

**AGENDA**  
**IMOS-11 – Annual Planning Meeting**  
**University Club at the University of Western Australia, Perth**  
**14-16 February 2017**

**Attendees** – Facility and Sub-Facility Leaders, Operator Representatives, Node and Deputy Node Leaders, representatives from Operational Partners and Research Partners, IMOS Office staff, IMOS Advisory Board (if they are able), and other invited guests

**Meeting Overview**

This will be the eleventh IMOS Annual Planning Meeting, with ~90 people in attendance. It is being held on the UWA campus in Perth as part of the regular rotation of IMOS Annual Planning Meetings (APMs) across major centres of presence, and also to help our WA-based colleagues celebrate the new Indian Ocean Marine Research Centre.

Australian Government planning for future national research infrastructure investment is now well underway. We are unlikely to know much more than we already know before the APM. The Draft Roadmap has been released and the ‘punchline’ is positive for IMOS and marine science in general. The Roadmap will be finalised around the end of February 2017, and the Government will then need to provide a response which will inform development of the Investment Plan that will determine levels of future investment in national research infrastructure. IMOS is very well positioned to continue engaging with this planning and investment process based on all the work put in last year to develop our [Five Year Plan \(2017-22\)](#).

Given this context, APM-11 has been structured as follows:

- A ‘Scene Setting’ session with brief presentations from the IMOS Director and Advisory Board Chair, and time for questions and discussion. The objective of this session is to ensure that all in the IMOS community feel up to speed, and understand the forward strategy.
- Three thematic sessions focused on ways we might increase uptake and impact, building on investments over the first decade. It is important to discuss this now. Approaches that have served us well to date will not necessarily be sufficient going forward. And it is reasonable for our funders, users and stakeholders to expect more than linear increases in uptake and impact given the significant capability and data holdings built up over the first decade. We have an opportunity to take IMOS to the next level and need to make concrete plans to this end.
- Theme 1 is entitled ‘Signal to Noise’: extracting value from datasets and time series. Here we will focus on opportunities to develop new analyses and products based on IMOS observations and data, as well as identify any impediments to optimal use of existing datasets.
- Theme 2 is on Operational Oceanography, defined by the Australian Forum for Operational Oceanography (FOO) as “systematic and long-term routine measurements of the seas and oceans and atmosphere, and their rapid interpretation and dissemination”. The focus will be on ‘model ready’ observations and data, and will stretch beyond physics into biogeochemistry and biology and ecosystems.
- At the suggestion of the Node Leaders, Theme 3 will be on Marine Extremes. There will be presentations on what we’ve learnt from recent events leading to a discussion about whether there are any changes we should make to the observing system in response to new knowledge, and whether there are new products and services required.
- A session on ‘IMOS Performance: Assessment and Improvement’. Topics will include QA/QC by variable, measurement of uptake and use, and streamlining of activity planning and management. We will also cover new, strategic initiatives including the Australian Ocean Observing Partnership (AOOP), and the need for a national ocean modelling infrastructure.

<b>DAY 1 – Tuesday 14 February 2017</b>			
<b>Start</b>	<b>Duration</b>	<b>Subject</b>	<b>Speakers</b>
1:00	60 min	LUNCH ON ARRIVAL	
<b>Scene Setting</b>			
2:00	5 min	Welcome	Tim Moltmann
2:05	15 min	IMOS Advisory Board – Perspectives on the future	Ian Poiner
2:20	20 min	Reflection and Projection – 2016, and 2017-22	Tim Moltmann
2:40	20 min	<i>QUESTIONS and DISCUSSION (in response to both talks)</i>	all
<b>THEME 1 – ‘Signal to Noise’: extracting value from datasets and time series</b>			
3:00	20 min +10 min*	National Reference Station Network datasets – exploiting the full potential of long time series <i>DISCUSSION</i>	Craig Steinberg and Moorings Steering Committee
3:30	30 min	AFTERNOON TEA	
4:00	20 min +10 min	The Australian Marine Microbial Biodiversity Initiative (AMMBI) – status and next steps	Lev Bodrossy et al
4:30	20 min +10 min	From Plankton 2015 to Assessment of Pelagic Productivity – can we do it, what will it take?	Anthony Richardson et al
5:00	10 min +5 min	Synthesis and national scale analysis of IMOS acoustic telemetry data	Michelle Heupel, Rob Harcourt, Tim Moltmann
5:15	10 min +5 min	Marine acoustics – enabling broader use of highly specialised data	Rudy Kloser, Rob McCauley, Ana Lara-Lopez, Tim Moltmann
5:30	10 min +5 min	On-line capability to annotate and analyse underwater imagery using the Australian Marine Sciences Cloud	Roger Proctor, Tim Langlois, Ari Friedman et al
5:45	15 min	Wrap up ‘Signal to Noise’ session, including opportunity to raise important issues not covered by the talks and discussion	Tim Moltmann
6.00		Close Day 1	
7.00	Late	DINNER – BBQ on Terrace, The University Club	

\* For items with two times indicated, there will be 20 (or 15) minutes for presentation, and 10 (or 5) minutes for discussion.

<b>DAY 2 – Wednesday 15 February 2017</b>			
<b>Start</b>	<b>Duration</b>	<b>Subject</b>	<b>Speakers</b>
8.30	30 min	COFFEE ON ARRIVAL	
<b>THEME 2 – Operational Oceanography</b>			
9:00	20 min	Oceanography off Western Australia – what have we learnt in the first decade of IMOS?	Chari Pattiaratchi, UWA
9:20	20 min	The North West Shelf – status of industry knowledge, and key gaps	Steve Buchan, RPS Metocean
9:40	20 min	Future requirements for safer and more efficient offshore industries	Jan Flynn, Shell Australia
10:00	10 min	The Australian Forum for Operational Oceanography – what does it mean for IMOS?	Tim Moltmann et al
10:10	10 min +5 min	National Bathymetry Acquisition – status and next steps	Adam Lewis
10.30	30 min	MORNING TEA	
11:00	20 min +10 min	IMOS Ocean Current – what’s there now, and how could we make it even more useful?	Madeleine Cahill et al
11:30	20 min +10 min	Ocean Colour Radiometry – status of the Task Team, and availability of products from next generation satellites	David Antoine, Thomas Schroeder, Edward King et al
13:00	20 min +10 min	Zooplankton Observations and Modelling – status of the Task team, and turning zooplankton observations into size spectra for ecosystem modellers	Jason Everett, Mark Baird, Anthony Richardson et al
12:30	10 min +5 min	Harmful Algal Blooms – can IMOS underpin a HAB forecasting capability?	Ana Lara-Lopez et al
12:45	10 min +5 min	Surface Waves – ideas generated through FOO and IMOS Five Year Planning	Tim Moltmann et al
1:00	60 min	LUNCH	
2:00	10 min +5 min	The Marine Virtual Laboratory (MARVL) – current status and future plans	Roger Proctor, Peter Oke et al
2:15	15 min	Wrap up Operational Oceanography session, including opportunity to raise important issues not covered by the talks and discussion	Tim Moltmann
<b>THEME 3 – Marine Extremes</b>			
2:30	20 min	Coral Bleaching	Craig Steinberg et al
2:50	20 min	Marine Heatwaves	Ming Feng et al
3:10	20 min	Tropical and Extra-Tropical Storms	Chari Pattiaratchi et al
3.30	30 min	AFTERNOON TEA	
4:00	30 min	Other Marine Extremes	All Nodes, relevant Facilities (Ana Lara-Lopez coordinating)
4:30	30 min	DISCUSSION – Are there any changes we should make to the observing system in response to new knowledge? Are there new products and services required?	all
5.00		Close Day 2	
7:00	late	DINNER – BBQ at UWA Oceans Institute building	

<b>DAY 3 – Thursday 16 February 2017</b>			
<b>Start</b>	<b>Duration</b>	<b>Subject</b>	<b>Speakers</b>
8.00	15 min	COFFEE ON ARRIVAL	
<b>IMOS Performance: Assessment and Improvement</b>			
8:15	20 min +10 min	Review of IMOS Quality Control by Variable – current status and next steps	Ana Lara-Lopez et al
8:45	10 min +5 min	IMOS Activity Planning and Management – a new project aimed at improving how we do this	Emma Sommerville et al
9:00	20 min +10 min	Uptake and use of IMOS observations and data – are we capturing everything now, and what can we do to accelerate uptake and use?	Tim Moltmann et al
9:30	20 min +10 min	The Australian Ocean Data Network (AODN) – current status and priority datasets/partnerships	Roger Proctor et al
10.00	30 min	MORNING TEA	
10:30	20 min +10 min	An Australian Ocean Observing Partnership (AOOP) – what is it, and why do we need it?	Sue Barrell, Brett Brace, Tim Moltmann
11:00	20 min +10 min	Towards a national ocean modelling infrastructure	Tim Moltmann et al
11:30	45 min	Sum up and agreed actions Meeting close	Tim Moltmann Ian Poiner
12:15		LUNCH	