

Fourth GRUAN Implementation and Coordination Meeting

Location: JMA Headquarters, Tokyo, Japan

Dates: 5-9 March 2012

Organising committee: Greg Bodeker, Peter Thorne, Holger Vömel, Hironobu Yokota, Yoshinori Shoji, Nobuhiko Kizu, Howard Diamond (with Chris Miller and Bill Murray)

The theme for ICM-4

The focus of this meeting will be to define what needs to be done between ICM-4 and January 2014 which is when GRUAN is expected to become fully operational. With less than 2 years to go within the 5 year implementation phase, it is imperative that we ensure that the milestones outlined in the GRUAN implementation plan (GCOS-134) are being met, and that the implementation plan is refined so that we remain on track for operational status in January 2014. The theme for the meeting will therefore be to clarify the expected status of GRUAN in January 2014, the current status of GRUAN, and what now needs to be done to evolve GRUAN from its current status to its expected future status.

Posters

We encourage people to bring posters to ICM-4, including the posters that were presented at WCRP, and to display these during the period of the meeting.

In the agenda draft below, people's names shown in green are confirmed to be attending. Note that rapporteurs are tentative suggestions to be confirmed.

Monday 5th March

08:30 - 12:00	Closed meeting of WG-ARO membership [Coffee break 10:00 - 10:30]
12:00 - 13:30	Lunch
13:30 - 14:00	Participant registration

Session 1: Update on specific progress since ICM-3

Chair: Greg Bodeker; Rapporteur: Fabio Madonna and June Wang

14:00 - 14:10	Local organizers to outline logistics, emergency procedures etc.
14:10 - 14:30	Welcome from the organizers, Akihide Segami, Director-General of the Observations Department of JMA and GRUAN co-chairs.
14:30 - 14:45	Opening remarks from Adrian Simmons chair of AOPC and chair of GCOS steering committee - Adrian Simmons

14:45 - 15:10	GRUAN governance and outcomes of CBS expert team review - Greg Bodeker / Adrian Simmons
15:10 - 15:30	What does it mean for the GRUAN network to become 'operational'? - Holger Vömel
15:30 - 16:00	Coffee
16:00 - 16:45	Lead Centre progress report (inc. status of reference humidity profile measurements) – Holger Vömel
16:45 - 17:30	Update from WG-ARO and check on progress against agreed tasks to be completed by ICM-4 as agreed at ICM-3 – Peter Thorne
17:30 - 18:00	Discussion

18:30 - 20:30 Workshop Dinner (reception) hosted by JMA at the 11th floor of the KKR Hotel Tokyo “Kujaku-no-ma”

Tuesday 6th March

Session 2: Task Team Updates

Chair: [Holger Vömel](#); Rapporteur: Howard Diamond

08:30 - 09:00	Radiosondes - Masatomo Fujiwara
09:00 - 09:30	GPS-PW – June Wang / Kalev Rannat
09:30 - 10:00	Sites task team overview – Belay Demoz / Dale Hurst
10:00 - 10:30	Coffee
10:30 - 11:00	Ancillary measures – Thierry Leblanc / Tony Reale
11:00 - 11:45	Scheduling – Tom Gardiner / Dave Whiteman
11:45 - 12:15	GATNDOR status - Fabio Madonna

12:15 - 12:30	General discussion about how task teams are operating, outlook for the future, any new task teams required?
12:30 - 14:00	Lunch

Session 3: Reporting

Chair: Holger Vömel; Rapporteur: Karin Kreher and Thierry Leblanc

14:00 - 15:30	Discussion of changes to GRUAN manual following CBS expert team review - Greg Bodeker
15:30 - 16:00	Coffee
16:00 - 16:30	Status of data flow – Michael Sommer
16:30 - 16:45	Recap of implementation plan ICM-4 to ICM-5 actions - Greg Bodeker

Session 4: Reporting on contacts with the external community

Chair: Holger Vömel; Rapporteur: Karin Kreher and Thierry Leblanc

16:45 - 17:15	Outcomes of WCRP open science conference, NDACC steering committee meeting and GRUAN representation at forthcoming meetings - Peter Throne and Holger Vömel
17:15 - 17:45	GRUAN connection to Meteomet community and the development of a roadmap for future collaboration - Andrea Merlone
17:45 - 18:00	Network expansion workshop - Greg Bodeker

Possible voluntary evening break out session to discuss GRUAN manual if required

Wednesday 7th March

Session 5: Site updates

Chair: Peter Thorne; Rapporteur: Belay Demoz and Dale Hurst

08:30 - 08:45	ARM Sites - Doug Sisterson by webex (reserve: P. Thorne / H. Diamond)
08:45 - 09:00	Lindenberg - Ruud Dirksen
09:00 - 09:15	Sodankylä – Rigel Kivi
09:15 - 09:30	Tateno – Hironobu Yokota

09:30 - 09:45	Payerne – Rolf Philipona
09:45 - 10:00	Cabauw – Arnoud Apituley
10:00 - 10:30	Coffee
10:30 - 10:45	Xilinhot - Li Wei
10:45 - 11:00	Lauder – Karin Kreher
11:00 - 11:15	Boulder – Dale Hurst
11:15 - 11:30	Potenza – Fabio Madonna
11:30 - 11:45	Beltsville – Belay Demoz
11:45 - 12:30	Issues arising from site reports discussion – Peter Thorne lead
12:30 - 14:00	Lunch
14:00 - 14:20	Spitzbergen - Marion Maturili
14:20 - 14:40	Sirta and La Reunion - Martial Haeffelin
14:40 - 15:00	Bringing priority 2 variables into GRUAN - Greg Bodeker
15:00 - 15:30	Coffee

Session 6: GRUAN data from other instruments

Chair: Peter Thorne; Rapporteur: Arnoud Apituley

15:30 - 16:00	A case study: Bringing lidar data online as a GRUAN data product - Theirry Leblanc
16:00 - 16:20	Bringing GPS integrated precipitable water as a data stream into GRUAN - Kalev Rannat
16:20 - 16:40	Bringing other radiosonde types online as GRUAN data products - Rolf Philipona / Li Wei
16:40 - 17:00	Bringing frostpoint soundings online as GRUAN data products - Dale Hurst and Holger Vömel
17:00 - 17:20	Defining GRUAN operations and GRUAN protocols - Holger Vömel
17:20 - 18:00	Discussion

Voluntary evening breakout session to discuss the requirements for traditional surface observations.

Thursday 8th March: Tateno site visit

(see local logistics for more detail)

Friday 9th March

Session 7: Science Issues

Chair: Greg Bodeker; Rapporteur: Bertrand Calpini and Arnoud Apituley

08:30 - 09:00	AOPC discussion of surface reference network - Adrian Simmons / Howard Diamond
09:00 - 09:45	Measurement scheduling discussion - Tom Gardiner /Dave Whiteman
09:45 - 10:00	Meeting the needs of the reanalysis community - David Tan
10:00 - 10:30	Coffee break
10:30 - 10:55	Change management - June Wang
10:55 - 11:20	Collocation of GRUAN measurements - Allesandro Fasso
11:20 - 11:45	Managing distributed sites discussion - Arnoud Apituley /Belay Demoz
11:45 - 12:00	JAXA Earth observation satellites and the validation – Keiji Imaoka , EORC/JAXA
12:00 - 12:15	Better linking GRUAN to satellite communities - John Dykema
12:15 - 13:30	Lunch

Session 8: Final Discussions

Chair: Holger Vömel; Rapporteur: Masatomo Fujiwara and David Tan

13:30 - 14:30	Review of the GRUAN implementation plan - any amendments - Greg Bodeker
14:30 - 15:15	Recap of tasks and responsibilities for upcoming year - sign off by all - Peter Thorne lead
15:15 - 15:30	Meeting close

15:30 - 16:00	Coffee
16:00 - 18:00	Closed meeting of WG-ARO membership

Possible/Voluntary evening breakout session to discuss possible GCOS Reference Surface Network