

# Second workshop on the use of GIS/OGC standards in meteorology

## Toulouse 23-25 November 2009

### Monday 23 November

#### Registration & Welcome

8:30 AM – 09:30 AM

09:30        **OPENING**  
              **(Matteo Dell'Acqua, Head, Development Department - Meteo-France)**

#### SESSION 1: Interoperability and standards

09:45        **David Arctur (OGC)**  
              *Toward interoperable information use across the geosciences*

10:05        **Jeremy Tandy (Met Office)**  
              *Meteorological data exchange standards on a global stage: how WMO must adapt to changing requirements*

10:25        **Nicolas Lesage (IGN)**  
              *GI Standardisation Overview*

10:45        **Wim Som de Cerff (KNMI)**  
              *EUMETNET / INSPIMET*

11:05        **COFFEE BREAK**

11:30        **Marie-Françoise Voidrot (Météo-France)**  
              *OGC Met Ocean Domain Working Group progress report*

11:50        **Pierre Kerhervé (WMO)**  
              *Modelling of WMO data products based on BUFR/CREX tables*

12:10        **Frédérique Blanc (CLS)**  
              *Aviso and Mercator serving MyOcean, or how a European marine user accesses ocean products derived from satellite altimetry and numerical simulations (past and present missions, and forecast)*

12:30        **Olivier Lauret (CLS)**  
              *Meteorology and Oceanography, interoperability: are there anything to do with OWL?*

- 12:50 LUNCH
- 14:15 **Ethan Davis (UCAR)**  
*CF-NetCDF and CDM*
- 14:35 **Andrew Woolf (STFC)**  
*Towards a meteorological domain model: next steps*
- 14:55 **Ilkka Rinne (FMI)**  
*Sense and Extensibility - Towards Weather Objects Modeling Language (WOML)*
- 15:15 **Debbie Wilson (SNOWFLAKES)**  
*Re-useable, compact discrete coverage model for encoding forecast and observation data within WFS*
- 15:35 **Dominic Lowe (BADG)**  
*Delivering Multiple OGC Service Types from a Single Climate Science Domain Model*
- 15:55 COFFEE BREAK

## SESSION 2 : Applications

- 16:20 **David Burrige (ITT VIS)**  
*Optimized OGC Solutions with ITT VIS Technologies: Delivering Interoperable Streaming and OGC Web Services*
- 16:40 **Pierre Lagarde (BRGM)**  
*Use of OGC Sensor Web Enablement (SWE) for the acquisition, storage and dissemination of groundwater data*
- 17:00 **Thomas Everding (University of Münster ) and Marc Rautenhaus (DLR, Institut of Atmospheric Physics)**  
*Application of OGC Sensor Web Enablement Standards for the planning of atmospheric research flights*
- 17:20 **Aaron Braeckel (NCAR)**  
*4-D Wx Data Cube and the NNEW Program*
- 17:40 **Dennis Hart (EUROCONTROL)**  
*MET Support to ATM*
- 18:30 RECEPTION

## Tuesday 24 November

### SESSION 2 : Applications

- 09:00      **Marko Reiprecht (CONTERRA)**  
*The EUMETSAT EO Portal User Management Concept*
- 09:20      **Herve Caumont (OGC / ERDAS)**  
*GEOSS Architecture Implementation Pilot, Phase 2*
- 09:40      **Julien Jeudy (MAGELIUM)**  
*ENVOL Study Program - "Meteorological web service implementation feedback"*
- 10:00      **Laurent Drapeau (IRD)**  
*Irrigation decision support based on a link between pyWPS and IDL/ENVI, accessing multi-temporal WCS*
- 10:20      **Jon Blower (University of Reading)**  
*Online intercomparison of models and observations using OGC and community standards*
- 10:40      COFFEE BREAK
- 11:10      **Ted Habermann (NOAA)**  
*OGC Standards in NOAA*
- 11:30      **Baudouin Raoult (ECMWF)**  
*ECMWF Web Re-Engineering Project*
- 11:50      **Rasmus Ewehag (SMHI)**  
*Building a web map services infrastructure at SMHI*
- 12:10      **Maarten Plieger (KNMI)**  
*Real time delivery of radar precipitation data using OGC Web Services*
- 12:30      **Trond Michelsen (Met.No)**  
*Using Apache to work around Mapserver limitations*
- 12:50      LUNCH
- 14:15      **Jacques Roumilhac (Météo-France)**  
*Towards an OGC service infrastructure for meteorological workstation*
- 14:35      **Ted Habermann (NOAA)**  
*Series, Aggregation, Coverages: ISO 19115 in the Real-World*

- 14:55      **Chris Little (Met Office)**  
*Status of the VGISC procurement*
- 15:15      **Eiji Toyoda (JMA)**  
*Implementation of WMO Information System in JMA*
- 15:35      **Bruce Wright (Met Office)**  
*'Invent'; a freely available weather-viewer using Google Maps*
- 15:50      **Frederic Guillaud (Météo-France)**  
*Towards a WMS profile for Met-Ocean products*
- 16:05      COFFEE BREAK

## WORKING GROUPS

- 16:30      Roadmap  
             Conceptual Modelling  
             Services
- 18:00      END OF DAY

## Wednesday 25 November

### WORKING GROUPS

09:00      Roadmap  
              Conceptual Modelling  
              Services

10:45      COFFEE BREAK

### SESSION 3 Tools : Offering from Open Source communities or vendors

11:10      **Sylvie Thepaut (ECMWF)**  
              *Tools to support OGC standards Magics++ and Metview*

11:30      **Adrian Custer (GEOMATYS)**  
              *Opportunities and challenges in the exchange of environmental data using OGC web standards*

11:50      **Olivier Courtin (OSLANDIA)**  
              *Open Source OGC Web Services implementations*

12:10      **Joe Vernon (EDINA)**  
              *Open Source Software and OGC Interoperability Standards at EDINA*

12:30      **Jozef Matula (IBL)**  
              (to be confirmed)

12:50      LUNCH

### PLENARY DISCUSSION

14:30      Summary Conceptual Modelling

14:50      Summary Services

15:10      Summary Roadmap

15:30      Discussion, Recommendations

16:00      CLOSURE