

ISO 19165-1:2018-05 (E)

Geographic information - Preservation of digital data and metadata - Part 1: Fundamentals

| Contents | | Page |
|-----------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Abbreviated terms and conventions | 8 |
| 4.1 | Abbreviated terms | 8 |
| 4.2 | Conventions | 8 |
| 5 | Conformance | 9 |
| 6 | Preservation | 9 |
| 6.1 | Prioritization | 9 |
| 6.2 | Structure | 9 |
| 6.2.1 | Data format | 9 |
| 6.2.2 | Data structures | 10 |
| 6.2.3 | Software and algorithms | 10 |
| 6.2.4 | Properties of geospatial data | 10 |
| 6.2.5 | Gold copy | 11 |
| 6.3 | Rights/licensing | 11 |
| 6.4 | Time | 11 |
| 7 | Geospatial information model | 12 |
| 7.1 | Overview | 12 |
| 7.2 | Designated community | 14 |
| 7.3 | Metadata | 15 |
| 7.3.1 | Introduction to metadata | 15 |
| 7.3.2 | Preservation metadata classes | 15 |
| 7.3.3 | Data identifiers | 16 |
| 7.3.4 | Data, product and format specifications | 17 |
| 7.3.5 | Preservation actions | 18 |
| 7.3.6 | Association of resources | 19 |
| 7.3.7 | Value and strategy | 20 |
| 7.3.8 | Fixity | 21 |
| 7.3.9 | Information package description | 22 |
| 7.3.10 | Acquisition | 23 |
| 7.3.11 | Coordinate reference system | 24 |
| 7.4 | Open Packaging Convention (OPC) | 25 |
| Annex A (normative) | Abstract test suite | 27 |
| Annex B (normative) | Data dictionary | 31 |
| Annex C (informative) | Case-specific archival concept | 38 |
| Annex D (normative) | Functional requirements for a preservation archive | 39 |
| Bibliography | | 41 |