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| **EOL** | **Concept** | **Description** | **Dialect (Fit) Paths** |
| dataset.title | [Resource Title](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Title) | A short description of the resource. The title should be descriptive enough so that when a user is presented with a list of titles the general content of the data set can be determined. | **DIF** /dif:DIF/dif:Entry\_Title **DIF** /dif:DIF/dif:Data\_Set\_Citation/dif:Dataset\_Title **ECHO** /\*/echo:ShortName>/\*/echo:LongName **ECS** /\*/ecs:ShortName > /\*/ecs:LongName **DCAT** dct:title **FGDC** /fgdc:metadata/fgdc:idinfo/fgdc:citation/fgdc:citeinfo/fgdc:title **ISO** /\*/gmd:identificationInfo/\*/gmd:citation/gmd:CI\_Citation/gmd:title/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:citation/cit:CI\_Citation/cit:title/gco:CharacterString |
| dataset.summary | [Abstract](http://wiki.esipfed.org/index.php/Concepts_Glossary#Abstract) | A paragraph describing the resource.  *Note: This concept is called “Desciption” in Catalog Services for the Web.* | **DIF** /dif:DIF/dif:Summary/dif:Abstract **ECHO** /\*/echo:Description **ECS** /\*/ecs:CollectionDescription **DCAT** dct:description **FGDC** /fgdc:metadata/fgdc:idinfo/fgdc:descript/fgdc:abstract **ISO** /\*/gmd:identificationInfo/\*/gmd:abstract/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:abstract/gco:CharacterString |
|  | [Modified Date](http://wiki.esipfed.org/index.php/Concepts_Glossary#Modified_Date) | Date on which the record was created or updated within the catalogue | **DIF** /dif:DIF/dif:DIF\_Creation\_Date **ECHO** /\*/echo:LastUpdate **ECS** /\*/ecs:RevisionDate **ISO** /\*/gmd:dateStamp/gco:Date **ISO** /\*/gmd:dateStamp/gco:DateTime **ISO-1** /mdb:MD\_Metadata/mdb:dateInfo/cit:CI\_Date[cit:dateType/cit:CI\_DateTypeCode=”lastUpdate”]/cit:date/gco:DateTime |
| dataset.internal\_contact\_id.person\_name | [Metadata Contact](http://wiki.esipfed.org/index.php/Concepts_Glossary#Metadata%20Contact) | The organization or person currently responsible for the metadata. | **DIF** /dif:DIF/dif:Personnel[dif:Role=’DIF AUTHOR’] **DIF** /dif:DIF/dif:Originating\_Metadata\_Node **ECHO** /\*/echo:ArchiveCenter **ECS** /\*/ecs:Contact[Role=’Archive’] **FGDC** /fgdc:metadata/fgdc:metainfo/fgdc:metc/fgdc:cntinfo **ISO** /gmi:MI\_Metadata/gmd:contact/gmd:CI\_ResponsibleParty/gmd:individualName/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:contact/cit:CI\_Responsibility |
| dataset.minimum\_longitude  dataset.maximum\_longitude  dataset.minimum\_latitude  dataset.maximum\_latitude | [Bounding Box](http://wiki.esipfed.org/index.php/Concepts_Glossary#Bounding_Box) | A bounding box for identifying a geographic area of interest  *Note: This concept is called “Coverage” in the CSW Specification* | **DIF** /dif:DIF/dif:Spatial\_Coverage **ECHO** /\*/echo:Spatial/echo:HorizontalSpatialDomain/echo:Geometry/echo:BoundingRectangle **ECS** /\*/ecs:Spatial/ecs:HorizontalSpatialDomain/ecs:BoundingRectangle **FGDC** /fgdc:metadata/fgdc:idinfo/fgdc:spdom/fgdc:bounding **ISO** dataset.minimum\_longitude  **ISO** /\*/gmd:identificationInfo/srv:SV\_ServiceIdentification/srv:extent/gmd:EX\_Extent/gmd:geographicElement/gmd:EX\_GeographicBoundingBox **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:extent/gex:EX\_Extent/gex:geographicElement/gex:EX\_GeographicBoundingBox |

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| **EOL** | **Concept** | **Description** | **Dialect (Fit) Paths** |
| See Mandatory | [Bounding Box](http://wiki.esipfed.org/index.php/Concepts_Glossary#Bounding_Box) | A bounding box for identifying a geographic area of interest  *Note: This concept is called “Coverage” in the CSW Specification* | **ISO** /\*/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:extent/gmd:EX\_Extent/gmd:geographicElement/gmd:EX\_GeographicBoundingBox **ISO** /\*/gmd:identificationInfo/srv:SV\_ServiceIdentification/srv:extent/gmd:EX\_Extent/gmd:geographicElement/gmd:EX\_GeographicBoundingBox **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:extent/gex:EX\_Extent/gex:geographicElement/gex:EX\_GeographicBoundingBox **ECHO** /\*/echo:Spatial/echo:HorizontalSpatialDomain/echo:Geometry/echo:BoundingRectangle **DIF** /dif:DIF/dif:Spatial\_Coverage **FGDC** /fgdc:metadata/fgdc:idinfo/fgdc:spdom/fgdc:bounding |
| Datset.language | [Resource Language](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Language) | The language of the resource. | **ISO** /\*/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:language/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:defaultLocale/lan:PT\_Locale/lan:language/lan:LanguageCode **ISO-1** /mdb:MD\_Metadata/mdb:otherLocale/lan:PT\_Locale/lan:language/lan:LanguageCode **DIF** /dif:DIF/dif:Data\_Set\_Language |
| See mandatory | [Topic Category](http://wiki.esipfed.org/index.php/Concepts_Glossary#Topic_Category) | High level category enumeration used in ISO | **ISO** (1) /\*/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:topicCategory/gmd:MD\_TopicCategoryCode **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:topicCategory/mri:MD\_TopicCategoryCode **DIF** (1) /dif:DIF/dif:ISO\_Topic\_Category **DCAT** dct:category |
|  | [Resource Type](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Type) | A resource code identifying the type of resource e.g. dataset, a collection, an application (see MD\_ScopeCode) which the metadata describes. | **ISO** /gmd:MD\_Metadata/gmd:hierarchyLevel/gmd:MD\_ScopeCode **ISO-1** /mdb:MD\_Metadata/mdb:metadataScope/mdb:MD\_MetadataScope/mdb:resourceScope/mcc:MD\_ScopeCode |

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| **EOL** | **Concept** | **Description** | | **Dialect (Fit) Paths** |
| dataset.archive\_ident | [Metadata Identifier](http://wiki.esipfed.org/index.php/Concepts_Glossary#Metadata_Identifier) | A phrase or string which uniquely identifies the metadata file/record. | | **ISO** /\*/gmd:fileIdentifier/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:metadataIdentifier/mcc:MD\_Identifier **DIF** /dif:DIF/dif:Entry\_Id |
| category.name = basic keywords  gcmd\_science\_keyword.category&amp;gcmd\_science\_keyword.topic&amp;gcmd\_science\_keyword.variable\_level\_1&amp;gcmd\_science\_keyword.variable\_level\_2&amp;variable\_level\_3&amp;gcmd\_science\_keyword.detailed\_variable = GCMD science keywords (theme)  platform.name  instrument.name | [Keyword](http://wiki.esipfed.org/index.php/Concepts_Glossary#Keyword) | A word or phrase that describes some aspect of a resource. Can be one of several types.  *Note: The general identification keywords usually have a type of “theme” and are refered to as “theme keywords”. Other types and vocabularies are used for other information. Service Entry Resource Format (SERF) requires a Science and a Service GCMD Keyword. This concept is called “Subject” in the CSW Specification.* | **ISO** (1) /\*/gmd:identificationInfo/\*/gmd:descriptiveKeywords/gmd:MD\_Keywords[gmd:type/gmd:MD\_KeywordTypeCode=’theme’]/gmd:keyword/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:descriptiveKeywords/mri:MD\_Keywords[mri:type/mri:MD\_KeywordTypeCode=’theme’]/mri:keyword/gco:CharacterString **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:CategoryKeyword **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:TopicKeyword **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:TermKeyword **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:VariableLevel1Keyword/echo:Value **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:VariableLevel2Keyword/echo:Value **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:VariableLevel3Keyword **ECHO** (1) /\*/echo:ScienceKeywords/echo:ScienceKeyword/echo:DetailedVariableKeyword **DIF** (1) /dif:DIF/dif:Parameters/dif:Category **DIF** (1) /dif:DIF/dif:Parameters/dif:Topic **DIF** (1) /dif:DIF/dif:Parameters/dif:Term **DIF** (1) /dif:DIF/dif:Parameters/dif:Variable\_Level\_1 **DIF** (1) /dif:DIF/dif:Parameters/dif:Variable\_Level\_2 **DIF** (1) /dif:DIF/dif:Parameters/dif:Variable\_Level\_3 **DIF** (1) /dif:DIF/dif:Parameters/dif:Detailed\_Variable **ECS** (1) /\*/ecs:DisciplineTopicParameters/ecs:DisciplineKeyword **ECS** (1) /\*/ecs:DisciplineTopicParameters/ecs:TopicKeyword **ECS** (1) /\*/ecs:DisciplineTopicParameters/ecs:TermKeyword **ECS** (1) /\*/ecs:DisciplineTopicParameters/ecs:VariableKeyword **FGDC** (1) /fgdc:metadata/fgdc:idinfo/fgdc:keywords/fgdc:theme/fgdc:themekey | |
| dataset.row\_create\_time | [Resource Creation/Revision Date](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Creation.2FRevision_Date) | The date the resource was created | | **ISO** //gmd:CI\_Citation/gmd:date/gmd:CI\_Date[gmd:dateType/gmd:CI\_DateTypeCode=’creation’]/gmd:date/gco:Date **ISO** //gmd:CI\_Citation/gmd:date/gmd:CI\_Date[gmd:dateType/gmd:CI\_DateTypeCode=’creation’]/gmd:date/gco:DateTime **ISO** //gmd:CI\_Citation/gmd:date/gmd:CI\_Date[gmd:dateType/gmd:CI\_DateTypeCode=’revision’]/gmd:date/gco:Date **ISO** //gmd:CI\_Citation/gmd:date/gmd:CI\_Date[gmd:dateType/gmd:CI\_DateTypeCode=’revision’]/gmd:date/gco:DateTime **ISO** //gmd:CI\_Citation/gmd:date/gmd:CI\_Date[gmd:dateType/gmd:CI\_DateTypeCode=’publication’]/gmd:date/gco:Date **ISO** //gmd:CI\_Citation/gmd:date/gmd:CI\_Date[gmd:dateType/gmd:CI\_DateTypeCode=’publication’]/gmd:date/gco:DateTime **ISO-1** //cit:CI\_Citation/cit:date/cit:CI\_Date[cit:dateType/cit:CI\_DateTypeCode=’creation’]/cit:date/gco:DateTime **ISO-1** //cit:CI\_Citation/cit:date/cit:CI\_Date[cit:dateType/cit:CI\_DateTypeCode=’revision’]/cit:date/gco:DateTime **ISO-1** //cit:CI\_Citation/cit:date/cit:CI\_Date[cit:dateType/cit:CI\_DateTypeCode=’publication’]/cit:date/gco:DateTime **ECHO** /\*/echo:InsertTime **ECHO** /\*/echo:LastUpdate **DIF** /dif:DIF/dif:Data\_Set\_Citation/dif:Dataset\_Release\_Date **ECS** /\*/ecs:RevisionDate **DCAT** dct:modified |
| doi\_demo.id | [Resource Identifier](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Identifier) | Identifier for the resource described by the metadata | | **ISO** /\*/gmd:identificationInfo/\*/gmd:citation/gmd:CI\_Citation/gmd:identifier/gmd:MD\_Identifier/gmd:code/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:citation/cit:CI\_Citation/cit:identifier/mcc:MD\_Identifier/mcc:code/gco:CharacterString **ECHO** /\*/echo:DataSetId **ECHO** (1) /\*/echo:ShortName | /\*/echo:LongName **DIF** /dif:DIF/dif:Data\_Set\_Citation/dif:Dataset\_DOI |
| dataset.point\_of\_contact\_id.person\_name | [Resource Contact](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Contact) | The organization or person responsible for answering questions about the resource. | | **ISO** /\*/gmd:identificationInfo/\*/gmd:pointOfContactPro **ISO-1** /mdb:MD\_Metadata/mdb:identificationInfo/\*/mri:pointOfContact/cit:CI\_Responsibility[cit:role/cit:CI\_RoleCode=’pointOfContact’] **ECHO** /\*/echo:Contacts/echo:Contact **DIF** /dif:DIF/dif:Personnel[dif:Role=’INVESTIGATOR’] **ECS** /CollectionMetaDataFile/CollectionMetaDataSets/Collections/CollectionMetaData/Contact[Role=’User Services’] **DCAT** dct:person |
|  | [Spatial Resolution](http://wiki.esipfed.org/index.php/Concepts_Glossary#Spatial_Resolution) | The nominal scale and/or spatial resolution of the resource. | | **ISO** /\*/gmd:identificationInfo/gmd:MD\_DataIdentification/gmd:spatialResolution **ISO-1** /\*/mdb:identificationInfo/\*/mri:spatialResolution |
| dataset.begin\_date  dataset.end\_date | [Temporal Extent](http://wiki.esipfed.org/index.php/Concepts_Glossary#Temporal_Extent) | The temporal extent of the resource | | **ISO** /\*/gmd:MD\_DataIdentification/gmd:extent/gmd:EX\_Extent/gmd:temporalElement/gmd:EX\_TemporalExtent **ISO-1** /\*/mri:MD\_DataIdentification/mri:extent/gex:EX\_Extent/gex:temporalElement/gex:EX\_TemporalExtent **ECHO** /\*/Temporal/RangeDateTime **FGDC** /fgdc:metadata/fgdc:idinfo/fgdc:timeperd/fgdc:timeinfo/fgdc:rngdates |
|  | [Vertical Extent](http://wiki.esipfed.org/index.php/Concepts_Glossary#Vertical_Extent) | The vertical extent of the resource | | **ISO** /\*/gmd:MD\_DataIdentification/gmd:extent/gmd:EX\_Extent/gmd:verticalElement/gmd:EX\_TemporalExtent **ISO-1** /\*/mri:MD\_DataIdentification/mri:extent/gex:EX\_Extent/gex:verticalElement/gex:EX\_TemporalExtent |
|  | [Resource Lineage](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_Lineage) | A description of the source(s) and production process(es) used in producing the resource. | | **ISO** /\*/gmd:dataQualityInfo/gmd:DQ\_DataQuality/gmd:lineage **ISO-1** /\*/mdb:resourceLineage/mrl:LI\_Lineage |
| Is this the proper XPath? | [Resource on-line Link](http://wiki.esipfed.org/index.php/Concepts_Glossary#Resource_on-line_Link) | Online link referencing additional information about the resource. | | **ISO** /\*/gmd:MD\_DataIdentification/gmd:citation/gmd:CI\_Citation/gmd:citedResponsibleParty/gmd:CI\_ResponsibleParty/gmd:contactInfo/gmd:CI\_Contact/gmd:onlineResource/gmd:CI\_OnlineResource **ISO-1** /\*/mri:MD\_DataIdentification/mri:citation/cit:CI\_Citation/cit:onlineResource/cit:CI\_OnlineResource **ECHO** /\*/OnlineResources |
| dataset.auth\_reqd | [Metadata Use Constraints](http://wiki.esipfed.org/index.php/Concepts_Glossary#Metadata_Use_Constraints) | Information about how the data may or may not be used after access is granted to assure the protection of privacy or intellectual property. This includes any special restrictions, legal prerequisites, terms and conditions, and/or limitations on using the data set. Data providers may request acknowledgement of the data from users and claim no responsibility for quality and completeness of data. | | **ISO** /\*/gmd:metadataConstraints/gmd:MD\_Constraints/gmd:useLimitation/gco:CharacterString **ISO** /\*/gmd:metadataConstraints/gmd:MD\_LegalConstraints/gmd:useConstraints/gmd:MD\_RestrictionCode **ISO** /\*/gmd:metadataConstraints/gmd:MD\_LegalConstraints/gmd:otherConstraints/gco:CharacterString **ISO-1** /mdb:MD\_Metadata/mdb:metadataConstraints/mco:MD\_LegalConstraints **ISO-1** /mdb:MD\_Metadata/mdb:metadataConstraints/mco:MD\_SecurityConstraints |