

## IMOS Bulletin

### Issue #26 March 2013

Welcome to the 26<sup>th</sup> issue of the IMOS Bulletin - please feel free to share it with others. This Bulletin covers February news and data. It 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 the IMOS Communications Manager, Frances Hutchinson via email [Frances.Hutchinson@utas.edu.au](mailto:Frances.Hutchinson@utas.edu.au)

### IMOS *OceanCurrent*

This section highlights news from the IMOS *OceanCurrent* website in the past month <http://oceancurrent.imos.org.au/>

**27 March 2013: ANMN Shelf mooring array (ADCP) data:** Under IMOS, an unprecedented number of Acoustic Doppler Current Profiler moorings have been deployed in Australian continental shelf waters.

The data availability for each location is now shown on the *OceanCurrent* [time-series page](#).

The quantity shown on the data-coverage summary pages is the magnitude of the depth-average velocity. By clicking on those summary pages you can see page-per-deployment plots of the velocity and backscatter profile data, and time-series of the bottom temperature, tilt and depth.

To complement these time-series views of the data, arrows depicting the layer-averages of all these ADCP velocity data have now been added to many of the regional maps (for 2011-2012 so far).

There have been several highlights from the data to-date. In July 2012, the [Pilbara](#) ADCPs

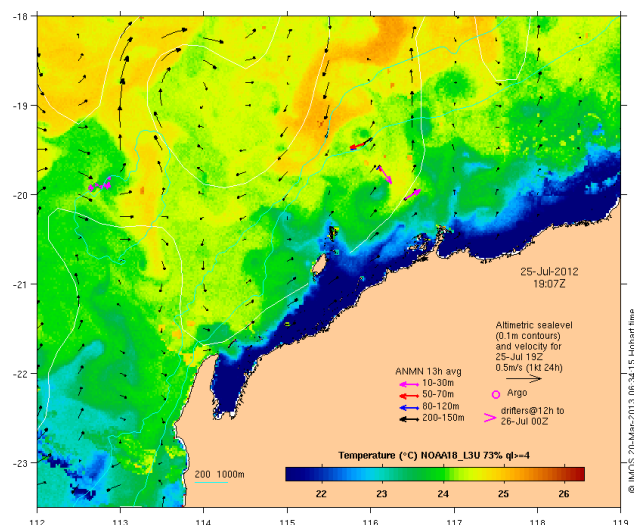


Image 1 Sub-mesoscale cyclonic eddies, 25 July 2012

recorded intriguing flows from their first six-month deployment. Cold air [off the land](#) had cooled the inner-shelf waters, causing plumes of dense water to flow seaward. Many sub-mesoscale cyclonic eddies can be seen in the animation on *OceanCurrent*, (e.g. on [25 July](#)), including one with a drifter caught in it. Flows of ~0.5m/s were measured by the ADCPs, providing valuable information to help us understand these small features which are attracting oceanographers' attention for a number of reasons.

## New Data Streams

This section lists any new data streams that are publicly available via the IMOS Ocean Portal <http://imos.aodn.org.au/webportal/> since the previous Bulletin.

### **Ships of opportunity:**

Expendable BathyThermographs - All data (except data collected by SCRIPPS) for 2011 and early 2012 have now been processed and are available through OPeNDAP and the portal.

Bio-Acoustic - Metadata records created to describe data collected during seven deployments of the Will Watch and one deployment of the Aurora Australis.

Continuous Plankton Recorder - IMOS metadata record updated to mirror the Catalogue of Australian Antarctic and Sub-Antarctic Metadata (CAASM) record. A link to the IMOS record has been added and points to the CAASM record as the 'source record' for metadata. Information in the portal pop-up windows now instructs users to contact Graham Hosie for help using these data. The styles of the Southern Ocean CPR layer have been updated to bring it closer, visually, to the other plankton layers.

### **National mooring network:**

New data made public for all NSW moorings, GBR Capricorn Channel, Kimberley, Perth Canyon 200m, and Two Rocks 100m and 200m. New and previously missing data from GBR has been made public. CTD profiles (text format) for Two Rocks 100m and Perth Canyon 200m have also been made available.

All the Passive Acoustics raw data has been downloaded to a disc at eMII. Perth Canyon 2009-10 and Portland 2010 datasets are on the new storage in Melbourne, and can now be viewed via the Acoustic Data viewer. The NSW Passive Acoustics site has been re-labeled from Sydney, NSW (PASVD) to Tuncurry, NSW (PATUN) as that town is much closer and sites nearer to Sydney may be used in the future. Metadata records and the portal layer have been updated.

**SRS Bio-Optical:** New campaign - Aurora Australis cruise AA9706 (March 1998) - available on the portal in the Southern Ocean, west of Tasmania.

**Animal tagging and monitoring:** The map layers for satellite tags have been updated to allow independent plotting of tracks for each species. The menu now has a separate layer for each marine mammal species.

Number of detections in the acoustic tagging database continues to rise, now exceeding 24 million – see <http://aatams.emii.org.au/aatams/>.

## Upcoming Events

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 Frances Hutchinson via email [frances.hutchinson@utas.edu.au](mailto:frances.hutchinson@utas.edu.au)

**13-17 May 2013** The 45<sup>th</sup> International Liege Colloquium: Primary production in the ocean: from the synoptic to the global scale, Liege, Belgium. For more information, <http://modb.oce.ulg.ac.be/colloquium/>

**10-13 June 2013** Oceans'13 MTS/IEEE Bergen Conference, Bergen Norway. For more information, [www.oceans13mtsieeebergen.org](http://www.oceans13mtsieeebergen.org)

**23-27 June 2013** IMBER Open Science Conference: Future Oceans, Bergen Norway. For more information, <http://www.imber.info/index.php/News/IMBER-future-events/IMBER-Open-Science-Conference-23-27-June-2014-Bergen-Norway>

**24-28 June 2013** Asia Oceania Geosciences Society (AOGS) Annual Meeting, Brisbane. For more information, <http://asiaoceania.org/aogs2013>

**24-28 June 2013** 7th International Conference on Coastal Dynamics, Arcachon Convention Centre France. For more information, [www.coastaldynamics2013.fr/index.php](http://www.coastaldynamics2013.fr/index.php)

**7-11 July 2013** AMSA 2013 Conference, Gold Coast. For more information, <http://www.cvent.com/events/amsa2013/event-summary-e61ab77a7ca84cc98647bf08eb6e8e50.aspx>

**8-9 July 2013** Second International Symposium on Boundary Current Dynamics, Lijiang, Yunnan, China. For more information, <http://coadc.ouc.edu.cn/isbcd/>

**11-13 September 2013** Coasts & Ports, Sydney. For more information, <http://www.coastsandports2013.com.au/>

**23-25 September 2013** International Conference on Marine Data and Information Systems (IMDIS 2013), Lucca Italy. For more information, <http://imdis2013.seadatanet.org/>

**8-11 October 2013** Greenhouse 2013: A Joint Australian-New Zealand Event, Adelaide. For more information, <http://www.greenhouse2013.com/>

**7-10 March 2014** International Glaciological Society Symposium: Sea Ice in a Changing Environment, Hobart. For more information, <http://www.soos.aq/index.php/calendar?view=event&cid=57>