

# Minutes of 3<sup>rd</sup> Telecon of ET-WDC, 20 September 2012

## Participants

Jörg Klausen (**jkl**, chair), Tom Kralidis (for Tony Colavecchia, **tc**, WOUDC), Hiroshi Koide (**hk**, WDCGG), Markus Fiebig (**mf**, WDCA), Anatoly Tsvetkov (**at**, WRDC), Van Bowersox (**vb**, WDCPC)

## Excused

Séverine Bernonville (**sb**, WDC-RSAT), Vincent-Henri Peuch (ECMWF, chair ET-NRT-CDT). Oleg Goussev (replacement for **sb**) and Martin Schultz (FZ Jülich) tried to join but failed for technical reasons.

## Agenda

**1. Denote rapporteur** - Van Bowersox agreed to serve as the rapporteur.

**2. Adopt agenda** - The agenda was adopted without modification.

### **3. Information on GEO AQ CoP meeting in Dublin, 5-7 September 2012**

- Jörg summarized the conclusions of the GEO AQ CoP meeting in Dublin earlier this month. The meeting commended the efforts of ET-WDC to develop a GAW profile of ISO9115 (see [http://gaw.empa.ch/et-wdc/docs/2012/doc\\_5.1\\_Template\\_Metadata\\_ET-WDC\\_2012.xltx](http://gaw.empa.ch/et-wdc/docs/2012/doc_5.1_Template_Metadata_ET-WDC_2012.xltx)), which was referred to as a role model throughout the meeting. In conclusion, this profile will be adopted by GAW with some extensions to reflect the roles of various contacts. Jörg will update and post the profile asap (→ A2012.8). EEA (represented by Sheila Cryan) volunteered to serve as a broker for a vocabulary on methods. GAWSIS has made their present vocabulary available for comparison and will inform ET-WDC on the outcome of this activity.  
Presentations, including a summary and conclusions are available at: [http://wiki.esipfed.org/index.php/Metadata\\_Workshop\\_Dublin\\_Presentations](http://wiki.esipfed.org/index.php/Metadata_Workshop_Dublin_Presentations)
- Hiroshi reported that WDCGG is reformatting metadata and will make use of the EBAS database scheme. Also, the CyAir document ([http://cyair.net/sites/default/files/CyAir\\_Best\\_Practices\\_April\\_30\\_2012.pdf](http://cyair.net/sites/default/files/CyAir_Best_Practices_April_30_2012.pdf)) was found to be helpful.
- Markus reported that WDCA is applying the GAW profile within the context of the ISO 19115 metadata standards. The distinction made in Dublin between 'discovery' and 'description' metadata was not found to be overly helpful. As many metadata items as possible should be encoded, and it should be left to the client to use as many as desired for the purpose (hk and jkl agree).
- Tom reported that Environment Canada is most interested in data discovery and description and that WOUDC will map as much as practical to the ISO 19115 standard.

### **4. Status of action items agreed at our Geneva meeting**

- *A2012.2 Review of WOUDC web site*

Hiroshi has made substantial progress in reviewing the WOUDC Web site and expects to complete his evaluation within one week. (Note: The review has been completed and the result shared among members of ET-WDC – 21 Sep 2012.) → action item completed

- *A2012.3 Traceability*

As a general comment, Jörg reiterated the importance of traceability of observations and the traceability of the data management processes at the WDCs in order to defend the substantial data archives in the WDCs.

Tom reported that the SAG supports efforts to improve the traceability of ozone and UV measurements, even an effort to archive more level 0 data. Presently, there is no requirement that data providers supply level 0 data.

Hiroshi acknowledged that the SAG recognizes the importance of traceability, though at this time improving traceability has not been given a higher priority.

Markus referred to the 3 data levels that are offered by the WDCA. Instrumental uncertainty (accuracy and precision) can be estimated, though the SAG needs to update guidelines on reporting uncertainty and there are ongoing discussions on how to use station audit reports.

Van indicated that in discussions with the SAG Chair, there is little interest in obtaining raw instrumental (level 0) readings, such as chromatograms, etc. Data providers (i.e., precipitation chemistry laboratories) should be encouraged to maintain level 0 records until data are fully validated, however. WDCPC documents lab performance through the QA-SAC semi-annual lab intercomparison studies.

→ Action item remains open, dead-line next SAG meeting.

- *A2012.4 Status of DCPC applications and metadata mapping to GAW profile*

Markus reported that WDCA has completed the WIS application form and needs to set up the service now.

Jörg reported that there has been no progress at GAWSIS on the DCPC application.

Tom reported that the WOUDC is in the final stages of the application process. WOUDC will produce just one record for all of WOUDC and will work with GAWSIS on metadata on the dataset level.

Anatoly reported progress on metadata mapping to the GAW profile, which is expected to be completed by the end of November.

Van reported no progress and that mapping will be done in collaboration with GAWSIS. (→ A2012.9)

Séverine reported after the telecon on the connection of WDC-RSAT to WIS as follows:

1. Successful ongoing tests with GISC DWD for metadata exchange (GOME2 WDC-RSAT data available via DWD GISC test system – not yet in operation)
2. Production of collection metadata (series – ISO 19115 with WMO Profile)
3. Metadata exchange via OAI-PMH

➔ Action item remains open, dead-line December 2012.

- *A2012.5 Mapping variables to CF naming conventions*

Van briefly described the current CF variables that address wet deposition as focused on column-integrated pollutant concentrations and tendencies (i.e., trends) in these variables. None address solution (precipitation or cloud-water) concentrations. Van will develop a CF profile for one wet deposition variable as an example for SAG consideration. (→ A2012.10)

Tom reported that the WOUDC has made comparison of internal terms to CF standard names and sent this matrix to Jörg. Jörg will revisit this list and interact with WOUDC. (→ A2012.11)

Hiroshi reported that the WDCGG and SAG GHG is considering a working group to assess the CF variable list. He agreed to develop a definition template for GHG variables to help this process. (→ A2012.12)

- *A2012.6 Data acceptance tests*

Van reported no progress on this task, which is targeted for completion in October. Efforts have focused on populating the WDCPC database and Web page with station data from existing networks (e.g. EMEP). The programs for accepting and archiving data from stations unaffiliated with networks have not been completed, so data acceptance criteria have not been finalized. This will require SAG review and approval and the SAG tentative plans are for a meeting in April 2013.

➔ Action item remains open, dead-line April 2013.

## **5. GAW data policy**

The item relates to the request that Tony received for use of real-time (but also archived) data from WDCs for commercial purposes.

Current policy does not allow GAW data to be used for commercial purposes. Discussions focused on the need for this policy to be reviewed at the appropriate level of governance within GAW. Any changes in this policy must promote and benefit GAW objectives while protecting the interests of data providers, especially principal investigators. (→ A2012.13)

## **6. Outsourcing operations of WDCs to private companies**

The item relates to an idea that was to be discussed at the SAG Ozone meeting in Toronto of outsourcing WOUDC (or other WDCs) to a private enterprise (e.g., <http://www.digitalrealty.com/about-digital-realty-trust.aspx>)

No feedback from SAG was available.

The consensus among the participants of the telecon was that the interaction of the WDCs with their respective science communities must be maintained, but that it is up to the organization hosting the data center to decide how and where it is actually operated.

## **7. Any other business**

Anatoly requests assistance from Environment Canada concerning the submission of radiation data from Canadian sites that appear to have been suspended. (→ A2012.14)

Van mentions difficulties in getting in contact with Austrian labs with regards to precip chemistry data. Jörg offered to help identify lab or labs which support GAW stations in Austria. (→ A 2012.15)

No other business was discussed.

## **8. Review of decisions, updated list of action items, due dates and responsibilities**

A2012.8 Update and post GAW ISO19115 profile (→ jkl, November 2012)

A2012.9 Map WDCPC metadata items to GAW metadata profile in collaboration with GAW SIS (→ vb/jkl, November 2012)

A2012.10 Develop a CF profile for one wet deposition variable as an example for SAG consideration (→ vb, October 2012).

A2012.11 Provide comments to WOUDC list of terms for CF (→ jkl, October 2012)

A2012.12 Develop a CF profile for a typical gas variable as an example for SAG consideration (→ hk, October 2012)

A2012.13 Encourage review of GAW data policy (commercial use, open data license) at the appropriate level of governance (→ jkl, February 2013)

A2012.14 Clarify the apparent suspension of data submissions of Canadian sites to WRDC and collaborate with WRDC to find a solution (→ tc, October 2012)

A2012.15 Identify Austrian lab(s) responsible for precip chemistry observations. Van to clarify the issue, jkl to help. (→ vb/jkl, October 2012)

It was further agreed to maintain the list of action items on the ET-WDC web site, hence

A2012.16 Put list of action items on ET-WDC web site (→ jkl, October 2012)

## **9. Next teleconference**

suggested time frame: 14-17 January 2013, jkl to set up doodle.

Van Bowersox, 21 Sep 2012