Anexa nr. 1

 la Regulamentul cu privire la normele

de aplicare care stabilesc modalitățile

tehnice de interoperabilitate și armonizare

a seturilor și serviciilor de date spațiale

**Referințele tehnice pentru crearea seturilor de date spațiale**

**din anexele 1-3 la Legea nr. 254 din 17 noiembrie 2016 cu privire**

**la infrastructura națională de date spațiale**

|  |  |  |
| --- | --- | --- |
| Nr.crt. | Denumirea | Standardele din specificațiile pentru datele spațiale INSPIRE |
| **I. Seturile de date din anexa nr.1 la Legea nr. 254 din 17 noiembrie 2016** **cu privire la infrastructura națională de date spațiale** |
| 1. | Sisteme de coordonate de referință | 1. SM IHO TRA 2.5 – Datumsandbenchmarks in IHO M3 Resolutions of theinternationalHydrographicOrganization;
2. SM IHO S32 – Hydrographic Dictionary, 5th edition;
3. SM IHO S44 – Standards for HydrographicSurveys, 5th edition;
4. SM ISO 2533 – International Standard Atmosphere;
5. SM ISO 6709 – Standard representation of geographicalpointpositionbycoordinates;
6. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
7. SM ISO 19111-2 – Geographic information – Spatial referencing by coordinates – Part 2: Extension for parametric values;
8. SM ISO 19115 – Geographic information – Metadata;
9. SM ISO/TS 19127 – Geographic information – Geodetic codes and parameters;
10. SM ISO 19135 – Geographic information – Procedures for item registration
 |
| 2. | Sisteme de caroiaj geografic | 1. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
2. SM ISO 19111-2 – Geographic information – Spatial referencing by coordinates – Part 2:Extention for parametric values;
3. SM ISO 19115 – Geographic information – Metadata;
4. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
5. SM ISO 19129 – Geographic information – Imagery, Griddedandcoverage data framework;
6. SM ISO 19135 – Geographic information – Procedures for item registration
 |
| 3. | Denumiri geografice | 1. SM ISO 15924 – Codes for the representation of names of scripts;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19108 –­ Geographic information – Temporal Schema;
4. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
5. SM ISO 19111 –­Geographic information –Spatial referencing by coordinates;
6. SM ISO 19112 – Geographic information – Spatial referencing by geographic identifiers;
7. SM ISO 19113 – Geographic information – Quality principles;
8. SM ISO 19115 – Geographic information – Metadata;
9. SM ISO 19118 –­ Geographic information – Encoding;
10. SM ISO 19123 ­– Geographic information – Schema for coverage geometry and functions;
11. SM ISO 19125-1 –­ Geographic information – Simple feature access – Part 1: Common architecture;
12. SM ISO 19135 – Geographic information – Procedures for item registration;
13. SM ISO 19136 – Geographic information – Geography Markup Language (GML);
14. SM ISO 19137 ­– Geographic information – Core profile of the spatial schema;
15. SM ISO 19138 –­ Geographic information – Data quality measures;
16. SM ISO 19139 –­ Geographic information – Metadata – XML schema implementation;
17. SM ISO 19157 –­ Geographic information – Data quality;
18. SM ISO 639-2 –­ Codes for the representation of names of languages - Part 2: Alpha-3 Code;
19. SM ISO 639-3 ­– Codes for the representation of names of languages - Part 3: Alpha-3 code forcomprehensive coverage of languages;
20. SM ISO 639-5 – ­Codes for the representation of names of languages - Part 5: Alpha-3 code for language families and groups;
21. SM OGC 06-103r4 –­ Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 4. | Unități teritorial-administrative | 1. SM ISO 19107 ­– Geographic information – Spatial Schema;
2. SM ISO 19108 –­ Geographic information – Temporal Schema;
3. SM ISO 19108-c –­ Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 ­– Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 –­ Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – ­Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 ­– Geographic information – Procedures for item registration;
11. SM ISO 19138 ­– Geographic information – Data quality measures;
12. SM ISO 19139 –­ Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM ISO 3166-1 – Codes for the representation of names of countries and their subdivisions – Part 1: Country codes;
15. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 5. | Adrese | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – ­Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 ­– Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 6. | Terenuri | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and function;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO/DS 19152 – Geographic information – Land Administration Domain Model;
14. SM ISO 19157 – Geographic information – Data quality;
15. SM OGC 06-103r4 –­ Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 7. | Rețele de transport  | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19113 – Geographic information – Quality principles;
3. SM ISO 19115 – Geographic information – Metadata;
4. SM ISO 19118 – Geographic information – Encoding;
5. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
6. SM ISO 19135 – Geographic information – Procedures for item registration;
7. SM ISO 19138 – Geographic information – Data quality measures;
8. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
9. SM ISO 19157 –Geographic information – Data quality;
10. SM OGC 06-103r4 –­ Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 8. | Hidrografie | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 –Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 –­ Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 9. | Arii naturale protejate de stat și zone de protecție | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c –Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| **II. Seturile de date din anexa nr.2 la Legea nr. 254 din 17 noiembrie 2016** **cu privire la infrastructura națională de date spațiale** |
| 10. | Elevație | 1. SM ISO 19105 – Geographic information –Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19108 –Geographic information – Temporal Schema;
4. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
5. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
6. SM ISO 19113 – Geographic information – Quality principles;
7. SM ISO 19115 – Geographic information – Metadata;
8. SM ISO 19118 – Geographic information – Encoding;
9. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
10. SM ISO 19135 – Geographic information – Procedures for item registration (ISO 19135:2005);
11. SM ISO/TS 19138 – Geographic information – Data quality measures;
12. SM ISO/TS 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO/DIS 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 ­– Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 11. | Acoperire terestră | 1. SM ISO 19105 – Geographic information – Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
4. SM ISO 19113 – Geographic information – Quality principles;
5. SM ISO 19115 – Geographic information – Metadata;
6. SM ISO 19118 – Geographic information – Encoding;
7. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
8. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
9. SM ISO 19135 – Geographic information – Procedures for item registration;
10. SM ISO 19138 – Geographic information – Data quality measures;
11. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
12. SM ISO 19144-1 – Geographic information – Part 1: Classification system structure
 |
| 12. | Ortoimagini | 1. SM ­ ISO/TS 19103 – Geographic information – Conceptual schema language;
2. SM ­ ISO 19107 – Geographic information – Spatial Schema;
3. SM ­ ISO 19108 – Geographic information – Temporal Schema;
4. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
5. SM ­ ISO 19109 – Geographic information – Rules for application schema;
6. SM ­ ISO 19111 – Geographic information – Spatial referencing by coordinates;
7. SM ­ ISO 19113 – Geographic information – Quality principles;
8. SM ISO 19115 – Geographic information – Metadata;
9. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
10. SM ISO/TS 19127 – Geographic information – Geodetic codes and parameters;
11. SM ISO 19131 – Geographic information – Data product specifications;
12. SM ISO/TS 19138 – Geographic information – Data quality measures;
13. SM ISO/TS 19139 – Geographic information – Metadata – XML schema implementation;
14. SM ISO 19156 – Geographic information – Observations and measurements;
15. SM ISO 19157 – Geographic information – Data quality;
16. SM OGC 06-103r3 –­ Implementation Specification for Geographic Information –Simple feature access – Part 1: Common Architecture v1.2.0
 |
| 13. | Geologie | 1. SM ISO 19105 – Geographic information –Conformance and testing;
2. SM ISO 19105 – Geographic information – Conformance and testing ISO 19107, Geographic Information – Spatial Schema;
3. SM ISO 19108 – Geographic information – Temporal Schema;
4. SM ISO 19108-c –Geographic information – Temporal Schema, Technical Corrigendum 1;
5. SM ISO 19111 – Geographic information – Spatial referencing by coordinates (ISO 19111:2007);
6. SM ISO 19113 –Geographic information – Quality principles;
7. SM ISO 19115 – Geographic information – Metadata;
8. SM ISO 19118 –Geographic information – Encoding;
9. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
10. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
11. SM ISO 19135 – Geographic information – Procedures for item registration;
12. SM ISO 19138 –Geographic information – Data quality measures;
13. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
14. SM ISO 19157 – Geographic information – Data quality;
15. SM OGC 06-103r4 ­– Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| **III. Seturile de date din anexa nr.3 la Legea nr. 254 din 17 noiembrie 2016** **cu privire la infrastructura națională de date spațiale** |
| 14. | Unități statistice | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19113 – Geographic information – Quality principles;
3. SM ISO 19115 – Geographic information – Metadata;
4. SM ISO 19118 – Geographic information – Encoding;
5. SM ISO 19138 – Geographic information – Data quality measures;
6. SM ISO 3166-1 – English country names and code elements;
7. SM OGC 10-070r2 –­ Georeferenced Table Joining Service Implementation Standard, OpenGIS standard;
8. SM OGC 09-110r3 – Web Coverage Service 2.0 interface standard, OpenGISstandard
 |
| 15. | Clădiri | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. [ISO 19118] ­ ISO 19118­, Geographic information – Encoding;
8. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
9. SM ISO 19135 – Geographic information – Procedures for item registration;
10. SM ISO 19138 – Geographic information – Data quality measures;
11. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
12. SM ISO 19157 – Geographic information – Data quality;
13. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 16. | Soluri | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c –Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1;
15. SM ISO 19156 – Geographic information – Observation and Measurements;
16. SM ISO DIS 28258 – Soil Quality – Digital Exchange of Soil-Related data
 |
| 17. | Categorii de terenuri | 1. SM ISO 19105 – Geographic information – Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
4. SM ISO 19115 – Geographic information – Metadata;
5. SM ISO 19118 – Geographic information – Encoding;
6. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
7. SM ISO 19135 SM – Geographic information – Procedures for item registration;
8. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
9. SM ISO 19157 – Geographic information – Data quality
 |
| 18. | Sănătate și siguranță umană | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information - Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 SM – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 –Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19135 – Geographic information – Procedures for item registration;
10. SM ISO 19138 – Geographic information – Data quality measures;
11. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
12. SM OGC 06-103r3 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.0 ;
13. SM ICD10 WHO –­ International Statistical Classification of Diseases and Related Health Problems 10th Revision
 |
| 19. | Servicii de utilități publice și alte servicii publice | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 –Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 –­ Implementation Specification for Geographic Information– Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 20. | Instalații de monitorizare a mediului | 1. SM ISO 19105 – Geographic information –Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19108 – Geographic information – Temporal Schema;
4. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
5. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
6. SM ISO 19113 – Geographic information – Quality principles;
7. SM ISO 19115 – Geographic information – Metadata;
8. SM ISO 19118 – Geographic information – Encoding;
9. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
10. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
11. SM ISO 19135 – Geographic information – Procedures for item registration;
12. SM ISO 19138 – Geographic information – Data quality measures;
13. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
14. SM ISO 19156 – Geographic information – Observations and measurements;
15. SM ISO 19157 – Geographic information – Data quality;
16. SM OGC 06-103r4 – Implementation Specification for Geographic Information –Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 21. | Instalații de producție și industriale | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information –Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures ISO 19139 Geographic information – Metadata – XML schema implementation;
12. SM ISO 19157 – Geographic information – Data quality;
13. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 22. | Instalații agricole și pentru acvacultură | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 23. | Repartizarea populației – demografie  | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
3. SM ISO 19113 – Geographic information – Quality principles;
4. SM ISO 19115 – Geographic information – Metadata;
5. SM ISO 19138 – Geographic information – Data quality measures
 |
| 24. | Zone de administrare/reglementare și unități de raportare | 1. SM ISO 19105 – Geographic information – Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19108 – Geographic information – Temporal Schema;
4. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
5. SM ISO 19111 – Geographic information–Spatial referencing by coordinates;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19135 – Geographic information – Procedures for item registration;
9. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
10. SM ISO 19157 – Geographic information – Data quality;
11. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 25. | Zone de risc natural | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 26. | Condiții atmosferice | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates (SM ISO 19111);
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1;
15. SM ISO 19109 – Geographic information – Rules for application schemas;
16. SM ISO 19156 – Geographic information – Observations and measurements;
17. WMO 306 – Manual on Codes WMO - No 306, Volumes I.1 and I.2, World Meteorological Organization, ISBN 978-92-63-10306-2;
18. WMO Manual on the Global Observing System (WMO-No 544);
19. WMO Manual on the Global Data-processing and Forecasting System (WMO-No. 485);
20. WMO Manual on the WIS (subject to WMO Congress-XVI 2011 approval).
 |
| 27. | Caracteristici geografice meteorologice | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information –Simple feature access – Part 1: Common Architecture v1.2.1;
15. SM ISO 19109 – Geographic Information – Rules for application schemas;
16. SM ISO 19156 – Geographic information – Observations and measurements;
17. WMO 306 Manual on Codes WMO - No 306, Volumes I.1 and I.2, World Meteorological Organization, ISBN 978-92-63-10306-2;
18. WMO Manual on the Global Observing System (WMO-No 544);
19. WMO Manual on the Global Data-processing and Forecasting System (WMO-No. 485);

20)WMO Manual on the WIS (subject to WMO Congress-XVI 2011 approval) |
| 28. | Regiuni biogeografice | 1. SM ISO 19105 – Geographic information – Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
4. SM ISO 19115 – Geographic information – Metadata;
5. SM ISO 19118 – Geographic information – Encoding;
6. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
7. SM ISO 19135 – Geographic information – Procedures for item registration;
8. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
9. SM ISO 19157 – Geographic information – Data quality;
10. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 29. | Habitate  | 1. SM ISO 19105 – Geographic information –Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19111 – Geographic information –Spatial referencing by coordinates;
4. SM ISO 19113 – Geographic information – Quality principles;
5. SM ISO 19115 – Geographic information – Metadata;
6. SM ISO 19118 – Geographic information – Encoding;
7. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
8. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
9. SM ISO 19135 – Geographic information – Procedures for item registration;
10. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
11. SM ISO 19157 – Geographic information – Data quality;
12. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 30. | Arealul speciilor | 1. SM ISO 19105 – Geographic information –Conformance and testing;
2. SM ISO 19107 – Geographic information – Spatial Schema;
3. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
4. SM ISO 19115 – Geographic information – Metadata;
5. SM ISO 19118 – Geographic information – Encoding;
6. SM ISO 19119 – Geographic information – Services;
7. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
8. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
9. SM ISO 19135 – Geographic information – Procedures for item registration;
10. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
11. SM ISO 19157 – Geographic information – Data quality;
12. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 31. | Resurse energetice | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information - Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
 |
| 32. | Resurse minerale | 1. SM ISO 19107 – Geographic information – Spatial Schema;
2. SM ISO 19108 – Geographic information – Temporal Schema;
3. SM ISO 19108-c – Geographic information – Temporal Schema, Technical Corrigendum 1;
4. SM ISO 19111 – Geographic information – Spatial referencing by coordinates;
5. SM ISO 19113 – Geographic information – Quality principles;
6. SM ISO 19115 – Geographic information – Metadata;
7. SM ISO 19118 – Geographic information – Encoding;
8. SM ISO 19123 – Geographic information – Schema for coverage geometry and functions;
9. SM ISO 19125-1 – Geographic information – Simple feature access – Part 1: Common architecture;
10. SM ISO 19135 – Geographic information – Procedures for item registration;
11. SM ISO 19138 – Geographic information – Data quality measures;
12. SM ISO 19139 – Geographic information – Metadata – XML schema implementation;
13. SM ISO 19157 – Geographic information – Data quality;
14. SM OGC 06-103r4 – Implementation Specification for Geographic Information – Simple feature access – Part 1: Common Architecture v1.2.1
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