

ISO 19127:2019 (E)

Geographic information — Geodetic register

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Conformance
5	Geodetic register management roles and responsibilities
6	Geodetic register management rules and procedures
6.1	Introduction
6.2	Unmodified ISO 19135-1:2015 requirements
6.3	Modified ISO 19135-1:2015 requirements
6.4	Additional requirements
7	Terms of reference of the control body for the ISO geodetic register
8	Geodetic register content requirements
8.1	Geodetic register content from ISO 19135-1:2015
8.2	Geodetic register content from ISO 19111:2007
8.3	Geodetic register additional and modified content requirements
9	ISO geodetic registry data export
Annex A	(normative) Abstract test suite
A.1	Geodetic register management roles and responsibilities
A.2	Geodetic register management rules and procedures
A.3	Geodetic register content
A.4	Publication of register contents
Annex B	(normative) Register of geodetic codes and parameters
Annex C	(informative) Best practices for the ISO geodetic register content
C.1	Introduction
C.2	The representation of degrees
C.3	Coordinate systems
C.3.1	Coordinate system axis direction
C.3.2	Coordinate system axis order and axis abbreviation
C.3.3	Coordinate system units
C.4	Coordinate operations
C.4.1	Coordinate operation methods
C.4.2	Coordinate operation reversibility
C.4.3	Coordinate transformation direction
C.4.4	Coordinate operation parameter value units
C.4.5	Zoned map projections
C.5	Ellipsoid parameters
C.6	Extent
C.6.1	General
C.6.2	Bounding box

- C.6.3 Bounding polygon
- C.6.4 Temporal extent
- C.7 Element naming
 - C.7.1 General
 - C.7.2 Names and abbreviations
 - C.7.3 Coordinate systems
 - C.7.4 Datums
 - C.7.5 Geographic coordinate reference systems
 - C.7.6 Geocentric Cartesian coordinate reference systems
 - C.7.7 Map projections
 - C.7.8 Projected coordinate reference systems
 - C.7.9 Vertical coordinate reference systems
 - C.7.10 Compound coordinate reference systems
 - C.7.11 Coordinate transformations
- C.8 Transformation version
- C.9 Grid lookup table

Annex D (informative) Metadata

- D.1 Metadata for the ISO geodetic register dataset
- D.2 Metadata for the ISO geodetic registry
- D.3 Data usage
 - D.3.1 Definitions
 - D.3.2 Data facilities

Annex E (informative) Requirements list

Page count: 41