

Summary of extensions to ISO Code Lists

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Extensions to the ISO code lists, which were included in WMO Core Metadata Profile version 0.3, are as follows.

B.5.2 CI_DateTypeCode <<CodeList>>

5.	reference	004	date identifies when the resource was referenced or accessed
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B.5.10 MD_CharacterSetCode <<CodeList>>

31.	CP1251	030	Cyrillic code set
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Note: This extension will be deprecated in version 1.1 because Greg Reed received advice from the Russian Institute for Hydrometeorological Information that they use the ISO 8859 code for Cyrillic alphabet to describe their data and metadata.

B.5.18 MD_MaintenanceFrequencyCode <<CodeList>>

14.	hourly	013	data is updated hourly
15.	3-hourly	014	data is updated every 3 hours
16.	6-hourly	015	data is updated every 6 hours
17.	12-hourly	016	data is updated every 12 hours

B.5.26 MD_SpatialRepresentationTypeCode <<CodeList>>

8.	bitmap	007	
9.	irregularPoints	008	Irregularly-spaced points, such as meteorological stations

WMO_CommunityTopicCategoryCode <<CodeList>>

extension for WMO community topics. This list should be extended. The current list has been proposed by A. Besprovannyk, Rosydromet, in ET-IDM-4

2.	weatherObservations	001	weather observations
3.	weatherForecasts	002	Weather forecasts
4.	meteorology	003	meteorology
5.	hydrology	004	hydrology
6.	climatology	005	climatology
7.	landMeteorologyClimate	006	landMeteorologyClimate
8.	synopticMeteorology	007	synopticMeteorology
9.	marineMeteorology	008	marineMeteorology
10.	agriculturalMeteorology	009	agriculturalMeteorology
11.	aerology	010	Aerology
12.	marineAerology	011	marineAerology
13.	oceanography	012	oceanography
14.	landHydrology	013	landHydrology
15.	rocketSounding	014	rocketSounding
16.	pollution	015	Pollution
17.	waterPollution	016	waterPollution
18.	landWaterPollution	017	landWaterPollution
19.	seaPollution	018	seaPollution
20.	landPollution	019	landPollution
21.	airPollution	020	airPollution
22.	glaciology	021	glaciology
23.	actinometry	022	actinometry
24.	satelliteObservation	023	satelliteObservation

25.	airplaneObservation	024	airplaneObservation
26.	observationPlatform	025	observationPlatform

WMO_DataFrequencyCode <<CodeList>>

separate additional codelist to MD_MaintenanceFrequencyCode reflecting WMO time scales

2.	continuous	001	Data is observed, measured, or forecasted continuously
3.	1-minute	002	Data is observed, measured, or forecasted every minute
4.	5-minute	003	Data is observed, measured, or forecasted every 5 minutes
5.	10-minute	004	Data is observed, measured, or forecasted every 10 minutes
6.	30-minute	005	Data is observed, measured, or forecasted every 30 minutes
7.	hourly	006	Data is observed, measured, or forecasted every hour
8.	3-hourly	007	Data is observed, measured, or forecasted every 3 hours
9.	6-hourly	008	Data is observed, measured, or forecasted every 6 hours
10.	8-hourly	009	Data is observed, measured, or forecasted every 8 hours
11.	12-hourly	010	Data is observed, measured, or forecasted every 12 hours
12.	daily	011	Data is observed, measured, or forecasted every day
13.	weekly	012	Data is observed, measured, or forecasted every week
14.	10-daily	013	Data is observed, measured, or forecasted every 10 days
15.	fortnightly	014	Data is observed, measured, or forecasted every 2 weeks
16.	monthly	015	Data is observed, measured, or forecasted every month
17.	quarterly	016	Data is observed, measured, or forecasted every 3 months
18.	biannually	017	Data is observed, measured, or forecasted twice each year
19.	annually	018	Data is observed, measured, or forecasted every year
20.	decadally	019	Data is observed, measured, or forecasted every decade
21.	irregularly	020	Data is observed, measured, or forecasted irregularly

ISO 19115 code lists and enumeration including proposed extensions

B.5.2 CI_DateTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	CI_DateTypeCode	DateTypCd	identification of when a given event occurred
2.	creation	001	date identifies when the resource was brought into existence
3.	publication	002	date identifies when the resource was issued
4.	revision	003	date identifies when the resource was examined or re-examined and improved or amended
Additional entries			
5.	reference	004	date identifies when the resource was referenced or accessed

B.5.3 CI_OnLineFunctionCode <<CodeList>>

	Name	Domain code	Definition
1.	CI_OnLineFunction Code	OnFunctCd	function performed by the resource
2.	download	001	online instructions for transferring data from one storage device or system to another
3.	information	002	online information about the resource
4.	offlineAccess	003	online instructions for requesting the resource from the provider
5.	order	004	online order process for obtaining the resource
6.	search	005	online search interface for seeking out information about the resource

B.5.4 CI_PresentationFormCode <<CodeList>>

	Name	Domain code	Definition
1.	CI_PresentationFormCode	PresFormCd	mode in which the data is represented
2.	documentDigital	001	digital representation of a primarily textual item (can contain illustrations also)
3.	documentHardcopy	002	representation of a primarily textual item (can contain illustrations also) on paper, photographic material, or other media
4.	imageDigital	003	likeness of natural or man-made features, objects, and activities acquired through the sensing of visual or any other segment of the electromagnetic spectrum by sensors, such as thermal infrared, and high resolution radar and stored in digital format
5.	imageHardcopy	004	likeness of natural or man-made features, objects, and activities acquired through the sensing of visual or any other segment of the electromagnetic spectrum by sensors, such as thermal infrared, and high resolution radar and reproduced on paper, photographic material, or other media for use directly by the human user
6.	mapDigital	005	map represented in raster or vector form
7.	mapHardcopy	006	map printed on paper, photographic material, or other media for use directly by the human user
8.	modelDigital	007	multi-dimensional digital representation of a feature, process, etc.
9.	modelHardcopy	008	3-dimensional, physical model
10.	profileDigital	009	vertical cross-section in digital form
11.	profileHardcopy	010	vertical cross-section printed on paper, etc.
12.	tableDigital	011	digital representation of facts or figures systematically displayed, especially in columns
13.	tableHardcopy	012	representation of facts or figures systematically displayed, especially in columns, printed on paper, photographic material, or other media
14.	videoDigital	013	digital video recording
15.	videoHardcopy	014	video recording on film

B.5.5 CI_RoleCode <<CodeList>>

	Name	Domain code	Definition
1.	CI_RoleCode	RoleCd	function performed by the responsible party
2.	resourceProvider	001	party that supplies the resource
3.	custodian	002	party that accepts accountability and responsibility for the data and ensures appropriate care and maintenance of the resource
4.	owner	003	party that owns the resource
5.	user	004	party who uses the resource
6.	distributor	005	party who distributes the resource
7.	originator	006	party who created the resource
8.	pointOfContact	007	party who can be contacted for acquiring knowledge about or acquisition of the resource
9.	principalInvestigator	008	key party responsible for gathering information and conducting research
10.	processor	009	party who has processed the data in a manner such that the resource has been modified
11.	publisher	010	party who published the resource
12.	author	011	party who authored the resource

B.5.6 DQ_EvaluationMethodTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	DQ_EvaluationMethodTypeCode	EvalMethTypeCd	type of method for evaluating an identified data quality measure
2.	directInternal	001	method of evaluating the quality of a dataset based on inspection of items within the dataset, where all data required is internal to the dataset being evaluated
3.	directExternal	002	method of evaluating the quality of a dataset based on inspection of items within the dataset, where reference data external to the dataset being evaluated is required
4.	indirect	003	method of evaluating the quality of a dataset based on external knowledge

B.5.7 DS_AssociationTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	DS_AssociationTypeCode	AscTypeCd	justification for the correlation of two datasets
2.	crossReference	001	reference from one dataset to another
3.	largerWorkCitation	002	reference to a master dataset of which this one is a part
4.	partOfSeamlessDatabase	003	part of same structured set of data held in a computer
5.	source	004	mapping and charting information from which the dataset content originates
6.	stereoMate	005	part of a set of imagery that when used together, provides three-dimensional images

B.5.8 DS_InitiativeTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	DS_InitiativeTypeCode	InitTypCd	type of aggregation activity in which datasets are related
2.	campaign	001	series of organized planned actions
3.	collection	002	accumulation of datasets assembled for a specific purpose
4.	exercise	003	specific performance of a function or group of functions
5.	experiment	004	process designed to find if something is effective or valid
6.	investigation	005	search or systematic inquiry
7.	mission	006	specific operation of a data collection system
8.	sensor	007	device or piece of equipment which detects or records
9.	operation	008	action that is part of a series of actions

	Name	Domain code	Definition
10.	platform	009	vehicle or other support base that holds a sensor
11.	process	010	method of doing something involving a number of steps
12.	program	011	specific planned activity
13.	project	012	organized undertaking, research, or development
14.	study	013	examination or investigation
15.	task	014	piece of work
16.	trial	015	process of testing to discover or demonstrate something

B.5.9 MD_CellGeometryCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_CellGeometryCode	CellGeoCd	code indicating whether grid data is point or area
2.	point	001	each cell represents a point
3.	area	002	each cell represents an area

B.5.10 MD_CharacterSetCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_CharacterSetCode	CharSetCd	name of the character coding standard used for the resource
2.	ucs2	001	16-bit fixed size Universal Character Set, based on ISO/IEC 10646
3.	ucs4	002	32-bit fixed size Universal Character Set, based on ISO/IEC 10646
4.	utf7	003	7-bit variable size UCS Transfer Format, based on ISO/IEC 10646
5.	utf8	004	8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
6.	utf16	005	16-bit variable size UCS Transfer Format, based on ISO/IEC 10646
7.	8859part1	006	ISO/IEC 8859-1, Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1
8.	8859part2	007	ISO/IEC 8859-2, Information technology – 8-bit single-byte coded graphic character sets – Part 2: Latin alphabet No. 2
9.	8859part3	008	ISO/IEC 8859-3, Information technology – 8-bit single-byte coded graphic character sets – Part 3: Latin alphabet No. 3
10.	8859part4	009	ISO/IEC 8859-4, Information technology – 8-bit single-byte coded graphic character sets – Part 4: Latin alphabet No. 4
11.	8859part5	010	ISO/IEC 8859-5, Information technology – 8-bit single-byte coded graphic character sets – Part 5: Latin/Cyrillic alphabet
12.	8859part6	011	ISO/IEC 8859-6, Information technology – 8-bit single-byte coded graphic character sets – Part 6: Latin/Arabic alphabet
13.	8859part7	012	ISO/IEC 8859-7, Information technology – 8-bit single-byte coded graphic character sets – Part 7: Latin/Greek alphabet
14.	8859part8	013	ISO/IEC 8859-8, Information technology – 8-bit single-byte coded graphic character sets – Part 8: Latin/Hebrew alphabet
15.	8859part9	014	ISO/IEC 8859-9, Information technology – 8-bit single-byte coded graphic character sets – Part 9: Latin alphabet No. 5
16.	8859part10	015	ISO/IEC 8859-10, Information technology – 8-bit single-byte coded graphic character sets – Part 10: Latin alphabet No. 6
17.	8859part11	016	ISO/IEC 8859-11, Information technology – 8-bit single-byte coded graphic character sets – Part 11: Latin/Thai alphabet
18.	(reserved for future use)	017	a future ISO/IEC 8-bit single-byte coded graphic character set (e.g. possibly ISO/IEC 8859-12)
19.	8859part13	018	ISO/IEC 8859-13, Information technology – 8-bit single-byte coded graphic character sets – Part 13: Latin alphabet No. 7
20.	8859part14	019	ISO/IEC 8859-14, Information technology – 8-bit single-byte coded graphic character sets – Part 14: Latin alphabet No. 8 (Celtic)
21.	8859part15	020	ISO/IEC 8859-15, Information technology – 8-bit single-byte coded graphic character sets – Part 15: Latin alphabet No. 9
22.	8859part16	021	ISO/IEC 8859-16, Information technology – 8-bit single-byte coded graphic character sets – Part 16: Latin alphabet No. 10
23.	jis	022	japanese code set used for electronic transmission
24.	shiftJIS	023	japanese code set used on MS-DOS based machines
25.	eucJP	024	japanese code set used on UNIX based machines
26.	usAscii	025	united states ASCII code set (ISO 646 US)

	Name	Domain code	Definition
27.	ebcdic	026	ibm mainframe code set
28.	eucKR	027	korean code set
29.	big5	028	traditional Chinese code set used in Taiwan, Hong Kong of China and other areas
30.	GB2312	029	simplified Chinese code set

B.5.11 MD_ClassificationCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_ClassificationCode	ClassificationCd	name of the handling restrictions on the dataset
2.	unclassified	001	available for general disclosure
3.	restricted	002	not for general disclosure
4.	confidential	003	available for someone who can be entrusted with information
5.	secret	004	kept or meant to be kept private, unknown, or hidden from all but a select group of people
6.	topSecret	005	of the highest secrecy

B.5.12 MD_CoverageContentTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_CoverageContentTypeCode	ContentTypCd	specific type of information represented in the cell
2.	image	001	meaningful numerical representation of a physical parameter that is not the actual value of the physical parameter
3.	thematicClassification	002	code value with no quantitative meaning, used to represent a physical quantity
4.	physicalMeasurement	003	value in physical units of the quantity being measured

B.5.13 MD_DatatypeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_DatatypeCode	DatatypeCd	datatype of element or entity
2.	class	001	descriptor of a set of objects that share the same attributes, operations, methods, relationships, and behavior
3.	codelist	002	flexible enumeration useful for expressing a long list of values, can be extended
4.	enumeration	003	data type whose instances form a list of named literal values, not extendable
5.	codelistElement	004	permissible value for a codelist or enumeration
6.	abstractClass	005	class that cannot be directly instantiated
7.	aggregateClass	006	class that is composed of classes it is connected to by an aggregate relationship
8.	specifiedClass	007	subclass that may be substituted for its superclass
9.	datatypeClass	008	class with few or no operations whose primary purpose is to hold the abstract state of another class for transmittal, storage, encoding or persistent storage
10.	interfaceClass	009	named set of operations that characterize the behavior of an element
11.	unionClass	010	class describing a selection of one of the specified types
12.	metaClass	011	class whose instances are classes
13.	typeClass	012	class used for specification of a domain of instances (objects), together with the operations applicable to the objects. A type may have attributes and associations
14.	characterString	013	free text field
15.	integer	014	numerical field
16.	association	015	semantic relationship between two classes that involves connections among their instances

B.5.14 MD_DimensionNameTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_DimensionNameTypeCode	DimNameTypCd	name of the dimension
2.	row	001	ordinate (y) axis
3.	column	002	abscissa (x) axis
4.	vertical	003	vertical (z) axis
5.	track	004	along the direction of motion of the scan point
6.	crossTrack	005	perpendicular to the direction of motion of the scan point
7.	line	006	scan line of a sensor
8.	sample	007	element along a scan line
9.	time	008	duration

B.5.15 MD_GeometricObjectTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_GeometricObjectTypeCode	GeoObjTypCd	name of point or vector objects used to locate zero-, one-, two-, or three-dimensional spatial locations in the dataset
2.	complex	001	set of geometric primitives such that their boundaries can be represented as a union of other primitives
3.	composite	002	connected set of curves, solids or surfaces
4.	curve	003	bounded, 1-dimensional geometric primitive, representing the continuous image of a line
5.	point	004	zero-dimensional geometric primitive, representing a position but not having an extent
6.	solid	005	bounded, connected 3-dimensional geometric primitive, representing the continuous image of a region of space
7.	surface	006	bounded, connected 2-dimensional geometric primitive, representing the continuous image of a region of a plane

B.5.16 MD_ImagingConditionCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_ImagingConditionCode	ImgCondCd	code which indicates conditions which may affect the image
2.	blurredImage	001	portion of the image is blurred
3.	cloud	002	portion of the image is partially obscured by cloud cover
4.	degradingObliquity	003	acute angle between the plane of the ecliptic (the plane of the Earth's orbit) and the plane of the celestial equator
5.	fog	004	portion of the image is partially obscured by fog
6.	heavySmokeOrDust	005	portion of the image is partially obscured by heavy smoke or dust
7.	night	006	image was taken at night
8.	rain	007	image was taken during rainfall
9.	semiDarkness	008	image was taken during semi-dark conditions—twilight conditions
10.	shadow	009	portion of the image is obscured by shadow
11.	snow	010	portion of the image is obscured by snow
12.	terrainMasking	011	the absence of collection data of a given point or area caused by the relative location of topographic features which obstruct the collection path between the collector(s) and the subject(s) of interest

B.5.17 MD_KeywordTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_KeywordTypeCode	KeyTypCd	methods used to group similar keywords
2.	discipline	001	keyword identifies a branch of instruction or specialized learning
3.	place	002	keyword identifies a location
4.	stratum	003	keyword identifies the layer(s) of any deposited substance

	Name	Domain code	Definition
5.	temporal	004	keyword identifies a time period related to the dataset
6.	theme	005	keyword identifies a particular subject or topic

B.5.18 MD_MaintenanceFrequencyCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_MaintenanceFrequencyCode	MaintFreqCd	frequency with which modifications and deletions are made to the data after it is first produced
2.	continual	001	data is repeatedly and frequently updated
3.	daily	002	data is updated each day
4.	weekly	003	data is updated on a weekly basis
5.	fortnightly	004	data is updated every two weeks
6.	monthly	005	data is updated each month
7.	quarterly	006	data is updated every three months
8.	biannually	007	data is updated twice each year
9.	annually	008	data is updated every year
10.	asNeeded	009	data is updated as deemed necessary
11.	irregular	010	data is updated in intervals that are uneven in duration
12.	notPlanned	011	there are no plans to update the data
13.	unknown	012	frequency of maintenance for the data is not known
Additional entries			
14.	hourly	013	data is updated hourly
15.	3-hourly	014	data is updated every 3 hours
16.	6-hourly	015	data is updated every 6 hours
17.	12-hourly	016	data is updated every 12 hours

B.5.19 MD_MediumFormatCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_MediumFormatCode	MedFormCd	method used to write to the medium
2.	cpio	001	CoPy In / Out (UNIX file format and command)
3.	tar	002	Tape ARchive
4.	highSierra	003	high sierra file system
5.	iso9660	004	information processing – volume and file structure of CD-ROM
6.	iso9660RockRidge	005	rock ridge interchange protocol (UNIX)
7.	iso9660AppleHFS	006	hierarchical file system (Macintosh)

B.5.20 MD_MediumNameCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_MediumNameCode	MedNameCd	name of the medium
2.	cdRom	001	read-only optical disk
3.	dvd	002	digital versatile disk
4.	dvdRom	003	digital versatile disk, read only
5.	3halfInchFloppy	004	3.5 inch magnetic disk
6.	5quarterInchFloppy	005	5.25 inch magnetic disk
7.	7trackTape	006	7 track magnetic tape
8.	9trackTape	007	9 track magnetic tape
9.	3480Cartridge	008	3480 cartridge tape drive
10.	3490Cartridge	009	3490 cartridge tape drive
11.	3580Cartridge	010	3580 cartridge tape drive
12.	4mmCartridgeTape	011	4 millimetre magnetic tape
13.	8mmCartridgeTape	012	8 millimetre magnetic tape
14.	1quarterInchCartridgeTape	013	0.25 inch magnetic tape
15.	digitalLinearTape	014	half inch cartridge streaming tape drive
16.	onLine	015	direct computer linkage

	Name	Domain code	Definition
17.	satellite	016	linkage through a satellite communication system
18.	telephoneLink	017	communication through a telephone network
19.	hardcopy	018	pamphlet or leaflet giving descriptive information

B.5.21 MD_ObligationCode <<Enumeration>>

	Name	Domain code	Definition
1.	MD_ObligationCode	ObCd	obligation of the element or entity
2.	mandatory	001	element is always required
3.	optional	002	element is not required
4.	conditional	003	element is required when a specific condition is met

B.5.22 MD_PixelOrientationCode <<Enumeration>>

	Name	Domain code	Definition
1.	MD_PixelOrientationCode	PixOrientCd	point in a pixel corresponding to the Earth location of the pixel
2.	center	001	point halfway between the lower left and the upper right of the pixel
3.	lowerLeft	002	the corner in the pixel closest to the origin of the SRS; if two are at the same distance from the origin, the one with the smallest x-value
4.	lowerRight	003	next corner counterclockwise from the lower left
5.	upperRight	004	next corner counterclockwise from the lower right
6.	upperLeft	005	next corner counterclockwise from the upper right

B.5.23 MD_ProgressCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_ProgressCode	ProgCd	status of the dataset or progress of a review
2.	completed	001	production of the data has been completed
3.	historicalArchive	002	data has been stored in an offline storage facility
4.	obsolete	003	data is no longer relevant
5.	onGoing	004	data is continually being updated
6.	planned	005	fixed date has been established upon or by which the data will be created or updated
7.	required	006	data needs to be generated or updated
8.	underDevelopment	007	data is currently in the process of being created

B.5.24 MD_RestrictionCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_RestrictionCode	RestrictCd	limitation(s) placed upon the access or use of the data
2.	copyright	001	exclusive right to the publication, production, or sale of the rights to a literary, dramatic, musical, or artistic work, or to the use of a commercial print or label, granted by law for a specified period of time to an author, composer, artist, distributor
3.	patent	002	government has granted exclusive right to make, sell, use or license an invention or discovery
4.	patentPending	003	produced or sold information awaiting a patent
5.	trademark	004	a name, symbol, or other device identifying a product, officially registered and legally restricted to the use of the owner or manufacturer
6.	license	005	formal permission to do something
7.	intellectualPropertyRights	006	rights to financial benefit from and control of distribution of non-tangible property that is a result of creativity
8.	restricted	007	withheld from general circulation or disclosure
9.	otherRestrictions	008	limitation not listed

B.5.25 MD_ScopeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_ScopeCode	ScopeCd	class of information to which the referencing entity applies
2.	attribute	001	information applies to the attribute class
3.	attributeType	002	information applies to the characteristic of a feature
4.	collectionHardware	003	information applies to the collection hardware class
5.	collectionSession	004	information applies to the collection session
6.	dataset	005	information applies to the dataset
7.	series	006	information applies to the series Note: "series" applies to any DS_Aggregate
8.	nonGeographicDataSet	007	information applies to non-geographic data
9.	dimensionGroup	008	information applies to a dimension group
10.	feature	009	information applies to a feature
11.	featureType	010	information applies to a feature type
12.	propertyType	011	information applies to a property type
13.	fieldSession	012	information applies to a field session
14.	software	013	information applies to a computer program or routine
15.	service	014	information applies to a capability which a service provider entity makes available to a service user entity through a set of interfaces that define a behaviour, such as a use case
16.	model	015	information applies to a copy or limitation of an existing or hypothetical object
17.	tile	016	information applies to a tile, a spatial subset of geographic data

B.5.26 MD_SpatialRepresentationTypeCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_SpatialRepresentationTypeCode	SpatRepTypCd	method used to represent geographic information in the dataset
2.	vector	001	vector data is used to represent geographic data
3.	grid	002	grid data is used to represent geographic data
4.	textTable	003	textual or tabular data is used to represent geographic data
5.	tin	004	triangulated irregular network
6.	stereoModel	005	three-dimensional view formed by the intersecting homologous rays of an overlapping pair of images
7.	video	006	scene from a video recording
Additional entries			
8.	bitmap	007	a spatially mapped array of bits
9.	irregularPoints	008	irregularly-spaced points, such as meteorological stations

B.5.27 MD_TopicCategoryCode <<Enumeration>>

	Name	Domain code	Definition
1.	MD_TopicCategoryCode	TopicCatCd	high-level geographic data thematic classification to assist in the grouping and search of available geographic data sets. Can be used to group keywords as well. Listed examples are not exhaustive. NOTE It is understood there are overlaps between general categories and the user is encouraged to select the one most appropriate.
2.	farming	001	rearing of animals and/or cultivation of plants Examples: agriculture, irrigation, aquaculture, plantations, herding, pests and diseases affecting crops and livestock
3.	biota	002	flora and/or fauna in natural environment Examples: wildlife, vegetation, biological sciences, ecology, wilderness, sealife, wetlands, habitat
4.	boundaries	003	legal land descriptions Examples: political and administrative boundaries

	Name	Domain code	Definition
5.	climatologyMeteorologyAtmosphere	004	processes and phenomena of the atmosphere Examples: cloud cover, weather, climate, atmospheric conditions, climate change, precipitation
6.	economy	005	economic activities, conditions and employment Examples: production, labour, revenue, commerce, industry, tourism and ecotourism, forestry, fisheries, commercial or subsistence hunting, exploration and exploitation of resources such as minerals, oil and gas
7.	elevation	006	height above or below sea level Examples: altitude, bathymetry, digital elevation models, slope, derived products
8.	environment	007	environmental resources, protection and conservation Examples: environmental pollution, waste storage and treatment, environmental impact assessment, monitoring environmental risk, nature reserves, landscape
9.	geoscientificInformation	008	information pertaining to earth sciences Examples: geophysical features and processes, geology, minerals, sciences dealing with the composition, structure and origin of the earth's rocks, risks of earthquakes, volcanic activity, landslides, gravity information, soils, permafrost, hydrogeology, erosion
10.	health	009	health, health services, human ecology, and safety Examples: disease and illness, factors affecting health, hygiene, substance abuse, mental and physical health, health services
11.	imageryBaseMapsEarthCover	010	base maps Examples: land cover, topographic maps, imagery, unclassified images, annotations
12.	intelligenceMilitary	011	military bases, structures, activities Examples: barracks, training grounds, military transportation, information collection
13.	inlandWaters	012	inland water features, drainage systems and their characteristics Examples: rivers and glaciers, salt lakes, water utilization plans, dams, currents, floods, water quality, hydrographic charts
14.	location	013	positional information and services Examples: addresses, geodetic networks, control points, postal zones and services, place names
15.	oceans	014	features and characteristics of salt water bodies (excluding inland waters) Examples: tides, tidal waves, coastal information, reefs
16.	planningCadastre	015	information used for appropriate actions for future use of the land Examples: land use maps, zoning maps, cadastral surveys, land ownership
17.	society	016	characteristics of society and cultures Examples: settlements, anthropology, archaeology, education, traditional beliefs, manners and customs, demographic data, recreational areas and activities, social impact assessments, crime and justice, census information
18.	structure	017	man-made construction Examples: buildings, museums, churches, factories, housing, monuments, shops, towers
19.	transportation	018	means and aids for conveying persons and/or goods Examples: roads, airports/airstrips, shipping routes, tunnels, nautical charts, vehicle or vessel location, aeronautical charts, railways
20.	utilitiesCommunication	019	energy, water and waste systems and communications infrastructure and services Examples: hydroelectricity, geothermal, solar and nuclear sources of energy, water purification and distribution, sewage collection and disposal, electricity and gas distribution, data communication, telecommunication, radio, communication networks

B.5.28 MD_TopologyLevelCode <<CodeList>>

	Name	Domain code	Definition
1.	MD_TopologyLevelCode	TopoLevCd	degree of complexity of the spatial relationships
2.	geometryOnly	001	geometry objects without any additional structure which describes topology

	Name	Domain code	Definition
3.	topology1D	002	1-dimensional topological complex – commonly called “chain-node” topology
4.	planarGraph	003	1-dimensional topological complex that is planar. (A planar graph is a graph that can be drawn in a plane in such a way that no two edges intersect except at a vertex.)
5.	fullPlanarGraph	004	2-dimensional topological complex that is planar. (A 2-dimensional topological complex is commonly called “full topology” in a cartographic 2D environment.)
6.	surfaceGraph	005	1-dimensional topological complex that is isomorphic to a subset of a surface. (A geometric complex is isomorphic to a topological complex if their elements are in a one-to-one, dimensional-and boundary-preserving correspondence to one another.)
7.	fullSurfaceGraph	006	2-dimensional topological complex that is isomorphic to a subset of a surface
8.	topology3D	007	3-dimensional topological complex. (A topological complex is a collection of topological primitives that are closed under the boundary operations.)
9.	fullTopology3D	008	complete coverage of a 3D Euclidean coordinate space
10.	abstract	009	topological complex without any specified geometric realisation

WMO_CommunityTopicCategoryCode <<CodeList>>

	Name	Domain code	Definition
1.	WMO_TopicCategoryCode	CommunityTopicCatCd	List of categories in the meteorological community for classification to assist in the grouping and search of meteorological data sets. IPET-MI-III recommended that at least one entry of this list should be used as keyword.
2.	weatherObservations	001	weather observations
3.	weatherForecasts	002	weather forecasts
4.	meteorology	003	meteorology
5.	hydrology	004	hydrology
6.	climatology	005	climatology
7.	landMeteorologyClimate	006	land meteorology climate
8.	synopticMeteorology	007	synoptic meteorology
9.	marineMeteorology	008	marine meteorology
10.	agriculturalMeteorology	009	agricultural meteorology
11.	aerology	010	aerology
12.	marineAerology	011	marine aerology
13.	oceanography	012	oceanography
14.	landHydrology	013	land hydrology
15.	rocketSounding	014	rocket sounding
16.	pollution	015	pollution
17.	waterPollution	016	water pollution
18.	landWaterPollution	017	land water pollution
19.	seaPollution	018	sea pollution
20.	landPollution	019	land pollution
21.	airPollution	020	air pollution
22.	glaciology	021	glaciology
23.	actinometry	022	actinometry
24.	satelliteObservation	023	satellite observation
25.	airplaneObservation	024	airplane observation
26.	observationPlatform	025	observation platform

WMO_DataFrequencyCode <<CodeList>>

	Name	Domain code	Definition
1.	WMO_DataFrequencyCode	DataFreqCd	separate additional code list to MD_MaintenanceFrequencyCode reflecting WMO time scales
2.	continuous	001	Data is observed, measured, or forecasted continuously
3.	1-minute	002	Data is observed, measured, or forecasted every minute
4.	5-minute	003	Data is observed, measured, or forecasted every 5 minutes
5.	10-minute	004	Data is observed, measured, or forecasted every 10 minutes
6.	30-minute	005	Data is observed, measured, or forecasted every 30 minutes
7.	hourly	006	Data is observed, measured, or forecasted every hour
8.	3-hourly	007	Data is observed, measured, or forecasted every 3 hours
9.	6-hourly	008	Data is observed, measured, or forecasted every 6 hours
10.	8-hourly	009	Data is observed, measured, or forecasted every 8 hours
11.	12-hourly	010	Data is observed, measured, or forecasted every 12 hours
12.	daily	011	Data is observed, measured, or forecasted every day
13.	weekly	012	Data is observed, measured, or forecasted every week
14.	10-daily	013	Data is observed, measured, or forecasted every 10 days
15.	fortnightly	014	Data is observed, measured, or forecasted every 2 weeks
16.	monthly	015	Data is observed, measured, or forecasted every month
17.	quarterly	016	Data is observed, measured, or forecasted every 3 months
18.	biannually	017	Data is observed, measured, or forecasted twice each year
19.	annually	018	Data is observed, measured, or forecasted every year
20.	decadally	019	Data is observed, measured, or forecasted every decade
21.	irregularly	020	Data is observed, measured, or forecasted irregularly