

ICM-8 agenda

25-29 April 2016,
Boulder Colorado

All presenters at ICM-8 will be asked, before they leave the meeting, to provide the rapporteurs for the day, with a summary of their presentation, appropriate for cutting and pasting directly into the ICM-8 report (and therefore conforming in narrative style to previous ICM reports), that includes the outcomes of any resultant discussions, and no longer than 1.5 pages in length. Rapporteurs will then collate that material, include their own notes, edit as required, and forward to Greg Bodeker within a week of the end of the meeting. Greg will then use these as a starting point for the ICM-8 report.

Monday 25 April

Day chair: Peter Thorne

Section 1 - Opening session and keynotes

Rapporteur: Greg Bodeker

8:00 - 8:45	Registration	
8:45 - 8:55	Welcome	Local hosts & WG chairs
8:55 - 9:00	Adoption of agenda	WG chairs
9:00 - 9:20	GRUAN Fundamentals	Ruud Dirksen
9:20 - 9:40	Lead Centre progress report	Ruud Dirksen
9:40 - 10:00	Assessment of progress against ICM-7 actions, including brief discussion on: <ul style="list-style-type: none">● RS92 transition - more detailed discussion later.● Report on process to provide obs-background to the GRUAN Lead Centre.● GRUAN video.● Demonstration study of SASBE.● Extend trend sensitivity studies to stratospheric water vapour.● Photo documentary of sites.● GRUAN data product and processing stream for Modem radiosondes.● Technical Note on manufacturer independent ground checks using the SHC.● Revised RS92 data stream based upon feedback received.● Bringing NDACC and GAW aerosol measurements into GRUAN.● Sites not attaining regularly 10 hPa	Peter Thorne

10:00 - 10:30 Coffee break

Section 2 - ICM-7 action items requiring additional discussion

Rapporteur: Arnoud Apituley

10:30 - 10:35	Redraft IP to be more a strategic plan document.	Peter Thorne
10:35 - 10:40	Transmitting GRUAN uncertainties over BUFR and required modification of BUFR tables.	Ruud Dirksen and Sasha Kats
10:40 - 10:45	All sites with capability to report BUFR over GTS in NRT.	Ruud Dirksen
10:45 - 10:50	Status of the multiple payload task	Masatomo Fujiwara and Hannu Jauhiainen
10:50 - 10:55	Automated sonde launches: an update on progress and plans.	Rigel Kivi and Fabio Madonna
10:55 - 11:00	Periodic science review of network expansion priorities and progress	Greg Bodeker

Section 3 - Discussion of topics raised by Task Team reports

Rapporteur: Thierry Leblanc

11:00 - 11:10	Brief summary (2 slides) on discussion points arising from Radiosonde Task Team report	Rolf Philipona and Masatomo Fujiwara
11:10 - 11:30	Discussion of Radiosonde TT topics	To be led by day chair
11:30 - 11:40	Brief summary (2 slides) on discussion points arising from GNSS-PW Task Team report	June Wang and Kalev Rannat
11:40 - 12:00	Discussion of GNSS-PW TT topics	To be led by day chair

12:00 - 13:00 Lunch

13:00 - 13:10	Brief summary (2 slides) on discussion points arising from Scheduling Task Team report	Tom Gardiner and Dave Whiteman
13:10 - 13:30	Discussion of Scheduling TT topics	To be led by day chair
13:30 - 13:40	Brief summary (2 slides) on discussion points arising from Ancillary Measurements Task Team report	Tony Reale and Thierry Leblanc
13:40 - 14:00	Discussion of Ancillary Measurements TT topics	To be led by day chair
14:00 - 14:10	Brief summary (2 slides) on discussion points arising from Sites Task Team report	Belay Demoz and Dale Hurst
14:10 - 14:30	Discussion of Sites TT topics	To be led by day chair

14:30 - 15:00	Report from GRUAN science coordinators and subsequent discussion	Tom Gardiner and Richard Querel
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15:00 - 15:30 Coffee break

Section 4 - Underpinning science for GRUAN

Rapporteur: Tom Gardiner

15:30 - 15:50	GRUAN and NPROVS	Tony Reale
15:50 - 16:10	WMO/GAW homogeneization of ozone records. Long-term IAGOS/MOZAIC-H ₂ O measurements in the UTH at cruise altitude (10-12 km)	Herman Smit
16:10 - 16:25	The development of a temperature SASBE for Lauder	Jordis Tradowsky
16:25 - 16:45	Using ARM data to provide atmospheric state best estimates for satellite retrieval validation	Lori Borg
16:45 - 17:05	Reconfiguration of the ARM SGP Site – the concerns of windmills and fracking	Doug Sisterson
17:05 - 17:25	Observing System Experiments in support of GRUAN	Betsy Weatherhead
17:25 - 17:35	Results on the comparison of GRUAN sondes, LBLRTM and IASI	Xavier Calbet

Tuesday 26 April

Day chair: Greg Bodeker

Section 5 - Progress review on instrument Technical Documents and associated data products

Rapporteur: Masatomo Fujiwara

8:30 - 8:40	The importance of Technical Documents in GRUAN	Ruud Dirksen
8:40 - 9:00	The overarching Radiosonde Technical Document	Christoph von Rohden
9:00 - 9:10	The Meisei Radiosonde Appendix	Masatomo Fujiwara
9:10 - 9:20	The Meteorolabor Radiosonde Appendix	Rolf Philipona
9:20 - 9:35	The RS92 Radiosonde Appendix	Ruud Dirksen
9:35 - 9:50	The Modem Radiosonde Appendix	Martial Haeffelin
9:50 - 10:00	The Chinese Radiosonde Appendix	Yang RongKang

10:00 - 10:30 Coffee break

10:30 - 10:50	Lidar Technical Document	Thierry Leblanc
10:50 - 11:10	Microwave Radiometer Technical Document	Nico Cimini
11:10 - 11:30	GNSS-PW Technical Document	June Wang
11:30 - 11:50	Ozonesonde Technical Document	Jacque Witte
11:50 - 12:10	FTIR Technical Document	Jim Hannigan
12:10 - 12:30	Long-term trends and systematic biases (errors) in GNSS data	Fadwa Alshawaf

12:30 - 13:30 Lunch**Section 6 - RS92 change management**

Rapporteur: Marion Maturilli

13:30 - 14:25	Change Management plan for RS92 to non-RS92 radiosondes	Ruud Dirksen
14:25 - 15:15	Discussion of Change Management plan for RS92 to non-RS92 radiosondes	Greg Bodeker and Peter Thorne

15:15 - 15:45 Coffee break

15:45 - 16:05	Discussion of the need for synthesis of results from RS92 change management, communication to GUAN and other interested parties, and how to achieve that.	Greg Bodeker (discussion lead)
16:05 - 16:25	ARM Facility radiosonde operations and metadata improvements – moving toward the RS41 sondes.	Donna Holdridge and Doug Sisterson
16:25 - 16:35	Estimation of bias in RS92 -> RS41 transition: preliminary results on Lindenberg temperature data	Alessandro Fassò
16:35 - 16:55	New GRUAN data processor for radiosonde measurements – status of RS92 (v3) and RS41 (alpha) data products	Michael Sommer
16:55 - 17:25	The way forward in RS41 transition	Peter Thorne

Wednesday 27 April**Day chairs: Dale Hurst and Belay Demoz****Section 7 - GRUAN sites day**

Rapporteur: Richard Querel

8:30 - 9:00	GRUAN data flow	Michael Sommer
9:00 - 9:15	Discussions about station reports	Lead Centre
9:15 - 9:30	Evaluation of experiments regarding solar radiation on radiosonde temperature sensors	Christoph von Rohden
9:30 - 9:45	Field experiments at Sodankylä	Rigel Kivi
9:45 - 10:00	Ny-Ålesund Recent Radiosonde Observations and Future Activities	Marion Maturilli
10:00 - 10:30	Coffee break	
10:30 - 10:45	Comparison of temperature observations from Radiosondes and GPS-RO	Ben Ho
10:45 - 11:00	GRUAN related activities at the Beltsville site	Ricardo Sakai and the Beltsville Team
11:00 - 11:15	NOAA/NWS-SFSC Modernization plans and collaboration with the Beltsville GRUAN site	Daniel Brewer and James Fitzgibbon
11:15 - 11:30	Balloon soundings and MORGANE campaign at Réunion	Stephanie Evan
11:30 - 11:45	Updates and future plans from Tateno	Nobuhiko Kizu
11:45 - 12:00	The role of conventional radiosonde observations in satellite data calibration/validation: Values and Challenges	Bomin Sun
12:00 - 13:00	Lunch break	

Rapporteur: Rigel Kivi

13:00 - 13:30	Controlled weather balloon ascents and descents for atmospheric research and climate monitoring	Rolf Philipona and Dale Hurst
13:30 - 13:45	Recent Divergences in Stratospheric Water Vapor Measurements by Frost Point Hygrometers and the Aura MLS	Dale Hurst
13:45 - 14:00	Results of CFH sonde launches at the ARM Southern Great Plains Site (SGP) – processing requirements.	Martin Stuefer
14:00 - 14:15	Data Quality with regard to measurement representativeness, uncertainty, and confidence - ARM Facility interests.	Doug Sisterson

14:15 - 14:35	Characterisation of radiosonde temperature biases and errors using radio occultation measurements	Jordis Tradowsky
14:35 - 14:50	Status of GRUAN site certification for the ARM SGP.	Doug Sisterson and Donna Holdridge
14:50 - 15:05	GRUAN as a cooperating network of GAW	Greg Bodeker
15:05 - 15:30	Coffee Break	
15:30 - 16:00	Update on where we are at with bringing new sites into GRUAN.	Greg Bodeker lead
16:00 - 16:15	Possible new sites: Dakar/Senegal, Roshydromet, CMA	Seydi Ababcar Ndiaye Sasha Kats Rongkang Yang
16:15 - 16:30	Presentation and discussion on site auditing	Greg Bodeker lead
16:30 - 17:30	An open discussion for sites	Dale Hurst and Belay Demoz to moderate
19:00 - 22:30	GRUAN Celebration Party	Dark Horse Bar & Grill

Thursday 28 April

Section 8 - Site visit day

- 08:15** Meet and board bus at the Boulder Inn
08:30 Bus departs Boulder Inn
 Balloon launch at Marshall Field Site
 Tour of NOAA Building, Lunch
 Tour of NCAR Research Aviation Facility
 Tour of Celestial Seasonings (herbal tea maker)
17:30 Bus arrives back at the Boulder Inn

19:30 - 22:30 ICM-8 dinner
 Carelli's Ristorante Italiano, \$50 per person (includes limited wine)

Friday 29 April

Day chair: Ruud Dirksen

Section 9 - GRUAN connection to partner communities

Rapporteur: Xavier Calbert

8:30 - 9:00	GRUAN interactions with NDACC	Michael Kurylo
9:00 - 9:15	GRUAN interactions with MeteoMet	Graziano Coppa

9:15 - 9:30	GRUAN's interactions with the WIGOS metadata task team	Fabio Madonna
9:30 - 9:45	Strengthening GRUAN's connection to GUAN	Roger Atkinson
9:45 - 10:00	Follow-up discussion by Science Coordinators	Richard Querel and Tom Gardiner

10:00 - 10:30 Coffee break

10:30 - 10:45	GRUAN interactions with GNSS-RO	Rob Kursinski
10:45 - 11:00	Remarks from GCOS	Caterina Tassone
11:00 - 11:15	GRUAN interactions with WMO Observing Systems	Stuart Goldstraw
11:15 - 11:30	GRUAN interaction with radiosonde manufacturers	Hannu Jauhiainen
11:30 - 11:45	Discussion on GRUAN interaction with partner communities	Greg Bodeker and Peter Thorne
11:45 - 12:00	The GRUAN video	Greg Bodeker

12:00 - 13:00 Lunch

Section 10 - GRUAN logistics and operational procedures

Rapporteur: Tony Reale

13:00 - 13:35	Working Group membership discussion	Greg Bodeker
13:35 - 13:55	The new GRUAN web page and other tools to coordinate Working Group communication	Michael Sommer and Greg Bodeker
13:55 - 14:10	Outcomes of the WIGOS/GRUAN meeting November 2015	Greg Bodeker
14:10 - 14:25	Outcomes of Gaia-clim and interface to GRUAN	Peter Thorne
14:25 - 14:40	General discussion on Technical Documents and next steps	To be led by day chair
14:40 - 15:00	The new GRUAN IP	Peter Thorne and Greg Bodeker

15:00 - 15:30 Coffee break

15:30 - 16:30	The GRUAN work plan for 2016/2017	Peter Thorne
16:30 - 17:00	Close	Local hosts and co-chairs