



**Australian Government**

**Department of the Environment and Water Resources**

## The DEW ISO Metadata Profile

The following table describes the DEW metadata profile, which is based on ISO19115. A profile is expressed in XML. The left-hand column of the table contains that XML. Unless stated otherwise, all of the XML elements must be present and the order of the XML should be preserved as it is in the table. The black text must be included unchanged in any metadata which is created. The **bold blue** text can be altered to place specific values into metadata elements. Many of the bold blue values will remain unchanged, since they are satisfactory defaults.

The right-hand column contains an explanation of particular elements, and any rules which must be observed. This profile document should be used in conjunction with the document containing a DEW profile example.

XML	Explanation
<pre>&lt;?xml version="1.0"?&gt; &lt;!--&lt;!DOCTYPE metadata SYSTEM "http://www.esri.com/metadata/esriprof80.dtd"&gt;--&gt; &lt;metadata&gt;</pre>	Don't change XML header
<pre>&lt;mdLang&gt;&lt;languageCode value="en"&gt;&lt;/languageCode&gt;&lt;/mdLang&gt;</pre>	Don't change metadata language is English
<pre>&lt;mdChar&gt;&lt;CharSetCd value="004"/&gt;&lt;/mdChar&gt;</pre>	Don't change metadata character set is unicode
<pre>&lt;mdDateSt&gt;20050511&lt;/mdDateSt&gt;</pre>	Metadata date as yyyyymmdd
<pre>&lt;mdStanName&gt;ISO 19115 Geographic Information - Metadata&lt;/mdStanName&gt;</pre>	Don't change metadata standard name
<pre>&lt;mdStanVer&gt;DEW&lt;/mdStanVer&gt;</pre>	Metadata standard version. DEW is our chosen word
<pre>&lt;mdContact&gt; &lt;rpOrgName&gt;Australian Government Department of the Environment and Water Resources&lt;/rpOrgName&gt; &lt;rpPosName&gt;Parks Data Manager&lt;/rpPosName&gt; &lt;rpCntInfo&gt; &lt;cntPhone&gt; &lt;voiceNum&gt;(02) 6274 1111&lt;/voiceNum&gt; &lt;faxNum&gt;(02) 6274 1333&lt;/faxNum&gt; &lt;/cntPhone&gt; &lt;cntAddress&gt; &lt;delPoint&gt;GPO Box 787&lt;/delPoint&gt; &lt;city&gt;CANBERRA&lt;/city&gt; &lt;adminArea&gt;ACT&lt;/adminArea&gt; &lt;postCode&gt;2601&lt;/postCode&gt; &lt;country&gt;Australia&lt;/country&gt; &lt;eMailAdd&gt;parks.metadata@environment.gov.au&lt;/eMailAdd&gt; &lt;/cntAddress&gt; &lt;cntOnlineRes&gt; &lt;linkage&gt;http://www.environment.gov.au&lt;/linkage&gt; &lt;/cntOnlineRes&gt; &lt;/rpCntInfo&gt; &lt;role&gt; &lt;RoleCd value="007" /&gt; &lt;/role&gt; &lt;/mdContact&gt;</pre>	<p>Metadata contact (for us this is the same information as dataset Point of Contact) We have nominated DEW as contact organisation name This is a data custodian position in DEW</p> <p>Phone number is DEW switch Fax is ERIN fax</p> <p>Address delivery point is PO Box 787 Address city is Canberra Address state is ACT Address postcode is 2601 Address country is Australia Address email is data/metadata custodian in DEW</p> <p>URL is DEW</p> <p>007 = point of contact</p>

XML	EXPLANATION
<dataIdInfo>	Data Identification Information
<idAbs> <b>Abstract text</b> </idAbs>	Summary of the data content (abstract)
<idStatus> <ProgCd value = "002" /> </idStatus>	Status of the data See Table 1 for code values
<resMaint> <maintFreq> <MaintFreqCd value = "011" /> </maintFreq> </resMaint>	Data maintenance frequency See Table 2 for code values
<resConst> <LegConsts> <useLimit> <b>Use Limitations</b> </useLimit> <accessConsts> <RestrictCd value="005"></RestrictCd> </accessConsts> <othConsts> <b>Access Restrictions</b> </othConsts> </LegConsts> </resConst>	Access Restrictions and Limitation of Use  Put the limitations of use here  Put the access restrictions text here
<spatRpType> <SpatRepTypCd value="001" /> </spatRpType>	Spatial representation code 001 = vector    003 = tabular 002 = raster
<geoBox esriExtentType="decdegrees"> <exTypeCode >1</exTypeCode> <westBL> <b>107</b> </westBL> <eastBL> <b>160</b> </eastBL> <southBL> <b>-45</b> </southBL> <northBL> <b>-8</b> </northBL> </geoBox>	Bounding box of data in decimal degrees  Minimum longitude Maximum longitude Minimum latitude Maximum latitude
<dsFormat> <formatName> <b>ArctInfo Coverage</b> </formatName> <formatVer> <b>1</b> </formatVer> </dsFormat>	Dataset stored format. The format name is free text. A format name must be accompanied by a format version – we use 1 unless the version is fixed and unchanging
<dataLang> <languageCode value="en" /> </dataLang>	Don't change dataset language is English

XML	EXPLANATION
<pre>&lt;dataChar&gt; &lt;CharSetCd value="004" /&gt; &lt;/dataChar&gt;</pre>	Don't change dataset character set is unicode
<pre>&lt;idCitation&gt; &lt;resTitle&gt;Data set title&lt;/resTitle&gt; &lt;resAltTitle&gt;data set name&lt;/resAltTitle&gt;</pre>	Start citation Descriptive title of data set is free text Name of the shape file, SDE feature class etc
<pre>&lt;resRefDate&gt; &lt;refDate&gt;19750101&lt;/refDate&gt; &lt;refDateType&gt; &lt;DateTypCd value="001" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;resRefDate&gt; &lt;refDate&gt;19840101&lt;/refDate&gt; &lt;refDateType&gt; &lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt;</pre>	Reference dates. At least one of these 2 dates MUST be present Date as yyymmdd 001 = dataset creation date  Date as yyymmdd  003 = dataset last revision date
<pre>&lt;citId&gt; &lt;MdlIdent&gt; &lt;identCode&gt;ANZCW0501002200&lt;/identCode&gt; &lt;/MdlIdent&gt; &lt;/citId&gt;</pre>	Citation identifier for DEW corporate data Omit for local data Has structure ANZCW0501sixdigits or ISOCW0501sixdigits DO NOT use CW0501 outside DEW

XML	EXPLANATION
<pre> &lt;citRespParty&gt; &lt;rpOrgName&gt;Custodian Organisation &lt;/rpOrgName&gt; &lt;rpPosName&gt;Position&lt;/rpPosName&gt; &lt;rpCntInfo&gt; &lt;cntPhone&gt; &lt;voiceNum&gt; phone no &lt;/voiceNum&gt; &lt;faxNum&gt;fax no&lt;/faxNum&gt; &lt;/cntPhone&gt; &lt;cntAddress&gt; &lt;delPoint&gt;address&lt;/delPoint&gt; &lt;city&gt;city&lt;/city&gt; &lt;adminArea&gt;state&lt;/adminArea&gt; &lt;postCode&gt;postcode&lt;/postCode&gt; &lt;country&gt;country&lt;/country&gt; &lt;eMailAdd&gt;email&lt;/eMailAdd&gt; &lt;/cntAddress&gt; &lt;cntOnlineRes&gt; &lt;linkage&gt;URL&lt;/linkage&gt; &lt;/cntOnlineRes&gt; &lt;/rpCntInfo&gt; &lt;role&gt; &lt;RoleCd value="002" /&gt; &lt;/role&gt; &lt;/citRespParty&gt; </pre>	<p>Cited responsible party - Custodian Name of custodian organisation Contact position in custodian organisation</p> <p>Phone number in custodian organisation Fax number in custodian organisation</p> <p>Address delivery point for custodian organisation Address city for custodian organisation Address state for custodian organisation Address postcode for custodian organisation Address country for custodian organisation Address email in custodian organisation</p> <p>URL for custodian organisation</p> <p>002 = custodian</p>

XML	EXPLANATION
<pre> &lt;citRespParty&gt; &lt;rpOrgName&gt;Australian Government Department of the Environment and Water Resources&lt;/rpOrgName&gt; &lt;rpPosName&gt;Metadata Publisher&lt;/rpPosName&gt; &lt;rpCntInfo&gt; &lt;cntPhone&gt; &lt;voiceNum&gt; (02) 6274 1111 &lt;/voiceNum&gt; &lt;faxNum&gt; (02) 6274 1333 &lt;/faxNum&gt; &lt;/cntPhone&gt; &lt;cntAddress&gt; &lt;delPoint&gt; GPO Box 787 &lt;/delPoint&gt; &lt;city&gt; CANBERRA &lt;/city&gt; &lt;adminArea&gt; ACT &lt;/adminArea&gt; &lt;postCode&gt;2601&lt;/postCode&gt; &lt;country&gt;Australia&lt;/country&gt; &lt;eMailAdd&gt;metadata@environment.gov.au&lt;/eMailAdd&gt; &lt;/cntAddress&gt; &lt;cntOnlineRes&gt; &lt;linkage&gt;http://www.environment.gov.au/ &lt;/linkage&gt; &lt;/cntOnlineRes&gt; &lt;/rpCntInfo&gt; &lt;role&gt; &lt;RoleCd value="010" /&gt; &lt;/role&gt; &lt;/citRespParty&gt; </pre>	<p>Cited responsible party – Publisher  We have nominated DEW as publisher organisation name  <u>You only need a publisher if you intend to publish the metadata to a metadata server</u></p> <p>Phone number is DEW switch  Fax is ERIN fax</p> <p>Address delivery point is PO Box 787  Address city is CANBERRA  Address state is ACT  Address postcode is 2601  Address country is Australia  Address email is data/metadata manager</p> <p>Linkage is DEW URL</p> <p>010 = publisher</p>
<pre> &lt;presForm&gt; &lt;PresFormCd value="005"&gt;&lt;/PresFormCd&gt; &lt;/presForm&gt; </pre>	<p>Mode in which data is presented  005=digital map data</p>
<pre> &lt;/idCitation&gt; </pre>	<p>Close citation</p>

XML	EXPLANATION
<pre> &lt;idPoC&gt; &lt;rpOrgName&gt;Australian Government Department of the Environment and Water Resources &lt;/rpOrgName&gt; &lt;rpPosName&gt;Parks Data Manager&lt;/rpPosName&gt; &lt;rpCntInfo&gt; &lt;cntPhone&gt; &lt;voiceNum&gt;(02) 6274 1111&lt;/voiceNum&gt; &lt;faxNum&gt;(02) 6274 1333 &lt;/faxNum&gt; &lt;/cntPhone&gt; &lt;cntAddress&gt; &lt;delPoint&gt;GPO Box 787&lt;/delPoint&gt; &lt;city&gt;CANBERRA&lt;/city&gt; &lt;adminArea&gt;ACT&lt;/adminArea&gt; &lt;postCode&gt;2601&lt;/postCode&gt; &lt;country&gt;Australia&lt;/country&gt; &lt;eMailAdd&gt;parks.metadata@dew.gov.au&lt;/eMailAdd&gt; &lt;/cntAddress&gt; &lt;cntOnlineRes&gt; &lt;linkage&gt;http://www.dew.gov.au&lt;/linkage&gt; &lt;/cntOnlineRes&gt; &lt;/rpCntInfo&gt; &lt;role&gt; &lt;RoleCd value="007" /&gt; &lt;/role&gt; &lt;/idPoC&gt; </pre>	<p>Data set Point of Contact – for us this is someone in DEW We have nominated DEW as PoC organisation name</p> <p>This is a data custodian position in DEW</p> <p>Phone number is DEW switch Fax is ERIN fax</p> <p>Address delivery point is PO Box 787 Address city is Canberra Address state is ACT Address postcode is 2601 Address country is Australia Address email is data/metadata custodian in DEW</p> <p>URL is DEW</p> <p>007 = point of contact</p>
<pre> &lt;descKeys&gt; &lt;keyword&gt;keyword1&lt;/keyword&gt; &lt;keyword&gt;keyword2&lt;/keyword&gt; &lt;keyTyp&gt; &lt;KeyTypCd value="005" /&gt; &lt;/keyTyp&gt; &lt;/descKeys&gt; </pre>	<p>ANZLIC keywords You may have as many as you like</p> <p>005 = "theme"</p>

XML	EXPLANATION
<pre> &lt;dataScale&gt; &lt;equScale&gt; &lt;rfDenom&gt;1000000&lt;/rfDenom&gt; &lt;/equScale&gt; &lt;/dataScale&gt; </pre> <p style="text-align: center;"><b><u>OR</u></b></p> <pre> &lt;dataScale&gt; &lt;scaleDist&gt; &lt;value&gt;100&lt;/value&gt; &lt;uom&gt; &lt;UomScale&gt; &lt;uomName&gt;Meters&lt;/uomName&gt; &lt;conversionToISOstandardUnit&gt;Meters = 1 m &lt;/conversionToISOstandardUnit&gt; &lt;/UomScale&gt; &lt;/uom&gt; &lt;/scaleDist&gt; &lt;/dataScale&gt; </pre>	<p>Dataset scale as denominator <u>OR</u> resolution</p> <p>Denominator, here scale is 1:1,000,000</p> <p>Resolution, here resolution is 100m</p> <p>Don't change these values</p>
<pre> &lt;tpCat&gt; &lt;TopicCatCd value="014" /&gt; &lt;/tpCat&gt; </pre>	<p>ISO topic category See Table 3</p>
<pre> &lt;supplInfo&gt;publication status&lt;/supplInfo&gt; </pre>	<p>Publication status See Table 4</p>
<pre> &lt;/dataIdInfo&gt; </pre>	<p>Close dataset identification</p>
<pre> &lt;refSysInfo&gt; &lt;RefSystem&gt; &lt;refSysID&gt; &lt;identCode&gt;WGS 84&lt;/identCode&gt; &lt;/refSysID&gt; &lt;/RefSystem&gt; &lt;/refSysInfo&gt; </pre>	<p>Spatial Reference System DEW corporate data is generally WGS 84</p> <p>Let ArcGIS set this.</p>
<pre> &lt;dqlInfo&gt; </pre>	<p>Data Quality Information. For us this is mandatory</p>
<pre> &lt;dataLineage&gt; </pre>	<p>Start lineage</p>

XML	EXPLANATION
<pre> &lt;statement&gt;Dataset history statement&lt;/statement&gt; &lt;dataSource&gt; &lt;srcCitatn&gt; &lt;resTitle&gt;citation 1&lt;/resTitle&gt; &lt;resRefDate&gt;&lt;refDate&gt;20000101&lt;/refDate&gt; &lt;refDateType&gt;&lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;/srcCitatn&gt; &lt;srcCitatn&gt; &lt;resTitle&gt;citation 2&lt;/resTitle&gt; &lt;resRefDate&gt;&lt;refDate&gt;20000101&lt;/refDate&gt; &lt;refDateType&gt;&lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;/srcCitatn&gt; &lt;/dataSource&gt; </pre>	<p>Lineage statement  Data source acknowledgements (migrated from EDD).  These are NOT mandatory. You may have any number of acknowledgements.  Each citation title must have a date  We always use 20000101.  And we always use 003 = revision date</p>
<pre> &lt;/dataLineage&gt; </pre>	<p>Close lineage</p>
<pre> &lt;dqReport&gt; </pre>	<p>Start report section. Four reports are mandatory</p>
<pre> &lt;DQAbsExtPosAcc&gt; &lt;measResult&gt; &lt;ConResult&gt; &lt;conSpec&gt; &lt;resTitle&gt;ERIN Check&lt;/resTitle&gt; &lt;resRefDate&gt; &lt;refDate&gt;20000101&lt;/refDate&gt; &lt;refDateType&gt; &lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;/conSpec&gt; &lt;conExpl&gt;Positional accuracy &lt;/conExpl&gt; &lt;conPass&gt;1&lt;/conPass&gt; &lt;/ConResult&gt; &lt;/measResult&gt; &lt;/DQAbsExtPosAcc&gt; </pre>	<p><u>Positional accuracy</u>. All of the ISO elements must be present. Many have our default values in them</p> <p>Name of the 'test' used. We always use ERIN Check</p> <p>We always use date 20000101</p> <p>And we always use 003 = revision date</p> <p>This is the actual positional accuracy information  We always use 1 = 'pass ' (0 = 'fail')</p>

XML	EXPLANATION
<pre> &lt;DQNonQuanAttAcc&gt; &lt;measResult&gt; &lt;ConResult&gt; &lt;conSpec&gt; &lt;resTitle&gt;ERIN Check&lt;/resTitle&gt; &lt;resRefDate&gt; &lt;refDate&gt;20000101&lt;/refDate&gt; &lt;refDateType&gt; &lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;/conSpec&gt; &lt;conExpl&gt;attribute accuracy&lt;/conExpl&gt; &lt;conPass&gt;1&lt;/conPass&gt; &lt;/ConResult&gt; &lt;/measResult&gt; &lt;/DQNonQuanAttAcc&gt; </pre>	<p><u>Attribute accuracy.</u> All of the ISO elements must be present. Many have our default values in them</p> <p>Name of the 'test' used. We always use ERIN Check</p> <p>We always use date 20000101 And we always use 003 = revision date</p> <p>This is the actual attribute accuracy information We always use 1 = 'pass ' (0 = 'fail')</p>
<pre> &lt;DQConcConsis&gt; &lt;measResult&gt; &lt;ConResult&gt; &lt;conSpec&gt; &lt;resTitle&gt;ERIN Check&lt;/resTitle&gt; &lt;resRefDate&gt; &lt;refDate&gt;20000101&lt;/refDate&gt; &lt;refDateType&gt; &lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;/conSpec&gt; &lt;conExpl&gt;logical consistency &lt;/conExpl&gt; &lt;conPass&gt;1&lt;/conPass&gt; &lt;/ConResult&gt; &lt;/measResult&gt; &lt;/DQConcConsis&gt; </pre>	<p><u>Logical consistency.</u> All of the ISO elements must be present. Many have our default values in them</p> <p>Name of the 'test' used. We always use ERIN Check</p> <p>We always use date 20000101 And we always use 003 = revision date</p> <p>This is the actual logical consistency information We always use 1 = 'pass ' (0 = 'fail')</p>

XML	EXPLANATION
<pre> &lt;DQCompOm&gt; &lt;measResult&gt; &lt;ConResult&gt; &lt;conSpec&gt; &lt;resTitle&gt;ERIN Check&lt;/resTitle&gt; &lt;resRefDate&gt; &lt;refDate&gt;20000101&lt;/refDate&gt; &lt;refDateType&gt; &lt;DateTypCd value="003" /&gt; &lt;/refDateType&gt; &lt;/resRefDate&gt; &lt;/conSpec&gt; &lt;conExpl&gt;Completeness &lt;/conExpl&gt; &lt;conPass&gt;1&lt;/conPass&gt; &lt;/ConResult&gt; &lt;/measResult&gt; &lt;/DQCompOm&gt; </pre>	<p><u>Completeness.</u> All of the ISO elements must be present. Many have our default values in them</p> <p>Name of the 'test' used. We always use ERIN Check</p> <p>We always use date 20000101</p> <p>And we always use 003 = revision date</p> <p>This is the actual completeness information We always use 1 = 'pass ' (0 = 'fail')</p>
<pre> &lt;/dqReport&gt; </pre>	<p>Close 4 reports</p>
<pre> &lt;dqScope&gt; &lt;scpLvl&gt; &lt;ScopeCd value="005" /&gt; &lt;/scpLvl&gt; &lt;/dqScope&gt; </pre>	<p>Scope of data quality information</p> <p>005 = data set</p>
<pre> &lt;/dqInfo&gt; </pre>	<p>Close data quality information</p>
<pre> &lt;distInfo&gt; </pre>	<p>Distribution information</p>
<pre> &lt;distributor&gt; </pre>	<p>Distributor information</p>
<pre> &lt;distorCont&gt; &lt;rpOrgName&gt;Australian Government Department of the Environment and Water Resources &lt;/rpOrgName&gt; &lt;rpCntInfo&gt; &lt;cntPhone&gt; &lt;voiceNum&gt;(02) 6274 1111&lt;/voiceNum&gt; &lt;faxNum&gt;(02) 6274 1333&lt;/faxNum&gt; &lt;/cntPhone&gt; </pre>	<p>Distributor contact information. We have nominated DEW as distributor organisation name</p> <p>Phone number is DEW switch Fax is ERIN fax</p>

<pre> &lt;cntAddress&gt; &lt;delPoint&gt;GPO Box 787&lt;/delPoint&gt; &lt;city&gt;CANBERRA&lt;/city&gt; &lt;adminArea&gt;ACT&lt;/adminArea&gt; &lt;postCode&gt;2601&lt;/postCode&gt; &lt;country&gt;Australia&lt;/country&gt; &lt;eMailAdd&gt;metadata@dew.gov.au&lt;/eMailAdd&gt; &lt;/cntAddress&gt; &lt;/rpCntInfo&gt; &lt;role&gt;&lt;RoleCd value="005"&gt;&lt;/RoleCd&gt; &lt;/role&gt; &lt;/distorCont&gt; </pre>	<p>Address delivery point is PO Box 787  Address city is CANBERRA  Address state is ACT  Address postcode is 2601  Address country is Australia  Address email is data/metadata manager</p> <p>005 = distributor</p>
<p><b>XML</b></p>	<p><b>EXPLANATION</b></p>
<pre> &lt;distorFormat&gt; &lt;formatName&gt;ArcInfo export file&lt;/formatName&gt; &lt;formatVer&gt;1&lt;/formatVer&gt; &lt;/distorFormat&gt; &lt;distorFormat&gt; &lt;formatName&gt;ArcView shapefile&lt;/formatName&gt; &lt;formatVer&gt;1&lt;/formatVer&gt; &lt;/distorFormat&gt; </pre>	<p>First distribution format. You may have multiple formats. The format name is free text. A format name must be accompanied by a format version</p> <p>Second distribution format.</p>
<pre> &lt;distorTran&gt; &lt;onLineSrc&gt; &lt;linkage&gt;path to data&lt;/linkage&gt; &lt;orDesc&gt;003&lt;/orDesc&gt; &lt;/onLineSrc&gt; &lt;onLineSrc&gt; &lt;linkage&gt;http://www.dew.gov.au&lt;/linkage&gt; &lt;orDesc&gt;002&lt;/orDesc&gt; &lt;/onLineSrc&gt; &lt;/distorTran&gt; </pre>	<p>Data Transfer Options. You may have multiple options.</p> <p>Linkage is location of data  003 = file system or SDE data</p> <p>Linkage is location of downloadable data  002 = downloadable data (and 005 = other documents)</p>
<pre> &lt;/distributor&gt; &lt;/distInfo&gt; </pre>	<p>Close the Distributor tags</p>
<pre> &lt;/metadata&gt; </pre>	<p>Close the metadata</p>

**Table1 Status of the Data**

<b>ProgCd</b>	<b>Name</b>	<b>Explanation</b>
001	completed	Production of the data has been completed
002	historicalArchive	Data is stored in an offline storage facility
003	obsolete	Data is no longer relevant
004	onGoing	Data is continually being updated
005	planned	A fixed date has been established for creation/update of data
006	required	Data needs to be generated or updated
007	underDevelopment	Data is in the process of being created

**Table 2 Data Maintenance Frequency**

<b>MaintFreqCd</b>	<b>Name</b>	<b>Explanation</b>
001	Continual	Repeatedly and frequently updated
002	daily	
003	weekly	
004	fortnightly	
005	monthly	
006	quarterly	
007	biannually	
008	annually	
009	asNeeded	Updated as deemed necessary
010	irregular	Updated in intervals that are uneven in duration
011	notPlanned	No plans to update the data
012	unknown	

**Table 3 Explanation of ISO Data Categories**

<b>TopicCatCd</b>	<b>ISO CATEGORY</b>	<b>EXPLANATION</b>
001	farming	Rearing of animals and/or cultivation of plants.  Examples: agriculture, irrigation, aquaculture, plantations, herding, pests and diseases affecting crops or livestock
002	biota	Flora and/or fauna in natural environment.  Examples: wildlife, vegetation, biological sciences, ecology, wilderness, sealife, wetlands, habitat
003	boundaries	Legal land descriptions.  Examples: political and administrative boundaries
004	climatologyMeteorologyAtmosphere	Processes and phenomena of the atmosphere.  Examples: cloud cover, weather, climate, atmospheric conditions, climate change, precipitation
005	economy	Economic activities, conditions and employment.  Examples: production, labour, revenue, commerce, industry, forestry, fisheries, commercial hunting
006	elevation	Height above or below sea level.  Examples: altitude, bathymetry, digital elevation models, slope, derived products
007	environment	Environmental resources, protection and conservation.  Examples: environmental pollution, waste storage and treatment, environmental impact assessment, monitoring environmental risk, nature reserves

008	geoscientificInformation	<p>Information pertaining to earth sciences.</p> <p>Examples: geophysics, geology, minerals, rocks, earthquakes, volcanic activity, landslides, gravity, soils, permafrost, hydrogeology, erosion</p>
009	health	<p>Health, health services, human ecology, and safety.</p> <p>Examples: disease and illness, factors affecting health, hygiene, substance abuse, mental and physical health, services</p>
010	imageryBaseMapsEarthCover	<p>Base maps.</p> <p>Examples: land cover, topographic maps, imagery, unclassified images, annotations</p>
011	intelligenceMilitary	<p>Military bases, structure, activities.</p> <p>Examples: barracks, training grounds, military transportation, information collection</p>
012	inlandWaters	<p>Inland water features, drainage systems and their characteristics.</p> <p>Examples: rivers and glaciers, salt lakes, water utilisation plans, dams, currents, floods, water quality, hydrographic charts</p>
013	location	<p>Positional information and services.</p> <p>Examples: addresses, geodetic networks, control points, postal zones, and services, place names</p>
014	oceans	<p>Features and characteristics of salt water bodies (excluding inland waters).</p> <p>Examples: tides, tidal waves, coastal information, reefs</p>
015	planningCadastre	<p>Information used for appropriate action for future use of land.</p> <p>Examples: land use maps, zoning maps, cadastral surveys, land ownership</p>

016	society	<p>Characteristics of society and cultures.</p> <p>Examples: settlements, anthropology, archaeology, education, traditional beliefs, manners and customs, demography, recreation, social impact assessments, crime and justice, census</p>
017	structure	<p>Man-made construction.</p> <p>Examples: buildings, museums, churches, factories, housing, monuments, shops, towers</p>
018	transportation	<p>Means and aids for conveying persons and/or goods.</p> <p>Examples: roads, airports/airstrips, shipping routes, tunnels, nautical charts, vehicle or vessel location, aeronautical charts, railways</p>
019	utilitiesCommunication	<p>Energy, water and waste systems and communications infrastructure and services.</p> <p>Examples: hydro, geothermal, solar and nuclear sources of energy, water purification and distribution, sewage, electricity and gas distribution, data and telecommunication networks, radio</p>

**Table 4 Publication Status**

<b>Status text</b>	<b>Explanation</b>
not to be published	Metadata describing data can only be seen by people who can see the data
to be published internally	Metadata can be seen inside DEW
to be published externally	Metadata can be seen inside DEW, via the internet and from Green Pages