

IMOS Bulletin

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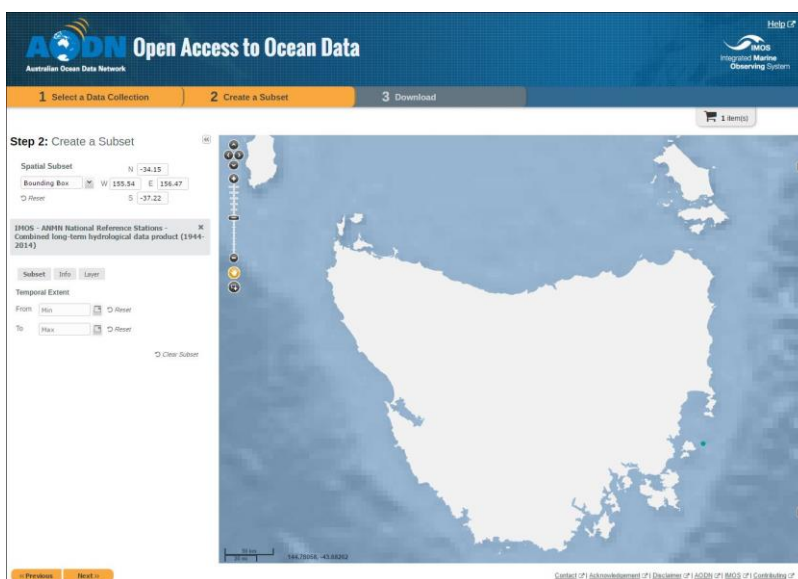
Welcome to the IMOS Bulletin. Please feel free to distribute this email bulletin to others. The Bulletin is also available for download from the website at <http://imos.org.au/bulletin.html>.

If you have any comments or questions regarding the IMOS Bulletin please contact IMOS Communications, communication@imos.org.au.

IMOS Data Reports

Long-term Maria Island Temperature and Salinity data product (1944-2014) now available through the AODN Portal

The National Reference Station (NRS) network provides baseline information required to understand how large-scale, long-term change and variability in the global ocean are affecting the ecosystems of Australia's coastal seas. The Maria Island NRS, located off the east coast of Maria Island in Tasmania, has provided the longest high quality ocean time series in the Southern Hemisphere, operating since 1944.



Screenshot of AODN Portal showing Maria Island NRS, the source of a new historical data collection

This month the AODN portal has made available a product that includes temperature and salinity measurements from the original water sampling program carried out by CSIRO since the 1940s, and the water sampling and CTD casts carried out by IMOS since 2009. Sampling under CSIRO was undertaken at intervals of one to several weeks, and under IMOS, sampling is approximately monthly. Temperature measurements were taken from reversing thermometers by CSIRO, and from profiling CTDs by IMOS. Ken Ridgeway (CSIRO) has combined the data into a single continuous time series, for measurements at the surface and depths up to 50m.

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Currently this product is only available for the Maria Island NRS but it is anticipated that historical data collections will be made available for other stations, including Port Hacking in NSW and Rottneest Island in WA.

The new data collection, IMOS - ANMN NATIONAL REFERENCE STATIONS - COMBINED LONG-TERM HYDROLOGICAL DATA PRODUCT (1944-2014), can be accessed freely via the [AODN Portal](#).

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

IMOS Activity Planning

Deployment and maintenance activities this month include:

- Port Hacking NRS mooring turnaround
- Kangaroo Island NRS and Spencer Gulf moorings turnaround, and BGC sampling
- Rottneest NRS turnaround
- Kangaroo Island Acidification mooring turnaround
- Satellite altimetry calibration/validation: Storm Bay mooring will be removed, Bass Strait Historical Comparison Point and the Sentinel 3A moorings will be turned around.

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:

For those with a subscription to *Marine Technology Society Journal*, check out the latest edition to see the IMOS article by Ana Lara-Lopez, Tim Moltmann & Roger Proctor, 'Australia's Integrated Marine Observing System (IMOS): Data Impacts and Lessons Learned'

Paper available for subscribers to MTS Journal here: https://www.mtsociety.org/MTS_Journal_public/

If you don't have access to a subscription, contact <mailto:Ana.Lara@utas.edu.au> for more information.

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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.

Ocean Glider tells quite a tale after 74 days at sea



Ocean glider recovered after South Australian mission. Dennis Stanley (UWA) shows evidence of shark bite

An IMOS ocean glider was recently recovered after 74 days in the Great Australian Bight. It made 344 dives and traversed over 1,800 km, collecting data on temperature, salinity and other variables from the ocean surface to a depth of 1,000 m.

On at least one dive the glider was attacked by a shark. Bite marks and a damaged oxygen sensor provide evidence the yellow metal object was mistaken for food and preyed upon.

The mission was part of the Great Australian Bight Research Program (GABRP), a collaboration between BP, CSIRO, the South Australian Research and Development Institute (SARDI), the University of Adelaide and Flinders University. This four-year, \$20 million research program aims to provide a whole-of-system understanding of the environmental, economic and social values of the Great Australian Bight; providing an information source for all to use.

[See our news item on the IMOS website.](#)

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Nominations of candidates for membership to the IIOE-2 Steering Committee Science Themes and Working Groups

Following on from the recent invitation for nominations of Chairs to the Second International Indian Ocean Expedition, 2015–2020 (IIOE-2) Steering Committee Science Themes and Working Groups, the Intergovernmental Oceanographic Commission (IOC) with co-sponsors SCOR and IOGOOS are now inviting all interested individuals to nominate to be a member of one (or several) of the six Science Theme or seven Working Groups.

Australian scientists are encouraged to get involved in IIOE-2. Participation via membership on one (or several) of these groups is an excellent way to engage in this international program and to potentially develop collaborative IIOE-2 research projects with others from around the globe.

For further information, contact the Australian Node of the IIOE-2 Joint Project Office (nick.dadamo@bom.gov.au, iioe-2@bom.gov.au)

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.

CMB Summer Course on Microbial Ecology

This year's Centre for Marine Bio-innovation (CMB) Summer Course on Microbial Ecology) will be held on 20-25 November at the Sydney Institute of Marine Science (SIMS).

The course is open to postgraduates and scientists world-wide with a background in microbiology and/or ecology. For expressions of interest and further information on the registration process and fees see <http://www.cmb.unsw.edu.au/> or email Suhelen Egan (e.egan@unsw.edu.au).

Applications close 17 October 2016.

Chief Scientist announces 2016 National Research Infrastructure Capability Issues Paper and consultation process

The 2016 National Research Infrastructure Capability Issues Paper and associated consultation process have been announced by the Chief Scientist, Dr Alan Finkel.



Tim Moltmann with Chief Scientist Dr Alan Finkel, during his visit to the UTAS waterfront campus in May this year

The Issues Paper is a key step in the development of the 2016 National Research Infrastructure Roadmap, which will guide future Government investment. Any IMOS funding for the period post July 2017 will flow directly from Roadmap outcomes, so it is vitally important that the IMOS community remains engaged in the Roadmap process.

The National Research Infrastructure Capability Issues Paper and consultation program can be accessed at:

<https://www.education.gov.au/2016-national-research-infrastructure-roadmap>

Please note that the consultations sessions in Perth and Adelaide have already taken place. Brisbane and Townsville sessions will be next week, with remaining State consultations in mid-late August and early September.

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Recent & Upcoming Events

- **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>
- **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 organisers 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.