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

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**Level 1C data format of polar orbiting meteorological satellite
atmospheric vertical sounding data - Radiance**

极轨气象卫星大气垂直探测资料L1C数据格式 辐射率

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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.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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Atmospheric vertical sounding data from polar-orbiting meteorological satellites L1C data format radiometry

1 Scope

This document specifies the content and format of the L1C emissivity data from atmospheric vertical sounding of polar-orbiting meteorological satellites.

This document applies to the processing, exchange, and application of L1C emissivity data from atmospheric vertical sounding of domestic and international polar-orbiting meteorological satellites, and is also applicable to...

Processing, exchanging, and applying L1C radiometric data from polar-orbiting satellite imagers.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

A method of obtaining the vertical distribution of atmospheric elements and states based on satellite remote sensing technology.

3.2 radiance

The radiant flux of a radiation source within a unit solid angle over a unit projected area.

Note. The unit is watts per square meter steradian (W-m⁻²-sr⁻¹).

3.3

The absolute temperature of a blackbody when the radiation power of a gray body is equal to the radiation power of a blackbody. Note. The unit is Kelvin (K).

3.4 L1C data; Level1Cdata

Emissivity data from atmospheric vertical sounding by meteorological satellites.

Note 1. Includes brightness temperature, scan point observation time, scan point geographic information, observation geometric information, quality label, cloud coverage and precipitation label, etc.

Note 2. The applications of this data include numerical weather prediction satellite data assimilation, satellite data fusion, atmospheric parameter inversion, and weather monitoring.

4 Abbreviations

The following abbreviations apply to this document. A)

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