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

**GB/T 18913-2025**

Replacing GB/T 18913-2002

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**Ships and marine technology - Marine facsimile receivers for  
meteorological charts**

船舶与海洋技术 航海气象图传真接收机

**(English Translation)**

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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 is required.

This document replaces GB/T 18913-2002 "Ships and Navigation Technology - Navigational Weather Chart Facsimile Receivers". Compared with GB/T 18913-2002, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

--- Added the term and definition of "FM fax" (see Chapter 3);

--- The general requirements for radio receivers and recording devices have been changed (see 4.4, 4.4 of the 2002 edition);

--- Modified other test requirements such as radio receiver and recording device operation test, power supply test, dry heat cycle test, etc. (see 5.6, 5.6 of the 2002 edition);

--- The minimum safety distance requirements for each unit of the equipment have been changed (see 6.2, Chapter 6 of the 2002 edition).

This document is equivalent to ISO 9876:2015 "Ships and marine technology - Nautical meteorological chart facsimile receivers".

## 1 Scope

This document specifies the structure, performance, type test and inspection requirements of marine fax receivers.

Meteorological charts referred to in Part III-5 of World Meteorological Organization (WMO) Publication No. 386 "Facsimile transmission of meteorological charts by radio".

This document applies to shipborne radiofacsimile receivers intended for the reception of weather charts and other images representing meteorological conditions as an aid to maritime navigation.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

IEC 60945 Maritime navigation and radiocommunication equipment and systems General requirements Test methods and required test results igation and radiocommunication equipment and systems-General requirements-Methods of testing and required test results)

**Note:** GB/T 15868-1995 Global Maritime Distress and Safety System (CMDSS) General requirements for shipboard radio equipment and marine navigation equipment Test results according to the method and requirements (IEC 60945:1994, IDT)

## 3 Terms and definitions

The following terms and definitions apply to this document.

### 3.1 Dead sector

The portion of the scan line that cannot be used for image signal transmission is specified as  $4.5\% \pm 0.5\%$  of the scan line length.

### 3.2

The process or result of scanning a still image and converting the information into electrical signals to reproduce the image over a long distance in the form of a record.

### 3.3 FM Fax F3C

Appendix 1 to the Radio Regulations of the International Telecommunication Union (ITU) concerning frequency modulation, single channel containing analog information, and facsimile radio Electrical emission category identification.

### 3.4 Index of cooperation; IOC

The value of the cooperation index (M) is defined as.

$$M = LF$$

Where.

L - scanning line length, in centimeters (cm);

F - scan line density, unit is per centimeter (cm<sup>-1</sup>).