



Workshop

„Metadata for Air Quality and Atmospheric Composition“

Morrison hotel, Lower Ormond Quay, Dublin

5 – 7 September, 2012

Agenda

Wednesday, Sept. 5 th , 2012	
09:30 – 12:00 h	Preparatory meeting (members of organizing committee and GEO AQ CoP steering group – parallel to MACC meeting on OBServations [max. 20 participants])
12:00 – 13:00 h	Lunch and registration
13:00 – 13:15 h	Welcome and Logistics
13:15 – 14:15 h	INTRODUCTION: Main frameworks dealing with AQ metadata <u>Tarrason (NILU), Schultz (Jülich)</u> : GEO COP contribution and workshop goals <u>Gaetani (GEOSS)</u> : The GEO work-plan for 2012-2013 <u>Cryan (EEA)</u> : e-reporting in the EU and links to INSPIRE <u>Robinson (ESIP)</u> : The ISO 19115 and 19115/2 standards
14:15 – 15:00 h	BLOCK 1: Metadata needs from different user communities <u>Frost (NOAA)</u> : Emissions and their needs for interoperability <u>Peuch (ECMWF)</u> : The MACC project and its needs for interoperability <u>P. Eckhardt (NILU)</u> : Metadata needs for AQ observations <u>Boykov (ESA: TBC)</u> : Metadata needs for satellite data
15:00 – 15:30 h	Coffee break
15:30 – 16:30 h	BLOCK 1, continued
16:30 – 18:00 h	BLOCK2: Metadata standards in practice: what do we get? <u>Schultz (Jülich)</u> : Examples from the Datafed and the Jülich web interface <u>De Rudder (BIRA)</u> : Example of PASODOBLE - INSPIRE metadata mapping <u>Tarrason (NILU)</u> : Contribution to GISC: Flagging data quality <u>NN (BIRA)</u> : NORS and GEOMS
18:00 – 18:30 h	Introduction to metadata templates and working groups work
19:30 h (or 20:00 h)	Dinner

Thursday, Sept. 6th, 2012

09:00 – 10:30 h

WORKING GROUP DISCUSSION – SESSION 1

The objective of Session 1 is to identify best practices and uses of metadata standards for the four main user communities.

The working groups will be divided according to expertise on:

- in-situ observation data
- satellite data
- model data
- emission data

The discussion will proceed with the evaluation of existing templates through a practical exercise carried out in parallel by the four working groups and consider these specific questions:

- **Discovery of the data** - How can we identify data sets? (e.g. master list(s) of species/compounds, instruments, etc.)
- **External properties** - How can we describe external data set properties? (station description; instrument description; calibration methods; etc.)
- **Ownership and Provenance** - How can we describe data set ownership and provenance? (who “created” the data set? Who is responsible for which aspect of the data and metadata?)
- **Data description** - How can we track data set version changes and data modifications? (updated calibration records; aggregated or filtered data; interpolated data; reformatted data; etc.) - What do we need to describe the data set contents? (measurement vs. model; analysis vs. forecast; resolution; continuous series vs. campaign data; multi-species set; etc.) – How do we describe the data set quality?

The expected outcome of the discussion is to identify best practices and also the main limitations of the current metadata characterization.

10:30 – 11:00 h

Coffee break

11:00 – 12:30 h

Working groups, Session 1 continued

12:30 – 14:00 h

Lunch

14:00 – 16:00 h

Plenary summaries of Session 1 working group discussions
Presentation will focus on current best practices and identify existing limitations and problems of use.

16:00 – 16:30 h

Coffee break

16:30 – 18:30 h

WORKING GROUP DISCUSSION – SESSION 2

Cross-thematic working groups to review metadata templates and existing procedures in light of data set discovery, external properties, ownership and provenance, and data description, based on the results from Session 1

- The working groups will identify open and cross-cutting issues;
- Working groups should also discuss how the results obtained here can be fed into the existing frameworks and requirements (e.g. e-reporting, MACC, WCS, GEOSS, etc.)
- How can we publish metadata information in a meaningful way? (e.g. agreed list of keywords/aliases; granularity/grouping of data sets)

Dinner

Friday, Sept. 7th, 2012**09:00 – 10:00 h** Summary from working groups**10:00 – 10:30 h** Final discussion on metadata for air quality and atmospheric composition:

- what have we achieved?
- how will we proceed from here?
- documentation/publication of results?
- related issues; need for a follow-up meeting?

10:30 – 11:00 h *Coffee break***11:00 – 12:30 h** Advancing the GEO AQ CoP data network:

- short presentations on progress since Solta, 2011
- summary and discussion of remaining technical issues
- summary and discussion of networking issues
- how to advance from GEO to CoP?

12:30 – 14:00 h *Lunch and adjourn*