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

GB/T 32853-2016

**Geographic information -- Feature concept dictionaries and
registers**

地理信息 要素概念字典与注册簿

(English Translation)

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 19126.:2009 (E) "Geographic Information Element Concept Dictionary and Register".

And the normative reference in this standard international documents are consistent with the relationship between China's documents are as follows.

Geographic Information Metadata (ISO 19115.:2003, MOD) for the convenience of use, the standard of the original standard made the following editorial changes.

The "ISO 19100 series of standards" according to the specific circumstances of the "Geographic Information Series National Standard" or "Geographic Information Series National Standard Quasi and ISO 19100 series of standards. " this standard is proposed by the National Geographic Information Bureau.

This standard is under the jurisdiction of the National Geographic Information Standardization Technical Committee (SAC/TC230).

The drafting of this standard. Institute of Geographic Sciences and Resources, Chinese Academy of Sciences, Fujian Normal University, Beijing Shanhai Ke Shi Information Technology Limited Company, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing Normal University, Eurasian System Science Research Society.

Introduction

This standard specifies a model for managing the concept of geographical elements in a register. Geographic elements according to the description in ISO 19101 is an abstraction of the real world phenomenon associated with the surface of the earth. Data collection, maintenance and distribution around these elements.

The conceptual dictionary provides basic definitions and related beliefs for describing

geographic features and a range of concepts that are shared across multiple application areas interest. Elements The elements in the concept dictionary can be applied repeatedly to one or more feature directories. The feature catalog is usually associated with a particular application Type, product specification, or dataset, providing a complete text specification for a set of feature types and their characteristics and relationships. Factor concept dictionary, refer to Appendix A for an in-depth discussion of the relationship between element catalogs, application patterns, and product specifications.

ISO 19135 specifies the registration procedure for geographic information items. Registered geographic information items are such as ISO/TC211 Some of the object classes specified in the technical standards. This standard defines object classes and is developed to establish and maintain compliance with ISO 19135 the rules of the conceptual dictionary of the elements of the registration model.

ISO 19135 specifies the structure of the hierarchical registration, where the master register contains a series of items describing the child registry. This standard specifies Hierarchical register mode, sub-registries as feature concept dictionaries and/or feature directories. This standard specifies the supplemental pattern, resulting from the points Level registries can serve as a basis for coordination and interoperability between different geographic information societies.

Elements that are maintained in the form of a registry Concepts and feature catalogs can be used as part of a cross-reference system for other geographic information the establishment of a similar register. If the structure of the registry between different information societies is different, it will result in the registration of the geographic information item Cross-references between the corresponding items are difficult. This standard can be used as a standard for the development of compatible registries between different information societies Support geographic information cross-reference system.

Digital Geographic Information Working Group

(DigitalGeographicInformationWorkingGroup, DGIWG) Element Concept Dictionary and the register as an example of this standard implementation.

Geographic Information Element Concepts Dictionary and Register

1 Scope

This standard specifies a model for the establishment and management of the conceptual dictionary as a registry, without the inclusion of elements or elements Record management as a model of the register. Often the feature catalog is derived from the feature concept dictionary, so this standard specifies the concept dictionary and the the hierarchical register mode of the catalog. These registrations are consistent with ISO 19135.

2.1 Overview

In keeping with this standard, all the conditions of at least one of the following two types of coherence clauses shall be met.

2.2 Consistency of conceptual concepts

Any conceptual dictionary that claims to be consistent with this standard should meet all the conditions in the following abstract test suites.

- a) Consistent with ISO 19135, subject to ISO 19135.:2005 A.1;
- b) This standard B.2.

The established conceptual concept dictionary register should also meet all the conditions specified in the ISO 19135 Register Abstraction Test Suite (ISO 19135.:2005, A.3).

2.3 Elements Concepts Dictionary registration and/or element directory consistency

Any elements that are claimed to be consistent with this standard The concept dictionary and/or element catalogs should meet the requirements of the following abstract test suite Conditional.

- a) Consistent with ISO 19135, subject to ISO 19135.:2005 A.1;
- b) Consistency as a classification register with ISO 19135 shall meet A.2 of ISO 19135.:2005;
- c) comply with this standard B.3.

The established conceptual dictionary and/or element catalog registries should also meet the requirements specified in the ISO 19135 Register Abstraction Test Suite Conditional (ISO 19135.:2005, A.3).

3 Normative references

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

GB/T 28585-2012 Geographic Information Element Cataloging Method (ISO 19110.:2005, IDT) ISO/T S19103..2005 Geographic information conceptual model language (Geographicinformation-Conceptualschema language ISO 19115.:2003 Geographic information-Metadata ISO 19135.:2005 Geographic information project registration procedure (Geographicinformation-Proceduresforitemregis-tration