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

GB/T 12763.10-2007

**Specification for oceanographic survey - Part 10: Submarine
topography and geomorphology**

海洋调查规范 第10部分：海底地形地貌调查

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Foreword

GB/T 12763 "oceanographic survey" is divided into 11 parts.

- Part 1. General;
- Part 2. oceanographic observations;
- Part 3. Marine meteorological observations;
- Part 4. Seawater chemical elements investigation;
- Part 5. Ocean Sound, light elements investigation;
- Part 6. Marine Biological Survey;
- Part 7. Marine survey data exchange;
- Part 8. Marine Geological Geophysical Survey;
- Part 9. Marine Ecological Survey Guidelines;
- Part 10. seabed topography survey;
- Part 11. Marine Engineering Geological Survey. Wherein Section 9, Section 10 and Section 11 corresponds to GB/T 12763-1991 is a new section. This section GB/T 12763 Part 10 "oceanographic survey norms". This portion of the GB/T Part of 112,763, GB/T Part 712 763 and GB/T 812 763 supporting part use. This section of the Appendices B and E are informative appendices, Appendix A, Appendix C, Appendix D and Appendix F normative appendix. This part by the State Oceanic Administration. This part is administered by the National Oceanic Standards and Metrology Center. This part of the Second Institute of Oceanography, State Oceanic Administration (SOA State Key Laboratory of Submarine Geosciences), Ministry of Land and Guangzhou Marine ground Naval Institute of Marine Surveying Geological Survey drafting. The main drafters of this section. Lijia Biao, Wu Lushan, Di Guojun, at dawn fruit, Qiu Yan, Xie Xijun Wu from silver, what Suwon. Oceanographic survey Part 10. seabed topography survey

1 Scope

GB/T 12763.10-2007 is the Chinese national standard on specification for oceanographic survey - part 10: submarine topography and geomorphology, 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 13 August 2007 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2008. 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 section provides the basic requirements for seabed topography survey content, methodology, data compilation and investigation outcomes. This section applies to

1.100 million to

1.10 million scale seabed topography survey, larger scale seabed topography survey You can refer.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard. However, according to research encourages the parties to the agreement Studies using the latest versions of these documents.

GB 12319-1998 Chinese chart schema

GB 12327-1998 Hydrographic Specification

GB 12898-1991 national third and fourth order leveling DZ/T 0179-1997 standard colors and geological maps with the principles of color (1.50000) IHOS-44.1998

IHOStandardsforHydrographicSurveys (International Hydrographic Specification)

3 Terms and Definitions

3.1 Use transmitter and receiver refer to two orthogonal acoustic transducer array, obtain the vertical direction, bathymetric profiles by a large beam bathymetric dots, And formed by a series of bands sounding sounding profile formed in the direction of navigation, in order to achieve a method of high-resolution topographic measurements.

3.2 Using an acoustic transducer to scan the seabed, seabed echo signals obtained, to implement a method for Geophysical survey seabed topography imaging.

3.3 Uses sound waves transmitted and reflected on the seabed of the following medium, using acoustic echo principle, to obtain a sub-bottom structure of the acoustic profile Geophysical and survey methods.

4 General Provisions

4.1 Purpose and survey content According to the requirements of the task of the investigation, to obtain seabed topography data, survey data through the calibration and

correction, data analysis, Processing and mapping, preparation of the survey area topographic map of the seabed and the seabed topography maps, reveal changes in seabed topography characteristics and laws of the survey area for economic Construction, national defense and scientific research to provide basic information on the seabed. Seabed topography survey operations include. technical design, equipment testing, measuring preparation, marine surveying, data processing and mapping, data Inspection and acceptance and archiving.

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