

MetOcean Domain Working Group

ADAGUC Workshop 2015

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OGC – Open Geospatial Consortium

- Develops open standards for all sorts of geophysical services and data
- “Making location count”
- Website: www.opengeospatial.org
- Members: GIS industry, government agencies/ministries, Google
- Standards: WMS, WCS, KML (adopted), NetCDF (adopted), GML, SOS, etc.
- Standards compliance tests, interoperability tests
- Working groups (SWG, DWG)

MetOcean Community

- Meteorological (climatological) and oceanographic community
- Formed MetOcean Domain Working group
- To:
 - Look after specific interests
 - Develop special profiles
 - Influence other standards
- Active parties: UK MetOffice, MeteoFrance, DWD, ECMWF, NOAA, USAF, UoR, (KNMI)

MetOcean DWG

- Public wiki site under OGC umbrella:
http://external.opengeospatial.org/twiki_public/MetOceanDWG/WebHome
- Activities:
 - WMS Best Practice for using Web Map Services (WMS) with Time-Dependent or Elevation-Dependent data (published)
 - WCS Application Profile (under development)
 - WMS 1.3 Best Practice for Ensemble Data (under development)
 - “Plugfests” at meetings like EGOWS

WMS 1.3 Best Practice

- MetOcean data multi-dimensional:
 - Lat, lon, height (pressure level, height, model level), time, model analysis time
[, ensemble member]
- Elevation dimension more formalized
- DIM_REFERENCE_TIME for model analysis time
 - This means some combinations of time/reference time do not exist
- Useful defaults for non-compliant clients

WCS 2.0 Application Profile

- Handling of multi-dimensional data
- Making all kinds of data slices and cross-sections (vertical profiles, 3D flight corridors etc).
- Seems very much aimed at aviation meteorology
- Mainly driven by UK MetOffice
- Pending approval

WMS 1.3 Best Practice for Ensemble data

- Handling of ensembles in WMS
- Is ensemble member another dimension?
- Currently collecting use cases
- What do use cases mean for WMS and the way it handles data
- Processing for example for ensemble statistics??
- Still on it's way.

ADAGUC, OGC and MetOcean

- ADAGUC server is WMS 1.1.1 and 1.3.0 compliant.
- ADAGUC server is compliant with WMS BP for Time and Elevation
- We will try to follow other MetOcean specs as good as possible.
- ADAGUC WCS is still 1.0; upcoming profile is for 2.0.