

WMO activities of relevance to AOPC

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Climate data management

New group co-chaired with Charlotte McBride aiming to advance aspects of exchange of historical data and metadata through creation of a common data model

Will not replace existing climate data models that may be maintained by Members of third parties

Rather it would provide an exchange format and adapters would be provided to convert it to the most commonly used formats

Aims to help advance the historical data sharing aspects of the new unified data policy and also build capacity within members

Focus will be on exchanging all types of in-situ observations

Delayed mode exchange only

Use the WIGOS metadata standard for metadata exchange elements

Likely to use a table based approach (but TBD)

Aim was to have a submission by INFCOM but that looks somewhat unrealistic at this stage

EOSDE activity

Production of guidance to Members on how to evolve their observing systems

'Short' document of high level guidance

To be adopted at INFCOM

Secretariat and myself participated in process

Refers Members to GCOS IP for high level climate guidance

Tiered networks

WMO regulatory materials refer to tiered network design, but nowhere are the tiers defined or any guidance given

A task team of SC-ON has worked up a proposal that relies heavily upon the work of GCOS / GAIA-CLIM

Endorsed (after some contention) by SC-ON and SC-MINT

First step only – laying out a proposed framework for further work

Will be put to INFCOM

Suggest 4 tiers:

- Reference
- Baseline
- Additional
- Ancillary / Unclassified

Would work up objective criteria by which to assign a given network to a tier

Initially at level of network, but doesn't preclude station or instrument based approaches later

Initially in-situ only but recognition that increasingly applicable to space-sector

If approved by INFCOM then depending upon how they prioritise the activity a new team would be constituted to:

- Refine the concept based upon feedback
- Propose means of assessment of networks
- Propose amendments to regulatory materials

Timing will depend upon priorities – cannot divert unduly attention from GBON, SOFF, Unified Data Policy etc.

Station sets

SC-ON task team to address the question of how to treat distributed / multi-functional sites in OSCAR Surface and WIGOS metadata

Suggestion is to ensure that linked assets are visible as a single collection

Recognition that there are a broad range of cases that need to be catered for

Complication that registration is a Member competency not a WMO competency

- Document with a proposal is currently under review by SC-ON.
 - Provides a number of examples and rationale for changes
 - Cluster at a location meeting different stakeholder needs (Lindenberg)
 - Cluster of distributed sites to characterize a variable (cryonet)
 - Distant cluster of capabilities to measure a set of phenomena using separate techniques (Zugspitze / Hohenpeissenberg for ozone)
 - Would lead to amendments to regulatory materials if endorsed by INFCOM.