OBPS ENDORSEMENT REVIEWER RECOMMENDATION

This is the reviewer's assessment of whether the endorsement application has followed the OBPS endorsement process. The applicant is responsible for assessment of the technical content of the method proposed for endorsement.

Practice being submitted for OBPS Endorsement

U.S. Integrated Ocean Observing System (2019) Manual for Real-Time Quality Control of In-Situ Surface Wave Data: A Guide to Quality Control and Quality Assurance of In-Situ Surface Wave Observations. Version 2.1. (ed. M. Bushnell). Silver Spring, MD, U.S. National Oceanic and Atmospheric Administration, National Ocean Service, Integrated Ocean Observing System, 70pp. DOI: https://doi.org/10.25923/7yc5-vs69

Section 1 Endorsement Entity Description	Entity Input from the Endorsement Application	Reviewer compliance decision (Yes or No	Reviewer compliance decision (Yes or No	Reviewer compliance decision (Yes or No
		REV 1	REV 2	REV 3
Entity name	Coastal Data Information Program (CDIP) https://cdip.ucsd.edu/ for IOOS	Yes	Yes	Yes
Mission & background	The Coastal Data Information Program (CDIP) is an extensive network for monitoring waves and beaches along the coastlines of the United States. Since its inception in 1975, CDIP has produced a database of publicly accessible environmental data for use by coastal engineers and planners, scientists, mariners, and beachgoers. Decades of deploying calibrated, precision instrumentation, and applying rigorous quality assurance and quality control methods, has provided the data required to generate metrics for wave climate along US coastlines, and to identify and characterize storm-driven extreme wave events.	Yes	Yes	Yes

Administration / funding source	CDIP receives primary support from the US Army Corps of Engineers (USACE), California State Parks, and other federal, state, and industry partners, including the National Oceanic Atmospheric Administration's U.S. Integrated Ocean Observing System (NOAA IOOS) Regional Associations (RA's).	Yes	Yes	Yes
Other partnering / supporting entities for practice	NOAA National Data Buoy Center (NDBC), NOAA PORTS, IOOS RA's, California Coastal Commission, etc.	Yes	Yes	Yes
Section 2 Statement by Entity	**Entity input**	**Reviewer compliance decision (Yes or No)**	**Reviewer compliance decision (Yes or No)**	**Reviewer compliance decision (Yes or No)**
		REV 1	**REV 2**	**REV 3**
1) qualifications to endorse a practice	The Coastal Data Information Program (CDIP) is on the forefront of wave observations and technology. CDIP curates decades of continuous quality-controlled wave data from hundreds of real-time and historic monitoring stations. CDIP was a primary author of the methods described in this QARTOD Waves manual, and continues to apply them. CDIP data are provided free to the public, and are used by stakeholders who rely on high-quality data for research and decision-making support.		Yes	Yes
2) justification for the endorsement of the practice	The endorsement of the IOOS Manual for Real-Time Quality Control of In Situ Surface Wave Data is requested as the guidelines meet best practice description and standardize the methods for measuring and reporting wave data.	Yes	Yes	Yes
3) the process used to	The process used to develop the manuals is described in the QARTOD Project Plan. An initial manual is developed based on	Yes	Yes	Yes

develop the practice	input from a committee of subject matter experts and the QARTOD technical coordinator and technical writer. The initial manual goes through a series of reviews by the stakeholder community, including international members. Comments are recorded and addressed, and indicates whether further revision is required. The manual is then finalized, signed, and distributed.			
4) the review process that was used to prepare the endorsement recommendation.	Reviewers are acknowledged in each manual and comments are logged and addressed. These are provided in an adjudication matrix.	Yes	Yes	Yes
Section 3 Endorsement Documentation	**Entity input**	**Reviewer compliance decision (Yes or No**	**Reviewer compliance decision (Yes or No**	**Reviewer compliance decision (Yes or No**
		REV 1	**REV 2**	**REV 3**
Date submitted for endorsement acceptance: YYYY-MON-DAY	2025-03-31	Yes	Yes	Yes
Endorsed Practice document citation	U.S. Integrated Ocean Observing System, 2019. Manual for Real-Time Quality Control of In Situ Surface Wave Data Version 2.1: A Guide to Quality Control and Quality Assurance of In Situ Surface Wave Observations. 70 pp. https://doi.org/10.25923/7yc5-vs69	Yes	Yes	Yes
Creators (all)	Integrated Ocean Observing System (U.S.)	Yes	Yes	Yes
Year	2019	Yes	Yes	Yes
Title	Manual for Real-Time Quality Control of In Situ Surface Wave Data Version 2.1: A Guide to Quality Control and Quality Assurance of In Situ Surface Wave Observations	Yes	Yes	Yes

Publisher or Journal Ref	U.S. Integrated Ocean Observing System	Yes	Yes	Yes
Number of Pages	70pp.	Yes	Yes	Yes
Persistent identifier - e.g. DOI, URI	https://doi.org/10.25923/7yc5-vs69	Yes	Yes	Yes
Version Number (if applicable)	2.1	Yes	Yes	Yes
Section 4 Endorsement process and justification	**Entity input**	**Reviewer compliance decision (Yes or No**	**Reviewer compliance decision (Yes or No**	**Reviewer compliance decision (Yes or No**
		REV 1	**REV 2**	**REV 3**
1. have completed a rigorous and transparent community review whereby comments received are adjudicated by the author(s) and the dialogue is available upon request; community review includes invitations to relevant experts/organizations to participate in deliberations	YES - The process is outlined in Appendix E of the QARTOD Project Plan.	Yes	Yes	YES
2. have been successfully	YES	Yes	Yes	YES

used by multiple organizations				
3. be approved by the leadership of the relevant network, expert team or organization;	YES	Yes	Yes	YES
4. be shown as fit for the purposes it aims to fulfill;	YES	Yes	Yes	YES
5. be available and identifiable within the OBPS repository	YES	Yes	Yes	YES
6. be updated at relevant timeframes or have a maintenance plan for future updates;	YES	Yes	Yes	YES
7. include description of estimating uncertainty or heterogeneity of a quantity (if applicable);	YES	Yes	Yes	YES
8. follow recommendations for metadata standards and file formats for	YES	Yes	Yes	YES

archiving in international data centers;				
	References Bushnell, Mark and Pearlman, Jay (eds) (2024) Ocean Best Practices System Endorsement: Guidance for the Ocean Community, Version 2024-03-20. Ocean Best Practices System, 8pp. DOI: https://doi.org/10.25607/OBP-1983 Hörstmann, C.; Buttigieg, P.L.; Simpson, P.; Pearlman, J. ; Karstensen, J. and Waite, A.M. (2020) Towards a Best Practice for Developing Best Practices in Ocean Observation (BP4BP): Supporting Methodological Evolution through Actionable Documentation. Paris, France, UNESCO, 33pp. (Intergovernmental Oceanographic Commission Manuals and Guides No. 84). (IOC/2020/MG/84). DOI: http://dx.doi.org/10.25607/OBP-781			

Reviewer Recommendation

Recommended for Endorsement	Rev 1 Yes	Rev 2 Yes	Rev 3 Yes

Recommendation Date 2025-06-17