

Australian/New Zealand Standard™

Geographic information—Metadata

**Part 2: Extensions for imagery and
gridded data**



AS/NZS ISO 19115.2:2011

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-004, Geographical Information/Geomatics.

The objective of this Standard is to extend the existing geographic metadata Standard AS/NZS ISO 19115 by defining the schema required for describing imagery and gridded data.

This Standard is identical with, and has been reproduced from ISO 19115-2:2009, *Geographic information—Metadata—Part 2: Extensions for imagery and gridded data*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text ‘this part of ISO 19115’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO/TS		AS/NZS ISO	
19103	Geographic information—Conceptual schema language	19103	Geographic information—Conceptual schema language
19139	Geographic information—Metadata—XML schema implementation	19139	Geographic information—Metadata—XML schema implementation
ISO			
19107	Geographic information—Spatial schema	19107	Geographic information—Spatial schema
19115	Geographic information—Metadata	19115	Geographic information—Metadata

The term ‘normative’ has been used in this Standard to define the application of the annex to which it applies. A ‘normative’ annex is an integral part of a Standard.

CONTENTS

1	Scope	1
2	Conformance	1
2.1	Conformance requirements	1
2.2	Metadata profiles	1
3	Normative references	1
4	Terms and definitions	2
5	Symbols and abbreviated terms	5
5.1	Abbreviations	5
5.2	UML notations	5
5.3	UML model relationships	6
5.4	UML model stereotypes	7
6	Imagery and gridded data metadata	8
6.1	Metadata for geospatial imagery and gridded data requirement.....	8
6.2	Imagery and gridded data metadata packages.....	8
6.3	Unified Modeling Language (UML) diagrams	12
6.4	Data dictionary	12
Annex A (normative)	Imagery and gridded data metadata schemas.....	13
Annex B (normative)	Imagery and gridded data metadata data dictionary	22
Annex C (normative)	Conformance.....	40
Bibliography		43

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.

AUSTRALIAN/NEW ZEALAND STANDARD

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*