Alaska Data Integration work group
ISO Metadata Data Dictionary

ISO 19115-2
Data Level Metadata

Photo courtesy of USGS

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gmd:CI_Address

Code Address
Description Text Location of the responsible individual or organization.

Attributes

Name	Code	Data Type	Multiplicity
gmd:deliveryPoint	delPoint	gco:CharacterString	0..*
gmd:city	city	gco:CharacterString	0..1
gmd:administrativeArea	adminArea	gco:CharacterString	0..1
gmd:postalCode	postCode	gco:CharacterString	0..1
gmd:country	gmd:country	gco:CharacterString	
gmd:electronicMailAddress	eMailAdd	gco:CharacterString	0..*

Attribute: gmd:deliveryPoint

Code	delPoint
Description Text	Address line for the location.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:city

Code	city
Description Text	City of the location.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:administrativeArea

Code	adminArea
Description Text	State, province of the location.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:postalCode

Code	postCode
Description Text	ZIP or other postal code.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:country

Code	gmd:country
Description Text	Country of the physical address.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	
Domain	ISO 3166

Attribute: gmd:electronicMailAddress

Code	eMailAdd
Description Text	Address of the electronic mailbox of the responsible organization or individual.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:CI_Citation

Code	Citation
Description Text	Standardized resource reference.

Attributes

Name	Code	Data Type	Multiplicity
gmd:title	resTitle	gco:CharacterString	1..1
gmd:date	resRefDate	gmd:CI_Date	1..*
gmd:edition	resEd	gco:CharacterString	0..1
gmd:citedResponsibleParty	citRespParty	gmd:CI_ResponsibleParty	0..*
gmd:presentationForm	presForm	codeList	
gmd:ISBN	isbn	gco:CharacterString	0..1
gmd:ISSN	issn	gco:CharacterString	0..1

Attribute: gmd:title

Code	resTitle

Description Text	Name by which the cited resource is known.
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:date

Code	resRefDate
Description Text	Reference date for the cited resource.
Data Type	gmd:CI_Date
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

Attribute: gmd:edition

Code	resEd
Description Text	Version of the cited resource.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:citedResponsibleParty

Code	citRespParty
Description Text	Name and position for an individual.
Data Type	gmd:CI_ResponsibleParty
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:presentationForm

Code	presForm
Description Text	Mode in which the resource is represented.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	CI_PresentationFormCode

Attribute: gmd:ISBN

Code	isbn
Description Text	International Standard Book Number.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:ISSN

Code	issn
Description Text	International Standard Serial Number.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:CI_Contact

Code	Contact
Description Text	Information required to enable contact with the responsible person and/or organization.

Attributes

Name	Code	Data Type	Multiplicity
gmd:phone	cntPhone	gmd:CI_Telephone	0..1
gmd:address	cntAddress	gmd:CI_Address	0..1
gmd:onlineResource	contOnlineRes	gmd:CI_OnlineResource	0..1
gmd:contactInstructions	contInstr	gco:CharacterString	0..1

Attribute: gmd:phone

Code	cntPhone
Description Text	Telephone number at which the organization or individual may be contacted.
Data Type	gmd:CI_Telephone
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:address

Code	cntAddress
Description Text	Physical and email address at which the organization or individual may be contacted.
Data Type	gmd:CI_Address
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:onlineResource

Code	contOnlineRes
Description Text	On-line information that can be used to contact the individual or organization.
Data Type	gmd:CI_OnlineResource
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:contactInstructions

Code	contInstr
Description Text	Supplemental instructions on how or when to contact the individual or organization.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:CI_Date

Code	DateRef
Description Text	References date and event used to describe it.

Attributes

Name	Code	Data Type	Multiplicity
gmd:date gmd:dateType	refDate refDateType	gco:Date codeList	1..1

Attribute: gmd:date

Code	refDate
Description Text	Reference date for the cited resource.
Data Type	gco:Date
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:dateType

Code	refDateType
Description Text	Event used for reference date.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	CI_DateTypeCode

gmd:CI_OnlineResource

Code	OnlineRes
Description Text	Information about on-line sources from which the dataset, specification, or community profile name and extended metadata elements can be obtained.

Attributes

Name	Code	Data Type	Multiplicity
gmd:linkage	linkage	gmd:URL	1..1
gmd:name	orName	gco:CharacterString	0..1
gmd:description	orDesc	gco:CharacterString	0..1

gmd:function	orFunct	codelist	

Attribute: gmd:linkage

Code	linkage
Description Text	Location (address) for on-line access using a Uniform Resource Locator address or similar addressing scheme such as http://www.statkart.no/isotc211.
Data Type	gmd:URL
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:name

Code	orName
Description Text	Name of the online resource.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:description

Code	orDesc
Description Text	Detailed text description of what the online resource is/does.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:function

Code	orFunct
Description Text	Code for function performed by the online resource.
Data Type	codelist
Mandatory	No
Multiplicity	
Domain	CI_OnLineFunctionCode

gmd:CI_ResponsibleParty

Code	RespParty
Description Text	Identification of, and means of communication with, person(s) and organizations associated with the dataset. Note: This instance identifies the party responsible for the metadata record.

Attributes

Name	Code	Data Type	Multiplicity
gmd:individualName	rpIndName	gco:CharacterString	0..1
gmd:organizationName	rpOrgName	gco:CharacterStri	0..1

gmd:positionName	rpPosName	gco:CharacterString	0..1
gmd:contactInfo	rpCntInfo	gmd:CI_Contact	0..1
gmd:role	gmd:role	codeList	

Attribute: gmd:individualName

Code	rpIndName
Description Text	Name of the responsible person – surname, given name, title separated by a delimiter.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:organizationName

Code	rpOrgName
Description Text	Name of the responsible organization.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:positionName

Code	rpPosName
Description Text	Role or position of the responsible person.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:contactInfo

Code	rpCntInfo
Description Text	Address of the responsible party.
Data Type	gmd:CI_Contact
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:role

Code	gmd:role
Description Text	Function performed by the responsible party.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	CI_RoleCode

gmd:CI_Telephone

Code Telephone
Description Text Telephone numbers for contacting the responsible individual or organization.

Attributes

Name	Code	Data Type	Multiplicity
gmd:voice	voiceNum	gco:CharacterString	0..*
gmd:facsimile	faxNum	gco:CharacterString	0..*

Attribute: gmd:voice

Code	voiceNum
Description Text	Telephone number by which individuals can speak to the responsible organization or individual.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:facsimile

Code	faxNum
Description Text	Telephone number of a facsimile machine for the responsible organization or individual.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:contentInformation

Code ContInfo
Description Text The block contains a brief description of the dataset and information about how to locate the provider and/or ISO FeatureCatalogue.

Choose a subtype.

gmd:EX_BoundingPolygon

Code BoundPoly
Description Text Boundary enclosing the dataset, expressed as the closed set of (x,y) coordinates of the polygon (last point replicates the first point).

Attributes

Name	Code	Data Type	Multiplicity
gmd:extentTypeCode	exTypeCode	gco:Boolean	0..1
gmd:polygon	polygon	choose polygon	1..*

		subtype	

Attribute: gmd:extentTypeCode

Code	exTypeCode
Description Text	Indication of whether the bounding polygon encompasses an area covered by the data or an area where the data is not present.
Data Type	gco:Boolean
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:polygon

Code	polygon
Description Text	Set of points defining the bounding polygon.
Data Type	choose polygon subtype
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

gmd:EX_Extent

Code	Extent
Description Text	Information about horizontal, vertical, and temporal extent. count(description + geographicElement + temporalElement + verticalElement) > 0

Attributes

Name	Code	Data Type	Multiplicity
gmd:description	exDesc	gco:CharacterString	0..1
gmd:geographicElement	geoEle	choose geographicElement subtype	0..*
gmd:temporalElement	tempEle	gmd:EX_TemporalExtent	0..*
gmd:verticalElement	vertEle	gmd:EX_VerticalExtent	0..*

Attribute: gmd:description

Code	exDesc
Description Text	Spatial and temporal extent for the referring object.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:geographicElement

Code	geoEle
Description Text	Provides geographic component of the extent of the referring object.
Data Type	choose geographicElement subtype
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:temporalElement

Code	tempEle
Description Text	Provides temporal component of the extent of the referring object.
Data Type	gmd:EX_TemporalExtent
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:verticalElement

Code	vertEle
Description Text	Provides vertical component of the extent of the referring object.
Data Type	gmd:EX_VerticalExtent
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:EX_GeographicBoundingBox

Code	GeoBndBox
Description Text	Geographic position of the dataset. Note: This is only an approximate reference so specifying the coordinate reference system is unnecessary.

Attributes

Name	Code	Data Type	Multiplicity
gmd:extentTypeCode	exTypeCode	gco:Boolean	0..1
gmd:westBoundLongitude	westBL	gco:Decimal	1..1
gmd:eastBoundLongitude	eastBL	gco:Decimal	1..1
gmd:southBoundLatitude	southBL	gco:Decimal	1..1
gmd:northBoundLatitude	northBL	gco:Decimal	1..1

Attribute: gmd:extentTypeCode

Code	exTypeCode
Description Text	Indication of whether the bounding polygon encompasses an area covered by the data or an area where the data is not present.
Data Type	gco:Boolean
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:westBoundLongitude

Code	westBL
Description Text	Western-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east).
Data Type	gco:Decimal
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:eastBoundLongitude

Code	eastBL
Description Text	Eastern-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east).
Data Type	gco:Decimal
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:southBoundLatitude

Code	southBL
Description Text	Southern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north).
Data Type	gco:Decimal
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:northBoundLatitude

Code	northBL
Description Text	Northern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north).
Data Type	gco:Decimal
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:EX_GeographicDescription

Code	GeoDesc
Description Text	Not described in this model.

gmd:EX_TemporalExtent

Code	TempExtent
Description Text	Date and Time for the content of the dataset

Attributes

Name	Code	Data Type	Multiplicity

gmd:extent	exTemp	choose TM_Primitive subtype	1..1

Attribute: gmd:extent

Code	exTemp
Description Text	Choose subtype.
Data Type	choose TM_Primitive subtype
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:EX_VerticalExtent

Code	VertExtent
Description Text	Vertical domain of dataset.

Attributes

Name	Code	Data Type	Multiplicity
gmd:minimumValue	vertMinVal	Real	1..1
gmd:maximumValue	vertMaxValue	Real	1..1
gmd:verticalCRS	vertCRS	(none)	1..1

Attribute: gmd:minimumValue

Code	vertMinVal
Description Text	Lowest vertical extent contained in the dataset.
Data Type	Real
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:maximumValue

Code	vertMaxValue
Description Text	Highest vertical extent contained in the dataset.
Data Type	Real
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:verticalCRS

Code	vertCRS
Description Text	Coordinate reference system for the vertical axis.
Data Type	(none)
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:geographicElement

Code	GeoExtent
Description Text	Geographic area of the dataset.

gmd:identificationInfo

Code	Ident
Description Text	Basic information required to uniquely identify a resource, choose a subtype.

gmd:LI_Lineage

Code	Lineage
Description Text	Non-quantitative quality information ... Information about the events or source data used in constructing the data specified by the scope or lack of knowledge about lineage. count (processStep + source) > 0

Attributes

Name	Code	Data Type	Multiplicity
gmd:statement	statement	gco:CharacterString	0..1
gmd:processStep	prcStep	gmd:LI_ProcessStep	0..*
gmd:source	dataSource	gmd:LI_Source	0..*

Attribute: gmd:statement

Code	statement
Description Text	General explanation of the data producer's knowledge about the lineage of a dataset.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:processStep

Code	prcStep
Description Text	Information about events in the life of a dataset specified by the scope.
Data Type	gmd:LI_ProcessStep
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:source

Code	dataSource
Description Text	Information about the source data used in creating the data specified by the scope.

Data Type	gmd:LI_Source
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:LI_ProcessStep

Code	ProcessStep
Description Text	Information about an event or transformation in the life of a dataset including the process used to maintain the dataset.

Attributes

Name	Code	Data Type	Multiplicity
gmd:description	stepDesc	gco:CharacterString	1..1
gmd:rationale	stepRat	gco:CharacterString	0..1
gmd:dateTime	stepDateTm	gco:DateTime	
gmd:processor	stepPorc	gmd:CI_ResponsibleParty	0..*

Attribute: gmd:description

Code	stepDesc
Description Text	Description of the event, including related parameters or tolerances.
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:rationale

Code	stepRat
Description Text	Requirement or purpose for the process step.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:dateTime

Code	stepDateTm
Description Text	Date and time or range of date and time on or over which the process step occurred.
Data Type	gco:DateTime
Mandatory	No
Multiplicity	
Domain	ISO 8601

Attribute: gmd:processor

Code	stepPorc
Description Text	Identification of, and means of communication with, person(s) and organization(s) associated with the process step.
Data Type	gmd:CI_ResponsibleParty
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:LI_Source

Code	Source
Description Text	Information about the source data used in creating the data specified by the scope.

Attributes

Name	Code	Data Type	Multiplicity
gmd:description	srcDesc	gco:CharacterString	0..1
gmd:sourceCitation	srcCitatn	gmd:CI_Citation	0..1
gmd:sourceStep	srcStep	gmd:LI_ProcessStep	0..*

Attribute: gmd:description

Code	srcDesc
Description Text	Detailed description of the level of the source data.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:sourceCitation

Code	srcCitatn
Description Text	Recommended reference to be used for the source data.
Data Type	gmd:CI_Citation
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:sourceStep

Code	srcStep
Description Text	Information about an event in the creation process for the source data.
Data Type	gmd:LI_ProcessStep
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:MD_BrowseGraphic

Code	BrowGraph
Description Text	Graphic that provides an illustration of the dataset (should include a legend for the graphic) e.g. a physical data model.

Attributes

Name	Code	Data Type	Multiplicity
gmd:fileName	bgFileName	gco:CharacterString	1..1
gmd:fileDescription	bgFileDesc	gco:CharacterString	0..1
gmd:fileType	bgFileType	gco:CharacterString	0..1

Attribute: gmd:fileName

Code	bgFileName
Description Text	Name of the file that contains a graphic that provides an illustration of the dataset.
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:fileDescription

Code	bgFileDesc
Description Text	Text description of the illustration.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:fileType

Code	bgFileType
Description Text	Format in which the illustration is encoded; examples (PDF, JPEG, TIFF).
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_Constraints

Code	Gmd:MDConstraints
Description Text	Restrictions on the access and use of a resource or metadata.

Attributes

Name	Code	Data Type	Multiplicity

gmd:useLimitation	useLimit	gco:CharacterString	1..*

Attribute: gmd:useLimitation

Code	useLimit
Description Text	Limitation affecting the fitness for use of the resource or metadata – Example, "not to be used for navigation".
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

gmd:MD_CoverageDescription

Code	Gmd:MDCoverageDescription
Description Text	Note: Not defined in this model.

gmd:MD_DataIdentification

Code	DataIdent
Description Text	Information required to identify a dataset. graphicOverview attribute uses tag attribute xlink:href="" to specify link to browse graphic file. descriptiveKeywords attribute uses tag attribute xlink:href="" to specify link to thesaurus.

Attributes

Name	Code	Data Type	Multiplicity
gmd:citation	idCitation	gmd:CI_Citation	1..1
gmd:abstract	idAbs	gco:CharacterString	1..1
gmd:purpose	idPurp	gco:CharacterString	0..1
gmd:credit	idCredit	gco:CharacterString	0..*
gmd:status	idStatus	codeList	
gmd:pointOfContact	idPoC	gmd:CI_ResponsibleParty	0..*
gmd:resourceMaintenance	resMaintenance	gmd:MD_MaintenanceInformation	0..*
gmd:graphicOverview	graphOver	gmd:MD_BrowseGraphic	0..*
gmd:resourceFormat	dsFormat	gmd:MD_Format	0..*
gmd:descriptiveKeywords	descKeys	gmd:MD_Keywords	0..*
gmd:resourceSpecificUsage	idSpecUse	gmd:MD_Usage	0..*

gmd:resorceConstraints	resConst	choose resourceConstraints subtype	0..*
gmd:taxonomy	taxonomy	gmd:MD_TaxonSys	0..1
gmd:spatialRepresentationType	spatRpType	codeList	
gmd:spatialResolution	dataScale	gmd:MD_Resolution	0..*
gmd:language	dataLang	gco:CharacterString	
gmd:topicCategory	tpCat	enumeration	
gmd:environmentDescription	envirDesc	gco:CharacterString	0..1
gmd:extent	dataExt	gmd:EX_Extent	0..*
gmd:supplementalInformation	suppInfo	gco:CharacterString	0..1

Attribute: gmd:citation

Code	idCitation
Description Text	Citation data for the resource(s).
Data Type	gmd:CI_Citation
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:abstract

Code	idAbs
Description Text	Brief narrative summary of the content of the resource(s).
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:purpose

Code	idPurp
Description Text	Summary of the intentions with which the resource(s) was developed.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:credit

Code	idCredit
Description Text	Recognition of those who contributed to the resource(s).
Data Type	gco:CharacterString

Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:status

Code	idStatus
Description Text	Status of the resource(s).
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_ProgressCode

Attribute: gmd:pointOfContact

Code	idPoC
Description Text	Identification of, and means of communication with, person(s) and organizations(s) associated with the resource(s).
Data Type	gmd:CI_ResponsibleParty
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:resourceMaintenance

Code	resMaintenance
Description Text	Provides information about the frequency of resource updates, and the scope of those updates.
Data Type	gmd:MD_MaintenanceInformation
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:graphicOverview

Code	graphOver
Description Text	Provides a graphic that illustrates the resource(s) (should include a legend for the graphic) (use for logical and physical data models); tag attribute xlink:href="" provides link to browse graphic.
Data Type	gmd:MD_BrowseGraphic
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:resourceFormat

Code	dsFormat
Description Text	Provides a description of the format of the resource(s).
Data Type	gmd:MD_Format
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:descriptiveKeywords

Code	descKeys
Description Text	Provides category keywords, their type, and reference source.
Data Type	gmd:MD_Keywords
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:resourceSpecificUsage

Code	idSpecUse
Description Text	Provides basic information about specific application(s) for which the resource(s) has/have been or is being used by different users.
Data Type	gmd:MD_Usage
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:resorceConstraints

Code	resConst
Description Text	Provides information about constraints which apply to the resource(s).
Data Type	choose resourceConstraints subtype
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:taxonomy

Code	taxonomy
Description Text	Information on the taxa (1 or more) included in the data set, including keywords, taxonomic system and coverage information, and taxonomic classification system.
Data Type	gmd:MD_TaxonSys
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:spatialRepresentationType

Code	spatRpType
Description Text	Method used to spatially represent geographic information – NOTE: the data file type.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_SpatialRepresentationTypeCode

Attribute: gmd:spatialResolution

Code	dataScale
Description Text	Factor which provides a general understanding of the density of spatial data in the dataset.
Data Type	gmd:MD_Resolution
Mandatory	No
Multiplicity	0..*

Domain	<None>

Attribute: gmd:language

Code	dataLang
Description Text	Language(s) used within the dataset.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	
Domain	ISO 639-2

Attribute: gmd:topicCategory

Code	tpCat
Description Text	Main theme(s) of the dataset – NOTE: only if hierarchy level equals 'dataset'.
Data Type	enumeration
Mandatory	No
Multiplicity	
Domain	MD_TopicCategoryCode

Attribute: gmd:environmentDescription

Code	envirDesc
Description Text	Description of the dataset in the producer's processing environment, including items such as the software, the computer, the computer operating system, file name, and the dataset size.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:extent

Code	dataExt
Description Text	Extent information including the bounding box, bounding polygon, vertical, and temporal extent of the dataset. Note: Use only if hierarchy level equals 'dataset'.
Data Type	gmd:EX_Extent
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:supplementalInformation

Code	suppInfo
Description Text	Any other descriptive information about the dataset.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_DigitalTransferOptions

Code Gmd:MDDigitalTransferOptions

Description Text Technical means and media by which a resource is obtained from the distributor.

Attributes

Name	Code	Data Type	Multiplicity
gmd:onLine	onLineSrc	gmd:CI_OnlineResource	0..*
gmd:offLine	offLineSrc	gmd:MD_Medium	0..1

Attribute: gmd:onLine

Code	onLineSrc
Description Text	Informaiton about online sources from which the resource can be obtained.
Data Type	gmd:CI_OnlineResource
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:offLine

Code	offLineSrc
Description Text	Information about offline media on which the resource can be obtained.
Data Type	gmd:MD_Medium
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_Distribution

Code Distrib
Description Text Information about the distributor of and options for obtaining the resorce.

Attributes

Name	Code	Data Type	Multiplicity
gmd:distributor	distributor	gmd:MD_Distributor	1..*

Attribute: gmd:distributor

Code	distributor
Description Text	Provides information about the distributor.
Data Type	gmd:MD_Distributor
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

gmd:MD_Distributor

Code Distributor

Description Text Information about the distributor.

Attributes

Name	Code	Data Type	Multiplicity
gmd:distributorContact	distorCont	gmd:CI_ResponsibleParty	1..1
gmd:distributionOrderProcess	distorOrdPrc	gmd:MD_StandardOrderProcess	0..*
gmd:distributorFormat	distorFormat	gmd:MD_Format	0..*
gmd:distributorTransferOptions	distorTran	gmd:MD_DigitalTransferOptions	0..*

Attribute: gmd:distributorContact

Code	distorCont
Description Text	Party from whom the resource may be obtained. Note: This list need not be exhaustive.
Data Type	gmd:CI_ResponsibleParty
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:distributionOrderProcess

Code	distorOrdPrc
Description Text	Provides information about how the resource may be obtained and related instructions and fee information.
Data Type	gmd:MD_StandardOrderProcess
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:distributorFormat

Code	distorFormat
Description Text	Provides information about the format used by the distributor.
Data Type	gmd:MD_Format
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:distributorTransferOptions

Code	distorTran
Description Text	Provides information about the technical means and media used by the distributor.
Data Type	gmd:MD_DigitalTransferOptions
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:MD_ExtendedElementInformation

Code	Gmd:MDExtendedElementInformation
Description Text	New metadata element, not found in ISO 19115, which is required to describe geographic data.

Attributes

Name	Code	Data Type	Multiplicity
name	extEleName	gco:CharacterString	1..1
shortName	extShortName	gco:CharacterString	0..1
definition	extEleDef	gco:CharacterString	1..1
obligation	extEleOb	MD_ObligationCode	0..1
dataType	eleDataType	MD_DatatypeCode	1..1
maximumOccurence	extEleMxOc	gco:CharacterString	0..1
parentEntity	extEleParEnt	gco:CharacterString	1..*
rule	extEleRule	gco:CharacterString	1..1
rationale	extEleRat	gco:CharacterString	0..*
source	extEleSrc	CI_ResponsibleParty	1..*

Attribute: name

Code	extEleName
Description Text	
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: shortName

Code	extShortName
Description Text	
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: definition

Code	extEleDef
Description Text	
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: obligation

Code	extEleOb
Description Text	
Data Type	MD_ObligationCode
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: dataType

Code	eleDataType
Description Text	
Data Type	MD_DatatypeCode
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: maximumOccurence

Code	extEleMxOc
Description Text	
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: parentEntity

Code	extEleParEnt
Description Text	
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

Attribute: rule

Code	extEleRule
Description Text	
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: rationale

Code	extEleRat
Description Text	
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: source

Code	extEleSrc
Description Text	
Data Type	CI_ResponsibleParty
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

gmd:MD_FeatureCatalogueDescription

Code	FetCatDesc
Description Text	Information identifying the feature catalogue or the conceptual schema for the dataset. The tag includes the uuid=" " parameter containing the GUID of the referenced schema.

Attributes

Name	Code	Data Type	Multiplicity
gmd:complianceCode	compCode	gco:Boolean	
gmd:language	gmd:language	gco:CharacterString	
gmd:includedWithDataset	incWithDS	gco:Boolean	1..1
gmd:featureCatalogueCitation	catCitation	gmd:CI_Citation	

Attribute: gmd:complianceCode

Code	compCode
Description Text	Indication of whether or not the cited feature catalogue complies with AIO 19110.
Data Type	gco:Boolean
Mandatory	No
Multiplicity	
Domain	<None>

Attribute: gmd:language

Code	gmd:language
Description Text	Language(s) used within the catalogue.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	
Domain	ISO 3166

Attribute: gmd:includedWithDataset

Code	incWithDS
Description Text	Indication of whether or not the feature catalogue is included with the dataset.
Data Type	gco:Boolean
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:featureCatalogueCitation

Code	catCitation
Description Text	Complete bibliographic reference to one or more external feature catalogues.
Data Type	gmd:CI_Citation
Mandatory	No
Multiplicity	
Domain	<None>

gmd:MD_Format

Code	Format
Description Text	Description of the computer language construct that specifies the representation of the data objects in a record, file, message, storage device or transmisson channel.

Attributes

Name	Code	Data Type	Multiplicity
gmd:name	formatName	gco:CharacterString	1..1
gmd:version	formatVersion	gco:CharacterString	1..1

Attribute: gmd:name

Code	formatName
Description Text	Name of the data transfer format(s).
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:version

Code	formatVersion
Description Text	Version of the format (date, number, etc.)
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:MD_Keywords

Code	Keywords
Description Text	Keywords, their type and reference source.

Attributes

Name	Code	Data Type	Multiplicity
gmd:keyword	gmd:keyword	gco:CharacterString	1..*
gmd:type	keyTyp	codeList	
gmd:thesaurusName	thesaName	gmd:CI_Citation	0..1

Attribute: gmd:keyword

Code	gmd:keyword
Description Text	Commonly used word(s) or formalized word(s) or phrase(s) used to describe the subject.
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

Attribute: gmd:type

Code	keyTyp
Description Text	Subject matter used to group similar keywords.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_KeywordTypeCode

Attribute: gmd:thesaurusName

Code	thesaName
Description Text	Name of the formally registered thesaurus or a similar authoritative source of keywords; tag attribute xlink:href="" provides link to online thesaurus.
Data Type	gmd:CI_Citation
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_LegalConstraints

Code	LegConsts
Description Text	Restrictions and legal prerequisites for accessing and using the resource or metadata. count(accessConstraints + useConstraints + otherConstraints) > 0

Attributes

Name	Code	Data Type	Multiplicity
gmd:accessConstraints	accessConsts	codeList	

gmd:useConstraints gmd:otherConstraints	useConsts othConsts	codeList gco:CharacterString	0..*

Attribute: gmd:accessConstraints

Code	accessConsts
Description Text	Access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the resource or metadata.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_RestrictionCode

Attribute: gmd:useConstraints

Code	useConsts
Description Text	Constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_RestrictionCode

Attribute: gmd:otherConstraints

Code	othConsts
Description Text	Other restrictions and legal prerequisites for accessing and using the resource or metadata.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:MD_MaintenanceInformation

Code	Gmd:MDMaintenanceInformation
Description Text	Information about the scope and frequency of updating.

Attributes

Name	Code	Data Type	Multiplicity
gmd:maintenanceAndUpdateFrequency	maintFreq	codeList	
gmd:maintenanceNote	maintNote	gco:CharacterString	0..*
gmd:contact	gmd:contact	gmd:CI_ResponsibleParty	0..*

Attribute: gmd:maintenanceAndUpdateFrequency

Code	maintFreq

Description Text	Frequency with which changes and additions are made to the resource is completed.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_MaintenanceFrequencyCode

Attribute: gmd:maintenanceNote

Code	maintNote
Description Text	Information regarding specific requirements for maintaining the resource.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:contact

Code	gmd:contact
Description Text	Identification of, and means of communicating with, person(s) and organization(s) with responsibility for maintaining the metadata.
Data Type	gmd:CI_ResponsibleParty
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:MD_Medium

Code	Medium
Description Text	Information about the media on which the resource can be distributed.

Attributes

Name	Code	Data Type	Multiplicity
gmd:name	medName	codeList	
gmd:mediumFormat	medFormat	codeList	
gmd:mediumNote	gmd:mediumNote	gco:CharacterString	0..1

Attribute: gmd:name

Code	medName
Description Text	Name of the medium on which the resource can be received.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_MediumNameCode

Attribute: gmd:mediumFormat

Code	medFormat
Description Text	Method used to write to the medium.
Data Type	codeList

Mandatory	No
Multiplicity	
Domain	MD_MediumFormatCode

Attribute: gmd:mediumNote

Code	gmd:mediumNote
Description Text	Description of other limitations or requirements for using the medium.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_MetadataExtensionInformation

Code	MdExInfo
Description Text	Information describing metadata extensions. This block will be automatically populated by the writer for ISOBio and ADIwg Project Metadata data standards; other extensions will need to be specified through the JSON content. The standard taxonomic extension block is available from NOAA.

Attributes

Name	Code	Data Type	Multiplicity
gmd:extensionOnLineResource	extOnRes	CI_OnlineResource	0..1
gmd:extendedElementInformation	extEleInfo	MD_ExtendedElementInformation	0..*

Attribute: gmd:extensionOnLineResource

Code	extOnRes
Description Text	
Data Type	CI_OnlineResource
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:extendedElementInformation

Code	extEleInfo
Description Text	
Data Type	MD_ExtendedElementInformation
Mandatory	No
Multiplicity	0..*
Domain	<None>

gmd:MD_RepresentativeFraction

Code	RepFract
Description Text	Derived from ISO 19103 Scale where MD_Representative Fraction.denominator =

1/Scale.measure And Scale.targetUnits = Scale.sourceUnits.

Attributes

Name	Code	Data Type	Multiplicity
gmd:denominator	rDenom	gco:Integer	1..1

Attribute: gmd:denominator

Code	rDenom
Description Text	The number below the line in a vulgar fraction.
Data Type	gco:Integer
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:MD_Resolution

Code	Resol
Description Text	Level of detail expressed as a scale factor or a ground distance. Attribute tag uom=" " for distance allows qualification of units of measure. count(equivalentScale + distance) = 1

Attributes

Name	Code	Data Type	Multiplicity
gmd:equivalentScale	equScale	gmd:MD_RepresentativeFraction	0..1
gmd:distance	scaleDist	gco:Distance	0..1

Attribute: gmd:equivalentScale

Code	equScale
Description Text	Level of detail expressed as the scale of a comparable hardcopy map or chart.
Data Type	gmd:MD_RepresentativeFraction
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:distance

Code	scaleDist
Description Text	Ground sample distance.
Data Type	gco:Distance
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_SecurityConstraints

Code	SecConsts
Description Text	Handling restrictions imposed on the resource or metadata for national security or similar security concerns.

Attributes

Name	Code	Data Type	Multiplicity
gmd:classification	class	codeList	
gmd:userNote	userNote	gco:CharacterString	0..1
gmd:classificationSystem	classSys	gco:CharacterString	0..1
gmd:handlingDescription	handDesc	gco:CharacterString	0..1

Attribute: gmd:classification

Code	class
Description Text	Name of the handling restrictions on the resource or metadata.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_ClassificationCode

Attribute: gmd:userNote

Code	userNote
Description Text	Explanation of the application of the legal constraints or other restrictions and legal prerequisites for obtaining and using the resource or metadata.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:classificationSystem

Code	classSys
Description Text	Name of the classification system.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:handlingDescription

Code	handDesc
Description Text	Additional information about the restrictions on handling the resource or metadata.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1

Domain	<None>

gmd:MD_ServiceIdentification

Code	Gmd:MDServiceIdentification
Description Text	Note: Not described in this model.

gmd:MD_StandardOrderProcess

Code	StanOrdProc
Description Text	Common ways in which the resource may be obtained or received, and related instructions and fee information.

Attributes

Name	Code	Data Type	Multiplicity
gmd:fees	resFees	gco:CharacterString	0..1
gmd:plannedAvailableDateTime	planAvDtTm	gco:DateTime	
gmd:orderingInstructions	ordInstr	gco:CharacterString	0..1
gmd:turnaround	ordTurn	gco:CharacterString	0..1

Attribute: gmd:fees

Code	resFees
Description Text	Fees and terms for retrieving the resource, including monetary units (as specified in ISO 4217).
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:plannedAvailableDateTime

Code	planAvDtTm
Description Text	Date and time when the resource will be available.
Data Type	gco:DateTime
Mandatory	No
Multiplicity	
Domain	ISO 8601

Attribute: gmd:orderingInstructions

Code	ordInstr
Description Text	General instructions, terms and services provided by the distributor.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1

Domain	<None>

Attribute: gmd:turnaround

Code	ordTurn
Description Text	Typical turnaround time for the filling of an order.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_TaxonCI

Code	Gmd:MDTaxonCI
Description Text	Information about the range of taxa addressed in the data set or collection. It is recommended that one provide information starting from the taxonomic rank of kingdom, to a level which reflects the data set or collection being documented. The levels of Kingdom, Division/Phylum, class, Order, Family, Genus, and Species should be included as ranks as appropriate.

Attributes

Name	Code	Data Type	Multiplicity
gmd:common	gmd:common	gco:CharacterString	0..*
gmd:taxonrn	gmd:taxonrn	gco:CharacterString	0..1
gmd:taxonrv	gmd:taxonrv	gco:CharacterString	0..1
gmd:taxonCI	gmd:taxonCI	gmd:MD_TaxonCI	0..1

Attribute: gmd:common

Code	gmd:common
Description Text	Specification of applicable common names. These common names may be general descriptions of a group of organisms if appropriate (e.g. insects, vertebrate, grasses, waterfowl, vascular plants, etc.).
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:taxonrn

Code	gmd:taxonrn
Description Text	Name of the taxonomic rank for which the Taxon_Rank_Value is provided. See the example included in the definition of Taxonomic_Classification. Example: "Kingdom", "Division", "Phylum", "Subphylum", "SuperClass", "Class", "SubClass", "InfraClass", "Superorder", "Order", "Suborder", "Infraorder", "Superfamily", "Family", "Subfamily", "Tribe", "Subtribe", "Genus", "Species".

Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:taxonrv

Code	gmd:taxonrv
Description Text	Taxonomic rank value of the taxon being described.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:taxonCI

Code	gmd:taxonCI
Description Text	
Data Type	gmd:MD_TaxonCI
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmd:MD_TaxonSys

Code	Gmd:MDTaxonSys
Description Text	Documentation of taxonomic sources, procedures, and treatments.

Attributes

Name	Code	Data Type	Multiplicity
gmd:classSys	gmd:classSys	gmd:CI_Citation	1..*
gmd:taxongen	gmd:taxongen	gco:CharacterString	0..1
gmd:idref	gmd:idref	gco:nilReason	0..*
gmd:obs	gmd:obs	gmd:CI_ResponsibleParty	0..*
gmd:taxonpro	gmd:taxonpro	gco:CharacterString	1..1
gmd:voucher	gmd:voucher	gmd:MD_Vouchers	0..1
gmd:taxonCI	gmd:taxonCI	gmd:MD_TaxonCI	1..1

Attribute: gmd:classSys

Code	gmd:classSys
Description Text	Information about the classification system or authority used.
Data Type	gmd:CI_Citation
Mandatory	Yes
Multiplicity	1..*

Domain	<None>

Attribute: gmd:taxongen

Code	gmd:taxongen
Description Text	Description of the range of taxa addressed in the data set or collection. For example, "all vascular plants were identified to family or species, mosses and lichens were identified as moss or lichen".
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:idref

Code	gmd:idref
Description Text	Information on any non-authoritative materials (e.g. field guides) useful for reconstructing the actual process.
Data Type	gco:nilReason
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:obs

Code	gmd:obs
Description Text	Information about the individual(s) responsible for the identification(s) of the specimens or sightings. etc.
Data Type	gmd:CI_ResponsibleParty
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:taxonpro

Code	gmd:taxonpro
Description Text	Description of the methods used for taxonomic identification. Could include specimen processing, comparison with museum materials, keys, and key characters, chemical or genetic analyses, etc.
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:voucher

Code	gmd:voucher
Description Text	Information about the voucher.
Data Type	gmd:MD_Vouchers
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:taxonCI

Code	gmd:taxonCI
Description Text	Information about the range of taxa addressed in the data set or collection. It is recommended that one provide information starting from the taxonomic rank of kingdom, to a level which reflects the data set or collection being documented. The levels of Kingdom, Division/Phylum, class, Order, Family, Genus, and Species should be included as ranks as appropriate.
Data Type	gmd:MD_TaxonCI
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:MD_Usage

Code	Usage
Description Text	Brief Description of ways in which the resource(s) is/are currently or have been used.

Attributes

Name	Code	Data Type	Multiplicity
gmd:specificUsage	specUsage	gco:CharacterString	1..1
gmd:userDeterminedLimitations	usrDetLim	gco:CharacterString	0..1
gmd:userContactInfo	usrCntInfo	gmd:CI_ResponsibleParty	1..*

Attribute: gmd:specificUsage

Code	specUsage
Description Text	Brief description of the resource and/or resource series usage.
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:userDeterminedLimitations

Code	usrDetLim
Description Text	Applications, determined by the user for which the resource and/or resource series is not suitable.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:userContactInfo

Code	usrCntInfo
Description Text	Identification of and means of communicating with the person(s) and organization(s) using the resource(s).
Data Type	gmd:CI_ResponsibleParty

Mandatory	Yes
Multiplicity	1..*
Domain	<None>

gmd:MD_Vouchers

Code	Gmd:MDVouchers
Description Text	Information on the types of specimen, the repository, and the individuals who identified the vouchers.

Attributes

Name	Code	Data Type	Multiplicity
gmd:specimen	gmd:specimen	gco:CharacterString	1..1
gmd:reposit	gmd:reposit	gmd:CI_ResponsibleParty	1..1

Attribute: gmd:specimen

Code	gmd:specimen
Description Text	Word or phrase describing the type of specimen collected (e.g. herbarium specimens, blood samples, photographs, individuals, or batches). Example: "herbarium specimens", "blood samples", "photographs", "individuals", "free text".
Data Type	gco:CharacterString
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:reposit

Code	gmd:reposit
Description Text	Information about the curator or contact person and/or agency responsible for the specimens.
Data Type	gmd:CI_ResponsibleParty
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gmd:polygon

Code	gmd:polygon
Description Text	An abstract class for defining multiple GML geometries not all of which are defined in this model. Not defined: MultiSolid, CompositeSolid, Solid, GeometricComplex, Tin, OrientableSurface, MultiPoint, Conposite Curve, TriangulatedSurface, MultiSurface, Orientable Curve, CompositeSurface, MultiCurve, RectificedGrid, Surface, Grid, Curve, PolyhedralSurface

gmd:resourceConstraints

Code consts
Description Text Choose subtype.

gmd_MD_ImageDescription

Code GmdMdImageDescription
Description Text Note: Not defined in this model.

gmi:MI_CoverageDescription

Code Gmi:MICoverageDescription
Description Text Note: Not defined in this model.

gmi:MI_ImageDescription

Code Gmi:MIImageDescription
Description Text Note: Not defined in this model.

gmi:MI_Metadata

Code Metadata
Description Text Root entity which defines metadata about a resource or resources.

Attributes

Name	Code	Data Type	Multiplicity
gmd:fileIdentifier	mdFileID	gco:CharacterString (GUID)	0..1
gmd:language	mdLang	gco:CharacterString	
gmd:characterSet	mdChar	codeList	
gmd:parentIdentifier	mdParentID	gco:CharacterString	0..1
gmd:hierarchyLevel	gmd:hierarchyLevel	codeList	
gmd:contact	mdContact	gmd:CI_ResponsibleParty	1..*
gmd:dateStamp	mdDateSt	gco:Date	1..1
gmd:metadataStandardName	mdStanName	gco:CharacterString	0..1
gmd:metadataStandardVersion	mdStanVer	gco:CharacterString	0..1
gmd:dataSetURI	dataSetURII	gco:CharacterString	0..1
gmd:referenceSystemInfo	refSysInfo	attributes	0..*
gmd:metadataExtensionInfo	gmd:metadataExtensionInfo	gmd:MD_MetadataExtensionInformation	0..*

gmd:identificationInfo	dataIdInfo	choose identificationInfo subtype	1..*
gmd:contentInfo	contInfo	choose contentInfo subtype	0..*
gmd:distributionInfo	distInfo	gmd:MD_Distribution	0..1
gmd:dataQualityInfo	dqInfo	gmd:DQ_DataQuality	0..*
gmd:metadataMaintenance	mdMaint	gmd:MD_MaintenanceInformation	0..1

Attribute: gmd:fileIdentifier

Code	mdFileID
Description Text	Unique identifier for this metadata file.
Data Type	gco:CharacterString (GUID)
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:language

Code	mdLang
Description Text	Language used for documenting metadata.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	
Domain	ISO 639-2

Attribute: gmd:characterSet

Code	mdChar
Description Text	Full name of the character coding standard used for the metadata set.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_CharacterSetCode

Attribute: gmd:parentIdentifier

Code	mdParentID
Description Text	File identifier of the metadata to which this metadata is a subset (child).
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:hierarchyLevel

Code	gmd:hierarchyLevel
Description Text	Scope to which the metadata applies.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_ScopeCode

Attribute: gmd:contact

Code	mdContact
Description Text	Party responsible for metadata information (metadata custodian).
Data Type	gmd:CI_ResponsibleParty
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

Attribute: gmd:dateStamp

Code	mdDateSt
Description Text	Date that the metadata was created.
Data Type	gco:Date
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

Attribute: gmd:metadataStandardName

Code	mdStanName
Description Text	Name of the metadata standard used.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:metadataStandardVersion

Code	mdStanVer
Description Text	Version (profile) of the metadata standard used.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:dataSetURI

Code	dataSetURII
Description Text	Uniform Resource Identifier (URI) of the dataset to which the metadata applies.
Data Type	gco:CharacterString
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:referenceSystemInfo

Code	refSysInfo
Description Text	Description of the spatial and temporal reference systems used in the dataset.
Data Type	attributes
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:metadataExtensionInfo

Code	gmd:metadataExtensionInfo
Description Text	Information describing the extension to metadata – NOTE: required to include TAXON for biological extension.
Data Type	gmd:MD_MetadataExtensionInformation
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:identificationInfo

Code	dataIdInfo
Description Text	Basic information about the resource(s) to which the metadata applies.
Data Type	choose identificationInfo subtype
Mandatory	Yes
Multiplicity	1..*
Domain	<None>

Attribute: gmd:contentInfo

Code	contInfo
Description Text	Provides information about the feature catalogue and describes the coverage and image data characteristics – NOTE: Provides the link to ISO 19110 entity and attribute information.
Data Type	choose contentInfo subtype
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gmd:distributionInfo

Code	distInfo
Description Text	Provides information about the distributor of and options for obtaining the resource(s).
Data Type	gmd:MD_Distribution
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:dataQualityInfo

Code	dqInfo
Description Text	Provides overall assessment of quality of a resource(s).
Data Type	gmd:DQ_DataQuality
Mandatory	No

Multiplicity	0..*
Domain	<None>

Attribute: gmd:metadataMaintenance

Code	mdMaint
Description Text	Provides information about the frequency of metadata updates, and the scope of those updates.
Data Type	gmd:MD_MaintenanceInformation
Mandatory	No
Multiplicity	0..1
Domain	<None>

gmi:QE_CoverageResult

Code	Gmi:QECoverageResult
Description Text	Not defined on model.

gmi:QE_Usability

Code	Usability
Description Text	Degree of adherence of a dataset to a specific set of user requirements.

Attributes

Name	Code	Data Type	Multiplicity
gmd:nameOfMeasure	measName	gco:CharacterString [0..n]	
gmd:measureIdentification	measId	gmd:MD_Identifier [0..1]	
gmd:measureDescription	measDesc	gco:CharacterString [0..1]	
gmd:dateTime	measDateTime	gco:DateTime [0..n]	
gmd:result	measResult	gmd:DQ_Result [M..2]	

Attribute: gmd:nameOfMeasure

Code	measName
Description Text	Name of the test applied to the data.
Data Type	gco:CharacterString [0..n]
Mandatory	No
Multiplicity	
Domain	<None>

Attribute: gmd:measureIdentification

Code	measId
Description Text	Code identifying a registered standard procedure.
Data Type	gmd:MD_Identifier [0..1]

Mandatory	No
Multiplicity	
Domain	<None>

Attribute: gmd:measureDescription

Code	measDesc
Description Text	Description of the measure.
Data Type	gco:CharacterString [0..1]
Mandatory	No
Multiplicity	
Domain	<None>

Attribute: gmd:dateTime

Code	measDateTime
Description Text	Data or range of dates on which a data quality measure was applied.
Data Type	gco:DateTime [0..n]
Mandatory	No
Multiplicity	
Domain	<None>

Attribute: gmd:result

Code	measResult
Description Text	Value (or set of values) obtained from applying a data quality measure or the outcome of evaluating the obtained value (or set of values) aganes a specified acceptable conformance quality level.
Data Type	gmd:DQ_Result [M..2]
Mandatory	No
Multiplicity	
Domain	<None>

gml:GenericMetaData

Code	GenMetaData
Description Text	The GenericMetaData class allows specification of additional attributes to a Point. There are over 600+ attributes from the GMD, GCO, and GML namespaces which are allowed. 3 of these related to specifying temporal information for the Point are included in this model.

Attributes

Name	Code	Data Type	Multiplicity
gco:date	genMetaDate	gco:DateTime	
gml:TimeInstant	genTimeInst	gml:TimeInstant [0..1]	0..1
gml:TimePeriod	genTimePerd	gml:TimePeriod [0..1]	0..1
gmd:MD_ScopeCode	MD_ScopeCode	codeList	
gmd:DS_InitiativeTypeCo	gmd:DSInitiativeTypeCode	codelist	

de			

Attribute: gco:date

Code	genMetaDate
Description Text	Date string.
Data Type	gco:DateTime
Mandatory	No
Multiplicity	
Domain	ISO 8601

Attribute: gml:TimeInstant

Code	genTimeInst
Description Text	A discrete instant in time (date, time, UTC offset).
Data Type	gml:TimeInstant [0..1]
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:TimePeriod

Code	genTimePerd
Description Text	A period of time marked by a beginning and ending datetime.
Data Type	gml:TimePeriod [0..1]
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gmd:MD_ScopeCode

Code	MD_ScopeCode
Description Text	Class of information to which the referencing entity applies.
Data Type	codeList
Mandatory	No
Multiplicity	
Domain	MD_ScopeCode

Attribute: gmd:DS_InitiativeTypeCode

Code	gmd:DSInitiativeTypeCode
Description Text	Type of aggregation activity in which datasets are related.
Data Type	codelist
Mandatory	No
Multiplicity	
Domain	DS_InitiativeTypeCode

gml:LinearRing

Code	LineRing
Description Text	A LinearRing must contain 4 or more points with the last being equal to the first to close the ring. The points can be defined either as discrete points using <gml:pos> or a set of coordinates using <gml:coordinates>.

ISO requires either the pos (position), posList, pointProperty, pointRep, or the coordinates element. The ADIwg standard allows only the coordinates element and thus it has been marked 'required'.

Attributes

Name	Code	Data Type	Multiplicity
gml:coordinates	lineRingCoord	longitude latitude [elevation]	1..1

Attribute: gml:coordinates

Code	lineRingCoord
Description Text	A sequence of longitude, latitude, and optional elevation tuples for each point in the linear ring; separate longitude, latitude, and elevation by commas; separate tuples by a space; must have 4 or more tuples.
Data Type	longitude latitude [elevation]
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gml:LineString

Code Gml:LineString

Description Text A LineString can be defined either as discrete points using <gml:pos> or a set of coordinates using <gml:coordinates>.

Attribute gml:id="" is required. Type is string and it must be unique within the metadata record. Attributes srsDimension="" and srsName="" are recommended (srs = spatial reference system). srsDimension is the number of dimensions for the coordinates (usually 2 or 3) and srsName is the crs or epsg system identifier.

ISO requires either the pos (position), posList, pointProperty, pointRep, or the coordinates element. The ADIwg standard allows only the coordinates element and thus it has been marked 'required'.

Attributes

Name	Code	Data Type	Multiplicity
gml:metaDataProperty	lineStrMetaProp	gml:GenericMetaData	0..*
gml:desctiption	lineStrDesc	string	0..1
gml:name	lineStrName	name	0..*
gml:coordinates	lineStrCoord	longitude latitude [elevation]	1..1

Attribute: gml:metaDataProperty

Code	lineStrMetaProp
Description Text	A metadata property native to another class but associated with the Line String class to

	define some characteristic of the Line String.
Data Type	gml:GenericMetaData
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:desctiption

Code	lineStrDesc
Description Text	Description of the line string.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:name

Code	lineStrName
Description Text	Name for the line string.
Data Type	name
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:coordinates

Code	lineStrCoord
Description Text	A sequence of longitude, latitude, and optional elevation tuples for each point in the line string; separate longitude, latitude, and elevation by commas; separate tuples by a space; must have 4 or more tuples.
Data Type	longitude latitude [elevation]
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gml:MultiGeometry

Code MultiGeo

Description Text A collection of geometries sharing some common traits.

Attribute gml:id="" is required. Type is string and it must be unique within the metadata record. Attributes srsDimension="" and srsName="" are recommended (srs = spatial reference system). srsDimension is the number of dimensions for the coordinates (usually 2 or 3) and srsName is the crs or epsg system identifier.

ISO requires either the geometryMembers or the geometryMember element. The ADIwg standard allows only the geometryMembers element and thus it has been marked 'required'.

Attributes

Name	Code	Data Type	Multiplicity
gml:description	multiGeoDesc	string	0..1

gml:name gml:geometryMembers	multiGeoName multiGeoMbr	string choose polygon subtype	0..* 1..1

Attribute: gml:description

Code	multiGeoDesc
Description Text	Description of the multi-geometry collection.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:name

Code	multiGeoName
Description Text	Name for the multi-geometry collection.
Data Type	string
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:geometryMembers

Code	multiGeoMbr
Description Text	One or more geometries that comprise the multi-geometry collection.
Data Type	choose polygon subtype
Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gml:Point

Code	Gml:Point
Description Text	A geographic or geometric point. Attribute gml:id="" is required. Type is string and it must be unique within the metadata record. Attributes srsDimension="" and srsName="" are recommended (srs = spatial reference system). srsDimension is the number of dimensions for the coordinates (usually 2 or 3) and srsName is the crs or epsg system identifier. gml:identifier > is a local or controlled identifier for the point. The codeSpace="" attribute must be present. codeSpace is of type URL and contains the link to the authority assigning the point's identifier e.g. http://www.gtnp.org for Global Terrestrial Network for Permafrost. If no URL is available, the codeSpace attribute must still appear but can be blank. ISO requires either the coordinates or the pos (position) element. The ADIwg standard allows only the coordinates element and thus it has been marked 'required'.

Attributes

Name	Code	Data Type	Multiplicity

gml:metaDataProperty	pointMetaProp	gml:GenericMeta Data	0..*
gml:description	pointDesc	string	0..1
gml:identifier	pointId	string	0..1
gml:name	pointName	string	0..*
gml:coordinates	pointCoord	longitude latitude [elevation]	1..1

Attribute: gml:metaDataProperty

Code	pointMetaProp
Description Text	A metadata property native to another class but associated with the Point class to define some characteristic of the point.
Data Type	gml:GenericMetaData
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:description

Code	pointDesc
Description Text	Description for the point.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:identifier

Code	pointId
Description Text	A local or controlled identifier for the point.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:name

Code	pointName
Description Text	Name for the point.
Data Type	string
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:coordinates

Code	pointCoord
Description Text	A sequence of longitude, latitude, and optional elevation tuples for a collection of individual points; separate longitude, latitude, and elevation by commas; separate tuples by a space.
Data Type	longitude latitude [elevation]

Mandatory	Yes
Multiplicity	1..1
Domain	<None>

gml:Polygon

Code	Polygon
Description Text	A Polygon can have 1 exterior and n interior rings. Attribute gml:id="" is required. Type is string and it must be unique within the metadata record. Attributes srsDimension="" and srsName="" are recommended (srs = spatial reference system). srsDimension is the number of dimensions for the coordinates (usually 2 or 3) and srsName is the crs or epsg system identifier.

Attributes

Name	Code	Data Type	Multiplicity
gml:metaDataProperty	polyMetaProp	gml:GenericMetaData	0..*
gml:description	polyDesc	string	0..1
gml:name	polyName	string	0..*
gml:exterior	polyExt	gml:LinearRing	0..1
gml:interior	polyInt	gml:LinearRing	0..*

Attribute: gml:metaDataProperty

Code	polyMetaProp
Description Text	A metadata property native to another class but associated with the Polygon class to define some characteristic of the polygon.
Data Type	gml:GenericMetaData
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:description

Code	polyDesc
Description Text	Description of polygon set.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:name

Code	polyName
Description Text	Name for polygon set.
Data Type	string
Mandatory	No
Multiplicity	0..*
Domain	<None>

Attribute: gml:exterior

Code	polyExt
Description Text	Outer boundary ring.
Data Type	gml:LinearRing
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:interior

Code	polyInt
Description Text	Interior boundary ring – area of exclusion.
Data Type	gml:LinearRing
Mandatory	No
Multiplicity	0..*
Domain	<None>

gml:TimeEdge

Code	Gml:TimeEdge
Description Text	Note: Not defined in this model. (same as TimePeriod)

gml:TimeInstant

Code	Gml:TimeInstant
Description Text	gml:TimeInstant implements ISO19108 TM_Instant and acts as a zero-dimensional geometric primitive that represents and identifiable position in time. Attribute gml:id="" is required.

Attributes

Name	Code	Data Type	Multiplicity
gml:description gml:timePosition	gml:description gml:timePosition	string gco:DateTime	0..1

Attribute: gml:description

Code	gml:description
Description Text	No definition.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:timePosition

Code	gml:timePosition
Description Text	The method for identifying a temporal position is specific to each temporal reference system. gml:TimePeriod implements ISO 19108 TM_Period and acts as a one-dimensional geometric primitive that represents an identifiable extent in time.
Data Type	gco:DateTime

Mandatory	No
Multiplicity	
Domain	ISO 8601

gml:TimeNode

Code	Gml:TimeNode
Description Text	Note: Not defined in this model. (same as TimeInstance)

gml:TimePeriod

Code	Gml:TimePeriod
Description Text	gml:TimePeriod implements ISO 19108 TM_Period and acts as a one-dimensional geometric primitive that represents an identifiable extent in time. Attribute gml:id="" is required.

Attributes

Name	Code	Data Type	Multiplicity
gml:description	gml:description	string	0..1
gml:beginPosition	gml:beginPosition	gco:DateTime	
gml:endPosition	gml:endPosition	gco:DateTime	

Attribute: gml:description

Code	gml:description
Description Text	No definition.
Data Type	string
Mandatory	No
Multiplicity	0..1
Domain	<None>

Attribute: gml:beginPosition

Code	gml:beginPosition
Description Text	No definition.
Data Type	gco:DateTime
Mandatory	No
Multiplicity	
Domain	ISO 8601

Attribute: gml:endPosition

Code	gml:endPosition
Description Text	No definition.
Data Type	gco:DateTime
Mandatory	No
Multiplicity	
Domain	ISO 8601

gml:TM_Primitive

Code	Gml:TMPrimitive
Description Text	Choose subtype.

gml:UnitDefinition

Code	Gml:UnitDefinition
Description Text	A UnitDefinition is a general definition of a unit of measure. This generic element is used only for units for which no relationship with other units or units systems is known. Not defined in this model.

svr:SV_ServiceIdentification

Code	Svr:SVServiceIdentification
Description Text	Note: Not described in this model.

CI_DateTypeCode

Name	Domain Code	Definition
CI_DateTypeCode	DateTypCd	Identification of when a given event occurred
creation	001	date identifies when the resource was brought into existence
publication	002	date identifies when the resource was issued
revision	003	date identifies when the resource was examined or re-examined and improved or amended

CI_OnLineFunctionCode

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

CI_RoleCode

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

DS_InitiativeTypeCode

DS_iniativeTypeCode

	Name	Domain Code	Definition
	Code Name	Code	Domain: definition
	Campaign	campaign	series of organized planned actions
	Collection	collection	accumulation of datasets assembled for a specific purpose
	Exercise	exercise	specific performance of a function or group of functions
	Experiment	experiment	process designed to find if something is effective or valid
	Investigation	investigation	search or systematic inquiry
	Mission	mission	specific operation of a data collection site
	Sensor	sensor	device or piece of equipment which detects or records
	Operation	operation	action that is part of a series of actions
	Platform	platform	vehicle or other support base that holds a sensor
	Process	process	method of doing something involving a number of steps
	Program	program	specific planned activity
	Project	project	organized undertaking, research, or development
	Study	study	examination or investigation
	Task	task	piece of work
	Trial	trial	process of testing to discover or demonstrate something

MD_CharacterSetCode

Name	Domain Code	Definition
MD_CharacterSetCode	CharSetCd	name of the character coding standard used for the resource
ucs2	001	16-bit fixed size Universal Character set, based on ISO/IEC 10646
ucs4	002	32-bit fixed size Universal Character set, based on ISO/IEC 10646
utf7	003	7-bit variable size UCS Transfer Format, based on ISO/IEC 10646
utf8	004	8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
utf16	005	16-bit variable size UCS Transfer Format, based on ISO/IEC 10646
8859part1	006	ISO/IEC 8859-1, Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1
8859part2	007	ISO/IEC 8859-2, Information technology – 8-bit single-byte coded graphic character sets – Part 2: Latin alphabet No. 2
8859part3	008	ISO/IEC 8859-3, Information technology – 8-bit single-byte coded graphic character sets – Part 3: Latin alphabet No. 3
8859part4	009	ISO/IEC 8859-4, Information technology – 8-bit single-byte coded graphic character sets – Part 4: Latin alphabet No. 4
8859part5	010	ISO/IEC 8859-5, Information technology – 8-bit single-byte coded graphic character sets – Part 5: Latin/Cyrillic alphabet
8859part6	011	ISO/IEC 8859-6, Information technology – 8-bit single-byte coded graphic character sets – Part 6: Latin/Arabic alphabet
8859part7	012	ISO/IEC 8859-7, Information technology – 8-bit single-byte coded graphic character sets – Part 7: Latin/Greek alphabet

8859part8	013	ISO/IEC 8859-8, Information technology – 8-bit single-byte coded graphic character sets – Part 8: Latin/Hebrew
8859part9	014	ISO/IEC 8859-9, Information technology – 8-bit single-byte coded graphic character sets – Part 9: Latin alphabet No. 5
8859part10	015	ISO/IEC 8859-10, Information technology – 8-bit single-byte coded graphic character sets – Part 10: Latin alphabet No. 6
8859part11	016	ISO/IEC 8859-11, Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin/Thai alphabet
(reserved)	017	
8859part13	018	ISO/IEC 8859-13, Information technology – 8-bit single-byte coded graphic character sets – Part 13: Latin alphabet No. 7
8859part14	019	ISO/IEC 8859-14, Information technology – 8-bit single-byte coded graphic character sets – Part 14: Latin alphabet No. 8 (Celtic)
8859part15	020	ISO/IEC 8859-15, Information technology – 8-bit single-byte coded graphic character sets – Part 15: Latin alphabet No. 9
8859part16	021	ISO/IEC 8859-16, Information technology – 8-bit single-byte coded graphic character sets – Part 16: Latin alphabet No. 10
jis	022	Japanese code set used for electronic transmission
shiftJIS	023	Japanese code set used on MS-DOS based machines
eusJP	024	Japanese code set used on UNIX based machines
usAscii	025	United States ASCII code set (ISO 646 US)
ebcdic	026	IBM mainframe code set
ecuKR	027	Korean code set
big5	028	traditional Chinese code set used in Taiwan, Hong Kong of China and other areas
GB2312	029	simplified Chinese code set

MD_ClassificationCode

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

MD_DatatypeCode

Name	Domain Code	Definition
MD_DatatypeCode	DatatypeCd	datatype of element or entity
class	001	descriptor of a set of objects that share the same attributes, operations, methods, relationships, and behaviors
codelist	002	flexible enumeration used for expressing a long list of values, can be extended

enumeration	003	data type whose instances form a list of named literal values, not extendable
codelistElement	004	permissible value for a codelist or enumeration
abstractClass	005	class that cannot be directly instantiated
aggregateClass	006	class that is composed of classes it is connected to by an aggregate relationship
specifiedClass	007	subclass that may be substituted for its superclass
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
interfaceClass	009	named set of operations that characterize the behavior of an element
unionClass	010	class describing a selection of one of the specified types
metaClass	011	class whose instances are classes
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
characterString	013	free text field
integer	014	numerical field
association	015	semantic relationship between two classes that involves connections among their instances

MD_KeywordTypeCode

Name	Domain Code	Definition
MD_KeywordTypeCode	KeyTypeCd	methods used to group similar keywords
discipline	001	keyword identifies a branch of instruction or specialized learning
place	002	keyword identifies a location
stratum	003	keyword identifies the layer(s) of any deposited substance
temporal	004	keyword identifies a time period related to the dataset
theme	005	keyword identifies a particular subject or topic
taxon	006	keyword identifies a taxonomic name
Instrument	ADIwg-001	keyword identifies an instrument

MD_MaintenanceFrequencyCode

Name	Domain Code	Definition
MD_MaintenanceFrequencyCode	MaintFreqCd	frequency with which modifications and deletions are made to the data after it is first produced
continual	001	data is repeatedly and frequently updated
daily	002	data is updated each day
weekly	003	data is updated on a weekly basis
fortnightly	004	data is updated every two weeks
monthly	005	data is updated each month

quarterly	006	data is updated every three months
biannually	007	data is updated twice each year
annually	008	data is updated every year
asNeeded	009	data is updated as deemed necessary
irregular	010	data is updated in intervals that are uneven in duration
notPlanned	011	there are no plans to update the data
unknown	012	frequency of maintenance for the data is not known

MD_MediumFormatCode

Name	Domain Code	Definition
MD_MediumFormatCode	MedFormCd	method used to write to the medium
cpio	001	CoPy In/Out (UNIX file format and command)
tar	002	Tape ARchive
highSierra	003	high sierra file system
iso9660	004	information processing – volume and file structure of CD_ROM
iso9660RockRidge	005	rock ridge interchange protocol (UNIX)
iso9660AppleHFS	006	hierarchical file system (Macintosh)

MD_MediumNameCode

Name	Domain Code	Definition
MD_MediumNameCode	MedNameCd	name of the medium
cdRom	001	read-only optical disk
dvd	002	digital versatile disk
dvdRom	003	digital versatile disk, read-only
3halfinchFloppy	004	3.5 inch magnetic disk
5quarterInchFloppy	005	5.25 inch magnetic disk
7trackTape	006	7 track magnetic tape
9trackTape	007	9 track magnetic tape
3480Cartridge	008	3480 cartridge tape drive
3490Cartridge	009	3490 cartridge tape drive
3580Cartridge	010	3580 cartridge tape drive
4mmCartridgeTape	011	4 millimeter magnetic tape
8mmCartridgeTape	012	8 millimeter magnetic tape
1quarterInchCartridge Tape	013	0.25 inch magnetic tape
digitalLinearTape	014	half inch cartridge streaming tape drive
online	015	direct compute linkage
satellite	016	linkage through a satellite communication system
telephoneLink	017	communication through a telephone network
hardcopy	018	pamphlet or leaflet giving descriptive information

MD_ObligationCode

Name	Domain Code	Definition
MD_ObligationCode	ObCd	obligation of the element or entity
mandatory	001	element is always required
optional	002	element is not required
conditional	003	element is required when a specific condition is met

MD_ProgressCode

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

MD_RestrictionCode

Name	Domain Code	Definition
MD_RestrictionCode	RestrictCd	limitation(s) placed upon the access or use of the data
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
patent	002	government has granted exclusive right to make, sell, use or license an invention or discovery
patentPending	003	produced or sold information awaiting a patent
trademark	004	a name, symbol, or other device identifying a product, officially registered and legally restricted to the use of the owner or manufacturer
license	005	formal permission to do something
intellectualPropertyRights	006	rights to financial benefit from an control of distribution of non-tangible property that is a result of creativity
restricted	007	withheld from general circulation or disclosure
otherRestrictions	008	limitation not listed

MD_ScopeCode

Name	Domain Code	Definition
MD_ScopeCode	ScopeCd	class of information to which the referencing entity applies
attribute	001	information applies to the attribute class
attributeType	002	information applies to the characteristic of a feature
collectionHardware	003	information applies to the collection hardware class
collectionSession	004	information applies to the collection session
dataset	005	information applies to the dataset
series	006	information applies to the series
nonGeographicDataset	007	information applies to non-geographic data
dimensionGroup	008	information applies to a dimension group
feature	009	information applies to a feature
featureType	010	information applies to a feature type
propertyType	011	information applies to a property type
fieldSession	012	information applies to a field session
software	013	information applies to a computer program or routine
service	014	information applies to a capability which a service provider makes available to a service user entity through a set of interfaces that define a behavior, such as a use case
model	015	information applies to a copy or imitation of an existing or hypothetical object
tile	016	information applies to a tile, a spatial subset of geographic data

MD_SpatialRepresentationTypeCode

Name	Domain Code	Definition
MD_Spatial RepresentationType Code	SpatRepTypCd	method used to represent geographic information in the dataset
vector	001	vector data is used to represent geographic data
grid	002	grid data is used to represent geographic data
textTable	003	textual or tabular data is used to represent geographic data
tin	004	triangle irregular network
stereoModel	005	three-dimensional view formed by the intersecting homologous rays of an overlapping pair of images
video	006	scene from a video recording

MD_TopicCategoryCode

Name	Domain Code	Definition
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
farming	001	rearing of animals and/or cultivation of plants
biota	002	flora and/or fauna in natural environment
boundaries	003	legal land descriptions
climatology Meteorology Atmosphere	004	processes and phenomena of the atmosphere
economy	005	economic activities, conditions and employment
elevation	006	height above or below sea level
environment	007	environment resources, protection and conservation
geoscientific Information	008	information pertaining to earth sciences
health	009	health, health services, human ecology, and safety
imageryBaseMaps EarthCover	010	base maps
intelligenceMilitary	011	military bases, structures, activities
inlandWaters	012	inland water features, drainage systems and their characteristics
location	013	positional information and services
oceans	014	features and characteristics of salt water bodies (excluding inland waters)
planningCadastre	015	information used for appropriate actions for future use of the land
society	016	characteristics of society and cultures
structure	017	man-made construction
transportation	018	means and aids for conveying persons and/or goods
utilitiesCommunication	019	energy, water and waste systems, and communications infrastructure and services

NOAA Defined SRS

Name	Definition
Spatial reference system	Spatial reference systems for which NOAA maintains ISO 19115 code blocks. Note: this is an ISO enumeration (not an ISO codeList).
NAD27	North American Datum 1927 EPSG::4267
NAD83	North American Datum 1983 EPSG::4269
Clarke1866	Clarke 1866 EPSG::7008
GRS80	Geodetic Reference System 1980 EPSG::7019
WGS84	World Geodetic System 1984 EPSG::4326 (default)
NAVD88	North American Vertical Datum EPSG::5103
MLW	Mean Low Water depth EPSG::5867
MLLW	Mean Lower Low Water depth EPSG::5866
MHW	Mean High Water height EPSG::5868
MHHW	Mean Higher High Water height EPSG::5869