TEMPLATE 5: Describe Coverage Response

[http://macc.icg.kfa-juelich.de:58080/MACC\_Global\_Forecast\_Daily?service=WCS&
version=1.1.2&Request=DescribeCoverage&identifiers=MACC\_20120825](http://macc.icg.kfa-juelich.de:58080/MACC_Global_Forecast_Daily?service=WCS&version=1.1.2&Request=DescribeCoverage&identifiers=MACC_20120825)

<CoverageDescriptions>

 <CoverageDescription>

 <ows11:Title>Reprocessed MACC daily forecast</ows11:Title>

 <ows11:Abstract/>

 <Identifier>MACC\_20120825</Identifier>

 <ows11:Metadata>

 <cf:CoverageMetadata>

 <cf:Conventions>CF-1.5</cf:Conventions>

 <cf:history>Sun Aug 26 00:45:03 2012: cdo -f nc copy … </cf:history>

 <cf:institution>Forschungszentrum Juelich GmbH</cf:institution>

 <cf:references>Juelich MACC WCS server: http://macc.icg.kfa-juelich.de:58080/MACC\_Global\_Forecast\_Daily?service=WCS&Request=getcapabilities;MACC project web site: http://www.gmes-atmosphere.eu/;model description: J. Flemming et al., GMD 2008; Stein et al., J. Integr. Environ. Sci. 2012</cf:references>

 <cf:source>IFS-CY37R3 (expid: fnyp), MOZART-3.5</cf:source>

 <cf:user\_defined>

 <cf:attribute name="author">Olaf Stein</cf:attribute>

 <cf:attribute name="contact">o.stein@fz-juelich.de</cf:attribute>

 <cf:attribute name="project\_id">MACC</cf:attribute>

 </cf:user\_defined>

 </cf:CoverageMetadata>

 </ows11:Metadata>

 <Domain>

 <SpatialDomain>

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 <ows11:UpperCorner>+90.0000 +358.8750</ows11:UpperCorner>

 </ows11:BoundingBox>

 <ows11:BoundingBox crs="urn:ogc:def:crs:OGC:2:84" dimensions="2">

 <ows11:LowerCorner>+0.0000 -90.0000</ows11:LowerCorner>

 <ows11:UpperCorner>+358.8750 +90.0000</ows11:UpperCorner>

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 <ows11:WGS84BoundingBox crs="urn:ogc:def:crs:OGC:2:84">

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 </ows11:WGS84BoundingBox>

 <GridCRS>

 <GridBaseCRS>urn:ogc:def:crs:OGC:2:84</GridBaseCRS>

 <GridType>urn:ogc:def:method:WCS:1.1:2dSimpleGrid</GridType>

 <GridOrigin>+0.0000 -90.0000</GridOrigin>

 <GridOffsets>+1.1250 +1.1321</GridOffsets>

 <GridCS>urn:ogc:def:cs:OGC:0.0:Grid2dSquareCS</GridCS>

 </GridCRS>

 </SpatialDomain>

 <TemporalDomain>

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 <gml:timePosition>2012-08-25T09:00:00Z</gml:timePosition>

 <gml:timePosition>2012-08-25T12:00:00Z</gml:timePosition>

 …[[1]](#footnote-1)

 </TemporalDomain>

 </Domain>

 <Range>[[2]](#footnote-2)

 <Field>

 <ows11:Title>hybrid A coefficient at layer midpoints</ows11:Title>

 <Identifier>a</Identifier>

 <Definition>

 <ows11:AnyValue/>

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 <ows11:UOM>1</ows11:UOM>

 <ows11:Metadata>

 <cf:FieldMetadata>

 <cf:user\_defined>

 <cf:attribute name="bounds">a\_bnds</cf:attribute>

 </cf:user\_defined>

 </cf:FieldMetadata>

 </ows11:Metadata>

 </Definition>

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 <Default>none</Default>

 </InterpolationMethods>

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 <Key>0.995861291885</Key>

 <Key>0.991510748863</Key>

 <Key>0.985347926617</Key>

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 </AvailableKeys>

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 <ows11:UOM>1</ows11:UOM>

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 <cf:AxisMetadata>

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 <cf:standard\_name>atmosphere\_hybrid\_sigma\_pressure\_coordinate

 </cf:standard\_name>

 <cf:user\_defined>

 <cf:attribute name="formula">p(n,k,j,i) = a(k)\*p0 + b(k)\*ps(n,j,i)

 </cf:attribute>

 </cf:user\_defined>

 </cf:AxisMetadata>

 </ows11:Metadata>

 </Axis>

 </Field>

 …

 <Field>

 <ows11:Title>formaldehyde</ows11:Title>

 <Identifier>vmr\_ch2o</Identifier>

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 <ows11:UOM>1</ows11:UOM>

 <ows11:Metadata>

 <cf:FieldMetadata>

 <cf:standard\_name>mole\_fraction\_of\_formaldehyde\_in\_air

 </cf:standard\_name>

 <cf:user\_defined>

 <cf:attribute name="original\_name">CH2O</cf:attribute>

 </cf:user\_defined>

 </cf:FieldMetadata>

 </ows11:Metadata>

 </Definition>

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 <InterpolationMethods>

 <Default>none</Default>

 </InterpolationMethods>

 <Axis identifier="lev">

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 <Key>0.995861291885</Key>

 …

 </AvailableKeys>

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 <ows11:UOM>1</ows11:UOM>

 …

 </Axis>

 </Field>

 …

 </Range>

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 <SupportedFormat>image/netcdf[[4]](#footnote-4)</SupportedFormat>

 <SupportedFormat>application/x-netcdf</SupportedFormat>

 </CoverageDescription>

</CoverageDescriptions>

1. Note that time position may be in the future, for example in a forecast simulation [↑](#footnote-ref-1)
2. OGC term for „variable“ [↑](#footnote-ref-2)
3. Up to WCS 1.1.2, additional axes (here: vertical coordinate) need to be defined for each field. The cf attributes help to define the meaning of an axis [↑](#footnote-ref-3)
4. Image/netcdf is deprecated but kept here for backward compatibility [↑](#footnote-ref-4)