

TT-MB



- As agreed at DBCP-24, Cape Town, Republic of South Africa, October 2008, the initial priority for the Task Team is on documenting the existing moored buoy systems operated by participants. This is needed because there is at present no collection of the relevant information (metadata) on moored buoy systems.



Metadata

- Existing sources of information are incomplete and/or not up to date
 - JCOMM ODAS information at MEDS (<http://www.meds-sdmm.dfo-mpo.gc.ca/odas/main.htm>)
 - JCOMM ODAS Metadata Service (<http://www.odas.org.cn/>)
 - JCOMMOPS buoy metadata collection scheme (<http://wo.jcommops.org/cgi-bin/WebObjects/meta>)



Metadata

- JCOMM ODAS Metadata scheme attempts to cover all forms of 'ODAS' (moored buoys, drifters, floats, fixed platforms, light stations etc)
- Need metadata appropriate to moored buoys
- OceanSites has its own metadata system (sensorML) which includes TAO/TRITON so no need to duplicate metadata again
- Key point is that the metadata exists and JCOMMOPS either holds it or provides links to it elsewhere (e.g. GDACs)

Role of JCOMMOPS



- Suggested at DBDP-24 that JCOMMOPS could collect moored buoy metadata directly from platform operators
 - possibly similar to the Argo notification system
 - must be intuitive and easy to use
- JCOMMOPS could then periodically forward metadata to the JCOMM ODAS Metadata Centre (long-term repository)

What information would be useful?



- From a practitioners perspective:
 - what measurements are made and which sensors are used (e.g. for wind and waves)
 - what hulls are used
 - what sort of mooring and water depth
 - what communications are used (Meteosat, Iridium etc)
 - commercial off-the shelf systems or bespoke systems developed by operators
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What information would be useful?



- From a data users perspective
 - what height(s) (or depths) the measurements are made at
 - how often the are data reported
 - what sampling period(s) are employed
 - are any corrections made (e.g. are winds adjusted to a nominal 10m height)
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PP-WET



- Also need to capture essential metadata relevant for wave measurements (including moored buoys measuring directional wave spectra)

Suggested approach



- Aim for consistency with ODAS Metadata format (ver 1.1) using same (as far as possible) field parameters/abbreviations
- Suggest defining a number of core (mandatory) parameters plus optional additional parameters
- Need to be able to initially populate automatically
- [Strawman proposal](#) circulated early Sept

EC suggestions



- Suggested some additional parameters for inclusion
 - based on feedback received from operational meteorological buoy technicians, as well as scientific users of EC Marine data



Next steps

Q. Does DBCP endorse this general (straightforward?) approach

- resource implications if metadata base and interface are developed and maintained by JCOMMOPS

Need to agree lists of core and additional (optional) parameters

Other ongoing TT-MB Tasks



- Involvement/liaison with JCOMM Expert Team on Wind Waves and Storm Surges regarding the need for in situ wave observations
- Participation in PP-WET

MB Technology developments



- As presented at DBCP S&T workshop
 - PMEL work on vandal resistant TAO buoy
 - PMEL low cost self contained (WXT520) met system
 - UKMO WindSonic evaluation
 - NDBC buoy vandalism incidents
 - Need for wave buoy data for altimeter sea state assessment
 - French national network of wave buoys (CANDHIS)
 - PP-WET
 - Tsunami buoy developments and forecasts