



## OCEAN OPS 04

### Operational Metocean Products and Services in Support of Maritime Safety and Environmental Management

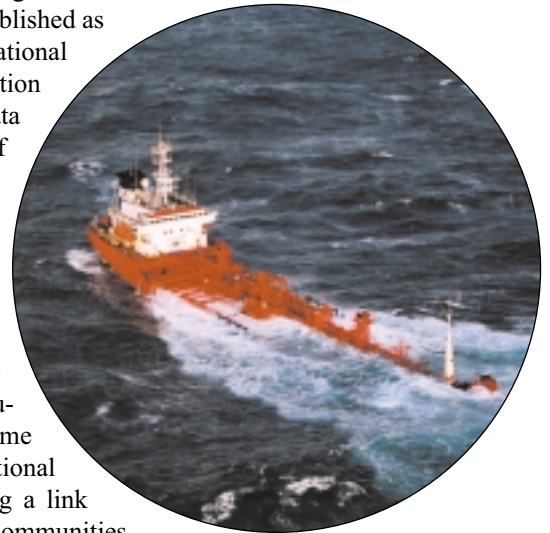
*A scientific workshop focusing on the operational needs of environmental managers*

[www.meteo.fr/marine/oceanops04](http://www.meteo.fr/marine/oceanops04)

Centre International de Conférences, Météo-France  
Toulouse, France, 10–15 May 2004

#### Background

The Joint WMO/IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM) of the World Meteorological Organization and the Intergovernmental Oceanographic Commission (of UNESCO) has been established as an intergovernmental technical body to coordinate operational oceanography and marine meteorology. Such coordination encompasses operational ocean observing systems, data management and the preparation and dissemination of products and services. As such, JCOMM provides an important implementation mechanism for the Global Ocean Observing System (GOOS). JCOMM already coordinates a number of important operational products and services activities that cover the global ocean, including the Marine Pollution Emergency Response Support System (MPERSS), the JCOMM Electronic Products Bulletin (JEB) and the preparation and distribution of maritime safety services under the Global Maritime Distress and Safety System (GMDSS) of the International Maritime Organization (IMO). In addition, in providing a link between the marine research, operational and user communities, JCOMM seeks to develop new and innovative operational ocean products to support developing user requirements.



For more information on JCOMM and its programmes, see [www.jcommweb.net](http://www.jcommweb.net).

#### Purpose

The purpose of the present JCOMM workshop is to evaluate new operational metocean products and systems in support to specific users requirements, in particular marine environmental managers and decision makers. This evaluation will assess global to local scale applications, with a special focus on metocean information systems to respond to coastal marine pollution, security and environmental assessment.

#### Objectives

The specific objectives of the workshop are:

- \* To evaluate specific user requirements for operational metocean products;
- \* To review newly developed and tested products, as well as the state of the art of ocean modelling, and assess their suitability for operational implementation;
- \* To provide a basis for restructuring and enhancing the JEB, and contribute to the further implementation of existing JCOMM systems such as MPERSS and the marine broadcast system for the GMDSS.

# OUTLINE PROGRAMME and Keynote Speakers

## Monday 10 May—Introduction

Session 1 Registration and welcome. Those officiating will include:  
*Mr Jean-René Garnier*, Préfet, Secrétaire Général de la Mer auprès du Premier Ministre;  
*Mr Michel Jarraud*, Secretary-General of WMO;  
*Mr Alexander Frolov*, vice-chairman of IOC;  
*Mr Jean-Pierre Beysson*, Président-Directeur Général de Météo-France  
*Mr Jean-François Minster*, Président-Directeur Général de l'IFREMER

## Session 2 Opening and scene setting: keynote papers only

Keynote 1 *N. Smith* (Bureau of Meteorology, Australia), *P.-Y. Le Traon* (CLS/Argos), *M. Bell* and *E. Chassignet*: Ocean Data Assimilation and Prediction

Keynote 2 *J.-F. Minster* (IFREMER, France): Implementation of Operational Oceanography

Keynote 3 *Y. Tourre* (Medias France) and *W. White* (SIO, USA): Real-time oceanography – no longer a fiction

## Session 3 User requirements (e.g. on global, basin and coastal/local scales)

### Session 4 User requirements (continued)

Keynote 1 *E. Berder* (DAMGM, France): Meteorology and maritime safety: A perspective for the future

Keynote 2 *T. Gilbert* (AMSA, Australia): The importance of metocean data and services to effective maritime emergency response in MPERSS Region X

Keynote 3 *R. Spinrad* (NOAA/NOS/USA): Requirements for integrated management of the oceans

Keynote 4 *M. Van Woert*, *P. Seymour* (National Ice Center, USA), *J. Falkingham* (Canadian Ice Service), *I. Askik* (AARI, Russian Federation): Requirements for ocean data, products and services for environmental management in the Arctic

Keynote 5 *E. Desa* (IOC): Developing country requirements for operational ocean data and products in national development

Keynote 6 *S. Weeks* (UCT, South Africa), *B. Currie* (Ministry of Fisheries, Namibia), *A. Bakun* (RSMAS, Miami, USA), *K. Peard* (Ministry of Fisheries, Namibia): Satellite identification of massive hydrogen sulphide emissions in the Benguela coastal upwelling system: Implications of a new view

## Tuesday 11 May—Science and modelling

### Session 5 Climate variability and forecasting

Keynote *Y. Kitamura* (JMA, Japan): SST forecast with a coupled GCM: What is needed for a breakthrough

### Session 6 Short term ocean forecasting

Keynote *RADM (select) T. McGee*: (NAVOCEANO, USA): "Operationalizing oceanography"

### Session 7 Security, transport and environmental management

Keynote *P. Parker* (Australian Bureau of Meteorology) and *H. Savina* (Météo France): Metocean services in support of maritime safety

## Operational observing systems

### Session 8 Satellites and remote sensing

Keynote *S. Wilson* (NOAA, USA), *A. Ratier* (Météo France), *H. Kawamura* (Tohoku University, Japan): Contribution of satellites to marine meteorology and operational oceanography: an overview

## Wednesday 12 May—Operational observing systems

### Session 9 In situ

Keynote *D. E. Harrison* (NOAA/PMEL, USA) and *M. Johnson* (NOAA/OGP): Towards a sustained global ocean observing system: Requirements, status and the tasks ahead

## Existing and new operational products

### Session 10 Global

Keynote *E. Johnson*, *J. Harding* and *J. Rigney* (NAVOCEANO, USA): The business of operational oceanography at the Naval Oceanography Office

### Session 11 Basin/regional

Keynote *N. Pinardi*, *G. Coppini* (CNR, Italy), *A. Pretner* (SGI, Italy), *E. Arneri* (ISMAR-IRPEM, Italy): The Mediterranean Forecast System in support of the sustainable development of shelf areas

Keynote *P. Bahurel* (GIP Mercator-ocean, France): Mercator: Global to regional ocean monitoring and forecasting

### Session 12 Coastal/local

Keynote *E. Buch* (Danish Meteorological Institute): The Baltic Operational Oceanographic System

## Thursday 13 May—Existing and new operational products

### Session 13 Coastal/local (continued)

Keynote *D. Lefaivre* and *F.-J. Saucier* (Department of Fisheries and Oceans, Canada): On-going applications in operational oceanography: St Lawrence Gulf and Estuary, Canada

## Marine pollution emergencies

### Session 14 Risk assessment and response management

Keynote IMO (tentative)

### Session 15 Lessons learned from past emergencies

Keynote *M. Girin* (CEDRE, France): Lessons learnt from past emergencies: The challenge of a permanent demand for more, faster, better

### Session 16 Detection and monitoring of emergency events

Keynote *O. Trieschmann* (BAFG, Germany): Capabilities of satellite images and aerial surveillance for oil spill detection; fusion of aircraft and satellite-borne remote sensing to improve the observation of oil spills over European seas

## Friday 14 May—Marine pollution emergencies

### Session 17 Physics and chemistry of marine pollution

Keynote *M. O. Molestad* and *P. S. Daling* (SINTEF Materials and Chemistry, Marine Environmental Technology, Norway): Crude oils and fuel oils – properties, behaviour and response at sea

### Session 18 Transport modeling

### Session 19 Transport modeling

Keynote *P. Daniel* (Météo France): Oil slick drift prediction and operational oceanography systems

### Session 20 Ice/pollution interactions

Keynote *V. Stanovoy*, *R. Guzenko* (AARI, Russian Federation) and *T. Jakobsson* (Icelandic Meteorological Office): Ice/pollution interactions: detection, modelling, prediction and monitoring

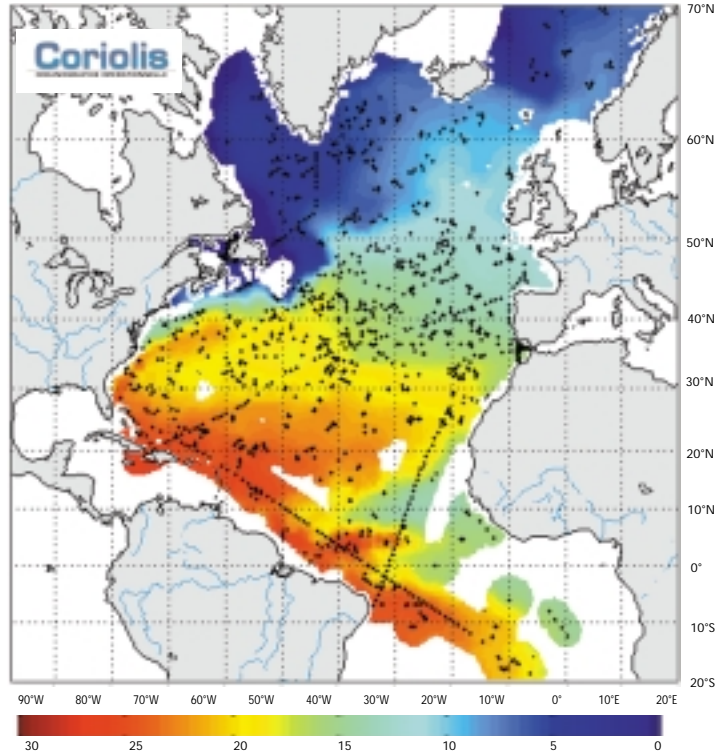
## Saturday 15 May—Wrap-up

### Session 21 Session rapporteur reports

### Session 22 General discussion and conclusions

## Participation

Participation is invited and anticipated from a wide range of both research and operational scientists and related professionals involved in the development, implementation and application of operational ocean models and associated products to support a range of marine user requirements. Participation is also strongly encouraged from current or potential users of such products. Requirements can range from global to regional to local. A particular focus of the second part of the workshop will be the development of marine transport and dispersion models, and their application in emergency response operations, in cases of accidental pollution or for search and rescue (SAR) operations (pollutant and object drift at sea), through the provision of meteorological and oceanographic services to support these operations. Representatives of all the National Meteorological Services with primary responsibilities under MPERSS are encouraged to attend, together with representatives of national and regional organizations responsible for marine pollution emergency response operations.



## Organization

The event is sponsored by WMO and IOC through JCOMM and GOOS, and is being organized jointly by JCOMM and Météo-France. It is being supported and co-sponsored by the Australian Bureau of Meteorology, CEDRE (France), EUMETSAT, the European Commission, the Office of Naval Research – Global (USA), NOAA – Office of Global Programmes (USA), Ifremer (France), CNRS-INSU (France) and CNES (France). Other co-sponsors are also expected. Apart from the opening ceremony, which will have simultaneous interpretation in English and French, the workshop will take place in English only.

## Venue

The workshop will be held in the Centre International de Conférence, Météo-France, Toulouse, France, located in the Meteopole, close to the city. Toulouse is the largest city in south-west France, situated between the Atlantic Ocean and the Mediterranean Sea. It is well known for its significant role in aeronautics and space, but is also a major centre for ocean science and meteorology. For more information, see:

[www.mairie-toulouse.fr](http://www.mairie-toulouse.fr)

[www.tourism-midi-pyrenees.com](http://www.tourism-midi-pyrenees.com)

Blocks of rooms will be reserved for participants in several hotels in the city centre, with special room rates. Price details, together with a hotel reservation form, are available on the workshop web site at:

[www.meteo.fr/marine/oceanops04](http://www.meteo.fr/marine/oceanops04)

## Structure

The scientific and technical workshop will begin on Monday morning 10 May 2004 and continue until around midday on Saturday 15 May 2004. Each of the four daily sessions will normally include one invited keynote paper of around 30 minutes duration, and up to five contributed papers, depending on submissions. At the beginning of the workshop, rapporteurs will be appointed for each session. They will be expected to prepare summaries of the main issues and conclusions of their sessions, for input to the wrap-up session and also to a series of specialized JCOMM expert team meetings, which will take place in the same venue during the following week (17 to 21 May 2004). These groups will themselves prepare recommendations and advice for the enhancement of MPERSS, the restructuring and development of the JEB, and the implementation of new, operational ocean products under JCOMM.

## Scientific Organizing Committee

Y. **Tourre** (MEDIAS-France; JCOMM) (Chairman), E. **Calonne** (IPIECA, UK), Ph. **Courtier** (Météo-France), H. **Dahlin** (EuroGoos), Ph. **Dandin** (Météo-France ; JCOMM), P. **Daniel** (Météo-France; JCOMM), P. **Dexter** (WMO/JCOMM), A. **Edwards** (European Commission), M. **Girin** (CEDRE), T. **Malone** (GOOS/COOP), J. **Miller** (ONRG/USA), N. **Papineau** (CNRS-INSU, France), P. **Parker** (BOM; JCOMM), N. **Pinardi** (CNR, Italy), A. **Ratier** (Eumetsat), N. **Smith** (Godae)

## Local Organizing Committee

Ph. **Dandin** (Météo-France; JCOMM) (coordinator), S. **Balland** (Météo-France), E. **Charpentier** (JCOMMOPS), P. **Daniel** (Météo-France; JCOMM), G. **Lachaud** (Météo-France), J. **Poitevin** (Météo-France), Y. **Tourre** (MEDIAS-France; JCOMM), I. **Varin** (Météo-France, CIC)

## Co-sponsors



## Contributions

Further contributed papers are invited for all sessions of the workshop. If a large number of contributed papers are offered and accepted, poster presentations may be arranged, but no parallel sessions are envisaged. All invited and contributed papers will be published after the workshop in a consolidated volume of proceedings as a JCOMM Technical Report. Abstracts for potential contributed papers, in English only and of no more than one page length, should be sent by e-mail to reach the address shown below no later than 30 March 2004.

All accepted contributors will be notified of acceptance by 9 April 2004.

Dr Yves Tourre  
Chairman of the Organizing Committee  
JEB Scientific Editor  
Email: [oceanops@meteo.fr](mailto:oceanops@meteo.fr)

## Registration

All participants must send a completed provisional registration form to [oceanops04@meteo.fr](mailto:oceanops04@meteo.fr). The form is available through the workshop web site: [www.meteo.fr/marine/oceanops04](http://www.meteo.fr/marine/oceanops04)

A detailed programme will be sent by 19 April 2004 to all those who have returned this form.

The registration fee is 200 €. However, if paid before 30 March 2004, it will be 160 €.

Payments have to be made in Euros (1€ ~ 1.25 \$). Different possibilities are offered:

1. **Payment in euros by purchase order from the participant's agency to Météo-France**  
Météo-France– Ocean Ops 04  
DGT/CDTo/CIC  
42, avenue Coriolis  
F-31057 Toulouse Cedex 1  
France
2. **Payment by cheque in euros to “Régisseur de Recettes DGT/LOG”, to be sent – accompanied by the confirmation email received after registration – to the address above:**
3. **Payment by bank transfer at:**  
IBAN (International Bank Account Number): FR76 1007 1310 0000 0010 0171 588  
Domiciliation: TPTOULOUSE TRESOR-GALE  
BIC (Bank Identifier Code): BDFEFRPPXXX

Very important:

- 1 – Mention on the bank transfer order your name and “Ocean Ops 04”
- 2 – Send a copy of the bank transfer order to “DGT/CDTo/CIC Sylviane Balland or Isabelle Varin” by fax + 33 5 61 07 80 59

4. **Payment in May at the workshop venue by cheque or cash**

Notes: 1. Payment will have to have been made in one or other of these four ways before admission to the workshop.  
2. Cheques should be drawn on a French bank, otherwise there may be cashing difficulties.

## Accommodation

Please complete and submit the accommodation booking form available at [www.meteo.fr/marine/oceanops04](http://www.meteo.fr/marine/oceanops04)

## Funding

Some limited funding may be available from the organizers to support participants representing MPERSS services and/or having papers accepted for the workshop, in particular from developing countries. Please notify any requirements when submitting abstracts.

## Social events

Various social events will take place with the workshop, information on which will be made available closer to the event.

## Further information

For further information, forms, etc., see the Toulouse Workshop page at: [www.meteo.fr/marine/oceanops04](http://www.meteo.fr/marine/oceanops04) or by email to [oceanops04@meteo.fr](mailto:oceanops04@meteo.fr) or through the JCOMM homepage at [www.jcommweb.net](http://www.jcommweb.net).