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PEOPLE'S REPUBLIC OF CHINA

JJF 1794-2020

Calibration Specification for Sensors of Shore-based Marine Environment Automatic Observation Systems

岸基海洋环境自动观测系统传感器校准规范

(English Translation)

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8 Recalibration interval (10)

Appendix A Reference Format of Calibration Record (11)

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Appendix C Example of Calibration Uncertainty Evaluation (18)

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Introduction

This specification is based on JJF 1001-2011 "General Metrology Terms and Definitions", JJF 1059.1-2012 "Inaccurate Measurement Standardized Evaluation and Representation" and JJF 1071-2010 "Rules for Compiling National Metrology and Calibration Specifications" are the basic series of specifications Make it.

This specification combines wind direction, wind speed, temperature, humidity, air pressure, rain the current status of the use of water temperature, salinity sensors, refer to JJF 1076-2001 "Humidity Sensor Calibration Specification", JJG761-2016 "Electrode Salinity Meter", JJG876-2019 "Ship Meteorological Instrument", JJG1084-2013 "Number Font Barometer, JJG (Meteorology) 005-2011 "Automatic Weather Station Rainfall Sensor", GB/T 14914-2006 Part of the content of technical documents such as "Seashore Observation Regulations" will be formulated.

This specification is released for the first time.

Automatic observation of shore-based marine environment System sensor calibration specification

1 Scope

This specification applies to wind direction, wind speed, air temperature, humidity, air pressure, rain in the shore-based marine environment automatic observation system Calibration of sensors for parameters such as volume, water temperature and salinity.

2 Reference documents this specification refers to the following documents.

JJG761-2016 electrode type salinity meter JJG876-2019 Ship Meteorological Instrument JJG1084-2013 Digital Barometer JJG (Meteorology) 005-2011 Automatic Weather Station Rainfall Sensor JJF 1001-2011 General measurement terms and definitions JJF 1059-2012 Measurement Uncertainty Evaluation and Expression JJF 1071-2010 National Metrology and Calibration Specifications Compilation Rules JJF 1076-2001 Humidity Sensor Calibration Specification GB/T 14914-2006 Seashore Observation Specification for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification.

3 overview

The shore-based marine environment automatic observation system sensor is an important part of the shore-based marine environment automatic observation system.

Generally include wind direction sensor, wind speed sensor, air temperature sensor, humidity sensor, air pressure sensor, rain sensor Sensor, water temperature sensor, salinity sensor, etc. Based on computer and automation technology, sensors are collected in the field the data collector outputs the measurement signal, the collector obtains the

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measurement value, and accesses the private network through wired or wireless communication.

The shore-based control host communicates. The shore-based control host reads the measurement data information in each measuring point collector through a software program Information, its working structure is shown in Figure 1.

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