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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14914.3-2021

**The specification for marine observation - Part 3 :Surface and
subsurface buoy-based observation**

海洋观测规范 第3部分：浮标潜标观测

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" drafted: This document is part 3 of GB/T 14914 "Ocean Observation Specifications": GB/T 14914 has released the following parts:

- Part 1: General;
- Part 2: Coastal observations;
- Part 3: Observation of buoys and submersibles;
- Part 4: Shore-based radar observations;
- Part 5: Satellite remote sensing observations;
- Part 6: Data processing and quality control: Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by the Ministry of Natural Resources of the People's Republic of China: This document is under the jurisdiction of the National Marine Standardization Technical Committee (SAC/TC283): This document is drafted by: National Marine Technology Center, National Marine Standard Measurement Center: The main drafters of this document: Zhang Peng, Kong Youdi, Wang Ying, Yuan Lingling, Li Yangmei, Li Linqi, Feng Yueyong, Zhang Xuanming, Shang Hongmei, Zhang Shaoyong, Qi Ermai, Wang Haitao, Dong Tao, Yu Jinhua, Li Guofu, Wang Bin, Kang Jianjun, Zhang Jiantao, Zhang Xiaoxu, Chang Zhe, Zhu Jianhua, Wang Lei, Qi Zhanhui, Zhao Jianrui, Zhang Dongliang, Li Wenbin, Han Bing:

With the development of ocean observation technology, my country's observation methods have gradually developed from traditional coastal observation to buoy submersible observation, radar observation, A variety of observation methods, such as aerial observation and satellite remote sensing observation, have initially formed an ocean three-dimensional observation network integrating star-air-earth: To accommodate ocean observations To meet the needs of development, standardize ocean observation activities,

implement the "Regulations on the Administration of Ocean Observation and Forecasting" (Order No: 615 of the State Council), (GB/T 14914-2006) revised as "Ocean Observation Specifications": "Ocean Observation Specification" includes general provisions, coastal observation, buoy and submersible observation, shore-based observation Radar observation, satellite remote sensing observation, data processing and quality control, the seashore code is the revised part, and the other five parts are new parts: GB/T 14914 "Ocean Observation Specification" is proposed to be composed of 6 parts:

--- Part 1: General: The purpose is to stipulate the observation principle, observation content and quality control of ocean observation:

--- Part 2: Coastal observations: The purpose is to stipulate the project time and technical requirements of coastal observation:

--- Part 3: Buoy Submarine Observation: The purpose is to stipulate the observation items such as buoys, marine submersible buoys and surface drifting buoys, etc: skills requirement:

--- Part 4: Shore-based radar observations: The purpose is to specify the observation items and timing, general regulations, and observation methods of shore-based radar observations: Laws and requirements, data processing and electromagnetic radiation protection:

--- Part 5: Satellite remote sensing observations: The purpose is to specify sea surface temperature, marine meteorological elements, marine dynamic disasters, marine natural disasters Observation content and methods of hazards and sea surface height:

--- Part 6: Data processing and quality control: The purpose is to specify observational data such as seashore, buoys, shore-based radar and satellite remote sensing: General requirements, processes, content and methods of processing and quality control: GB/T 14914:3 is to establish a scientific and forward-looking standard for buoy and submerged buoy observation, so that buoy and submersible buoy observation can be standardized and scientific: The purpose of chemicalization, standardization and institutionalization is to meet the needs of the scientific development of the National Ocean Observation Network: After the standard is implemented, the buoy will be further standardized Submarine buoy observation business, which has the advantages of obtaining representative, timely, accurate, comparable and continuous marine environment buoy and submersible buoy observation data: It can provide better services for marine disaster prevention and mitigation, emergency management, national defense security, economic construction and social development: Ocean Observation Specification Part 3: Buoy Submarine Observation

1 Scope

GB/T 14914.3-2021 is the Chinese national standard on the specification for marine observation - part 3 :surface and subsurface buoy-based observation, in the field of natural

and applied sciences. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2022. Classification: ICS 07.060, CCS A45. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the requirements for the observation items, observation times, observation methods, data processing, and technical conditions of the marine buoy submersible observation: This document applies to the operational ocean observation activities carried out by the marine buoy submersible observation system:

2 Ocean Observation Specification Part 2: Coastal Observation

GB/T 14914:2-2019 Ocean Observation Specification Part 2: Coastal Observation

GB/T 15920 Oceanographic Terminology Physical Oceanography

GB/T 17838 Specification for auxiliary marine hydrometeorological forecasting of ships

HY/T 008-1992 Marine Instrument Terminology HY/T 059-2002 General technical requirements for automated observation of marine stations

JJF1094-2002 Characteristic Evaluation of Measuring Instruments

3 Terms and Definitions

GB/T 12763:2, GB/T 12763:3, GB/T 12763:5, GB/T 12763:7, GB/T 13972, GB/T 14914:1, GB/T 14914:2, GB/T 15920, GB/T 17838, HY/T 008-1992, HY/T 059-2002 and JJF1094-2002 defined and the following terms and definitions apply to this document: 3:1 surfaceandsubsurfacebuoy-basedobservation For the purpose of grasping, describing and recording the ocean conditions, using observation platforms such as marine buoys and marine submersibles, marine hydrology, marine meteorology, etc: Observation and measurement activities, such as the marine acoustic environment, as well as related data acquisition, transmission, analysis and evaluation activities: 3:

2 Oceandatabuoyobservation oceandatabuoyobservation Using oceanographic data buoys as observation platforms, the observation and measurement of marine hydrology and meteorological observation projects at fixed observation stations at sea are carried out:

7 Ocean Survey Specifications Part 7: Ocean Survey Data Exchange

GB/T 13972 General technical conditions for marine hydrological instruments GB/T 14914:

1 Ocean Observation Specifications Part 1: General GB/T 14914:

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