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

GB/T 44485-2024

**Real time positioning grading service contents and data format
of BeiDou ground-based augmentation system**

北斗地基增强系统实时定位分级服务内容及数据格式

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	2
5 Basic Requirements	2
6 Service Content	2
6.1 Service Content Classification	2
6.2 Service Classification	3
6.3 Service Requirements	4
7 Data Format	4
7.1 General requirements	4
7.2 Open Service Data Format	4
7.3 License Service Data Format	4
7.4 Customizing the Telegram Data Format	6
8 Quality requirements	8
8.1 Open Service Quality Requirements	8
9 Reference	10

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. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed by the Ministry of Natural Resources of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee for Geographic Information Standardization (SAC/TC230). This document was drafted by: The Third Geodetic Survey Team of the Ministry of Natural Resources (the First Surveying and Mapping Engineering Institute of Sichuan Province), Wuhan University, and the National Surveying and Mapping Product Quality Inspection and Testing Center, Guangzhou Zhonghaida Satellite Navigation Technology Co., Ltd., Chinese Academy of Surveying and Mapping, Southwest Jiaotong University, Chengdu Xincheng Beidou Intelligent Network Co., Ltd. and 61287 Unit of the People's Liberation Army of China. The main drafters of this

document are. Chen Xianchun, Zhang Xi, Bao Hai, Liu Hui, Fang Shushan, Cai Yanhui, Li Chenggang, Nie Guigen, Shan Hongyu, Mi Jinzhong, Zhou Letao, Feng Wei, Yang Yonggang, Lin Guangqiang, Gao Shuai. Beidou Ground-Based Augmentation System Real-Time Positioning Grading Service Content and data format

1 Scope

GB/T 44485-2024 defines the graded real-time positioning services of the BeiDou ground-based augmentation system and the data formats they use. The national network of reference stations delivers corrections at several tiers - metre level open service, decimetre and centimetre level licensed services, and customised streams - and the grading exists because the corrections are a controlled national resource as much as a technical product: what a user receives depends on authorisation, and the format has to carry that distinction. The standard sets the basic requirements, the service content with its classification, the service grades and the requirements on each, the data formats for the open service, the licensed service and customised messages, and the quality requirements applying to each grade of service. It takes effect on 1 April 2025.

This document specifies the basic requirements, service content, and data format of the BeiDou Ground-Based Augmentation System real-time positioning tiered service. format and quality requirements. This document applies to the high-precision real-time positioning service of the Beidou Ground-Based Augmentation System within the land and ocean areas of my country.

2 Normative references

The contents of the following documents constitute 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 to This document.

GB/T 34966.3-2017 Satellite navigation augmentation information transmission over the Internet Part

3 Terms and definitions

The terms and definitions defined in GB/T 39611-2020 and GB/T 39267-2020 and the following apply to this document.

3.1 Positioning data service with a time delay of less than 6 seconds. [Source: GB/T 39611-2020, 5.2.2, modified]

3.2 Open Service Unconstrained services provided to users through public interface

protocols.

3.3 License Service licenseservice Services authorized through specific programs and provided to users through special license agreements.

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