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

GB/T 7391-2025

Replacing GB/T 7391-2002

Terminology of oceanographic research vessels

海洋调查船术语

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 7391-2002 "Terminology for Oceanographic Survey Vessels". Compared with GB/T 7391-2002, the only changes are structural adjustments and editing. Aside from the sexual alterations, the main technical changes are as follows: 3.1.1.1 (2002 version 2.1.1); The term "naary researchship" was introduced, and its definition was changed (see 3.1.1.2,

2.1.2 in the.2002 edition).

c) Added the terms "professional survey vessel", "specialized survey vessel", "equipment testing vessel", "buoy operation vessel", "ocean drilling vessel", and "deep-sea maintenance vessel". "Support vessel", "Unmanned systems survey mother ship", "Intelligent survey vessel", "Low-speed seakeeping", "Seaworthiness", "Acoustic silence", "Electromagnetic compatibility", "Continued" "Navigational capacity", "Special wind

resistance", "Underwater radiated noise", "Anti-bubble leakage", "Temperature-controlled laboratory", "Clean laboratory", "CTD water sampling room" "Submersible Operation Laboratory", "Comprehensive Instrument Room", "Network Center", "Underground Seawater Laboratory", "Gas Cylinder Storage Room", and "Scientific Research Cold Storage" "Scientific research cold storage", "Scientific research operation control room", "Scientific research electrical maintenance workshop", "Acoustic equipment room", "Scientific research storage cabin", "Shielding operation vehicle" "Room", "Moon Pool Workshop", "Earthquake Gun Cable Winch", "Optical Cable Winch", "Buoy Towing Machine", "pi Type Hanger", "Sea Ice Observation Arm", "Gun Cable Support" "Frame", "CTD hoist", "Side scan sonar", "Surface velocity meter", "Single beam echo sounder", "Ultra-short baseline positioning system", "Fish finder", "All-round" Fish-finding sonar, weather radar, wind profiler radar, wave measuring radar, shipborne automatic weather station, online gas and aerosol composition analysis. Monitoring system, air-sea flux observation system, GPS atmospheric sounding system, cloud height instrument, microwave atmospheric temperature and humidity profiler, ice layer "Detection radar", "Marine gravimeter", "Marine magnetometer", "Marine magnetic gradiometer", "Seafloor seismometer", "Continuous surface seawater acquisition and..." Basic parameter monitoring system; steel cable; fiber optic cable; armored cable; coaxial cable; optical fiber cable; umbilical cable; CTD cable; take-up and release system "Unified", "Moon Pool", "Rising Fin Plate", "Sediment Column Sampler", "Long Column Sampler Deployment and Retrieval Device", "Unmanned Underwater Vehicle", "Remote Control" Unmanned underwater vehicle, autonomous underwater vehicle, remotely operated vehicle, underwater glider, television grab, seabed core sampling "Drilling rig," "submarine static cone penetrometer," and their definitions (see 3.1.1.3, 3.1.1.4, 3.1.1.18, 3.1.1.19, 3.1.1.20, 3.1.1.22). 3.1.1.23, 3.1.1.24, 3.1.2.4, 3.1.2.5, 3.1.2.6, 3.1.2.7, 3.1.2.8, 3.1.2.10, 3.1.2.12, 3.1.2.13 3.2.2.21, 3.2.2.22, 3.2.2.32, 3.2.2.33, 3.2.2.34, 3.2.2.35, 3.2.2.36, 3.2.3.1, 3.2.3.4, 3.2.3.5 3.2.3.10, 3.2.3.11, 3.2.3.12, 3.2.3.13, 3.2.3.14, 3.2.3.15, 3.3.1.18, 3.3.1.19, 3.3.1.20, 3.3.2.4 3.3.2.8, 3.3.2.9, 3.3.2.10, 3.3.3.1, 3.3.3.6, 3.3.3.11, 3.3.3.12, 3.3.3.13, 3.3.3.14, 3.3.3.15 3.3.3.16, 3.3.3.17, 3.3.3.18, 3.3.3.19, 3.3.3.20, 3.3.3.21, 3.3.3.22, 3.3.3.23, 3.3.3.24, 3.3.3.25 3.3.3.26, 3.3.3.27, 3.3.3.28, 3.3.3.29, 3.3.4.1, 3.3.4.2, 3.3.4.3, 3.3.4.4, 3.3.4.5, 3.3.4.6, 3.3.4.7 3.3.5.1, 3.3.5.2, 3.3.5.3, 3.3.5.5, 3.3.5.6, 3.3.5.8, 3.3.5.9, 3.3.5.10, 3.3.5.11, 3.3.5.12, 3.3.5.13 3.3.5.14, 3.3.5.15);

d) The terms "multi-purpose survey vessel," "biological survey vessel," "maritime surveillance vessel," "fisheries patrol vessel," "amphibious survey vessel," "low-speed propulsion," and "cryogenic" have been deleted. "Laboratory", "Sterile Laboratory", "Water Sampling and Measurement Room", "Helium Cylinder Storage Room", "Radio Sounder Calibration Room", "Wind Control Room", "Deep Thermometer Winch" "BT winch", "multi-drum winch", "automatic temperature, salinity and depth recorder", "saturation diving device" (see

2.1.3 of the 2002 edition). 2.1.6, 2.1.19, 2.1.20, 2.1.23, 2.2.3, 3.2.21, 3.2.22, 3.3.1, 3.3.2,

3.3.3, 3.3.11, 4.1.2, 4.1.17, 4.2.6 4.3.9); (See 3.1.1.5,

2.1.4 in the.2002 edition);

f) The term "acoustic survey vessel" was amended to include the parallel names "acoustic monitoring vessel" and "acoustic test vessel," and the definition of the term was changed (see [link to relevant documentation]). 3.1.1.6 (

2.1.7 in the.2002 version); The term "fishery researchship" was changed, and its definition was revised (see 3.1.1.7,

2.1.8 in the.2002 edition). expeditionship; polar research vessel; polar researchship", and changed the definition of the term (see 3.1.1.8 (

2.1.21 in the.2002 version); 2.1.5);

l) Change the English name of the term "sweeping vessel" to "sweepingvessel; sweeping survey vessel". The term "ship" was changed, and its definition was revised (see 3.1.1.12, 2.1.13 in the.2002 edition);

m) The terms "meteorological observation vessel", "weather vessel", "ice navigation", "dynamic positioning", "dry laboratory", "wet laboratory", and "physics" have been changed. Marine Laboratory, Marine Chemistry Laboratory, Marine Meteorology Laboratory, Marine Physics Laboratory, Marine Biology Laboratory, Marine Geological Laboratory, Geophysical Laboratory, Atmospheric Physics Laboratory, Marine Acoustic Laboratory, Seawater Chemistry Laboratory, Marine "Plankton Laboratory", "Marine Microbiology Laboratory", "Marine Biological Physiology and Ecology Laboratory", "Marine Benthic Organism Laboratory", "Sea..." "Marine Geology and Geomorphology Laboratory", "Fishing Equipment Laboratory", "Marine Pollution Monitoring Laboratory", "Isotope Laboratory", "Radio Wave Laboratory" "Room", "Containerized Laboratory", "Instrument Repair Room", "Biological Sample Bank", "Geological Sample Bank", "Earthquake Source Air Compressor Chamber", "Buoy System" "Unified winch", "underwater acoustic cable winch", "CTD cable winch", "CTD steel cable winch", "L-shaped hanger", "multibeam echo sounding system" Definitions (see 3.1.1.13, 3.1.1.14, 3.1.2.3, 3.1.2.11, 3.2.1.1, 3.2.1.2, 3.2.2.1~3.2.2.10, 3.2.2.13~) 3.2.2.17, 3.2.2.23~3.2.2.25, 3.2.2.30, 3.2.2.37, 3.2.3.2, 3.2.3.6~3.2.3.8, 3.3.1.11, 3.3.1.14 3.3.1.16, 3.3.1.17, 3.3.2.3, 3.3.3.10, and 2.1.14, 2.1.15, 2.2.4, 2.2.5, 3.1.1, 3.1.2, 3.2.1 (2002 edition). 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6, 3.2.7, 3.2.8, 3.2.9, 3.2.10, 3.2.13, 3.2.14, 3.2.15, 3.2.16, 3.2.17 3.2.23, 3.2.24, 3.2.25, 3.2.30, 3.2.32, 3.3.4, 3.3.7, 3.3.8, 3.3.9, 4.1.12, 4.1.15, 4.1.18, 4.1.19 4.3.3, 4.2.10);

1 Scope

GB/T 7391-2025 is the Chinese national standard covering the vocabulary of a research ship - the laboratories and the moon pool, the A-frame and the winches, the dynamic positioning and the quiet-ship requirements, and the survey and sampling operations the

vessel exists for. It replaces GB/T 7391-2002, in a period when China went from a handful of research ships to one of the largest fleets afloat. It was issued on 2 December 2025 and has been in force since 1 July 2026, replacing GB/T 7391-2002. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document defines the basic terminology for vessels engaged in marine scientific research and management, as well as their main laboratories and specialized equipment. definition. This document applies to the research, design, manufacture, use, and management of oceanographic research vessels.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1 Type

3.1.1.1 Oceanographic research vessel A general term for vessels used for marine scientific research, exploration, and other similar purposes.

3.1.1.2 Ships used for multidisciplinary surveys and research of the ocean. They are typically equipped with sections for hydrology, physics, chemistry, geology and geomorphology, biology, meteorology, and earth sciences. Physics and other laboratories.

3.1.1.3 Surveys are used to conduct specialized investigations and research on one or more disciplines within marine science, such as geophysical exploration and fisheries surveys. Inspect the ship.

3.1.1.4 Survey vessels used for special missions such as submersible support, polar exploration, space surveying, and ocean drilling.

3.1.1.5 A research vessel used for maritime teaching, internships, and scientific research.

Note. Laboratories are usually set up for hydrology, chemistry, physics, biology, geology and geomorphology, meteorology and navigation.