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Identification of seismic waveform data channel

地震波形数据通道标识

(English Translation)

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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 of Standardization Documents" drafted.

Introduction

The seismic waveform data channel identifier is used to identify the seismic waveform data and instrument status information produced by the observation instruments of the seismic monitoring station.

At present, the identification code of seismic waveform data channel of my country's seismic network is based on the appendix of DB/T 2-2003 "Seismic Waveform Data Exchange Format".

It is designed in accordance with the relevant provisions of Record A. With the rapid development of earthquake monitoring business in my country, especially the National Earthquake Intensity Rapid Report and Early Warning Project to implement the purpose, the number of earthquake monitoring stations has increased significantly and involves a variety of observation instruments, tens of thousands of seismic, strong vibration, intensity and global navigation satellites the data from the monitoring stations of the system (GNSS) will be fused in the seismic network data processing system. The original channel identification code can no longer be full.

enough demand.

In order to achieve the goal of "multi-network integration, one network for multiple

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purposes", standardize the various channels of seismic, strong vibration, intensity and global navigation satellite system monitoring stations.

Waveform data identification, the development of this document.

Seismic Waveform Data Channel Identification

1 Scope

This document specifies the seismic waveform data channel codes and channel identification codes.

This document applies to seismic stations, strong vibration stations, earthquake intensity rapid reporting and early warning stations, and Global Navigation Satellite System (GNSS) datums Collection, management, processing and sharing of seismic waveform data from stations.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

DB/T 4 Coding Rules for Seismic Monitoring Stations DB/T 85 Seismic Monitoring Network Coding Rules

3 Terms and Definitions

The following terms and definitions apply to this document.

channel

The seismic signal is the digitized record output obtained after passing through the field monitoring station observation instrument and a set of specific filters.

[Source. DB/T 2-2003, 2.5.1, with modifications] 3.2 locationcode A code that identifies the location of the observation instrument to distinguish different data from multiple sensors under the same station.

A code identifying the network, monitoring station, instrument location, and channel that produces seismic waveform data.

4.1.1 Code Structure

The observation data channel code consists of 3 uppercase Latin letters or Arabic numerals. From left to right, the 1st digit is the instrument band code, from 1 uppercase

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Latin letter; the 2nd digit is the instrument type code, which is represented by 1 uppercase Latin letter; the 3rd digit is the orientation code, which is represented by 1 digit Uppercase Latin letters or Arabic numerals. The code structure is shown in Figure 1.

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