TEMPLATE 3: Dataset Discovery Metadata / INSPIRE compliant

This file was tested with GI-Cat and validated against INSPIRE schemata. Some details remain to be clarified.

<?xml version="1.0" encoding="UTF-8"?>

<gmi:MI\_Metadata

 xsi:schemaLocation="http://www.isotc211.org/2005/gmd http://schemas.opengis.net/iso/19139/20060504/gmd/gmd.xsd http://www.isotc211.org/2005/srv http://schemas.opengis.net/iso/19139/20060504/srv/srv.xsd http://www.isotc211.org/2005/gmi http://www.isotc211.org/2005/gmi/gmi.xsd"

xmlns:gmd=http://www.isotc211.org/2005/gmd xmlns:gco="http://www.isotc211.org/2005/gco"

xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance xmlns:gml="http://www.opengis.net/gml"

 xmlns:srv="http://www.isotc211.org/2005/srv"

 xmlns:gmi="http://www.isotc211.org/2005/gmi"

 xmlns:xlink="http://www.w3.org/1999/xlink"

 >

 <**gmd:fileIdentifier**>

<gco:CharacterString>http://geodata.fz-juelich.de/metadata/inspire/macc\_fnyp\_co.xml[[1]](#footnote-1)
</gco:CharacterString>

 </gmd:fileIdentifier>

 <gmd:language>

 <gmd:LanguageCode codeList=http://www.loc.gov/standards/iso639-2/

 codeListValue="eng">eng</gmd:LanguageCode>

 </gmd:language>

 <gmd:characterSet>

 <gmd:MD\_CharacterSetCode codeSpace="ISOTC211/19115"

 codeListValue="MD\_CharacterSetCode\_utf8"

 codeList="http://www.isotc211.org/2005/resources/Codelist/

gmxCodelists.xml#MD\_CharacterSetCode">MD\_CharacterSetCode\_utf8

 </gmd:MD\_CharacterSetCode>

 </gmd:characterSet>

 <!--parentIdentifier copied from Datafed example; will certainly need to change uuid!; what means "parent"? -->

 <**gmd:parentIdentifier**>

 <gco:CharacterString>urn:uuid:089197b9-3abd-42fb-afe2-c431cdd2204f

 </gco:CharacterString>

 </gmd:parentIdentifier>

 <gmd:hierarchyLevel>

 <gmd:MD\_ScopeCode codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodelists.xml#MD\_ScopeCode" codeListValue="dataset">dataset</gmd:MD\_ScopeCode>

 </gmd:hierarchyLevel>

 <!-- hierarchyLevelName adopted from Datafed record. Does it make sense to use variable name here? -->

 <gmd:hierarchyLevelName>

 <gco:CharacterString>vmr\_co</gco:CharacterString>

 </gmd:hierarchyLevelName>

 <gmd:contact>

 <gmd:CI\_ResponsibleParty>

 <gmd:organisationName>

 <gco:CharacterString>Forschungszentrum Jülich GmbH</gco:CharacterString>

 </gmd:organisationName>

 <gmd:contactInfo>

 <gmd:CI\_Contact>

 <gmd:address>

 <gmd:CI\_Address>

 <gmd:electronicMailAddress>

 <gco:CharacterString>m.schultz@fz-juelich.de</gco:CharacterString>

 </gmd:electronicMailAddress>

 </gmd:CI\_Address>

 </gmd:address>

 <!-- onlineResource is from Datafed -->

 <gmd:onlineResource>

 <gmd:CI\_OnlineResource>

 <gmd:linkage>

 <gmd:URL>http://wiki.esipfed.org/index.php/MACC</gmd:URL>

 </gmd:linkage>

 </gmd:CI\_OnlineResource>

 </gmd:onlineResource>

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 </gmd:CI\_ResponsibleParty>

 </gmd:contact>

 <gmd:dateStamp>

 <gco:Date>2012-06-26</gco:Date>

 </gmd:dateStamp>

 <!-- original INSPIRE code -->

 <!--

 <gmd:metadataStandardName>

 <gco:CharacterString>ISO19115</gco:CharacterString>

 </gmd:metadataStandardName>

 <gmd:metadataStandardVersion>

 <gco:CharacterString>2003/Cor.1:2006</gco:CharacterString>

 </gmd:metadataStandardVersion>

 -->

 <gmd:metadataStandardName>

 <gco:CharacterString>ISO 19115-1 Geographic Information - Metadata Part 2 Extensions for imagery and gridded data</gco:CharacterString>

 </gmd:metadataStandardName>

 <gmd:metadataStandardVersion>

 <gco:CharacterString>ISO 19115-1:2012</gco:CharacterString>

 </gmd:metadataStandardVersion>

 <!-- from Datafed -->

 <gmd:referenceSystemInfo>

 <gmd:MD\_ReferenceSystem>

 <gmd:referenceSystemIdentifier>

 <gmd:RS\_Identifier>

 <gmd:code>

 <gco:CharacterString>EPSG:4326</gco:CharacterString>

 </gmd:code>

 </gmd:RS\_Identifier>

 </gmd:referenceSystemIdentifier>

 </gmd:MD\_ReferenceSystem>

 </gmd:referenceSystemInfo>

 <gmd:identificationInfo>

 <gmd:MD\_DataIdentification>

 <gmd:citation>

 <gmd:CI\_Citation>

 <gmd:title>

 <gco:CharacterString>MACC Global Atmospheric Composition Forecast</gco:CharacterString>

 </gmd:title>

 <gmd:date>

 **<!-- creation date of metadata record-->**

 <gmd:CI\_Date>

 <gmd:date>

 <gco:Date>2012-06-26</gco:Date>

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 <gmd:dateType>

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 <!-- revision date-->

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 </gmd:dateType>

 </gmd:CI\_Date>

 </gmd:date>

 <!-- from INSPIRE editor: not entirely clear what should go in here / perhaps same as meant by parentIdentifier in Datafed? -->

 <gmd:identifier>

 <gmd:RS\_Identifier>

 <gmd:code>

 <gco:CharacterString>doi:\*\*\*\*\*\*\*\*\*\*\*</gco:CharacterString>

 </gmd:code>

 </gmd:RS\_Identifier>

 </gmd:identifier>

 </gmd:CI\_Citation>

 </gmd:citation>

 <**gmd:abstract**>

 <gco:CharacterString>MACC Global Atmospheric Composition Forecasts are generated from the GMES precursor atmosphere service project &quot;Monitoring Atmospheric Composition and Climate&quot;. The forecasts constitute of satellite data assimilation of meteorological and chemical variables performed at the European Centre for Medium Range Weather Forecasts (ECMWF), and meteorological and chemical forecast simulations for up to 5 days into the future. The assimilated chemical variables are ozone columns and vertical profiles, CO columns, NO2 columns, and aerosol optical depth from multiple satellite instruments. More information about the MACC project and products is available at http://www.gmes-atmosphere.eu. The Jülich web service postprocesses the original output from the MACC assimilation and forecast run to provide a homogenous and interoperable access to the data in netcdf-cf format.</gco:CharacterString>

 </gmd:abstract>

 <gmd:pointOfContact>

 <gmd:CI\_ResponsibleParty>

 **<!-- originator-->**

 <gmd:organisationName>

 <gco:CharacterString>European Centre for Medium Range Weather Forecasts</gco:CharacterString>

 </gmd:organisationName>

 <gmd:contactInfo>

 <gmd:CI\_Contact>

 <gmd:address>

 <gmd:CI\_Address>

 <gmd:electronicMailAddress>

 <gco:CharacterString>v.-h.peuch@ecmwf.int

 </gco:CharacterString>

 </gmd:electronicMailAddress>

 </gmd:CI\_Address>

 </gmd:address>

 </gmd:CI\_Contact>

 </gmd:contactInfo>

 <gmd:role>

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 </gmd:CI\_ResponsibleParty>

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 <gmd:pointOfContact>

 <gmd:CI\_ResponsibleParty>

 **<!-- resourceProvider-->**

 <gmd:organisationName>

 <gco:CharacterString>Forschungszentrum Jülich GmbH</gco:CharacterString>

 </gmd:organisationName>

 <gmd:contactInfo>

 <gmd:CI\_Contact>

 <gmd:address>

 <gmd:CI\_Address>

 <!-- copied from Datafed -->

 <gmd:deliveryPoint>

 <gco:CharacterString>Wilhelm-Johnen-Strasse</gco:CharacterString>

 </gmd:deliveryPoint>

 <gmd:city>

 <gco:CharacterString>Juelich</gco:CharacterString>

 </gmd:city>

 <gmd:administrativeArea>

 <gco:CharacterString>NRW</gco:CharacterString>

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 <gco:CharacterString>52428</gco:CharacterString>

 </gmd:postalCode>

 <gmd:country>

 <gco:CharacterString>Germany</gco:CharacterString>

 </gmd:country>

 <gmd:electronicMailAddress>

 <gco:CharacterString>m.schultz@fz-juelich.de

 </gco:CharacterString>

 </gmd:electronicMailAddress>

 </gmd:CI\_Address>

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 <!-- copied from Datafed -->

 <gmd:onlineResource>

 <gmd:CI\_OnlineResource>

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 <gmd:URL>http://www.fz-juelich.de/iek/iek-8/DE/UeberUns/Projekte/MACC/MACC.html</gmd:URL>

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 </gmd:role>

 </gmd:CI\_ResponsibleParty>

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 <gmd:MD\_Keywords>

 <gmd:keyword>

 <gco:CharacterString>Atmospheric conditions</gco:CharacterString>

 </gmd:keyword>

 <gmd:thesaurusName>

 <gmd:CI\_Citation>

 <gmd:title>

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 </gmd:date>

 </gmd:CI\_Citation>

 </gmd:thesaurusName>

 </gmd:MD\_Keywords>

 </gmd:descriptiveKeywords>

 <!-- from Datafed: usage??-->

 <**gmd:descriptiveKeywords**>

 <gmd:MD\_Keywords>

 <gmd:keyword>

 <gco:CharacterString>Get Service &gt; Get Web Coverage Service (WCS) </gco:CharacterString>

 </gmd:keyword>

 <gmd:type>

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 <gmd:thesaurusName

 xlink:href="http://www.ngdc.noaa.gov/docucomp/9f0de6e0-428b-11df-9879-0800200c9a66"

 xlink:title="URL Content Type Units"/>

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 </gmd:descriptiveKeywords>

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 xlink:href="http://www.ngdc.noaa.gov/docucomp/227737d0-428b-11df-9879-0800200c9a66"

 xlink:title="GCMD Science Keywords"/>

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 </gmd:descriptiveKeywords>

 <**gmd:descriptiveKeywords**>

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 <gco:CharacterString>NEED TO MAP PLATFORM KEYWORDS</gco:CharacterString>

 </gmd:keyword>

 <gmd:type>

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 <gmd:thesaurusName

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 </gmd:descriptiveKeywords>

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 </gmd:type>

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 </gmd:descriptiveKeywords>

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 </gmd:type>

 <gmd:thesaurusName

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 </gmd:descriptiveKeywords>

 <!-- now descriptive keywords entered through the INSPIRE editor-->

 <**gmd:descriptiveKeywords**>

 <gmd:MD\_Keywords>

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 <gco:CharacterString>atmospheric composition</gco:CharacterString>

 </gmd:keyword>

 <gmd:thesaurusName>

 <gmd:CI\_Citation>

 <gmd:title>

 <gco:CharacterString>CF (?) [add URL?]</gco:CharacterString>

 </gmd:title>

 <gmd:date>

 <gmd:CI\_Date>

 <gmd:date>

 <gco:Date>2012-06-26</gco:Date>

 </gmd:date>

 <gmd:dateType>

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 </gmd:date>

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 </gmd:MD\_Keywords>

 </gmd:descriptiveKeywords>

 <gmd:resourceConstraints>

 <gmd:MD\_Constraints>

 <**gmd:useLimitation**>

 <gco:CharacterString>geossNoMonetaryCharge</gco:CharacterString>

 </gmd:useLimitation>

 </gmd:MD\_Constraints>

 </gmd:resourceConstraints>

 <gmd:resourceConstraints>

 <gmd:MD\_LegalConstraints>

 <**gmd:accessConstraints**>

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 </gmd:accessConstraints>

 <gmd:otherConstraints>

 <gco:CharacterString>no limitation</gco:CharacterString>

 </gmd:otherConstraints>

 </gmd:MD\_LegalConstraints>

 </gmd:resourceConstraints>

 <**gmd:spatialResolution**>

 <gmd:MD\_Resolution>

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 <gco:Distance uom="degrees">1</gco:Distance>

 </gmd:distance>

 </gmd:MD\_Resolution>

 </gmd:spatialResolution>

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 </gmd:language>

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 </gmd:topicCategory>

 <**gmd:extent**>

 <gmd:EX\_Extent>

 <gmd:geographicElement>

 <gmd:**EX\_GeographicBoundingBox**>

 <gmd:westBoundLongitude>

 <gco:Decimal>0.00</gco:Decimal>

 </gmd:westBoundLongitude>

 <gmd:eastBoundLongitude>

 <gco:Decimal>360.00</gco:Decimal>

 </gmd:eastBoundLongitude>

 <gmd:southBoundLatitude>

 <gco:Decimal>-90.00</gco:Decimal>

 </gmd:southBoundLatitude>

 <gmd:northBoundLatitude>

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 </gmd:northBoundLatitude>

 </gmd:EX\_GeographicBoundingBox>

 </gmd:geographicElement>

 <gmd:temporalElement>

 <gmd:EX\_TemporalExtent>

 <gmd:extent>

 <**gml:TimePeriod** gml:id="IDcd3b1c4f-b5f7-439a-afc4-3317a4cd89be"

 xsi:type="gml:TimePeriodType">

 <gml:beginPosition>2012-06-26</gml:beginPosition>

 <gml:endPosition>9999-12-31</gml:endPosition>

 <!--<gml:endPosition indeterminatePosition="now">now</gml:endPosition>-->

 </gml:TimePeriod>

 </gmd:extent>

 </gmd:EX\_TemporalExtent>

 </gmd:temporalElement>

 </gmd:EX\_Extent>

 </gmd:extent>

 </gmd:MD\_DataIdentification>

 </gmd:identificationInfo>

 <gmd:**distributionInfo**>

 <!-- from INSPIRE editor, but unsure what to put here-->

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 <gmd:**distributionFormat**>

 <gmd:MD\_Format>

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 </gmd:name>

 <gmd:version>

 <gco:CharacterString>3.0</gco:CharacterString>

 </gmd:version>

 </gmd:MD\_Format>

 </gmd:distributionFormat>

 <gmd:**transferOptions**>

 <gmd:MD\_DigitalTransferOptions>

 <gmd:onLine>

 <gmd:CI\_OnlineResource>

 <gmd:linkage>

 <gmd:URL>http://macc.icg.kfa-juelich.de:58080/MACC\_Daily\_96h\_Global\_Forecasts?service=WCS&amp;acceptversions=1.1.2&amp;Request=GetCapabilities&amp;sections=Contents</gmd:URL>

 </gmd:linkage>

 <gmd:protocol>

 <gco:CharacterString>urn:ogc:serviceType:WebCoverageService:1.1.2</gco:CharacterString>

 </gmd:protocol>

 </gmd:CI\_OnlineResource>

 </gmd:onLine>

 </gmd:MD\_DigitalTransferOptions>

 </gmd:transferOptions>

 <!-- copied from Datafed-->

 <!--srv:serviceType-->

 <!--gco:LocalName>urn:ogc:serviceType:WebCoverageService:1.1.2</gco:LocalName>

 <!--/srv:serviceType-->

 <srv:couplingType>

 <srv:SV\_CouplingType

 codeList="http://www.tc211.org/ISO19139/resources/codeList.xml#SV\_CouplingType"

 codeListValue="tight"> </srv:SV\_CouplingType>

 </srv:couplingType>

 <srv:containsOperations>

 <srv:SV\_OperationMetadata>

 <srv:operationName>

 <gco:CharacterString>GetCapabilities</gco:CharacterString>

 </srv:operationName>

 <srv:DCP> </srv:DCP>

 <srv:connectPoint>

 <gmd:CI\_OnlineResource>

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 </gmd:protocol>

 <gmd:applicationProfile>

 <gco:CharacterString>web browser</gco:CharacterString>

 </gmd:applicationProfile-->

 <gmd:description>

 <gco:CharacterString>This is an OGC compliant Web Coverage Service. The engine used to serve this WCS is FZ Juelich</gco:CharacterString>

 </gmd:description>

 <gmd:function>

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 </gmd:CI\_OnlineResource>

 </srv:connectPoint>

 </srv:SV\_OperationMetadata>

 </srv:containsOperations>

 <srv:containsOperations>

 <srv:SV\_OperationMetadata>

 <srv:operationName>

 <gco:CharacterString>DescribeCoverage</gco:CharacterString>

 </srv:operationName>

 <srv:DCP> </srv:DCP>

 <srv:connectPoint>

 <gmd:CI\_OnlineResource>

 <gmd:linkage-->

 <!-- Check Identifier!-->

 <!--gmd:URL>http://macc.icg.kfa-juelich.de:58080/MACC\_Daily\_96h\_Global\_Forecasts?service=WCS&amp;acceptversions=1.1.2&amp;request=DescribeCoverage&amp;Identifiers=MACC</gmd:URL>

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 <gco:CharacterString>web browser</gco:CharacterString>

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 <gco:CharacterString>MACC</gco:CharacterString>

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 <gco:CharacterString>This is an OGC compliant Web Coverage Service. The engine used to serve this WCS is FZ Juelich</gco:CharacterString>

 </gmd:description>

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 </gmd:function>

 </gmd:CI\_OnlineResource>

 </srv:connectPoint>

 </srv:SV\_OperationMetadata>

 </srv:containsOperations-->

 </gmd:MD\_Distribution>

 </gmd:distributionInfo>

 <gmd:**dataQualityInfo**>

 <gmd:DQ\_DataQuality>

 <gmd:scope>

 <gmd:DQ\_Scope>

 <gmd:level>

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 <!-- copied from Datafed-->

 <!--gmd:level>

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 </gmd:level-->

 </gmd:DQ\_Scope>

 </gmd:scope>

 <gmd:report>

 <gmd:DQ\_DomainConsistency xsi:type="gmd:DQ\_DomainConsistency\_Type">

 <gmd:result>

 <gmd:DQ\_ConformanceResult xsi:type="gmd:DQ\_ConformanceResult\_Type">

 <gmd:specification>

 <gmd:CI\_Citation>

 <gmd:title>

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 <gmd:date>

 <gmd:CI\_Date>

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 <gco:CharacterString>Original model output created at ECMWF in GRIB2 and netcdf formats. Model system used is IFS-MOZ. Reprocessed at Forschungszentrum Jülich to generate uniform netcdf files.</gco:CharacterString>

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 <gmi:**instrument**>

 <gmi:MI\_Instrument>

 <gmi:citation>MUST BE FILLED</gmi:citation>

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1. Metadata files should be made available under a quasi-permanent URL [↑](#footnote-ref-1)