



Outcomes of the WIGOS/GRUAN meeting November 2015

Greg Bodeker

**8th GRUAN Implementation and Coordination meeting,
Boulder, 29 April 2016**

History

- The purpose of the meeting was to first have a one day 'GRUAN science' day where various people at WMO could be informed on progress that had been made in GRUAN. The second day was to discuss the more operational aspects of GRUAN both with the GCOS Secretariat and with WMO (i.e. WIGOS, CIMO, CBS).
- Meeting was 17 and 18 November 2015 at WMO.

Participants

- Peter Thorne
- Gregory Bodeker
- Ruud Dirksen
- Albert Klein Tank - Vice-chair, AOPC
- Carolin Richter - Director, GCOS Secretariat
- Tim Oakley - GCOS Network Manager
- Simon Eggleston- GCOS Scientific Officer, Terrestrial Observation Panel for Climate
- Geir Braathen - Senior Scientific Officer, Atmospheric Environment Research Division
- Luis Nunes - WIGOS Scientific Officer

Actions (1 of 5)

- **Action 1:** GRUAN Science Meeting should be held on a regular basis (at least biennially), possibly based on a WMO Technical Commission meeting. (D/GCOS with AOPC chairs).
- **Action 2:** GRUAN to submit an abstract to the GCOS Science Conference (Deadline 15 Dec).
- **Action 3:** GRUAN to be presented at the WMO Technical Commissions: try to organize a side event at the upcoming CIMO TECO in Madrid, 26-30 September 2016. (Tim to liaise with Roger / Isabelle).
- **Action 4:** GRUAN will prepare a paper on "Tiered System of Systems approach" to be submitted to WIGOS, as a GCOS contribution to WIGOS. (Peter - lead. Time: draft will be available by end of 2015).

Actions (2 of 5)

- **Action 5:** Concept of Tiered System of Systems approach to be discussed at ICG-WIGOS, using paper, see above. (submitted by GCOS to ICG-WIGOS, D/GCOS – lead, Luis to ensure that the paper is on the agenda of ICG-WIGOS).
- **Action 6:** EU H2020 project Gaia-Clim is generating meta data (WIGOS standard) for tiered networks by Sept 2016. The project output should be considered as a contribution to WIGOS. (Tim to work with WIGOS (Luis) to incorporate the meta data into OSCAR, GCOS Document to ICG-WIGOS would report on this).
- **Action 7:** GCOS to facilitate WMO programme attendance at GRUAN ICM-8. Carolin will be present for one day, but WMO representation will be required on a sustained base. (Carolin to discuss with D/OBS).

Actions (3 of 5)

- **Action 8:** D/GCOS to discuss with WMO/OSD on CBS recognition of GRUAN as a network.
- **Action 9:** Encourage the Lead Centre as part of the redesign of the GRUAN website at DWD to include all relevant documentation for public access. (GCOS and Lead Centre).
- **Action 10:** GRUAN has developed a number of measurement and processing procedures which need to be recognized by CIMO and CBS and included into the relevant manuals. (GRUAN to inform D/GCOS, GCOS to forward this information to the CIMO editorial board; GRUAN to nominate to an expert to be included on the list of addressees if CIMO is updating the chapter of radiosondes).

Actions (4 of 5)

- **Action 11:** GRUAN and GAW working together (Geir to work with Greg on potential candidate sites, starting at the working level). Geir will investigate the possibility of GRUAN representation on GAW-Ozone SAG.
- **Action 12:** Paper on collaboration of different networks, GRUAN, SHADOZ, NDACC, TCCON, and GAW, to be led by Peter and Greg, to stimulate discussions among the networks (submission deadline Dec 2016). Proposed that this would be a future contribution to WIGOS.
- **Action 13:** Draft 2-page document on change management on the replacement of RS92. Should include options of increasing complexity. GRUAN will draft a straw man proposal. Tim will consider this from a GUAN perspective and circulate it to a wider community. AOPC will be asked to endorse the proposal in April 2016.

Actions (5 of 5)

- **Action 14:** Greg to draft a paper on the possibility of stations providing extra flights when a satellites overpasses. Carolin to submit to CEOS WG Cal/Val.
- **Action 15:** Tim to propose a list of stations to be removed from GUAN and to discuss the process at AOPC.