



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

GB/T 51458-2024

**Standard for terminology of meteorological facilities
engineering**

气象设施工程技术语标准

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Foreword

This document was issued on 12 March 2024 by the Ministry of Housing and Urban-Rural Development of the PRC and the State Administration for Market Regulation and takes effect on 1 August 2024.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies.

The document runs to 71 pages. The identification, the dates, the classification and the table of contents on this page are taken from the cover and the printed contents of the standard itself.

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Its editing department is the China Meteorological Administration.

It was prepared under the 2019 engineering construction standards work plan of MOHURD, drawing on international and foreign advanced standards, and it closes with a Chinese and an English index of every term it defines.

1 Scope

GB/T 51458-2024 is the Chinese terminology standard for meteorological facilities engineering, and it is the reference that makes the vocabulary of the Chinese meteorological infrastructure programme readable. China operates one of the densest observing networks in the world, together with its own meteorological satellites, radar network, weather modification programme and lightning protection testing system, and the engineering terms for all of it are set here. The standard covers the general terms, then the integrated meteorological observation project, divided into space-based, air-based and ground-based observation and the support facilities for observation equipment, the ground-based section alone running to fourteen pages; then the meteorological information transmission facilities, covering the information network, the distribution and dissemination engineering and the operation and maintenance guarantee engineering; then the meteorological forecast and prediction project; then the meteorological service project, covering weather modification operations, lightning protection system engineering and lightning protection product testing; and finally the meteorological science research and the publicity and education projects. Chinese and English indexes close the document. It applies to the design, construction acceptance and operational management of meteorological facilities engineering.

3 Integrated meteorological observation project

Clause 3 is organised as follows: 3.1 Space-based meteorological observation project; 3.2 Air-based meteorological observation project; 3.3 Ground-based meteorological observation project; 3.4 Observation equipment support facilities project.

4 Meteorological information transmission facilities project

Clause 4 is organised as follows: 4.1 Meteorological information network engineering; 4.2 Meteorological information distribution and dissemination engineering; 4.3 Network facilities operation and maintenance guarantee engineering.

6 Meteorological service project

Clause 6 is organised as follows: 6.1 Weather modification operation engineering; 6.2 Lightning protection system engineering; 6.3 Lightning protection product test engineering.