

Irish Standard I.S. EN ISO 19115-2:2010

Geographic information - Metadata - Part 2: Extensions for imagery and gridded data (ISO 19115-2:2009)

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EN ISO 19115-2:2010 (E)

Foreword

The text of ISO 19115-2:2009 has been prepared by Technical Committee ISO/TC 211 "Geographic information/Geomatics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 19115-2:2010 by Technical Committee CEN/TC 287 "Geographic Information" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2010, and conflicting national standards shall be withdrawn at the latest by July 2010.

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Partie 2: Extensions pour les images et les matrices



ISO 19115-2:2009(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 19115-2 was prepared by Technical Committee ISO/TC 211, Geographic information/Geomatics.

ISO 19115 consists of the following parts, under the general title Geographic information — Metadata:

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

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Introduction

Imagery and gridded data are important information sources and products used within a geospatial environment by geographic information systems. The production of imagery and gridded data follows one or more process chains that begin with remote sensing data, scanned maps, field data collection or other sensing methods and end with the creation of the end data products. The production process needs to be documented in order to maintain quality control over the end products. In addition, metadata about the geometry of the measuring process and the properties of the measuring equipment need to be retained with the raw data in order to support the production process.

Within the suite of ISO geographic information standards, ISO 19115 defines the guidelines for describing geographic information and services. While the ISO 19115 metadata model does provide some provisions for imagery and gridded data, the requirements were not fully developed at the time ISO 19115:2003 was drafted. To permit the development of ISO 19115 to proceed, inclusion of metadata definitions for imagery and gridded data was deferred until the framework for these data was more fully specified within the suite of ISO geographic information standards. Additionally, other standards that implement metadata for imagery and gridded data have been surveyed and are described in ISO/TR 19121.

The object of this part of ISO 19115 is to provide the additional structure to more extensively describe the derivation of geographic imagery and gridded data. This structure is intended to augment ISO 19115.

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Geographic information — Metadata —

Part 2:

Extensions for imagery and gridded data

1 Scope

This part of ISO 19115 extends the existing geographic metadata standard by defining the schema required for describing imagery and gridded data. It provides information about the properties of the measuring equipment used to acquire the data, the geometry of the measuring process employed by the equipment, and the production process used to digitize the raw data. This extension deals with metadata needed to describe the derivation of geographic information from raw data, including the properties of the measuring system, and the numerical methods and computational procedures used in the derivation. The metadata required to address coverage data in general is addressed sufficiently in the general part of ISO 19115.

2 Conformance

2.1 Conformance requirements

Metadata shall be provided as specified in Clause 6 and Annexes A and B of this part of ISO 19115 and ISO 19115:2003, Clause 6 and Annexes A and B.

User-defined metadata extensions to this part of ISO 19115 shall be defined and provided as specified in ISO 19115:2003, Annex C.

Any metadata claiming conformance with this part of ISO 19115 shall pass the requirements described in Annex C of this part of ISO 19115 and the abstract test suite presented in ISO 19115:2003, Annex D.

2.2 Metadata profiles

Any profile conforming to this part of ISO 19115 shall conform to the rules for creating a profile given in ISO 19115:2003, C.6.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/TS 19103:2005, Geographic information — Conceptual schema language

ISO 19107:2003, Geographic information — Spatial schema

ISO 19115:2003, Geographic information — Metadata

ISO/TS 19139:2007, Geographic information — Metadata — XML schema implementation



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