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

GB/T 18317-2009

Replacing GB/T 18317-2001

Classification and code for thematic map information

专题地图信息分类与代码

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Foreword

This standard replaces GB/T 18317-2001 "thematic map information classification and code." This standard compared with GB/T 18317-2001, the main changes are as follows:

- a) increasing the normative references.
- b) changed the original standard part of the structure, as well as to avoid the original standard relating to the class "geographical basis" and this standard "feature "Subclass conflict infrastructure, the" geographic base map content information "topic class Geomatics a subclass Classification and code directly references GB/T 13923 "fundamental geographic information features and classification codes" in the information classification and thematic map Code table is no longer reflected.
- c) rich thematic information content, increasing the current information society is closely related topics such as environmental protection, biological resources, gas Designate content resources and irrigation facilities. This standard was proposed by the State Bureau of Surveying and Mapping. This standard by the National Standardization Technical Committee on Geographical Information (SAC/TC230) centralized. This standard was drafted. Chinese Academy of Surveying and Mapping, Institute of Geographic Sciences and Natural Resources Research, National Geomatics in Heart, the National Development and Reform Commission of Macroeconomic Research Institute, construction of an integrated Survey and Design Institute. The main drafters of this standard. Wang Hong, Su Shan dance, Liao grams, Wang Yingjie, Li Li, Zeng Lan, Wang Dan, Tian Juan. This standard was first published in 2001. Thematic map information classification and code

1 Scope

GB/T 18317-2009 is the Chinese national standard on classification and code for thematic map information, in the field of natural and applied sciences. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most

foreign buyers meet it. It was issued on 6 May 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2009. Classification: ICS 07.040, CCS A75. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the classification and codes of thematic map information. This standard applies to thematic map database construction and management, including thematic maps classification, coding and management.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 16820 Map of academic language

GB/T 13923 fundamental geographic information features and classification codes

3 Terms and Definitions

And the following terms and definitions GB/T 16820 apply to this standard established.

3.1 Focus represents a natural or social phenomena in one or a few elements, namely the concentrated expression of a certain subject matter maps.

3.2 Outstanding represents a natural or social phenomena in one or a few elements of the map information, including the thematic content elements, and additional representation Map description. 4 information classification, coding principles and methods

4.1 Information classification principles

4.1.1 thematic map information as the main content classification object, taking into account the means of expression and thematic maps and other cartographic information Maps Help Elements.

4.1.2 Scalability principle, various thematic map information to form a multi-level overall, while maintaining its open, scalable Sex, classification and coding system for the expansion content to stay out of a larger code space.

4.1.3 thematic map content information classified for content elements feature classification

system formed a scientific and systematic. A subclass from the natural, social, Environmental aspects of classification; two subclasses, three sub-categories according to the professional or trade general classification, taking into account the practicability of thematic mapping classification.

4.1.4 Thematic maps based geographic information classification and code by GB/T 13923 execution.

4.1.5 Complex thematic content information by subject classification.

4.2 Information coding principles

4.2.1 normative principles, the structure of the code, the type and the preparation of a unified format for easy retrieval and call system.

4.2.2 The principle of rationality, structure and classification system of information coding system to adapt levels reflect the objective system and associated mechanism Characteristic lines.

4.2.3 practicability principle, meaning the code clearly reflects the characteristics of the elements to help memory.

4.2.4 simplicity principle, structure of the code as simple as possible, as short as possible.

4.2.5 The principle of equal length, no matter how much the number of mid-level classification system, which is equal to the code length.