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

GB/T 19710.2-2016

**Geographic information -- Metadata -- Part 2: Extensions for
imagery and gridded data**

地理信息 元数据 第2部分：影像和格网数据扩展
(English Translation)

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Foreword

GB/T 19710 "Geographic Information Metadata" is divided into two parts.

--- Geographic information metadata;

Part 2. Image and grid data expansion.

This part is part 2 of GB/T 19710.

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

This part uses the translation method equivalent to ISO 19115-2.:2009 "Geographic Information Metadata Part 2. Image and Grid Data Extensions Exhibition "(English version).

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

Geographic Information Metadata (ISO 19115.:2003, MOD) Geographic information metadata XML schema implementation (ISO/T S19139..2007, MOD) this section makes the following editorial changes.

--- image and grid data metadata packet data dictionary to retain the English name column, an increase of the corresponding Chinese name column;

--- B.2.3.4 The maximum number of occurrences of line 44 in the set of ground control points is changed from "*" to "N";

--- B.2.5.8 The maximum number of occurrences of line 118 in the platform logo is changed from "1" to "N";

--- Added data Appendix NA, in the form of a table to describe the Chinese and English names.

This section is proposed by the National Mapping Geographic Information Service.

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

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Introduction

Image and grid data are important information sources and products in geographic information systems that follow one or more production chains and begin Data sources such as remote sensing data, scans, ground data, etc., end in the final data product. For the continuous control of the quality of products from beginning to end, the production process needs to be documented. In addition, in order to maintain the production process, it is necessary to retain the geometric information in the measurement process associated with the original data Interest and measurement device characteristics of the metadata.

The International Standard "Geographic Information Metadata" (ISO 19115.:2003) defines metadata elements that provide a model and determine a set of links Using metadata terminology, defining and extending the method, but the standard is not sufficient to describe the image and grid data, thus extending the existing metadata standards, Provides additional data structures for image and grid data.

This section is an extension of the International Standard Geographic Information Metadata (ISO 19115.:2003), which describes the transition from raw data to geographic information. Generate the metadata needed for the image and grid data during the generation process, specifying the set of image and grid data metadata entities, data quality, and space Representation, content, access and other information.

This section is for the data and grid data found to determine the degree of data applicable, data access, data conversion, data use to provide metadata base to guide geographic information system developers, image and grid data producers and users.

Geographic Information Metadata Part 2. Image and grid data expansion

1 Scope

This part of GB/T 19710 extends the existing geographic information by defining the framework necessary to describe the image and grid data Metadata standards. Provides information on the characteristics of the data acquisition instrument, the geometric properties of the instrument measurement process, the production of digitized raw data Process and other information. Describes the metadata needed to derive the geographic information from the original data, including the measurement system in the production process Sex, processing methods and calculation process. The International Standard Geographic Information Metadata (ISO 19115.:2003) has provided general coverage data Metadata.

2.1 Consistency requirements

Chapter 6 and Appendix A, Appendix B, are described in Chapter 6 and Appendix A of ISO 19115.:2003, also in Appendix B Metadata.

User-defined extension metadata is defined and described in Appendix C in ISO 19115.:2003.

Any metadata that claims to be consistent with this part shall meet the abstract test set presented in Appendix D of Appendix C and ISO 19115.:2003 in the request.

2.2 Metadata-specific standards

Any special standard consistent with this part shall be consistent with the rules of C.6 in Appendix 19 of ISO 19115.:2003.

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.

Geographic information space model (ISO 19107.:2003, IDT) GB/T 23707-2009 ISO/T S19103..2005 Geographic information conceptual model language
(Geographicinformation-Conceptualschema language ISO 19115.:2003 Geographic information-Metadata ISO/T S19139..2007 Geographic information-Metadata-XMLschemaimplementation)

4 Terms and definitions

The following terms and definitions apply to this document.

Attribute

The properties of a class, describing the range of values that may be of value for an instance of the class.