

Improving global and regional ocean analysis and forecasting systems

GODAE OceanView Symposium & Review 2013

NOAA Center for Weather & Climate Prediction (NCWCP) near Washington DC, 4-6 November

The **GODAE OceanView (GOV) Symposium** will provide an opportunity to review the key scientific achievements of GOV, to critically examine the outcomes, and to discuss the next steps towards the future of operational ocean analysis and forecasting and its international coordination.

Abstract submissions for the GOV Symposium are being evaluated and abstract acceptance information will be provided to submitters by mid September. 155 abstracts were received covering all symposium sessions (see

graphic). Plenary presentations and poster sessions will complement the event. The full programme will be made available after selection of abstracts.

The symposium is being designed to appeal to a **wide audience** including those developing or supporting the observing systems, ocean analysis and prediction systems, forecasters, service providers, the user community, decision and policy makers, researchers and programme managers from both the public and private sectors.



pers marking the current progress and future plans for operational oceanography. Publication is planned for 2014.

Registration for the event is now open and can be completed online at <https://www.regonline.com/godaeoceanviewsymposium>

The outcome from the symposium will include the publication of **multi-author community pa-**

Symposium sessions	No of abstracts
1 Overview and international context	1
2 Operational Oceanography Infrastructure	43
3 Key scientific and technological advances	98
4 A vision for the future of ocean forecasting	13
<i>Total no of abstracts</i>	155

For more information about the GOV Symposium 2013 visit: <https://www.godae-oceanview.org/outreach/meetings-workshops/symposia-summer-schools/Symposium-Review-2013/>

New Science Team members

The GODAE OceanView Science Team (GOVST) welcomes three new members who joined in the past few months:

John Wilkin (Rutgers University, New Jersey, USA) is already involved in the COSS-TT and joins as the representative for the Ocean Surface Topography Science Team (OSTST).

Guimei Liu (NMEFC, China) replaces Hui Wang as representative for the Chinese effort in operational ocean forecasting.

Gregory Smith (Environment Canada) has agreed to co-

chair the IV-TT together with Fabrice Hernandez (Mercator Ocean, France).

Three people have resigned from the team and we are very grateful for the commitment and effort they put into GODAE OceanView:

Hui Wang (as mentioned above) has joined the GOV Patrons' Group.

Rui Ponte (AER, USA) stepped down from representing the OSTST after 4 years of membership.

Alistair Sellar (Met Office, UK) resigned as co-chair of the IV-TT after moving to a new position.

National Groups

GODAE OceanView's "National Groups" introduced:

FOAM, presented by Matt Martin, Met Office, UK

FOAM stands for the "Forecasting Ocean Assimilation Model" and produces global, regional (North Atlantic, Indian Ocean and Mediterranean) and shelf-seas (North-West European Shelf) forecasts at 1/4°, 1/12° and ~6km resolutions respectively. The system is run operationally at the UK Met Office, and is developed jointly by the Met Office and other research groups in the UK through the National Centre for Ocean Forecasting (NCOF). The model used is NEMO (Nucleus for European Modelling of the Ocean) coupled to

the CICE sea-ice model, which is run on a daily basis producing analyses and 7-day forecasts of ocean and sea-ice variables. The shelf-seas model produces biogeochemical forecasts using the ERSEM model which is coupled to NEMO in that configuration.

The FOAM systems assimilate data using the NEMOVAR data assimilation scheme which is currently implemented in 3DVAR mode. Data types assimilated include: satellite altimeter sea level anomalies (SLA); satellite and →

OceanView News

Added: 08-Aug-2013

GOV Symposium 2013 - Abstract acceptance

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Added: 10-Jun-2013

GOV Symposium 2013 - Call for papers - CLOSED

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Added: 08-Jul-2013

Year of Polar Prediction

[Read More](#)

Added: 18-Dec-2012

GOV-GSOP-CLIVAR Workshop - postponed to 2014

[Read More](#)

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Event Dates

GODAE OceanView events in 2013/14:

November 2013: GODAE OceanView **Symposium**, 4-6 November 2013, Washington DC, USA

November 2013: GODAE OceanView **Review**, 7-8 November 2013, Washington DC, USA

January 2014: **Coastal & Shelf Seas Workshop** — International Coordination Workshop 3, 21-24 January 2014, Rincon, Puerto Rico

September 2014: **OSEval-TT & GSOP-CLIVAR Workshop** on Observing System Evaluation and Coupled Data Assimilation, **September 2014**, location TBC

October 2014: **Annual GOVST meeting**, **October 2014**, China

GODAE OceanView



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Recent Task Team workshops (2013)

Coastal and Shelf Sea Task Team: [COSS -TT workshop](#), CMCC, Lecce, Italy, Feb 2013

The COSS-TT continues to coordinate and advance science for sustainable multidisciplinary downscaling and forecasting activities in the world coastal oceans. The February workshop allowed a review of the status and progress of a large number of coastal forecasting systems. Information can be found in the [SIT "System information table"](#) on the GOV website.

Sessions focused on "Advances in integrated coastal observations; Advances in downscaling; and Coastal applications".

Due to represented forecasting systems being at different levels of maturity there is demand to share experience. One major step to working closer together is to agree and sign a "Memorandum of Understanding with all participating groups (in preparation).

The next workshop is being organised in Puerto Rico in January 2014 supported by the University of Puerto Rico at Mayaguez (Department of Marine Sciences), and CariCOOS (Caribbean Coastal Ocean

National groups continued

in-situ sea surface temperature (SST) data; satellite sea-ice concentration data; and in situ temperature and salinity profile data from Argo, XBTs, moored buoys, gliders and marine mammals.

A major area of development is the production of ocean fore

Observing System).

[Joint GOV-WGNE workshop on Short- to Medium-range coupled prediction for the atmosphere-wave-sea-ice-ocean](#), NCWCP, near Washington DC, USA, March 2013

The motivation for organising the WGNE-GOV workshop was to bring together members of the atmospheric, ocean, wave and sea-ice community with an interest in developing coupled forecasting systems targeting short- to medium-range prediction, to review the status of research and to debate the potential benefits, gaps and priorities for making advances.

There was very high interest in this event with more than 80 participants attending.

A set of white papers representing specific topics as they relate to coupled predictions are planned for publication:

- observations,
- physical parameterisations,
- dynamical modelling and
- data assimilation

The papers are being jointly written by the atmosphere and ocean communities and will be presented at the GOV symposium in November 2013.

casts using a coupled ocean/atmosphere/land/sea-ice model, with the same ocean and sea-ice configuration as global FOAM. Forecasts using this model, have been shown to be at least as accurate as forced-ocean forecasts, and will be disseminated operationally through the MyOcean project in 2014.

Work to develop a "weakly"

[IV-TT & GSOP-CLIVAR-GOV workshop: Reading, ECMWF, July 2013](#)

Results from a currently running reanalyses intercomparison exercise were presented. Operational and reanalyses centres (21 production centres) provide relevant information (gridded fields of basic primary variables) at regular intervals in agreed formats. Processing centres (8 groups) are responsible for the intercomparison and monitoring of particular metrics or variables, to process the ensemble of analyses and to create relevant indices or metrics or graphics which can be directly compared.

The workshop objective was to agree on completing the intercomparison work (publications, data repositories) and to prepare recommendations for further exploitation (e.g. monitoring) with regards to:

- Identification of robust climate signals;
- Estimation of climate variables with reduced uncertainty and
- Identification of shortcomings in methods and input data.

The outcome from the reanalyses intercomparison is envisaged to be made available to the community.

coupled data assimilation system which combines assimilation schemes for the atmosphere (4DVar), land surface, ocean and sea-ice (3DVar), aimed at reducing the impact of initialisation shocks in this coupled model, is underway.

<http://www.ncof.co.uk/FOAM-System-Description.html>

Did you know....

- that an independent GOV Review will follow the Symposium to seek to improve the effectiveness of GOV in the future and to improve engagement with stakeholders
- that GODAE OceanView was initiated (in 2009 following GODAE) in order to ensure the required long-term international collaboration and cooperation

