towards eddy resolving ocean prediction off the northern coast of Norway <i>Lars Petter Røed</i>
MOD29	Validation of an ocean model ensemble for the Barents Sea and the northeastern Nordic Seas <i>Arne Melsom</i>
MOD30	Comparison of different oil drift models and different ocean forcing with observed drifter trajectories in the Mediterranean <i>Göran Broström</i>
<b>Thursday 22 May 09:00 - 12:30 Parallel sessions</b> <b>Chiefs Room Global &amp; regional services</b>	
<b>Chair Kostas Nittis</b> <span style="float: right;"><b>coffee break 10.30</b></span>	
SERV11	Coupling 3-D models of ocean physics and biogeochemistry to fish population dynamics for operational monitoring of marine living resources <i>Philippe Gaspar</i>
SERV12	Operational Oceanography and European Environmental Agency indicators <i>Giovanni Coppini</i>
SERV13	The integrated European environmental indicators service – the GMES initiative <i>Laurence Crosnier</i>
SERV14	Model-based indicators for the Baltic Sea <i>Tapani Stipa</i>

SERV15	A new Coriolis product for re-analysis activities <i>Emilie Brion</i>
SERV16	Development of a European Marine Ecosystem Observatory – contributing to an operational ecosystem approach <i>David Mills</i>
SERV17	The IEO Coastal Observing System around N and NW Iberia <i>Alicia Lavín</i>
SERV18	The Global Ocean Data Assimilation Experiment <i>Mike Bell</i>
<b>Thursday 22 May 09:00 - 12:30 Parallel sessions</b> <b>Exeter 2 Coastal &amp; EEZ services</b>	
<b>Chair Erik Buch</b> <span style="float: right;"><b>coffee break 10.30</b></span>	
COAST8	PREVIMER – Coastal observation and forecast <i>Catherine Heyraud</i>
COAST9	EUMETSAT SAFs for high resolution coastal winds <i>Ad Stoffelen</i>
COAST10	The Galicia HF radar experience <i>Enrique Alvarez Fanjul</i>
COAST11	Towards rapid environmental assessment and coastal forecasting in the Northern Adriatic <i>Antonio Guarnieri</i>
COAST12	An operational service for oil spill detection and forecasting in the Aegean Sea <i>Leonidas Perivoliotis</i>
COAST13	Building an operational storm surge forecast service <i>Joël Hoffman</i>
COAST14	The Liverpool Bay Coastal Observatory <i>Michael John Howarth</i>
<b>14:00 Concluding Plenary Session</b> <b>Exeter Suites 1&amp;2</b> <b>Marine Services: towards 2015</b> <b>Where do we want to be by year 2015 and how are we getting there?</b>	
<b>Chair: Peter Ehlers</b> <span style="float: right;"><b>Coffee break 15.30</b></span>	
Rapporteur: Observations Rapporteur: Modelling Rapporteur: Information Systems Rapporteur: Global and regional services Rapporteur: Coastal and EEZ services  Discussion  Concluding remarks: “The future of Operational Oceanography and EuroGOOS” <i>Hans Dahlin EuroGOOS Director</i>	
<b>1730</b> tbc Buses depart for town	

**EuroGOOS Conference**  
**20<sup>th</sup> - 22<sup>nd</sup> May 2008**  
**Posters**

**Observations posters**

P1	Use of Irish weather buoys for oceanography and climate change monitoring <i>Sheena Fennell</i>
P2	A coastal wave monitoring system for the Hellenic Seas based on nautical X-band radars <i>Takvor Soukissian</i>
P3	Aegean Sea surface circulation dynamics derived from real-time buoy measurements <i>Dimitris Kassis</i>
P4	Mediterranean Moored Multi-sensor Array M3A – Eight years of observations in the Cretan Sea <i>George Petihakis</i>
P5	An intermittent Northwest Iberian coastal current <i>Antonio Jorge da Silva</i>
P6	A small boat towed profiling vehicle for coastal water quality assessment <i>Marco Marcelli</i>
P7	Alternative satellite data sources for ocean data assimilation <i>Fabrice Collard</i>
P8	Near-real time level-2 wind and waves SAR products for coastal and offshore monitoring <i>Fabrice Collard</i>
P9	The use of in situ phytoplankton ocean colour data to link SeaWiFS and CZCS sensors <i>Dionysios Raitsos</i>
P10	Mean sea level monitoring from space <i>Joel Dorandeu</i>
P11	On the quality of real-time altimeter gridded fields – comparison with in situ data <i>Ananda Pascual</i>
P12	Sea ice satellite products at Ifremer/CERSAT <i>Fanny Girard-Ardhuin</i>
P13	The Western English Channel Observatory as a test bed for improving ecosystem forecasts <i>James Fishwick</i>
<b>Global &amp; Regional services posters</b>	
P14	Operational service of end-users in the Black and Azov seas ASCABOS project <i>Eugeny Nesterov</i>
P15	The Regional ESEOO Ocean Forecast System – present and future <i>Marcos G. Sotillo</i>
P16	Making the "Ecosystem approach" operational: the concept of EMECO <i>David Mills</i>
P17	The Sea Level Thematic Assembly Center – A Sea Level Service for GMES marine applications <i>Gilles Larnicol</i>
P18	Operational satellite monitoring of cyanobacterial blooms in the Baltic Sea during the period 1997–2007 – results and future development <i>Martin Hansson</i>

P19	Validation and exploitation of GlobColour-like time-series of ocean colour as a support to implementation of Water Framework Directive <i>Antoine Mangin</i>
P20	MyOcean Wind TAC – Improved mesoscale forcing <i>Ad Stoffelen</i>
<b>Coastal &amp; EEZ services posters</b>	
P21	Validation of a wave forecast system for the Portuguese ports <i>Mariana Bernardino</i>
P22	Oil spill forecasting in the Mediterranean Sea <i>Michela De Dominicis</i>
P23	Phytoplankton bloom dynamics in Liverpool Bay <i>Naomi Greenwood</i>
P24	An operational coastal forecast system in Galicia NW Spain: Operational data and models <i>Eva Perez Garcia</i>
P25	A new method for assessing impacts of potential oil spills <i>Arne Melsom</i>
P26	High Spatial Resolution Wave Sensor Array <i>Richard Thurley</i>
<b>Modelling Posters</b>	
P27	The use of Multi Model MOS forecasts in the operational environment of the Oceanographic Meteorological Station OMS in Belgium <i>Ir. Guido Dumon</i>
P28	Comparison of data assimilation schemes in a numerical model of the North Sea <i>Stephanie Ponsar</i>
P29	Towards 2010 strategy oceanographic and meteorological modelling programme in the Basque country <i>Luis Ferrer</i>
P30	Towards an operational forecast of harbour circulation and water quality assessment in the Spanish harbours <i>Manel Grifoll</i>
P31	Assessment of WAVEWATCH III dissipation formulations by using collocated TOPEX data <i>Georgia Kalantzi</i>
P32	Upstream non-oscillatory advection schemes in spherical multiple-cell grid <i>Jian-Guo Li</i>
P33	The Black Sea Nearshore Regions Forecasting System operational implementation <i>Alexander Kubryakov</i>
P34	The Black Sea Training System <i>Alexander Kubryakov</i>
P35	An Operational Met-Ocean Modelling Forecast System for the Brazilian Coast <i>Eduardo Yassuda</i>
P36	On the transport of tracers by Stokes drift <i>Göran Broström</i>
P37	Air-sea latent heat fluxes derived from an oceanic freshwater budget <i>Mike McCulloch</i>

P38	Estimation of the large scale ocean variability with a 1960–2005 low resolution global ocean reanalysis using a 3DFGAT scheme <i>Elisabeth Remy</i>
P39	Impact of multi-altimeter sea level assimilation in the Mediterranean Forecasting model <i>M. -Isabelle Pujol</i>
P40	Roadmap to a future technology of operational environmental management <i>Tarmo Soomere</i>
P41	Assessing the skill of the POSEIDON-II weather forecasting system <i>Anastasios Papadopoulos</i>
P42	A European Survey of Operational Forecasting Models <i>Patrick Gorringe</i>
P43	Model and Observation bias correction in altimeter ocean data assimilation in FOAM <i>Daniel Lea</i>
P44	Ocean and Sonar performance forecasting aboard Snellius for NATO trial MREA 2007 <i>Mathijs W. Schouten</i>
P45	Wind/wave forecasts for the central Mediterranean and the Maltese islands <i>Aldo Drago</i>
P46	Data assimilation using an Ensemble Kalman in a system with two spatial scales: A limit for the application of sequential schemes <i>Joaquim Ballabrera</i>
P47	Assessment of the TOPAZ forecasting system <i>Laurent Bertino</i>
P48	Short-term forecasting storm surges in the North Sea using multivariate chaotic model <i>Michael Siek</i>
<b>Information Systems posters</b>	
P49	EuroSITES data management template for future observatories <i>Maureen Pagnani</i>
P50	Example of Online oceanographic data management in the Mediterranean and the Black sea <i>Andria Karaolia</i>

## Scientific Steering Committee

Mike Bell	Met Office, UK
Erik Buch	DMI, Denmark
Hans Dahlin	EuroGOOS Director
Enrique Alvarez Fanjul	Puertos del Estados, Spain
Bertil Håkansson	SMHI, Sweden
Martin Holt	Met Office, UK
Gennady Korotaev	Marine Hydrophysical Institute, Ukraine
Glenn Nolan	Marine Institute, Ireland
Kostas Nittis	HCMR, Greece
Nadia Pinardi	INGV, Italy
Sylvie Pouliquen	Ifremer, France
Roger Proctor	POL, UK
Peter Ryder	EuroGOOS Chair
Jan Stel	NWO ALW, Netherlands

### Parallel sessions:

#### Observations

Chair Enrique Alvarez Fanjul and Glenn Nolan; Rapporteur Trevor Guymer

#### Global and regional services

Chair Kostas Nittis; Rapporteur Mike Bell

#### Coastal services

Chair Erik Buch; Rapporteur Jan Stel

#### Modelling

Chair Nadia Pinardi; Rapporteur Roger Proctor

#### Information systems and data management:

Chair Sylvie Pouliquen; Rapporteur Kees van Ruiten