



Surface waves – ideas generated through FOO and IMOS Five Year Planning

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Outline of talk

- Existing wave data
- FOO 2015
 - Surface Waves Working Group
- IMOS Five Year Plan proposals

Existing wave data

- Data goes to the Bureau who put it into an international format and onto the GTS
- However there isn't a national archive that the research community can easily use
- Unable to resolve this with BOM
- AODN now going direct to the various State Governments, who are now willing to make their data available
- Interested in partnering with our US cousins in the Pacific (PacIOOS)

FOO 2015, incl Surface Waves WG

- Surface Waves identified as one of six candidate priority areas at FOO 2015. Specific issues:
 - Source of error in swell set up
 - combining spectral and phase resolving models
 - ocean (vs lake) obs to inform source term development
 - shallow water bathymetry for nearshore waves
- Working Group established
 - Hemer, Babanin, Greenslade, Williams (RPS), Metters (Qld Gov), Kolbusz (Carnegie)
- Some good work done, but stalled due to reliance on IMOS Office staff who were overcommitted
 - Looking to revitalise in 2017

IMOS Five Year Plan proposals

- Satellite Surface Waves (Hemer and Young)
 - calibrate, collect and distribute ocean surface wave data from current and next-generation satellite missions
- Directional Wave Buoy (Greenslade and Hemer)
 - location to be determined, possibly
 - the east coast of Tasmania, the South Australian coastline, or the northwest shelf
- Wave Glider and Waverider buoys (Metters)
 - continuous wave measurement outside of the northern GBR
- Three proposals from the FOO WG, work to do...

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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.

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The Operators of the IMOS infrastructure are:



THANKS



NRS discussion, lunch time 15/2

Here we are talking about the physical measurements:

1. Long time series
 - Maria Island there for 70 years
 - What about
 - Port Hacking, Rottneest?
 - Yongala, Darwin, KI, NSI?
2. Does expert QC by UNSW + AIMS + SARDI + CSIRO = expert QC for all IMOS data?
3. Access to files
4. Products to serve a broader user base (not everyone, but..) - Gridded, other...
5. Oke Sakov (2012)
 - NRSs effectively monitors, with a correlation of >0.8 , the interannual (intraseasonal) variability of the shelf circulation in about 80% (30%) of the region around Australia.