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

HY/T 0273.5-2021

**Technical directives for risk assessment and zoning of marine
disaster - Part 5: Sea level rise
(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 of Standardization Documents" Drafting.

This document is part 5 of HY/T 0273. HY/T 0273 has released the following parts.

---Part 1: Storm surge;

---Part 3: Tsunami;

---Part 5: Sea level rise.

This document was 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).

Drafting unit of this section. National Oceanic Information Center.

Introduction

Marine disaster risk assessment and zoning are important basic tasks for marine disaster prevention and mitigation, and effective response to marine disasters for local governments at all levels and planning and layout of coastal economic and social development has an important guiding role. HY/T 0273 is to guide governments at all levels to carry out marine disaster risk Basic and universal industry standards for assessment and zoning work. In view of the length of the document and the mechanism and cause of various marine disasters the reasons are different, HY/T 0273 is proposed to be composed of 5 parts.

---Part 1: Storm surge;

---Part 2: Waves;

---Part 3: Tsunami;

---Part 4: Sea ice;

---Part 5: Sea level rise.

Technical Guidelines for Marine Disaster Risk Assessment and Zoning Part 5.sea level rise

1 Scope

This document specifies the working principles of sea level rise risk assessment and zoning, the content and methods of work at the national and provincial scales, and Results management requirements, etc.

This document is suitable for carrying out risk assessment and zoning of sea level rise in coastal areas of China.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 12763.2 Ocean Survey Specification Part 2: Ocean Hydrological Observation GB/T 14914 (all parts) Specification for seaside observation GB 21139 Basic Geographic Information Standard Data Basic Regulations HY/T 058 Operational specification for ocean survey, observation and monitoring archives

3 Terms and definitions

The following terms and definitions apply to this document.

Sea level rise

A phenomenon in which the average sea level rises due to the melting of glaciers caused by global warming and the thermal expansion of seawater.

Risk of sea level rise the possibility of sea level rise occurring and its adverse consequences under certain conditions and within a certain period of time.

Sea level rise risk assessment riskassessmentofsealevelrise Assess and estimate the extent of sea level rise that may occur and its consequences.

Risk zoning of sea level rise Based on the results of the sea level rise risk assessment, the degree of sea level rise risk is divided into spatial and regional grades.

Hazard of sea level rise the degree of potential harm caused by sea level rise to disaster-bearing bodies in coastal areas.

Note: The main consideration is the role of natural factors, and the hazard factor intensity (scale), frequency (probability), etc. are used to describe.