

JJF

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**Calibration Specification for Sensors of Ocean Data Buoys
(English Translation)**

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9 Recalibration interval (13)

Appendix A Calibration Record Sheet Reference Format (14)

Appendix B Reference format for information on the inner pages of a calibration certificate (23)

Appendix C Calibration Uncertainty Evaluation Example (24)

Introduction

This specification is based on JJF 1001-2011 "General metrological terms and definitions", JJF 1059.1-2012 "Measurement uncertainty it is formulated based on JJF 1071-2010 "National Measurement Calibration Specification Writing Rules".

This specification combines the ocean data buoy wind speed, wind direction, temperature, humidity, air pressure, waves, water temperature, the current status of the use of salinity sensors refers to GB/T 14914.2-2019 "Ocean Observation Specification Part 2: Seaside Observation GB/T 12763.2-2007 "Ocean Survey Specifications Part 2: Ocean Hydrological Observation", GB/T 12763.3-2020 "Ocean Survey Specifications Part 3: Marine Meteorological Observations", JJF 1794-2020 "Shore-based Marine Environmental Natural "Sensor Calibration Specifications for Dynamic Observation Systems", JJG876-2019 "Ship Meteorological Instruments", JJF 1076-2020 "Digital Calibration Specification for Digital Thermometer and Hygrometer", JJG1084-2013 Digital Barometer, JJG1144-2017 Gravity Acceleration JJG761-2016 Electrode Salinometer, JJG763-2019 Temperature, Salinity and Depth Measuring Instrument, Part of the contents of JJG (Ocean) 01-94 "FZS2.FZS1 Ocean Data Buoy Sensor" and other technical documents Formulate.

This specification is published for the first time.

Specification for calibration of ocean data buoy sensors

1 Scope

This specification applies to ocean data buoy wind direction, wind speed, temperature, relative humidity, air pressure, wave height, wave period, Calibration of sensors for parameters such as water temperature and salinity.

2 References

This specification references the following documents.

JJG876-2019 Ship Weather Instrument JJG1144-2017 Gravity Acceleration Wave Buoy for any referenced document with a date, only the version with the date is applicable to this specification; for any referenced document without a date, the latest version (including all amendments) shall apply to this specification.

3 Terminology and units of measurement

3.1 Terminology

The terms and definitions defined in JJG1144-2017 and the following apply to this specification.

Installed in the ocean data buoy, it can automatically monitor wind direction, wind speed, temperature, relative humidity, air pressure, wave height, Sensors for measuring ocean hydrological and meteorological elements such as wave period, water temperature, and salinity.

At least 100 wave heights measured continuously in a certain period are arranged in descending order, and the first 1/3 of the number after sorting is taken.

The average value of the wave height.

[Source. GB/T 15920-2010, 2.4.36, modified] the average value of each wave height of the significant wave corresponding to the period.

[Source. JJG1144-2017, 3.4]

3.2 Units of measurement Wind direction. degree, symbol is "°";

Wind speed. meters per second, symbol is "m/s";

Temperature. Celsius, symbol is "°C";

Relative humidity. symbol is "%";

Air pressure. hectopascals, symbol is "hPa";

Wave height. meter, symbol is "m";

Wave period. second, symbol is "s".