



IMOS Bulletin

Issue #43 May 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

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

Images from an Autonomous Underwater Vehicle (AUV) campaign at Batemans Bay in November 2014 are available on the IMOS Ocean Portal and the AUV Images Viewer (<https://auv.aodn.org.au/auv/>).

IMOS Activity Planning

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.

The Wireless Sensor Network at Lizard Island experienced its second Tropical Cyclone (T.C. *Nathan*) in less than a year with T.C. *Ita* going over the station in April 2014 and T.C. *Nathan* in April 2015. The IMOS equipment recorded the most intense wind gusts of any cyclone to date at over 180 kilometres per hour. While the cyclone was quick to pass over the station it came from a different direction to *Ita* a year before meaning that coral areas that had survived one cyclone were exposed to the second. As a result the coral has been degraded in parts around the island and it will be interesting to monitor the recovery of this reef over time. The IMOS weather station withstood both cyclones although *Nathan* damaged the power systems and so the station was off the air a number of days as the batteries ran flat. A trip in early May has seen the station repaired and it is now back on line.

Did you know?

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

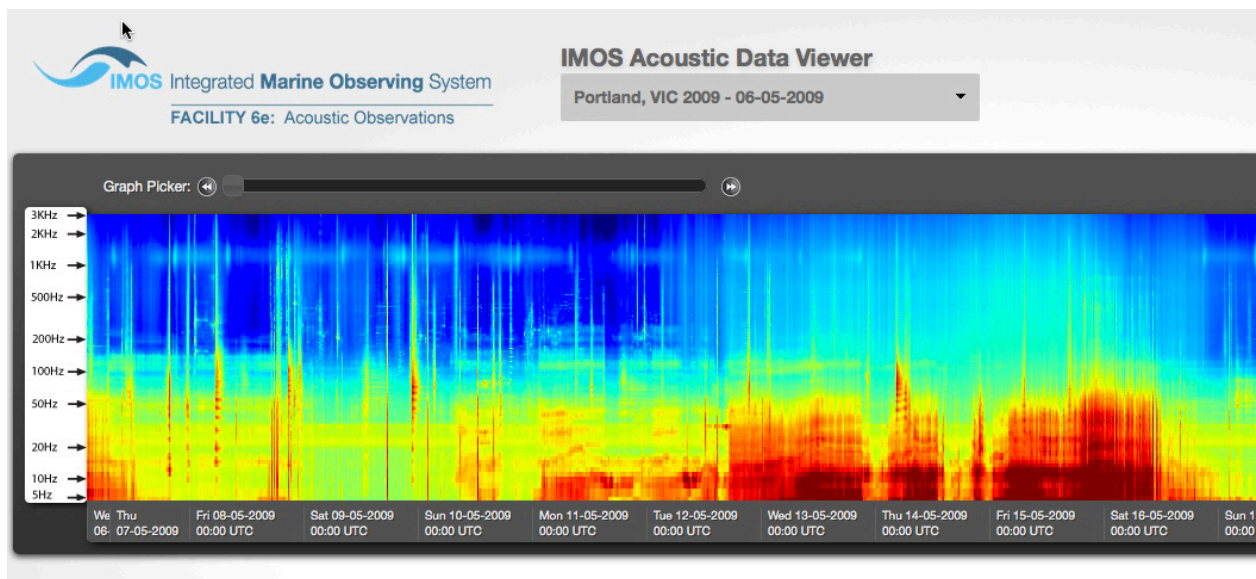
IMOS is a national collaborative research infrastructure, supported by Australian Government. It is led by University of Tasmania in partnership with the Australian marine & climate science community.

Acoustic Data Viewer

The Acoustic Data Viewer (<https://acoustic.aodn.org.au/acoustic>) provides access to data plots of raw sound recordings from the IMOS Passive Acoustic Observatories Moorings.

The viewer is simple to use with the following steps for selection and downloading data:

1. Choose a Site/Deployment from the drop-down menu.
2. You will be presented with a long-term average spectrogram compiled from the power spectrum density of sea noise calculated for each individual recording.
3. Scroll the spectrogram horizontally (using the slide-bar above the image) to find the time period of interest.
4. Click on the spectrogram at a desired time-point to see the waveform and spectrogram of the sea noise recording corresponding to that time.
5. To download a zip file containing the selected recording (in raw binary format), and the waveform and spectrogram preview images, click the Download button. Otherwise click on another time-point to produce fresh images.



Recent & Upcoming Events

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.

1-5 June 2015 7th International Workshop on Modeling the Ocean (IWMO), Australian National University (ANU), Canberra, Australia. Details of the workshop are now posted on the conference website: <http://www.tinyurl.com/iwmo2015>

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8-12 June 2015 Southern Ocean Observing System (SOOS) Week, Hobart, Tasmania. SOOS will be holding 4 international meetings during the week of 8-12 June 2015, hosted by the Institute for Marine and Antarctic Studies (Hobart, Australia). Register [here](#) to attend!

8-10 June: [SOOS Scientific Steering Committee meeting](#)

10-11 June: [SOOS Data Management Sub-Committee meeting](#)

10 June: [Assessing the State of the Climate of the Southern Ocean](#) (limited numbers)

11-12 June: [Planning Workshop: Implementing a Southern Ocean Observing System](#) (limited numbers)

22 June – 2 July 2015 26th International Union of Geodesy and Geophysics (IUGG) General Assembly 2015, Prague, Czech Republic. <http://www.iugg2015prague.com>.

5-9 July 2015 AMSA Annual Conference, Geelong, Victoria. <http://www.amsaconference.net/>. IMOS is co-convening the theme 'Applications of Integrated Model-observing Systems'. There is also an IMOS workshop, on **Sunday 5th July, 9am-4.30pm**, Deployment database and Matlab toolbox. The IMOS Matlab Toolbox provides an automated interface for converting raw instrument data into IMOS compatible Quality Controlled NetCDF files, ready for handover to [eMII](#). *If you would like to attend this free workshop, you can select as an add-on with your registration.*

13-17 July 2015 3rd International Conference on Fish Telemetry, Halifax, Nova Scotia, Canada. <http://2015icft.org/>.

15-17 July 2015 AMOS National Conference, Brisbane QLD. <http://www.imis100ap1.com.au/AMOS/AMOS2015/Home/AMOSNationalConference2015/Home.aspx?hkey=e329fe4f-2c9f-4fba-b29a-31e453413862>.

21-23 July 2015 Australian Forum for Operational Oceanography (FOO 2015), Esplanade Hotel, Fremantle, WA. <http://www.foo2015.com> The FOO 2015 Organising Committee are calling for abstracts for the talks on Day 3 (Thursday 23rd July) under Theme 4 "Identifying and Addressing Future Challenges and Opportunities" addressing the following key challenges identified by the FOO Steering Committee:

- Winds - squall forecasting, climate change
- Waves - long period swells, internal waves, climate change
- Currents - tendency to miss peak events, and generally underestimate
- Improving three to seven day forecasting in general

To be considered for a talk in this session, please complete and submit the [Abstract Template](#) by **31st May 2015**. Participants are also encouraged to submit an abstract under any Theme for the [Poster Session](#) at the end of Day 1. The inaugural Forum is by invitation, and will be limited to 150 participants. However, if you have not received an invitation and would like to attend please contact

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the FOO Steering Committee Co-chair, Tim.Moltmann@imos.org.au, or Executive Support emma.sommerville@utas.edu.au

14-18 September 2015 GO-SHIP/Argo/ IOCCP conference on physical and biogeochemical measurements of the water column, Galway, Ireland. <http://www.gaic2015.org>.

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

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

19-21 January, 2016 9th International Conference on Marine Bioinvasions (ICMB), Sydney, Australia. <http://www.marinebioinvasions.info/>

3-6 May 2016 4th International Symposium on the Ocean in a High-CO2 World, Hobart Tasmania. <http://www.highco2-iv.org/>. Abstract submission opens **1 June 2015**.

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