

## IMOS Bulletin

### Issue #76 May 2018

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/news/news-publications/bulletin/>.

If you have any comments or questions regarding the IMOS Bulletin please contact IMOS Communications, [communication@imos.org.au](mailto:communication@imos.org.au).

### From the IMOS Office and AODN

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

- Attendance to Global Ocean Science Report –II Editorial Board meeting on 24-26 April.
- Node Steering Committee meeting held on 3 May, to progress important discussions commenced at the 2018 IMOS Annual Planning Meeting. Main topics were moving to a national science advisory process, planning for use and impact, and new technology evaluation.
- Presented at ‘Overview of the Marine Research Data Cloud and data services used by the AODN Portal’, [ANDS Data Services Interest Group](#) 3 May.
- Some of the Office attended the Centre for Marine Socio-Ecology Showcase in Hobart on 4 May, which featured presentations and discussions on marine science and policy with stakeholders from industry, government and academia.
- Attended the CSIRO ‘Environomics’ Future Science Platform meeting in Hobart on 7-8 May
- As reported separately, the 8 May Federal Budget included significant new funding for IMOS. Our activities have been dominated by this announcement over the last few weeks. Read the full news item [here](#).
- Attendance at the 3-day (8-11 May) 6th annual meeting of the SOOS Data Management Sub-Committee in Hangzhou, China. This ran in parallel with the Scientific Steering Committee (SSC) meeting.
- IMOS Director attended the 9<sup>th</sup> meeting of Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM) Observations Coordination Group (OCG) in Brest, France on 14-17 May. Details on COG-9 can be found [here](#). Attendance at the meeting was part of a review being undertaken of the JCOMM in-situ Observations Programme Support Centre (JCOMMOPS).
- The IMOS Office planning day was held on 29 May. Yes, we do have a plan!
- Presentation at the Earth and Environment Science Information Partners (E2SIP) and Collaborative Conference on Computational and Data Intensive Science, 2018 (C3DIS 2018) Workshop, 28-31 May.
- IMOS Director in Perth on 30-31 May, including meeting with the WAIMOS Node reference group.

## The latest news from the Australian Ocean Data Network (AODN)

### Assessing IMOS Biological Data Accessibility

Australia is currently transitioning to a single “Research Data Cloud (RDC)” which will integrate the strengths of all the existing Australian data services ([ANDS, Nectar and RDS](#)). As part of this transition, the Integrated Marine Observing System’s Australian Ocean Data Network (AODN) aims to review the delivery of biological data through the AODN Portal in order to make it as useful and accessible as possible.

To aid in this, the AODN have developed a short survey (15 questions) to provide insights into how biological data is accessed, downloaded and analysed using the AODN Portal. This survey is aimed at users who have previously accessed biological data on the AODN Portal (formerly the “IMOS Ocean Portal”) and will take less than 10 minutes to complete.

This survey is important because it will provide guidance to the AODN on how it should provide and resource biological data delivery moving forward into the Australian Research Data Cloud, and will IMOS in broader engagement with those accessing such data. Please take the time to click the link and complete the survey.

<https://www.surveymonkey.com/r/5CBZG28>

Separately to this online survey, we will be contacting some users to discuss some of the specifics of their experiences with biological data on the AODN portal. We would greatly appreciate hearing from anyone within the Australian marine science community who is willing to share their experiences, ideas and vision for biological data on the AODN portal. If you can help in this, please contact Jason Everett ([Jason.Everett@unsw.edu.au](mailto:Jason.Everett@unsw.edu.au)) who is collating the responses or leave your details at the end of the survey.

The IMOS data holdings are detailed in a suite of reports generated by the AODN on a monthly basis. The summary reports for April 2018 can be downloaded directly via the IMOS website <http://imos.org.au/data/data/datareports/>.

## 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.

### Ocean Data View

Ocean Data View (ODV) is a program designed for the interactive graphical display of oceanographic data. The software is freely available for Windows, Mac OS X, Linux, and UNIX systems. To download ODV you must register for free on the website <http://odv.awi.de> (go to the 'Software' tab). Different types of graphs can be produced including: time series, profiles and maps of water temperature, salinity, current velocity and chlorophyll-a concentration. ODV also enables you to estimate derived variables such as potential density, dynamic height and the Brunt-Vaisala frequency.

#### [Download the Ocean Data View Manual v1.0.](#)

The Manual was prepared by the Coastal and Regional Oceanography Lab at UNSW.

## Paper of the month

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

Wolff NH, da Silva ET, Devlin M, Anthony KRN, Lewis S, Tonin H, Brinkman R, Mumby PJ. 2018 Contribution of individual rivers to Great Barrier Reef nitrogen exposure with implications for management prioritization. *Marine Pollution Bulletin*, **133**; 30–43.

Dissolved inorganic nitrogen runoff from Great Barrier Reef (GBR) catchments is a threat to coral reef health. Several initiatives address this threat, including the Australian Government's Reef 2050 Plan. However, environmental decision makers face an unsolved prioritization challenge: determining the exposure of reefs to dissolved inorganic nitrogen from individual rivers.

This paper used virtual river tracers embedded within a GBR-wide hydrodynamic model to resolve the spatial and temporal dynamics of 16 individual river plumes during three wet seasons (2011–2013). The model is part of the eReefs project ([www.eereefs.org.au](http://www.eereefs.org.au)), which uses IMOS observations.

The ability to associate individual reefs with their exposure to nitrogen sourced from specific catchments, is a major step in the right direction for more informed management decision making.

To read the full paper: <https://doi.org/10.1016/j.marpolbul.2018.04.069>

## Upcoming Events

- **1-5 July 2018** Australian Marine Sciences Association (AMSA) Conference, Canyons to Coast, Adelaide, SA. <http://amsa18.amsa.asn.au/>
- **6 July 2018** How to access and use IMOS data for your research. Workshop as part of AMSA conference at the University of Adelaide, SA. **Cost:** AMSA delegate: \$20, student: free. <http://amsa18.amsa.asn.au/workshops/>
- **4-6 July 2018** 4<sup>th</sup> Geo Blue Planet Symposium, Toulouse, France. <https://symposium.geoblueplanet.org>
- **20-24 August 2018** Ocean Hack Week, University of Washington, USA. <https://oceanhackweek.github.io/>
- **9-11 October 2018** Australian Coastal and Oceans Modelling and Observations Workshop (ACOMO) 2018 Workshop, Canberra, ACT. Contact Ana Lara-Lopez for more information [Ana.Lara@utas.edu.au](mailto:Ana.Lara@utas.edu.au)
- **22-25 October 2018** Oceans Conference Charleston, South Carolina, USA. <http://charleston18.oceansconference.org>
- **10-14 December 2018** Forum on Fisheries Science. Rome, Italy. <http://www.fao.org/gfcm/fishforum2018/en/>.
- **14-17 August 2018** Antarctic and Southern Ocean Forum on Engineering Science and Technology (ASOF-FEST), Hobart, Tasmania. <https://asof2018.ieee.org/>. The forum aims to bring together scientists and engineers working to face the challenges in conducting ocean science in the Antarctic and Southern Ocean.
- **15-19 April 2019** 1<sup>st</sup> International Buoy Workshop- Marine Technology Society, Hobart Tasmania. The workshop will bring together engineers and operators working on a variety of sustained observing applications. In particular this workshop will focus on the design and development of oceanographic moorings.
- **10-13 September 2019** Australasian Coasts & Ports 2019, Hobart, Tasmania. <https://coastsandports2019.com.au/>. Abstract submissions will open on **10 September 2018**.
- **16-20 September 2019** OceanObs'19, Honolulu, Hawaii, USA. <http://www.oceanobs19.net>. The Community White Papers will then be due by **30 September 2018**.

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