

Programme

Monday 4 March 2013

Session 1: Opening and keynotes (lecture theatre)

- 10:30 **Coffee and registration**
- 11:00 **Erik Andersson** (Head of Meteorological Section, ECMWF)
Opening
- 11:10 **Stephan Siemen** (ECMWF)
Workshop arrangements
- 11:15 **Steve Foreman** (WMO)
Metadata and data models in the WMO Information System
- 11:40 **Denise McKenzie** (OGC)
How Open Standards can help the Met community
- 12:00 **Frederic Guillaud** (Meteo France)
Met Ocean Themes in INSPIRE
- 12:20 **Chris Little** (UK Met Office)
OGC MetOcean DWG progress report

12:45 *Lunch*

Session 2: Use of OGC standards (lecture theatre)

- 14:00 **Tom Kralidis** (Meteorological Service of Canada)
OGC Standards Implementations at MSC/EC
- 14:15 **Chris MacDermaid** (Colorado State University Cooperative Institute for Research in
the Atmosphere CIRA)
NSF EarthCube Layered Architecture
- 14:30 **Uwe Voges** (Con Terra GmbH)
Developing Apps for tempo-spatial meteorological satellite data - using OGC Services
- 14:45 **Ernst de Vreede** (KNMI)
OGC at KNMI: current use and plans

15:00 *Coffee break*

Session 3: OGC standards (lecture theatre)

- 15:30 **Marie-Francoise Voidrot** (Meteo France)
Best Practices for using OGC WMS with Time-Dependent or Elevation-Dependent Data
- 15:45 **Jürgen Seib** (Deutscher Wetterdienst DWD)
*An Implementation of the MetOcean DWG Best Practices Proposal for WMS with
GeoServer*
- 16:00 **Stian Anfinssen** (Christian Michelsen Research AS)
Experiences using time extent in WMS services

4th Workshop on the use of GIS/OGC standards in meteorology, 4 – 6 March 2013

- 16:15 **Ilkka Rinne** (Spatineo Inc.)
Improving the Quality of Spatial Web Services with Spatineo Monitor
- 16:30 **Daniel Sacher** (MeteoSolutions GmbH)
Highly customizable process-oriented software tool for trusted operational use (e.g. in ATC) to convert meteorological grid data between various OGC formats (e.g. NetCDF) with the ability to simultaneously use GIS functionality (e.g. projection)
- 16:45 **Daniel Nüst** (52°North Initiative for Geospatial Open Source Software GmbH)
Web Processing Standards and Application Patterns
- 17:30 **Cocktails**

Tuesday 5 March 2013

Session 4: Application of standards (lecture theatre)

- 09:15 **Peter Baumann** (Jacobs University Bremen)
Serving Big Data through OGC WCS
- 09:35 **Peter Trevelyan** (UK Met Office)
Discussion paper for a WCS2.0 Met Ocean profile
- 09:50 **Baudouin Raoult** (ECMWF)
ECMWF point database: providing direct access to any model output grid-point values
- 10:05 **Roope Tervo** (FMI)
Implementing an INSPIRE compliant WFS service
- 10:20 **Chris Little** (UK Met Office)
Meteorological symbols in SVG vector format
- 10:30 **Coffee break**

Session 5: Working groups

- 11:00 **Overview and aim of working groups**
- 11:45 **Split-up into working groups**
Lecture theatre, council chamber, large committee room
Provisional groups:
1. Roadmap for MetOcean DWG
 2. Implementation of INSPIRE - Experiences, plans and best practices
 3. Implementation of OGC standards - feedback and issues
- 12:45 **Lunch**

Session 6: Use of OGC standards (lecture theatre)

- 14:00 **Jeremy Tandy** (Met Office)
Development of a GML Application Schema for data exchange supporting Meteorological Services for International Air Navigation

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14:15 **Aaron Braeckel** (National Center for Atmospheric Research)
ICAO IWXXM - Official XML Representations of METAR, SPECI, TAF, and SIGMET

14:30 **Enrico Fucile** (ECMWF)
Conversion of METAR to XML using ecCodes and PyXB

14:45 **Maurizio Nagni** (Centre for Environmental Data Archive, CEDA)
Implementation of UML Schema in Relational Databases: A case of Geographic Information

15:00 *Coffee break*

Session 7: Working groups

15:30 **Split-up into working groups**
Lecture theatre, council chamber, large committee room

17:00 *Close*

Wednesday 6 March 2013

Session 8: Evolution of standards (lecture theatre)

09:30 **Alexandre Robin** (SENSIA SOFTWARE LLC / METEO FRANCE)
Use of OGC Sensor Web Enablement (SWE) Standards in the Meteorology domain

09:45 **Anișoara Irimescu** (National Meteorological Administration, Romania)
EO and GIS techniques used in the extreme meteorological phenomena monitoring in Romania

10:00 **Arne Bröring** (52°North GmbH)
OGC Sensor Observation Service and its Application in Practice

10:15 **Marc Müller** (ask - Innovative Visualisierungslösungen GmbH)
Bridging the gap: Interactive visualisation and fluent animation of multi-source and time-variant meteorological data in an operational web application based on OGC services and geospatial databases

10:30 *Coffee break*

Session 9: Working groups - Outcome (lecture theatre)

11:00 **Presentations and discussion of outcomes**

13:00 *Lunch*

Session 10: Outcome and roadmap ahead

14:15 **Discussion to finalise outcome and establish roadmap**

16:15 *Close*