

MEETING OF THE

Expert Team on WORLD DATA CENTRES  
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# Additional code list elements for WMO Core Metadata Standard v1.3

## Proposal

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	<b>In Preparation</b>	<b>Review</b>	<b>Approved</b>
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Version 1.0

# Document management

## Responsibilities

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## Version control

Version	Authored by	Date	Reason for issue/Summary of change
0.1	J. Klausen	2013-12-30	Document drafted
1.0	J. Klausen	2014-01-22	Term "radiation" dropped from proposal

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## Chapter 1 Background

The WMO Core Metadata Standard v1.3 specifies a number of code tables with exhaustive lists of permissible entries. These code tables are maintained by the WMO Inter-Programme Expert Team on Metadata and Data Representation Development (IPET-MDRD). The most recent list of elements can be found at [http://wis.wmo.int/2012/codelist/WMOCodeLists.xml#WMO\\_CategoryCode](http://wis.wmo.int/2012/codelist/WMOCodeLists.xml#WMO_CategoryCode).

From WMO Core Metadata Standard v1.3 Specification Part 2:

**Table 10 – MD\_KeywordTypeCode «CodeList» (including amendment)**

	Name	Domain Code	Definition
1.	MD_KeywordTypeCode	KeyTypCd	methods used to group similar keywords
2.	discipline	001	keyword identifies a branch of instruction or specialised learning
3.	place	002	keyword identifies a location
4.	stratum	003	keyword identifies a the layer(s) of any deposited substance
5.	temporal	004	keyword identifies a time period related to the dataset
6.	theme	005	keyword identifies a particular subject or topic
7.	<b>dataCentre</b>	<b>006</b>	<b>keyword identifies a a repository or archive that manages and distributes data</b> (from ISO/DIS 19115-1:2013)

**Table 13 - MD\_TopicCategoryCode «Enumeration»**

	<b>Name</b>	<b>Domain code</b>	<b>Definition</b>
1.	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.
2.	farming	001	rearing of animals and/or cultivation of plants Examples: agriculture, plantations, herding, pests and diseases affecting crops and livestock
3.	biota	002	flora and/or fauna in natural environment Examples: wildlife, vegetation, biological sciences, ecology, sea-life, habitat
4.	boundaries	003	legal land descriptions Examples: political and administrative boundaries
5.	climatologyMeteorologyAtmosphere	004	processes and phenomena of the atmosphere Examples: weather, climate, atmospheric conditions, climate change, precipitation
6.	economy	005	economic activities, conditions and employment Examples: production, labour, revenue, commerce, industry, tourism and ecotourism, forestry, fisheries, commercial or subsistence hunting, exploration and exploitation of resources such as minerals, oil and gas
7.	elevation	006	height above or below sea level Examples: altitude, bathymetry, digital elevation models, slope, derived products
8.	environment	007	environmental resources, protection and conservation Examples: environmental pollution, waste storage and treatment, environmental impact assessment, monitoring environmental risk, nature reserves, landscape
9.	geoscientificInformation	008	information pertaining to earth sciences Examples: geophysical features and processes, geology, minerals, sciences dealing with the composition, structure and origin of the earth's rocks, risks of earthquakes, volcanic activity, landslides, gravity information, soils, permafrost, hydrogeology, erosion
10.	health	009	health, health services, human ecology, and safety Examples: disease and illness, factors affecting health, hygiene, substance abuse, mental and physical health, health services
11.	imageryBaseMapsEarthCover	010	base maps Examples: land cover, topographic maps, imagery, unclassified images, annotations
12.	intelligenceMilitary	011	military bases, structures, activities Examples: barracks, training grounds, military transportation, information collection
13.	inlandWaters	012	inland water features, drainage systems and their characteristics Examples: rivers and glaciers, salt lakes, water utilization plans, dams, currents, floods, water quality, hydrographic charts
14.	location	013	positional information and services Examples: addresses, geodetic networks, control points, postal zones and services, place names
15.	oceans	014	features and characteristics of salt water bodies (excluding inland waters) Examples: tides, tidal waves, coastal information, reefs

16.	planningCadastre	015	information used for appropriate actions for future use of the land Examples: land use maps, zoning maps, cadastral surveys, land ownership
17.	society	016	characteristics of society and cultures Examples: settlements, anthropology, archaeology, education, traditional beliefs, manners and customs, demographic data, recreational areas and activities, social impact assessments, crime and justice, census information
18.	structure	017	man-made construction Examples: buildings, museums, churches, factories, housing, monuments, shops, towers
19.	transportation	018	means and aids for conveying persons and/or goods Examples: roads, airports/airstrips, shipping routes, tunnels, nautical charts, vehicle or vessel location, aeronautical charts, railways
20.	utilitiesCommunication	019	energy, water and waste systems and communications infrastructure and services Examples: hydroelectricity, geothermal, solar and nuclear sources of energy, water purification and distribution, sewage collection and disposal, electricity and gas distribution, data communication, telecommunication, radio, communication Networks

**Table 16 - WMO\_CategoryCode «CodeList»**

	Name	Domain Code	Definition
1.	WMO_CategoryCode	WMOCatCd	additional topic categories for WMO community
2.	weatherObservations	001	weather observations
3.	weatherForecasts	002	weather forecasts
4.	meteorology	003	Meteorology
5.	hydrology	004	Hydrology
6.	climatology	005	Climatology
7.	landMeteorologyClimate	006	land meteorology climate
8.	synopticMeteorology	007	synoptic meteorology
9.	marineMeteorology	008	marine meteorology
10.	agriculturalMeteorology	009	agricultural meteorology
11.	aerology	010	Aerology
12.	marineAerology	011	marine aerology
13.	oceanography	012	Oceanography
14.	landHydrology	013	land hydrology
15.	rocketSounding	014	rocket sounding
16.	pollution	015	Pollution
17.	waterPollution	016	water pollution
18.	landWaterPollution	017	land water pollution
19.	seaPollution	018	sea pollution
20.	landPollution	019	land pollution
21.	airPollution	020	air pollution
22.	glaciology	021	Glaciology
23.	actinometry	022	Actinometry
24.	satelliteObservation	023	satellite observation
25.	airplaneObservation	024	airplane observation
26.	observationPlatform	025	observation platform

## Chapter 2    **Additional Code List Elements**

Considering that,

GAW is concerned with the long-term observation of atmospheric composition and selected physical properties of the atmosphere on all spatial scales from global to local,

Considering that,

GAW data originate from some of the most pristine areas in the world as well as more polluted environments of large urban complexes,

Considering that,

The six focal areas of GAW include ozone, greenhouse gases, reactive gases, aerosols, precipitation chemistry, and UV Radiation; and GURME is concerned with urban environments

Considering that,

The code table "MD\_TopicCategoryCode" contains the element "climatologyMeteorologyAtmosphere" that adequately describe the topic of GAW,

Considering that,

The available code list elements contain [only] the elements "aerology", "meteorology", "airPollution" and "actinometry" and that no code list elements exist in the code table "WMO\_CategoryCode" to adequately describe all of the themes of GAW observations,

*ET-WDC requests that the term "**atmosphericComposition**" be included in Code table "WMO\_CategoryCode".*

## Chapter 3 **Rationale**

The vast majority of users relates the term ‘airPollution’ to classical air pollutants and to more polluted environments. While these are also in the scope of GAW, measurements of the so-called atmospheric “background” are traditionally more important for GAW. These observations are more adequately described, and are described in a more neutral manner, with the term “atmosphericComposition”.