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

**GB/T 35653.1-2017**

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**Geographic information -- Content components and encoding  
rules for imagery and gridded data -- Part 1: Content model**

地理信息影像与格网数据的内容模型及编码规则 第1部分：内容模型

**(English Translation)**

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## Foreword

GB/T 35653 "Geographic Information Graphics and Geodata content model and coding rules" to be divided into several parts.

This section GB/T 35653 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO/T S19163-1.2016 "geographic information imaging and grid data content model and coding Code Rules Part 1. Content Model. " this section proposed by the National Geographic Information Bureau.

This part of the National Geographic Information Standardization Technical Committee

(SAC/TC230) centralized.

This part of the drafting unit. Wuhan University, Shenzhen University, the National Basic Geographic Information Center, Beijing Time Weiwei Software Co., Ltd., Wu big Austrian Information Technology Co., Ltd.

## 1 Scope

GB/T 35653 of this section based on attribute features, sensor types and spatial characteristics of the image and the rules of the grid data points Class for each type of data necessary to define the components of the coding has nothing to do with the content model and the definition of logical data structure and based on the structure of the content the rules for encoding features.

The binding of content to a specific encoding format will be defined later in this section.

This section does not cover lidar (LiDAR) and sonar (SONAR) data as well as geodetic grid data.

The logical data structures and encoding rules for content elements are defined later in this section.

## 2 Consistency

This section defines the classification of the thematic data for images and rules and their core content models and defines for each data type A consistent category, any statement consistent with this section of the image and rules grid thematic datasets should meet Appendix A Abstract Test Suite the corresponding requirements.

## 3 Normative references

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

ISO 19103:2015 Geographic information concept pattern language  
(Geographicinformation-Conceptualchemalan-guage ISO 19111 Geographic Information Based on the spatial reference (Geographicinformation-SpatialReferencebyco-ordinates)  
ISO 19115-1-2014 Geographic Information Metadata Part 1. Basic  
(Geographicinformation-Metadata-Part 1: Fundamentals) ISO 19115-2-2009 Geographic Information Metadata Part 2. Image and Grid Data (Geographicinformation-Metadata-Part 2: Extensionsforimageryandgriddeddata) ISO 19123:2005 Geographic information coverage geometry and function model  
(Geographicinformation-Schemaforcov-eragegeometryandfunctions) ISO/T S19101-2-2008 Geographic Information Reference Model Part 2. Geographic

Information-Referencemodel-Part 2: Imagery) ISO/T S19130.2010 Geographic information image sensor geolocation model (Geographicinformation-Imagery sensormodelsforgeopositioning) ISO/T S19159-1.2014 Geographic Information Remote Sensing Image Sensor Calibration and Verification Part 1. Optical Sensors (Geo-graphicinformation-Calibrationandvalidationofremotesensingimagerysensorsanddata-Part 1.

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