

IMOS Bulletin

Issue #55 June 2016

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

New Ships of Opportunity data is available via the AODN Portal <https://portal.aodn.org.au/>:

- Processed and raw Bio-acoustic data from three transects of the fishing vessel *Janas* have been recently published on the AODN Portal,
- Underway CO₂ observations from five RSV *Aurora Australis* voyages have also been published.

The IMOS data holdings are detailed in a suite of reports generated by the AODN on a monthly basis. The summary reports for May 2016 can be downloaded directly via the IMOS website <http://imos.org.au/datareports.html>.

IMOS Activity Planning

Deployment and maintenance activities soon:

The Queensland and Northern Australian Moorings Sub-Facility is preparing to service the Indonesian Throughflow, Darwin National Reference Station and Beagle Gulf moorings and real-time buoys in August.

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. Activity Plans for the NCRIS 2016 funding period will be uploaded to this web page soon.

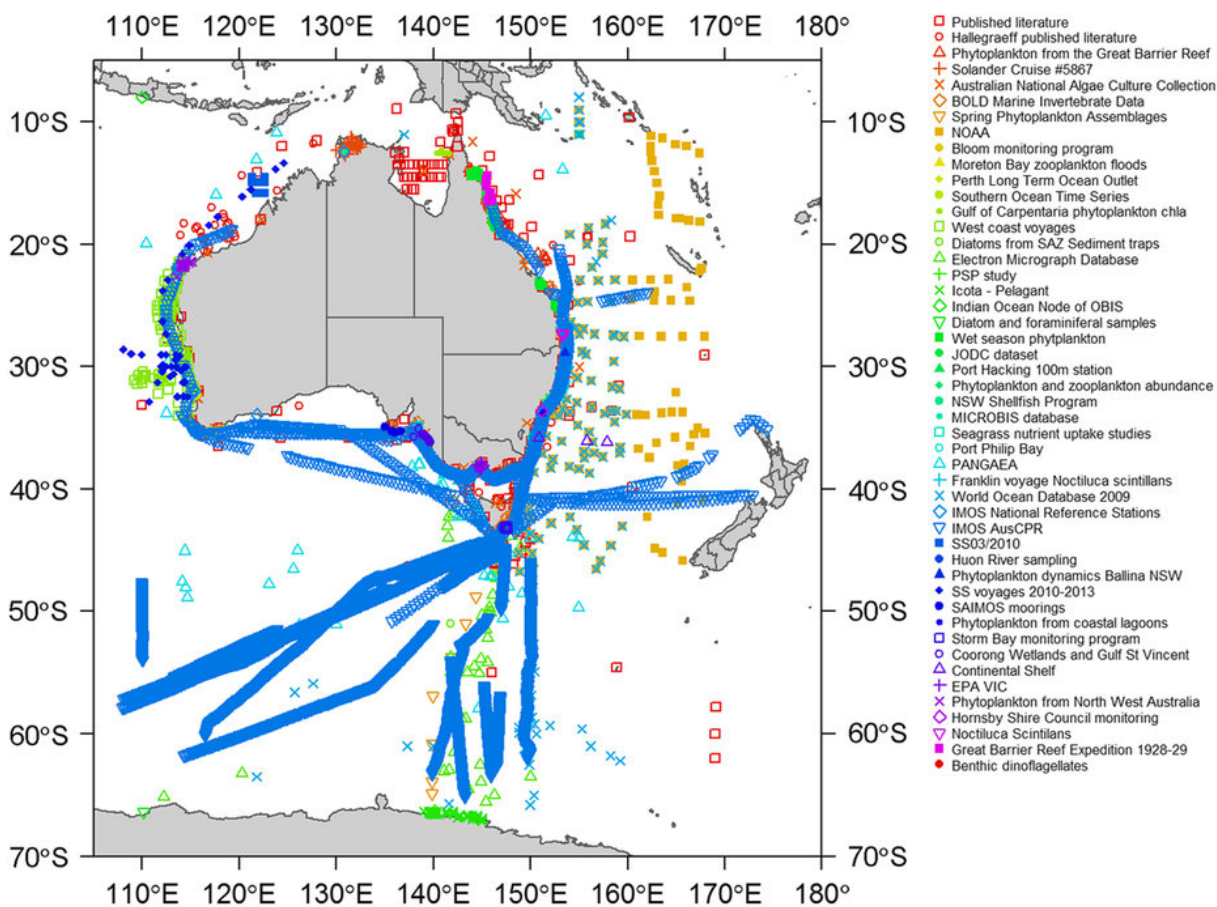
Paper of the month

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

Davies, C. H. *et al.* **A database of marine phytoplankton abundance, biomass and species composition in Australian waters.** *Sci. Data* 3:160043 doi: 10.1038/sdata.2016.43 (2016).

In an unparalleled collaboration, phytoplankton experts from around Australia have come together to establish the Australian Phytoplankton Database to further understand our ocean's invisible forest, with details published last week in the Nature journal *Scientific Data*.

The database currently includes 3.5 million records of marine phytoplankton from Australia, including IMOS data from our moorings and the Continuous Plankton Recorder surveys and is publicly available through the Australian Ocean Data Network (AODN) Portal <https://portal.aodn.org.au/>.



Locations of data for each project in the Australian Phytoplankton Database. Figure credit: From *A database of marine phytoplankton abundance, biomass and species composition in Australian waters*.

The paper is available to download at: <http://www.nature.com/articles/sdata201643>

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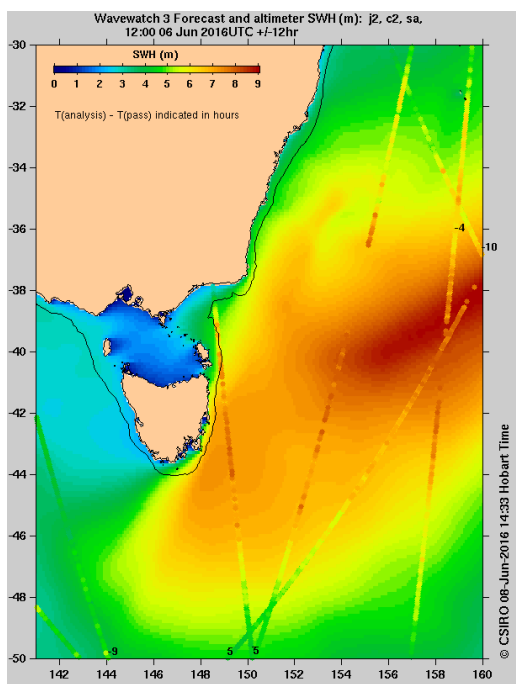
Did you know?

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

Did you know that the satellite altimeters that we use in IMOS *OceanCurrent* for estimating ocean currents also measure the height of the waves?

The East Coast Low that brought flooding to parts of Qld, NSW and Tasmania in early June has also [generated huge swell](#). The downside to these magnificent waves is highlighted by the [Bureau of Meteorology](#) putting the coastal regions on high alert. The potential for coastal property damage is increased when the large waves and storm surge occur during king tides. At 8m, the altimeter estimate of significant wave height falls a little short of the predicted 9m but, as the [Swellnet team report](#), the atmospheric build up for this storm set it apart.

Significant wave height measured by altimeters (Jason-2, Cryosat-2 and AltiKa) is plotted over the wavewatch3 forecast heights in the Tasman Sea on 6 June (below). The wave field changes quite quickly so we don't expect a perfect match as the altimeter passes included in this plot are up to 9 hours after and 7 hours before the forecast. The satellite wave measurements complement in-situ wave measurements (e.g., the NSW Manly Hydraulics Lab waverider buoys), by resolving the spatial variability of the wave field over a larger domain. Together, they are used to assess and ultimately improve wave forecast models.



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Where are they now?

Over the past ten years many students have passed through IMOS operating institutions and have gained their qualifications through research based on IMOS data. We'd love to find out what has become of them and what impact they are now having as more experienced researchers out there in the world.

Please [send us](#) a brief note about students whose current situations you're aware of and we'll publish a selection of stories in the special ten-year anniversary edition of IMOS highlights. We're happy to contact ex-students directly if you pass their details on to us.

Call for single year Primary Applications for Marine National Facility Granted Voyages in 2018-19

MNF Granted Voyages provide successful applicants with grants of sea time on *Investigator* at no daily costs (i.e. ship or victualling charges).

[>> Single year Primary Applications are now invited for MNF Granted Voyages on *Investigator* during 2018-19.](#)

Primary applications for the financial year 2018-19

Australian marine researchers are invited to submit an application for use of *Investigator* during the period July 2018 to June 2019. The MNF Steering Committee encourages new applicants and applications with national and international collaborative projects. The MNF Steering Committee has not specified an Area of Operations in 2018-19. Applications will be accepted for work in all Australian regional seas and oceans, from the tropics to the Antarctic ice edge.

Key dates

Primary Applications OPENED **Mon, 20 June 2016**

Compulsory Pre-proposals CLOSE **Thurs, 7 July 2016**

Primary Applications CLOSE **Fri, 2 September 2016**

** Please note that Primary Applications cannot be accepted if a Pre-proposal has not been submitted.*

Position Vacant:

Data Officer for the IMOS Ocean Glider facility. For more information:

<http://external.jobs.uwa.edu.au/cw/en/job/496645/data-officer-anfog-ref-496645> **Closing date: Friday 8 July 2016**

Recent & Upcoming Events

- **4–7 July 2016** New Zealand Marine Science Society and Australian Marine Sciences Association: Sharing Ocean Resources – Now and in the future, Wellington, New Zealand
<https://innovators.eventsair.com/QuickEventWebsitePortal/nzmss-amsa-2016/home>
- **5–7 July 2016** Climate Adaptation 2016: Change, Challenge, Opportunity, Adelaide, South Australia
<http://climate-adaptation.org.au/>
- **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>

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- **4–7 September 2016** ECSA 56 Coastal systems in transition: From a 'natural' to an 'anthropogenically-modified' state, Bremen, Germany
<http://www.estuarinecoastalconference.com/>
- **4–7 September 2016** Australian Society for Fish Biology (ASFB) and Oceania Chondrichthyan Society (OCS) 2016 Joint Conference, Hobart, Australia
<http://asfbconference2016.org/>
- **8 September** Argos User's Workshop, IMAS, Hobart Tasmania. Workshop registration is free. The organizers encourage you to present your research to your peers, so please submit an abstract. For more information, please contact holly@clsargos.com.au
- **18–25 September 2016** CLIVAR Open Science Conference 'Charting the course for climate and ocean research', Qingdao, China
<http://www.clivar2016.org/>
- **11-12 October 2016** Australian Coastal and Oceans Modelling and Observations Workshop (ACOMO) 2016, Shine Dome, Canberra. <http://imos.org.au/acomo2016.html>
- **11–13 October 2016** International Conference on Marine Data and Information Systems (IMDIS) 2016, Gdansk, Poland
<http://imdis2016.seadatanet.org/>
- **14–16 November 2016** International Conference on the Marine Environment of the Red Sea (ICMERS 2016), Thuwal, Saudi Arabia
<https://icmers2016.kaust.edu.sa/home>

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.