

Data Buoy Cooperation Panel (DBCP) Task Team on Wave Measurement (TT-WM)

Val Swail and Robert Jensen



WMO



IOC/UNESCO

Chair: Val Swail → Bob Jensen after 17 Nov 17

- Cross-cutting team across the 3 JCOMM Programme Areas – Observations, Services, Data Management – under Data Buoy Cooperation Panel (DBCP) lead
- Activities include:
 - Documentation of user requirements – forecast, climate, model evaluation, satellite cal/val, wave energy, air-sea interaction, structural design
 - Coordination of ongoing wave measurement evaluation (WET)
 - Support for development of wave measurements from drifters (SIO)
 - Coordination of complementary wave measurements with ESA (with Craig Donlon)
 - Work on metadata, especially historical
- Work primarily by correspondence
- Ad hoc meetings on opportunistic basis – WW15, WISE, AGU Ocean Sciences
- Formal meeting at annual DBCP – TT meeting, Tech Workshop, Report to Panel (DBCP-33, 14-17 November, Brest)
- Essentially a Community of Practice for wave measurement providers and users
- Contact Val or Bob if you would like to be a member of this TT (val.swail@canada.ca OR robert.e.jensen@erdc.dren.mil)

Task Team on Wave Measurement (TT-WM)

Terms of Reference

The DBCP Task Team on Wave Measurement shall:

1. Continue to coordinate, on an ongoing basis, intercomparisons of wave measurements from different platforms, on an opportunistic basis, in particular from the Monterey buoy farm and FLOSSIE, and the GDP wave drifters
2. Continue to support the development of high quality spectral wave measurements from drifting buoys, including the SVP-Wa buoys;
3. Publish ongoing intercomparison results on the Wave Measurement and Evaluation web site;
4. Monitor technological developments for wave measurements from moored and drifting buoys;
5. Liaise with the different communities making in situ wave measurements, including OceanSITES, the Global Drifter Programme, as well as national moored buoy programmes (coastal and global);
6. Liaise with international programmes including the three Programme Areas of JCOMM (OPA, SPA, DMPA), GCOS/GOOS, OOPC, and other relevant bodies on in situ wave measurement, including user requirements, evaluation, best practices, and emerging technologies;
7. Liaise with the JCOMM Expert Team on Waves and Coastal Hazard Forecasting Systems (ETWCH) regarding the need for in situ wave observations;

Task Team on Wave Measurement (TT-WM)

Terms of Reference (2)

The DBCP Task Team on Wave Measurement shall:

8. Review all relevant WMO and IOC Publications on Instrument Best Practices (e.g., JCOMM, CIMO) to make sure they are kept up to date, address WIGOS issues, and comply with Quality Management terminology;

9. Contribute to training material to educate users about appropriate wave measurement procedures and uses of the data, including the need for high quality information for all users;

10. Outreach the wave measurement developments and analyses to DBCP and other scientific fora, including the International Wave Workshop, and organize special workshops on wave measurement as appropriate and necessary.

11. Provide the DBCP Executive Board or the DBCP with technical advice needed for developing in situ wave measurement programmes, including the issues above; and

12. Report to the DBCP Executive Board and the DBCP at its biennial Sessions, with periodically updated Workplans supporting implementation.

Membership: The membership is decided at Panel Sessions and is open to all Panel members.

Membership of existing PP-WET Pilot Project

- Val Swail, Co-Chair (EC)
- Bob Jensen, Co-Chair (USACE)
- David Meldrum (DBCP, SAMS)
- Jean Bidlot (ECMWF)
- Julie Thomas (UCSD)
- Richard Bouchard (NOAA/NDBC)
- Jon Turton (Met Office)
- Luca Centurioni (UCSD)
- Lance Braasch (UCSD)
- Bruce Bradshaw (DFO)
- Chris Marshall (EC)
- Diana Greenslade (BoM)
- Anne Karin Magnusson (MET Norway)
- Kevin Ewans (Shell)
- George Forristall (ForOcean)
- Gene Berek (IOGP Metocean)
- Tyler Hesser (USACE)
- Hans Graber (U. Miami)
- DBCP Technical Coordinator
- Venkatesan (India)
- Dongkyu Lee (SIO)
- Christian Meinig (NOAA/PMEL)
- Eric Terrill (UCSD)
- Etienne Charpentier (WMO-DBCP)
- Champika Gallage (WMO-DBCP)