

IMOS Bulletin

Issue #50 January 2016

Welcome to the 50th IMOS Bulletin. With the Australian Government's recent announcement of another ten years of funding for National Collaborative Research Infrastructure Strategy (NCRIS), we're in the mood for anniversaries with a zero on the end!

The IMOS Bulletin was initiated in March 2010 after a discussion at the 4th Annual Planning Meeting in Fremantle, attended by about fifty people. It was developed in response to a call from the community for more regular updates about deployment and recovery of equipment, and availability of data.

Over the ensuing six years we've averaged about nine Bulletins per annum, and it is now sent to almost 470 recipients. Combined with our quarterly newsletter Marine Matters, Annual Highlights document, and regular news items on the website, the Bulletin has become an important piece of the IMOS communications strategy. A recent survey about IMOS communications indicated that our users see them as effective and appropriate.

I hope you enjoy the IMOS Bulletin #50 and many more Bulletins into the future.

Regards,

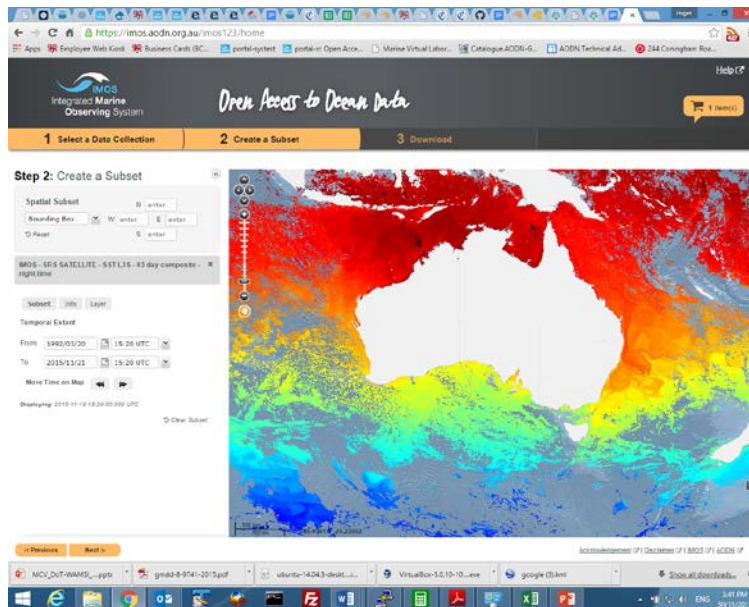
Tim Moltmann – IMOS Director

Please feel free to distribute this email bulletin to others. The Bulletin is also available for download from the website at <http://imos.org.au/bulletin.html>.

If you have any comments or questions regarding the IMOS Bulletin please contact IMOS Communications, communication@imos.org.au.

IMOS Data Reports

Accessing IMOS satellite imagery just got easier



Screen shot of IMOS Ocean Data Portal showing SRS Satellite imagery

The new "Accessing IMOS Satellite Data and Converting into CSV Format Report" provides a simple, easy-to-use process, using the open source tool Panoply, for visualising IMOS satellite imagery and extracting small subsets of data to .csv files.

Satellite datasets available include sea surface temperature, chlorophyll-a concentration and sea surface height and derived geostrophic currents.

The guide, available via the IMOS Data Tools page, includes:

- A list of available IMOS satellite data and summary of the main characteristics
- A 'How to' guide for downloading satellite data from the IMOS portal
- A 'How to' guide for using Panoply to export NetCDF data into a csv file

New products, including a number of ocean colour parameters and temporal averages, will be added to the portal as they become available.

The guide can be accessed at: <http://imos.org.au/imosdatatools.html>

The IMOS data holdings are detailed in a suite of reports generated by the eMII Office on a monthly basis. The summary reports for December 2015 can be downloaded directly via the IMOS website <http://imos.org.au/datareports.html>.

IMOS is a national collaborative research infrastructure, supported by Australian Government. It is led by University of Tasmania in partnership with the Australian marine & climate science community.

IMOS Activity Planning

Some of the deployment activities planned for February 2016 are:

- SEAIMOS will deploy a Slocum glider in Bass Strait to sample sub-surface physical and bio-optical properties. This replaces one Storm Bay deployment.
- SAIMOS and SEAIMOS will jointly deploy a Slocum glider on the Bonney Coast, South Australia, to investigate upwelling. This replaces one SA Gulfs deployment.
- The 3rd and final seaglider for the Great Australian Bight Research Project will be deployed
- The Indonesian Through Flow Shelf array will be turned around as part of a regular 6-monthly cycle.
- 18 Argo floats will be deployed between Australia and Indonesia from the RV Mirai, with the Japan Agency for Marine-Earth Science and Technology (JAMSTEC).

Future activity planning for the IMOS Facilities is provided via the IMOS website (<http://imos.org.au/imosactivityplanning.html>). The plans contain details for all the planned deployment/recovery/servicing/sampling etc. activities for the NCRIS 2015 funding period.

Paper of the month

Actually, this month we're not highlighting a paper, but the publication of the report 'Plankton 2015 – State of Australia's oceans'.

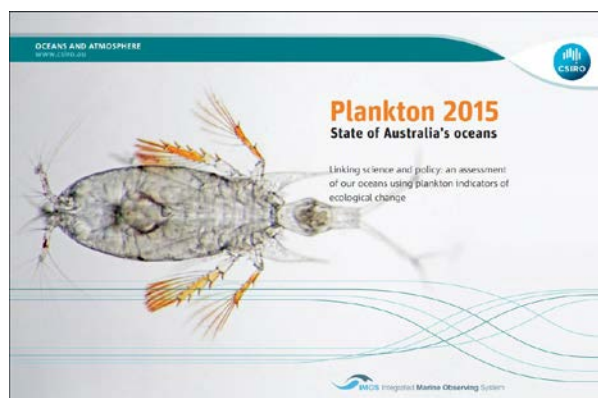
The Plankton 2015 report from CSIRO and based on IMOS data, looks at why plankton are important to the health of our oceans and Australia's future prosperity.

The lead author of the report is Dr Anthony Richardson, leader of the IMOS Continuous Plankton Recorder (AusCPR) sub-facility.

Through the AusCPR and the National Reference Stations (NRS) program, researchers are collecting and counting thousands of plankton samples, as a window into the health of our oceans.

The report compiles information from plankton studies and data sets from across Australia to provide a snapshot on the climate, state of global fisheries and marine ecosystem health and biodiversity.

To download the full report visit the IMOS data tools page: <http://imos.org.au/imosdatatools.html>



Cover of Plankton 2015 State of Australia's oceans

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Did you know?

This section features various ways in which you can discover, access and use IMOS data.

A new Shelf Seas Atlas for Australia

Salinity and Temperature data collected in the Australian continental shelf seas between 1995 and 2014, including IMOS observations from 2009 onward, have been assembled into a single data collection.

Profiles, trajectories and time series datasets within the 500m depth contour (>25 million data values) were assembled from data available from the Australian Ocean Data Network (AODN) partners IMOS, RAN, AIMS, DSTG, CDU, CSIRO, MNF and supplemented by data from the World Ocean Database (2013).

A data atlas was derived from the data collection with data grouped into 'bins' which are categories of data defined by spatial and temporal parameters. In this case bins are defined as 1/4-degree squares, 10m depth intervals from surface to 500m, and months. The WMS layers can be directly accessed as follows:

Salinity: <https://imos.aodn.org.au/imos123/home?uuid=0a21e0b9-8acb-4dc2-8c82-57c3ea94dd85>

Temperature: <https://imos.aodn.org.au/imos123/home?uuid=f9b50e93-df47-4317-8f1f-f3ed2fed7093>

Full details of the construction of the atlas can be found in the IMOS Ocean Portal User Guide: <http://help.aodn.org.au/help/?q=node/91>

Recent & Upcoming Events

- **19 –21 January, 2016** 9th International Conference on Marine Bioinvasions (ICMB), Sydney, Australia. <http://www.marinebioinvasions.info/>
- **9 –12 February 2016** Species on the Move International Conference, Hobart, Australia <http://www.speciesonthemove.com/>
- **21 –26 February 2016** 2016 Ocean Sciences Meeting, New Orleans, USA <http://osm.agu.org/2016/>
- **15-17 March, 2016** Oceanology International, London, England <http://www.oceanologyinternational.com/en/Whats-On/Conference/>
- **12 –15 April 2016** IX International Congress on the History of Oceanography, Adelaide, Australia http://www.flinders.edu.au/science_engineering/environment/activities/icho-2016.cfm
- **3 –6 May 2016** 4th International Symposium on the Ocean in a High-CO₂ World, Hobart Tasmania. <http://www.highco2-iv.org/>. Abstract submission now open.
- **31 July –5 August 2016** 13th Annual Meeting of the Asia Oceania Geosciences Society, Beijing, China <http://www.asiaoceania.org/aogs2016/public.asp?page=sessionProposal.htm> Abstract submission now open

For a full list of upcoming conferences please visit the Calendar page at <http://imos.org.au/calendar.html>. If you would like an event or conference featured on our website calendar please contact communication@imos.org.au.

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