

Review of the Implementation Plan

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Current slated 2011 activities

- Roll out measurement guidance to meet GRUAN requirements to all GRUAN site instrumentation based upon prevalence of instrument types.
 - We have only just got RS-92 measure
 - Unlikely to get GRUAN measures for GNSS-IWV and all remote sounders
 - What is realistic expectation before ICM-4 and how do we take a longer term view?

- Prepare a position paper on expansion to full column characterisation to meet all stated GRUAN measurement requirements.
 - Still arguably important to give a concept of what a site capable of measuring all requirements in GCOS-121 might look like?
 - If so, perhaps this is something for WG-ARO?

- Define a set of accepted objective criteria to assess both instrument specific measures and site performance against vis-à-vis stated requirements.
 - Proposed being undertaken now with a site focus by WG-ARO
 - Drop the instrument focus – GRUAN is a measurement focussed network?

- Assessment of the value and utility of satellite coincident in-situ and remote sensing measurements vis-à-vis standard times for satellite cal/val. Submitted for publication.
- Final set of temporal sampling guidance for in-situ and remote sensing instrumentation based upon a quantitative assessment prior to network expansion, including superseding of GCOS-121 documentation for in-situ measurements.
 - Both these are clearly unrealistic. But the issue is important. How can we support scheduling task team and what are realistic replacements for these both up to ICM-4 and beyond?

- Formulate generic guidance on the collocation issue based upon quantitative evidence wherever available and for all variables.
 - GATNDOR progress already in this area
 - Planned further work
 - Looking for steer from GATNDOR whether this planned work within year likely to meet this aim?

- Develop an instrument replacement protocol with a solid quantitative basis.
 - Currently in GATNDOR work plan
 - Radiosondes only at this point?
 - Likely to finish in year?
 - Other approaches needed / expansion to other instrument types?

- Design and instigate a framework to investigate, report and resolve data quality and instrument issues in real- time.
- Finalize the GRUAN Manual of Operations.
- Implement a final version of the data dissemination structure.
 - I think all these three are in hand and can be put as action items on appropriate parties?

- Workshop with manufacturers under the joint auspices of GCOS and HMEI.
 - Not currently instigated
 - Who? Where? When
- Assessment of utility against cost and logistical overhead of regular site specific intercomparisons / travelling standards to intercompare sites.
 - Not discussed to date. Postpone / drop? If latter what is the rationale?

- Brief scientific community on GRUAN.
 - WCRP open science conference
 - IUGG
 - AMS / AGU / EGU?
 - Powerpoint presentation usage?
 - Critical review and revision?
 - More prominent display
 - Expanded expectation on WG-ARO members and whole community

The questions I dare not ask ...

- Is IP still useful?
- Does it need a refresh?