



## Workshop

### „Metadata for Air Quality and Atmospheric Composition“

Morrison hotel, Lower Ormond Quay, Dublin

5 – 7 September, 2012

## Agenda

Wednesday, Sept. 5 <sup>th</sup> , 2012	
09:30 – 12:00 h	Warm-up meeting (there is a meeting room for up to 20 persons reserved in parallel to the MACC OBS project meeting. This provides opportunities to get to know each other and clarify individual meeting objectives. No formal agenda.
12:00 – 13:00 h	Registration
13:00 – 13:15 h	<b>Welcome and Logistics</b>
13:15 – 14:15 h	<b>INTRODUCTION: Main frameworks dealing with AQ metadata</b> <b>L. Tarrason (NILU), M. Schultz (Jülich):</b> GEO COP objectives and workshop goals <b>F. Gaetani (GEOSS):</b> The GEO work-plan for 2012-2013 <b>S. Cryan (EEA):</b> e-reporting in the EU and links to INSPIRE <b>E. Robinson (ESIP):</b> The ISO 19115 and 19115/2 standards
14:15 – 15:00 h	<b>BLOCK 1: Metadata needs from different user communities</b> <b>G. Frost (NOAA):</b> Emissions and their needs for interoperability <b>P. Eckhardt (NILU):</b> Metadata needs for AQ observations
15:00 – 15:30 h	Coffee break
15:30 – 16:30 h	<b>BLOCK 1, continued</b> <b>M. de Maziere (BIRA TBC):</b> Metadata needs in NORS <b>J. Klausen (Meteo Swiss):</b> The GAW Station Information System (GAWSIS): Metadata for GAW between Discovery and Documentation of Observations
16:30 – 18:00 h	<b>BLOCK2: Metadata standards in practice: what do we get?</b> <b>Schultz (Jülich):</b> Examples from the Datafed and the Jülich web interface <b>De Rudder (BIRA):</b> Example of PASODOBLE - INSPIRE metadata mapping <b>Tarrason (NILU):</b> Contribution to GISC: Flagging data quality
18:00 – 18:30 h	<b>Introduction to metadata templates and working groups work</b>
19:30 h	Banquet Dinner

AGENDA

Thursday, Sept. 6<sup>th</sup>, 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)

*Individual Dinner*

AGENDA

Friday, Sept. 7 <sup>th</sup> , 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: <ul style="list-style-type: none"><li>- what have we achieved?</li><li>- how will we proceed from here?</li><li>- documentation/publication of results?</li><li>- related issues; need for a follow-up meeting?</li></ul>
10:30 – 11:00 h	<i>Coffee break</i>
11:00 – 12:30 h	Advancing the GEO AQ CoP data network: <ul style="list-style-type: none"><li>- short presentations on progress since Solta, 2011</li><li>- summary and discussion of remaining technical issues</li><li>- summary and discussion of networking issues</li><li>- how to advance from GEO to CoP?</li></ul>
12:30 – 14:00 h	<i>Adjourn</i>

We thank our sponsors:

