ICS 07.060
CCS A 47

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 47319-2026

Guidelines for public meteorological disaster prevention - Lightning

公众气象灾害防御行为指南 雷电

Issued on: March 31, 2026 **Implemented on: July 1, 2026**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

Table of Contents

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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Meteorological Administration. This document is under the jurisdiction of the National Technical Committee on Standardization of Meteorological Disaster Prevention and Mitigation (SAC/TC345). This document was drafted by: Anhui Provincial Meteorological Disaster Prevention Technology Center, Hangzhou Tianhu Intelligent Technology Co., Ltd., Wannan University, and China Construction. Standard Design Institute Co., Ltd., Hefei Hanfang Technology Development Co., Ltd., Nanjing Meteorological Science and Technology Innovation Research Institute, Hebei Provincial Climate Center, Beijing Lightning Protection Device Testing Center, Hefei Meteorological Bureau, Ningbo Maxjie Technology Co., Ltd., China Meteorological Administration Meteorological Observation Center, Huaihe River River Basin Meteorological Center, Anhui Normal University, Beijing Meteorological Observation Center, Guangdong Climate Center, Xinjiang Uygur Autonomous Region Meteorological Technology Equipment Protection Center, Lianyungang Meteorological Bureau, Zhongshan Lightning Protection and Disaster Reduction Affairs Center, Suqian Meteorological Bureau, Chongqing Laiting Lightning Protection Technology Co., Ltd. The company, Ningxia Hui Autonomous Region Meteorological Disaster Prevention Technology Center, Huangshan Meteorological Bureau, and Anhui Huayun Meteorological Disaster Risk Assessment Center. The main drafters of this document are. Zhu Hao, Cheng Jie, Zhang Chunlong, Qiu Yangyang, Ju Xiaoyu, Liu Yan, Lian Yongjie, Li Gen, Liu Zimeng, Tang Wei, and Chen Jingen. Yin Qiyuan, Li Jingxiao, Du Kangyun, Zhang Gang, Sun Lan, Wang Yanhui, Sun Peng, Luo Zhiyong, Li Li, Tian

Fang, Cheng Danqiong, Zhang Lihua, Wang Zhongyang, Tu Yonggao Zhou Jiqiang, Zeng Yu, Ma Guidong, Liang Wenhua, Zhu Qianghua, Zhang Jiayi, Zhai Sheng, Zhuang Daoquan, Fu Yingying. Public Guidelines for Meteorological Disaster Prevention and Mitigation (Lightning)

1 Scope

GB/T 47319-2026 is the Chinese national standard covering what a person should actually do in a thunderstorm - indoors, outdoors, in the open, in a vehicle, on water - written as public guidance rather than as engineering. First edition, in force since 1 July 2026, under the China Meteorological Administration. It was issued on 31 March 2026 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the China Meteorological Administration. This page is published from the official record of the 2026 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 establishes general principles for public response to lightning disasters and provides recommendations for pre-disaster prevention, disaster mitigation, and post-disaster relief. This document applies to the prevention, defense, and relief efforts for lightning disasters to the general public.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Lightning lightning Strong electrical discharge phenomena in the atmosphere. [Source: GB/T 19663-2022, 3.2.1, with modifications]

3.2 Lightning Strike A discharge during a ground-to-ground flash. [Source: GB 50057-2010, 2.0.2]

3.3 Contact voltage The potential difference between accessible points that can be simultaneously touched by an organism. [Source: GB/T 19663-2022, 4.16]

3.4 step voltage The potential difference between two points on the ground, a distance of one step.

Note. This distance is taken as 1m in the direction of the maximum potential gradient. [Source: GB/T 19663-2022, 4.17]

3.5 Side Flashover When lightning strikes an object (or forms a lightning current path), the

potential difference between adjacent objects and the struck object (or the lightning current path) exceeds the threshold. This is a phenomenon where a breakdown discharge occurs due to the high breakdown field strength of the air, causing damage to nearby objects.

3.6 Lightning protection device A facility or system for protecting against lightning strikes, consisting of a lightning rod, down conductor, grounding device, surge protector, and its connecting conductors.