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GB/T 41448-2022

Geographic information - Observations and measurements

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is equivalent to ISO 19156.2011 "Geographic Information Observation and Measurement".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies a conceptual model for observations and the sampling elements involved. It provides observations within and among different scientific and technological communities

Behaviors and their outcome descriptions provide a model for information exchange.

Observations usually involve sampling the final element of interest. This document specifies a set of generic sampled feature classes classified primarily by topological dimensions

type and samples for ex situ observations. The schema includes relationships between sampled features (subsampling, derived sampling).

This document only focuses on the visible external interface, and does not limit the internal implementation, which is different from the interface specification for the actual environment.

2.1 Overview

Chapters 7 through 11 of this document use the Unified Modeling Language (UML) to describe conceptual schemas for describing observations. Concept classes

To define these concept classes.

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a) It can be used to build application modes of cross-domain,

b) Can also be used in application schemas, specific standards, implementation specifications.

A set of UML types that can be implemented in a variety of ways controls its flexibility. Familiar alternative names can be used in specific fields

name, but provide a one-to-one correspondence table with the classes and attributes of this document.

The UML models in this document define conceptual classes, various software systems define implementation classes or data structures, all of which

Definitions refer to the same information content. Implementations can use the same names as in this model, so the types defined in the UML model

Can be used directly in application mode.

Appendix A specifies a set of conformance tests that support an application from defining minimum requirements for data structures to full object implementation.

current full requirements.

2.2 Conformance classes associated with application modes involving observations and measurements

ISO 19109.2005 describes general conformance rules for application schemas. Application schemas that claim to be consistent with this document shall comply with the

The rules specified in Chapters 7 to 11, and the tests of the relevant abstract test suite specified in Appendix A are passed.

According to the characteristics of the application mode, 18 consistency classes are divided. Table 1 lists these classes and their corresponding subclasses to the abstract test suite

entry.

Table 1 Conformance classes related to observation and measurement application modes

Consistency class Chinese name Consistency class English name sub-entry

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