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

GB/T 29133-2012

**Ships and marine technology -- ECS databases -- Content,
quality, updating and testing**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses the translation method identical with ISO 19379.2003 "Ships and marine technology - ECS databases content, quality, updating and

Test "(in English).

The relative standard ISO 19379.2003 made the following editorial changes.

- a) by deleting the foreword and introduction of international standards;
- b) "this International Standard" is, in this standard to the "standard";
- c) identification of the decimal, "" changed. "."

The standard proposed by China State Shipbuilding Corporation.

This standard by the National Standardization Technical Committee Marine Boats (SAC/TC12) centralized.

This standard was drafted. Technical and Economic Research Institute of China Shipbuilding Industry.

1 Scope

This standard specifies the generation ECS database requirements and test methods, and database content related to navigation safety, quality and update

Elements.

This standard provides guidance to build and test the ECS database. But it neither provides detailed methods and techniques for the design and development of databases,

It does not involve a detailed quality control procedures.

The main users of this standard is the manufacturer ECS database. This standard is also available for ECS manufacturers and government regulatory agencies by reference.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein

Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 9000.2000 (all parts), quality management and quality assurance standards (Quality management and quality assurance standards)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Electronic chart display and information system
electronic chart display and information system, ECDIS

Navigation information in line with the International Maritime Organization (IMO) ECDIS Performance Standards (amended IMO A.817 (19) resolution) requirements
system.

3.2

ECDIS electronic chart system, ECS

The ECS database of ship's position, nautical charts related data and information is displayed on the screen of the navigation information in the form of electronic information system. The system does not fully comply with IMO requirements for ECDIS, and does not meet Chapter V SOLAS requirements for carrying charts.

3.3

ECS database ECS Database

Content, quality, and updated to meet the standardization requirements, the database used in conjunction with ECS.

3.4

Vector data representation vector data presentation

Points, lines, polygons and text elements by the geographic coordinate description, property and appropriate provisions of the code, said digital approach charts.

3.5

Raster data representation rasterdatapresentation

By the pixel lattice pattern or grid points of the digital representation of all or part of the chart method.

3.6

Nautical charts or nautical publications nauticalchartornauticalpublication

Compiled in accordance with the requirements of sailing, the official publication by the relevant government department or other watercourse or body authorized publication of special maps, books and preparation

Maps, books dedicated database.