



**Open Geospatial Consortium  
Meteorology & Oceanography  
Domain Working Group  
Break-out Group: Future Work**

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# Met Ocean DWG: Some Interesting Domain WGs

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## Active dialogues

- Aviation
- Catalogues
- Co-ordinate Reference Systems
- Coverages
- Defence & Intelligence
- Emergency & Disaster Management
- Hydrology
- Metadata (Discovery, not Interpretation)

## Should be Active (O&M for WIGOS)

- Sensor Web Enablement
- Internet of Things / Sensor Things API

# Met Ocean DWG existing work priorities



## Existing work in progress:

1. Met Ocean aspects of WCS2.0 extension proposals
  - Extend to GRIB2 but probably wait until GRIB3/NetCDF4/5/6
2. Develop WCS Data Tile standard ('data cubelets')
3. Extend WMS1.3 BP T&Z:
  - a) Ensembles
  - b) UoM clarification
  - c) Minimal implementation guidelines
  - d) Temporal BP consistency
  - e) Climatology/Statistical periods
  - f) Towards a Profile, with conformance tests
  - g) To other standards (e.g. WMTS)
4. TimeSeriesML SWG
5. Temporal CRSs, Best Practice, need climatological qualifiers
6. Vertical CRSs: collect examples on wiki now
7. SLD/SE: Refine weather symbols in SVG & styles on Github

# Met Ocean DWG future work priorities - 1

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- Wiki needs significant updating, link to Github,
  - leverage OGC plugfest support
- Make WMO ISO23950/19115 catalogues work with CSW3
  - Geo&Time extension
  - WMO Experts to do
- Address some Big Data/Linked Data issues by:
  - Exploring WPS as asynchronous framework
  - With query languages
  - Geo-JSON, JSON-LD
  - WMO Registries
  - Move data / move app / some other
- Support both heavyweight SWE and lightweight RESTful IoT/SensorThings
  - E.g. Ocean profile from EU project NeXOS

# Met Ocean DWG future work priorities - 2

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- **Mobile**
  - GeoPackage – suggest WMS1.3BP T&Z?
  - OASIS CAP Met profile? WMO Issue? EDM DWG issue?
- **Augmented Reality: addressed through 4D activities**
- **Prefer loosely coupled services, both APIs and Encodings**
  - and therefore need underlying conceptual models
- **No need yet to change underlying:**
  - Abstract Reference Model
  - GML Geospatial Mark-up language
  - OWS Common

# Met Ocean DWG Future Work Priorities

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- Questions and Answers?
- Where are the volunteers?
- Use the mailing list again, update wiki too