



Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology
 Commission technique mixte OMM-COI d'océanographie et de météorologie maritime
<http://www.jcomm.info>

JCOMM Technical Workshop on Wave Measurements from Buoys

2 - 3 October 2008, New York, United States

RECOMMENDATIONS FROM THE WORKSHOP

Recommendation or Action	Category *	By whom
<i>Technical Developments and Related Research</i>		
Ensure continuity of the established buoy networks	L	National/Regional Buoy Operators
Expand directional measurement capabilities	L	National/Regional Buoy Operators
Improve spatial network for wave measurements	L	National/Regional Buoy Operators
Conduct high quality wave measurement on open ocean reference stations, collocated with other metocean measurement platforms	M	National/Regional Buoy Operators, in coordination with OceanSITES
Extend intercomparison of (existing) various buoy networks, platforms, and instrumentation to develop a consensus for wave observation methods	I	National/Regional Buoy Operators, Wave research community
Assess the differences in buoy platforms and instrumentation as they relate to the "first 5 standard" wave measurements.	I	JCOMM, PP Steering Committee after establishment
Ensure data availability for existing wave observations	I	National/Regional Buoy Operators, Wave research community
Expand the use of remote sensed measurements (e.g. wave radar, satellite) in assessment of new wave measuring technologies suitable for use on non wave or particle following buoys	M	National/Regional Buoy Operators, Wave research community

Standards, Requirements and Best Practice		
Develop requirements for spatial/temporal coverage	M	JCOMM, Wave research community
Develop/improve criteria for accuracy (in frequency domain) of wave measurement	M	JCOMM, Wave research community
Identify (spatial) areas of priority for wave measurements	M	JCOMM, Wave research community
Document pros/cons of different wave measurement methods (e.g. wave followers, corrected wave follower, corrected fixed platform, fixed platform) and develop appropriate transfer functions	I	National/Regional Buoy Operators, Wave research community
Establish guidelines of best practices for wave measurements from buoys (e.g. on constructing sensors, sampling, power, telemetry needs)	M	JCOMM
Develop global standards and guides based on the existing references such as US IOOS "first-five" approach	M	JCOMM
The Future		
Establish and implement the Pilot Project on Wave Measurements from Drifters (PP-WMD)	I	JCOMM, then PP Steering Committee after establishment
Establish and implement the Wave measurement Evaluation and Test from moored buoys (PP-WET)	I	JCOMM, then PP Steering Committee after establishment
Coordination / Integration of the PPs' implementation and outcomes with META-T process and WIGOS	M	PP Steering Committees, Secretariat
Identify resources (funds, in-kind supports) for Pilot Projects and following activities	I	PP Steering Committees, Secretariat
Enhance linkage with other communities (e.g. Altimeter, SAR)	L	JCOMM, Wave research community
Enhance linkage with industry in sharing observing facilities and historical observing data	M	Industry, Wave research community

* Category

I: Immediate action M: mid-term plan L: recommendation/action in longer term, and continuous actions