



IMOS Bulletin

Issue #62 February 2017

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.

From the IMOS Office

Below is a brief roundup of activity and engagement done through the IMOS Office over the last month.

- Hosted a visit from Dr Vladimir Ryabinin, Executive Secretary of the Intergovernmental Oceanographic Commission (IOC) of UNESCO in Hobart on 31 January.
- Ana Lara-Lopez attend an Alliance for Coastal Technologies workshop on 'Sensors for monitoring of harmful algae, cyanobacteria and their toxins' at Moss Landing, California on 30 January to 1 February. Her workshop report is available on request.
- IMOS Director attended the Implementation of Multi-disciplinary Sustained Ocean Observations (IMS00) workshop in Miami, Florida on 8-10 February. Seven of the 49 attendees were from Australia - Moltmann (IMOS), Gunn and Miloslavich (AIMS), Bax, Sloyan, Thompson (CSIRO), Richardson (UQ/CSIRO). Two of the three sessions were of significant interest from an IMOS perspective, on Plankton Community Changes and Boundary Current/Shelf Sea Interaction.
- IMOS Director attended a GOOS Steering Committee Executive meeting in Miami on 11 February. Main agenda item was the GOOS Strategy which we expect to launch later this year.
- The 11th IMOS Annual Planning Meeting was held at UWA in Perth on 14-16 February, followed by a Board meeting on 16-17 February. It was an excellent week, and we feel well-prepared to launch into forward planning as soon as we have clarity from the Department of Education and Training about NCRIS funding. This is expected within the next month or so.
- As Chair of the National Marine Science Committee, Tim Moltmann has taken up an ex officio position on the Marine National Facility Steering Committee - latest meeting held 22 February. Thanks to John Gunn for covering this base during 2016.

IMOS Data Reports

New Quality Controlled data available from the Ocean radar facility

The Ocean Radar facility has made available, through the AODN data portal, a set of quality controlled current vectors for the following radar sites and time periods:

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.

Capricorn Bunker Group (CGB), Coffs Harbour (COF), South Australia Gulfs (SAG), Rottneest Shelf (ROT): from 2014 (January 2014) up to 2016 (September 2016).

Data formats have also been updated following AODN recommendations.

The IMOS data holdings are detailed in a suite of reports generated by the AODN on a monthly basis. The summary reports for February 2017 can be downloaded directly via the IMOS website <http://imos.org.au/datareports.html>.

IMOS Activity Planning

Deployment and maintenance activities next month include:

- Recovery and deployment of the deep water moorings (Southern Ocean Flux Station, Pulse and Sub-Antarctic Zone sediment trap mooring) in the Southern Ocean from the RV *Investigator*.
- Slocum gliders will be deployed in Storm Bay Tasmania, Perth WA, and Yamba NSW. Seagliders will be deployed near Lizard Island on the Great Barrier Reef and Perth WA.
- The Animal Tracking facility is continuing to deploy CTDs on Elephant and Weddell seals in the Southern and Southern Indian Oceans.

Future activity planning for the IMOS Facilities is provided via the IMOS website (<http://imos.org.au/imosactivityplanning.html>). The activity plans contain details for all the planned deployment/recovery/servicing/sampling etc. activities for the 2016-17 period.

Did you know?

This section features news from the marine science community and highlights various ways in which you can discover, access and use IMOS data.

IMOS community gathers in WA for annual meeting

As mentioned above the 11th IMOS Annual Planning Meeting was held at UWA in Perth on 14-16 February. Chaired by IMOS Director, Tim Moltmann, this year's meeting was organised around three themes; Signal to noise – extracting value from datasets and time series, Operational oceanography and Marine extremes. The final day focused on IMOS performance – assessment and improvement. *Presentations given at the meeting can be accessed via the website at this link [agenda of the 11th IMOS Annual Planning Meeting](#).*

Quality Assurance and Quality Control by Variable Document

A new Quality Assurance and Quality Control by Variable Document is now available for download on the IMOS website [here](#).

New IOC brochure

'One Planet One Ocean', the new [Intergovernmental Oceanographic Commission](#) (IOC) brochure, mentions IMOS and GOOS, specifically regarding Ocean acidification and Argo. To read the new brochure visit the IOC website: <http://www.unesco.org/new/en/natural-sciences/ioc-oceans/>

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.

Paper of the month

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

McMahon, C. R., Harcourt, R. G., Burton, H. R., Daniel, O. and Hindell, M. A. (2017), Seal mothers expend more on offspring under favourable conditions and less when resources are limited. *J Anim Ecol*, **86**: 359–370. doi:10.1111/1365-2656.12611

In this paper, the researchers look at how females adjust their expenditure with respect to prevailing environmental conditions and show that seal mothers give more to their pup when conditions are favourable and less when they are poor. Importantly, we also show that when conditions are good that small and medium sized mothers gain more than large mothers, this is because there is a non-linear relationship between pup size at weaning and survival, in other words there is a cost to being too big.

The paper is available online through [Wiley Online Library](#).



Image: Aaron Stanley, BOM.

Upcoming Events

- **16-18 May 2017** Greater impact through environmental infrastructure symposium, Canberra, Australia. <http://www.tern.org.au/Upcoming-Events-pg17737.html>
- **31 May – 2 June 2017** Blue Planet Symposium: Oceans and Society, Maryland USA. <http://symposium.geoblueplanet.com>.
- **17th June 2017** IMOS Animal Tracking Workshop, Cairns, Australia. For more information: fabrice.jaine@sims.org.au.
- **19-23 June 2017** 4th International Conference on Fish Telemetry, Cairns, Australia. <http://www.4thicft.org>
- **2 – 6 July 2017** AMSA Australian Marine Science Conference 2017, Darwin, Australia. <http://events.amsaconference.net/home.html>
- **16-18 July 2017** Australian Coral Reef Society Conference, Townsville, Queensland. <http://www.australiancoralreefsociety.org/conference>
- **25 – 27 July 2017** The Australian Forum for Operational Oceanography (FOO), Fremantle, Australia. <http://www.foo.org.au/forum/>

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.

- **27 August- 1 September 2017** Joint IAPSO-IAMAS-IAGA Assembly in Cape Town, South Africa. <http://www.iapso-iamas-iaga2017.com/index.php>
- **5 – 7 September 2017** Eighth GOOS Regional Forum Meeting, Singapore. http://goosocean.org/index.php?option=com_oe&task=viewEventRecord&eventID=1973
- **2-13 October 2017** GODAE OceanView International School, New Frontiers in Operational Oceanography, Mallorca, Spain. <https://www.godae-oceanview.org/outreach/education-training/gov-summer-school-2017/>
- **3-5 October 2017** EuroGOOS International Conference: Operational Oceanography serving sustainable marine development, Bergen, Norway. <http://eurogoos.eu/events/eurogoos-international-conference/>
- **5-6 October 2017** Our Ocean, Malta. <http://ourocean2017.org/>

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.