

ICS 91.120.25
CCS P 15

DB

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

DB/T 84-2020

**Database structure of satellite remote sensing data in
earthquake application
(English Translation)**

Issued on: March 30, 2020

Implemented on: July 1, 2020

Issued by: China Earthquake Administration

Table of Contents

Foreword
Introduction
1 Scope
2 Normative references
3 Terms, definitions and abbreviations
4 Data content
5 Database table naming
6 Database table structure
7 Basic technical requirements
Appendix A (informative appendix) Database framework diagram
Appendix B (Normative Appendix) Common satellite orbit type codes and sensor type codes
Reference

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 "Guidelines for Standardization Part 1: Standard Structure and Compilation".

This standard was proposed by the China Earthquake Administration.

This standard is under the jurisdiction of the Earthquake Monitoring and Prediction Standardization Technical Committee.

Drafting organizations of this standard. Institute of Crustal Stress, China Earthquake Administration, Institute of Earthquake Prediction, China Earthquake Administration, and Geological Research of China Earthquake Administration Institute, Peking University.

Introduction

In recent years, satellite remote sensing data has played an important role in earthquake monitoring and prediction, earthquake disaster prevention, and earthquake disaster emergency rescue. standardization the establishment of the satellite remote sensing database is particularly important for the effective management and sharing of data. To standardize the establishment of satellite remote sensing database in earthquake research it is urgent to combine the application status of remote sensing data in seismic work, establish database structure standards, and guide satellites related to seismic research.

The construction of remote sensing database.

Combining the development of remote sensing technology at home and abroad and the application status of the earthquake industry, and absorbing the construction of various remote sensing image databases in the earthquake industry in the past.

The results of the database are designed to standardize the structural design of the satellite remote sensing database in the seismic industry.

Satellite remote sensing seismic application database structure

1 Scope

This standard specifies the data content, database table naming, database table structure and basic technology of satellite remote sensing seismic application database Claim.

This standard applies to the construction and application of satellite remote sensing seismic application database.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 12343.1-2008 National Basic Scale Map Compilation Specification Part 1.1.25000 1.50,000 1.100,000 topographic map compilation specification GB/T 12343.2-2008 National Basic Scale Map Compilation Specification Part 2.1.250,000 Topographic Map Compilation Specification GB/T 12343.3-2009 National Basic Scale Map Compilation Specification Part 3.1.500,000 1.1,000,000 land Pictograph compilation specification GB/T 13989-2012 National Basic Scale Topographic Map Framing and Numbering GB/T 17798-2007 Geospatial Data Exchange Format GB/T 31011-2014 Remote sensing satellite raw data recording and exchange format GB/T 32453-2015 Classification and Classification Rules for Satellite Earth Observation Data Products DB/T 69-2017 Active Fault Exploration Remote Sensing Survey DB/T 80-2018 Earthquake disaster remote sensing evaluation product output technical requirements

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Vector data

The general term for spatial point, line, surface and other graphic data represented by coordinates or ordered coordinate strings and related attribute data.

[GB/T 14911-2008, definition 2.63] 3.1.2 Image the phenomenon is represented as an image through electrical and optical techniques.

Note: Rewrite GB/T 17694-2009, definition B.243.

3.1.3

Basic data

The data collected in earthquake monitoring and forecasting, earthquake disaster prevention, and earthquake disaster emergency rescue work only after basic processing and sorting, including basic Basic geographic data, basic geological data, basic topographic data, standard framing remote sensing mapping data and earthquake catalogs, etc.