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

GB/T 42639-2023

Specification for intertidal zone survey

潮间带调查规范

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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 for Standardization Documents" drafting: Please note that some contents of this document may refer to patents: 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 was drafted by: The Second Ocean Research Institute of the Ministry of Natural Resources, the Key Laboratory of Marine Space Resource Management Technology of the Ministry of Natural Resources, Zhejiang Jiangxi Forest Resources Monitoring Center: The main drafters of this document: Liu Yifei, Xia Xiaoming, Cai Tinglu, Liao Yibo, Yu Peisong, Xiong Lihu, Chen Feng, Wang Xinkai, Lu Shasha, Wu Chunfang: Intertidal Survey Specifications

1 Scope

GB/T 42639-2023 is the Chinese specification for surveying the intertidal zone - the strip of shore that is sea at high tide and land at low tide. It is among the most productive and most heavily pressured environments on any coast, and among the most awkward to survey: the working window is the few hours around low water, the substrate ranges from rock to deep mud, and the same transect looks different depending on when it was walked. Comparability therefore depends on method, which is what this document fixes. It specifies the basic survey elements, the methods and the technical requirements for investigating the intertidal zone's type and distribution, its topography, its hydrology, its bottom sediment

quality and its biology, together with the general technical requirements, the preparation to be done before going into the field, the conduct of the field investigation itself, and the handling of the data that comes back. It applies to comprehensive surveys of the basic resource and environmental elements of the intertidal zone, and serves as a reference for related professional and special-purpose surveys. Under ICS 07.060 and CCS A45, it is the field manual for marine survey teams, coastal management authorities and the environmental assessments that precede coastal development.

This document specifies the basic elements, methods and techniques for conducting surveys on the type and distribution of the intertidal zone, topography, hydrology, bottom quality, biology, etc: Require: This document is applicable to the comprehensive investigation of the basic elements of the resource environment in the intertidal zone, and is used for reference in related professional and special investigations:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB 12327 Hydrographic survey specification

GB/T 12763:2-2007 Marine Survey Specification Part 2: Marine Hydrographic Observation

GB/T 12763:6-2007 Marine survey specification Part 6: Marine biological survey

GB/T 12763:8-2007 Specifications for marine surveys Part 8: Marine geological and geophysical surveys

GB/T 12763:11-2007 Marine survey specification Part 11: Marine engineering geological survey

GB/T 13989 National Basic Scale Topographic Map Segments and Numbering

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

GB/T 15968-2008 Specifications for making planar maps of remote sensing images

GB/T 17278-2009 Basic requirements for digital topographic map products

GB 17378:3-2007 Ocean Monitoring Specification Part 3: Sample Collection, Storage and Transportation

GB 17378:4-2007 Marine Monitoring Specification Part 4: Seawater Analysis

GB 17378:5-2007 Marine Monitoring Specification Part 5: Sediment Analysis GB/T 20257:

1 National Basic Scale Map Schema Part 1: 1:5001:10001:2000 Topographic Map Schema
GB/T 20257:

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