

ISO 19144-2:2012-07 (E)

Geographic information - Classification systems - Part 2: Land Cover Meta Language (LCML)

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Conformance	1
2.1	Classes	1
2.2	Conformance of a land cover classification system	1
2.3	Conformance of a register for the extension of the metalanguage	1
2.4	Conformance of a comparison process of land cover classification systems	1
3	Normative references	1
4	Terms, definitions, and abbreviations	2
4.1	Terms and definitions	2
4.2	Abbreviations	3
5	Notation	4
6	Context	4
7	Conceptual basis	6
7.1	Definition adopted for land cover	6
7.2	LCML approach to class definition	6
8	LCML objects	8
8.1	Introduction to LCML objects	8
8.3	Composition of a LC_LandCover object	9
8.4	Elements of the LCML metamodel	10
8.5	High level structure	10
8.6	Land Cover Meta Language object structure	11
8.7	LC_Element	17
8.8	LC_VegetationElement	18
8.9	LC_GrowthForm	18
8.10	LC_WoodyGrowthForm	20
8.11	LC_HerbaceousGrowthForm	22
8.12	LC_LichenAndMoss	24
8.13	LC_AbioticElement	25
8.14	LC_ArtificialSurfaceElement	26
8.15	LC_NaturalSurfaceElement	26
8.16	LC_WaterBodyAndAssociatedSurfaceElement	27
8.17	LC_BuiltUpSurface	30
8.18	LC_NonBuiltUpSurface	33
8.19	LC_RocksSurfaceElement	34
8.20	LC_SoilSandDepositsSurfaceElement	35
8.21	LC_ClassCharacteristic	37
8.22	LC_LandCoverElementCharacteristic	40
8.23	LC_GrowthFormCharacteristic	42
8.24	LC_NameAttributionCriteria	46
8.25	LC_CultivatedAndManagedVegetation	48

8.26	LC_ArtificialSurfaceCharacteristic	52
8.27	LC_WaterAndAssociatedSurfaceCharacteristic	54
8.28	LC_ValueObject permitted numeric values	56
9	Extension of the LCML	60
9.1	Introduction	60
9.2	Backward compatibility	60
9.3	LCML register structure	61
Annex A (normative) Abstract test suite		67
Annex C (informative) Examples		71
Annex D (informative) Glossary of land cover meta-elements		89
Bibliography		106
Alphabetical index to terms in glossary		108