

IMOS Bulletin

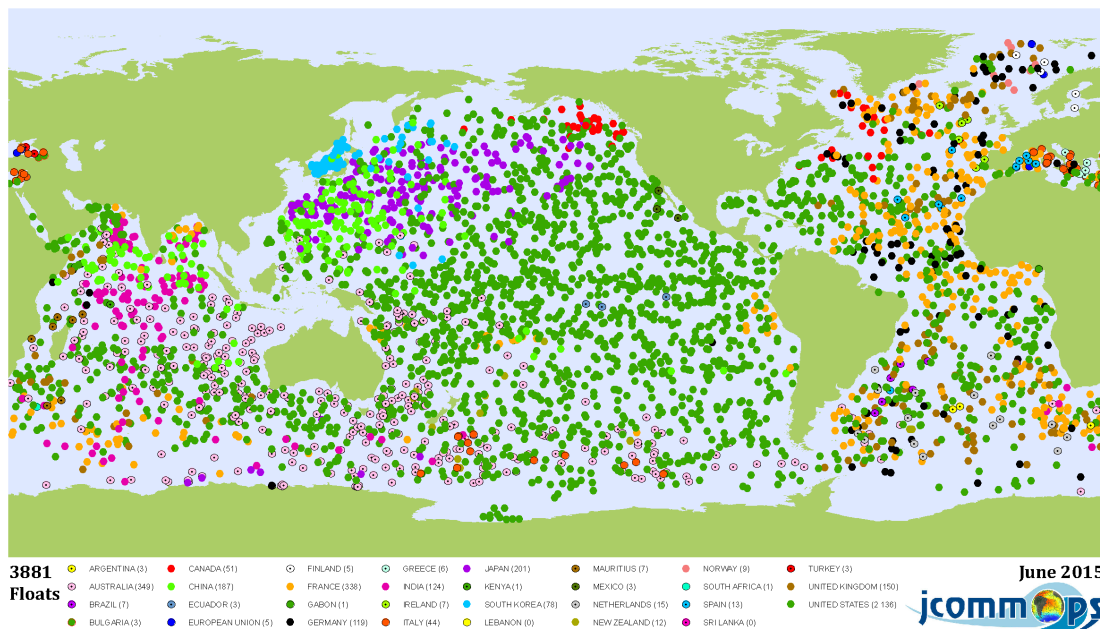
Issue #47 September 2015

Welcome to the IMOS Bulletin. 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

Argo Australia deployed 49 floats in 2014/15, largely in the Indian Ocean from the RV *Kaharoa* on a joint US/Australia/New Zealand charter voyage, but also by the WHOI vessel RV *Alucia*, HMAS *Success*, the new RV *Investigator* and icebreaker *Aurora Australis*. This brings the total number of active floats deployed by Argo Australia to 340, a significant contribution to the 3,881 floats that make up the global array. Argo floats measure temperature and salinity from 2,000 m depth to the surface every 10 days. Data is supplied within 24 hours via the real-time data stream and highly quality-controlled data is available after 6 months as part of the delayed mode data stream. Your access to Australian Argo data discovery and exploration is through the [IMOS Ocean Portal](http://imos.org.au/argodata.html). To find out more about Argo data visit <http://imos.org.au/argodata.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.

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

IMOS Activity Planning

The IMOS Animal Tracking facility will be deploying 15 CTD-SRDLs (Conductivity Temperature Depth - Satellite Relay data loggers) on elephant seals at the Iles Kerguelen in the Antarctic from next month.

Future activity planning for the IMOS Facilities is now 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 2013 funding period.

Paper of the month

This month we'd like to highlight the following paper that references IMOS data:

Landschützer P, Gruber N, Haumann FA, Rödenbeck C, Bakker DCE, van Heuven S, Hoppema M, Metzl N, Sweeney C, Takahashi T, Tilbrook B, Wanninkhof R. (2015) The reinvigoration of the Southern Ocean carbon sink. *Science*, 349 (6253) 1221-1224. [DOI:10.1126/science.aab2620]

A decade ago scientists feared that the ability of the Southern Ocean to absorb additional atmospheric carbon dioxide would soon be stalled. But the analysis of more recent observations using IMOS and other data show that this carbon sink reinvigorated during the past decade.

The paper is available on the Science website <http://www.sciencemag.org/content/349/6253/1221.full>.

Did you know?

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

The [Australian National Data Service](#) (ANDS) has just released a new controlled vocabulary service. A [controlled vocabulary](#) is a set of agreed terms used to label data concepts, meaning the descriptions used in research are consistent across the research community. This supports the discovery, linking, understanding and reuse of research data. eMII have compiled a set of Australian Ocean Data Network (AODN) related vocabularies, which they use to mark up IMOS metadata. The IMOS Ocean Portal uses controlled vocabularies in the faceted search of the data collection in the 1-2-3 portal, for example in the parameter and platform menus.

[Research Vocabularies Australia](#) (RVA), comprises tools and support for creating, managing, storing, publishing and discovering vocabularies for research. The service aims to describe vocabularies commonly used by or relevant to Australian researchers.

Research Vocabularies Australia is now available at <https://vocabs.ands.org.au/>.

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.

Recent & Upcoming Events

5-9 October 2015 11th meeting of the International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO), Santiago, Chile. <http://www.icsmho-2015.com/>

11-14 October Australian Society for Fish Biology (ASFB) Conference, Sydney, Australia
<http://www.asfb.org.au/events/>

19-23 October Collaboration for Australian Weather and Climate Research (CAWCR) 9th Annual Workshop, Melbourne, Australia. <http://cawcr.gov.au/events/AWS9/>

19-23 October eResearch Australasia, Brisbane, Australia <http://conference.eresearch.edu.au/>

27-30 October Greenhouse 2015, Hobart, Tasmania. <http://greenhouse2015.com/home>

30 November – 4 December Goa IO Symposium 'Dynamics of the Indian Ocean: Perspective and Retrospective' <http://www.io50.incois.gov.in>

14-18 December 2015 American Geophysical Union (AGU) Fall Meeting, San Francisco, USA
<http://fallmeeting.agu.org/2015/>

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/>

February 21-26 2016 2016 Ocean Sciences Meeting, New Orleans, USA
<http://osm.agu.org/2016/>

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.

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.

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.