

ICM-7 agenda

Meeting to be held in Matera, Italy 23rd-27th February with support provided by CNR and US GCOS office.

Organizing Committee: Peter Thorne, Greg Bodeker (WG co-chairs), Ruud Dirksen (Lead Centre), Howard Diamond (US GCOS Office), Fabio Madonna, Gelsomina Pappalardo, Nico Cimini (local hosts), Belay Demoz, Dale Hurst (TT site representatives chairs)

Please ensure ample time for discussion. If a slot in Sessions 2 onwards does not have a dedicated follow-on discussion this means you should aim to present for at most 2/3 of the time allotted.

Items with the timeslot **highlighted** we expect a document in advance to be made available by the responsible parties. All documents should be with the Lead Centre no later than Feb 10th.

Monday

Day Chair: Fabio Madonna

Rapporteur: Tom Gardiner

8.30 – 8.50 Registration

Session 1 – Opening session and keynotes

8.50 – 9.00 Welcomes – local hosts, WG co-chairs

9.00 – 9.20 GRUAN basics – Ruud Dirksen

9.20 – 9.50 GRUAN and EU infrastructure projects – Andreas Voltz-Thomas

9.50 – 10.10 GRUAN, CNR and Italian Met Service activities – Massimo Ferri

10.10 – 10.30 Coffee break

Session 2 – Review of progress in the past year

10.30 – 11.00 Lead Centre progress report – Ruud Dirksen and Michael Sommer

11.00 – 11.30 Assessment of progress against ICM-6 report action plan, discussion of Implementation Plan items – Peter Thorne and Greg Bodeker

Please note that TT reports should cover solely those aspects of TT work which will not be covered in subsequent sessions. Please avoid repetition. Please highlight in particular challenges, impediments and areas where help is required and/or that would benefit from WG discussion.

11.30 – 11.45 Task team progress report from TT radiosondes (to include managed descent and autolauncher task updates)

11.45 – 12.00 Task team progress report from TT GNSS-PW

12.00 – 13.00 *Lunch*

Rapporteur: Greg Bodeker

13.00 – 13.15 Task team progress report from TT scheduling

13.15 – 13.30 Task Team progress report from TT ancillary measurements

13.30 – 13.45 Report from the GRUAN science coordinators

13.45 – 14.00 General discussion of progress

Session 3 – Radiosonde data streams

14.00 – 14.20 Development and certification of GRUAN data products – Holger Vömel / Michael Sommer

14.20 – 14.40 GRUAN Technical Documents for Radiosondes – Michael Sommer / Greg Bodeker

14.40 – 15.00 *Coffee break*

15.00 – 15.10 Collection of GRUAN oral histories – Dian Seidel

15.10 – 15.40 Version 3 of the GRUAN RS92 radiosonde data product – what is new – Ruud Dirksen

15.40 – 16.00 Group discussion of the v3 RS92 product

16.00 – 16.30 The Meteolabor sonde data product – progress, plans and intercomparisons – Rolf Philipona

16.30 – 16.50 Group discussion of the Meteolabor sonde data product

16.50 – 17.15 The Modem sonde data product – progress and plans – Martial Haeffelin

17:15 – 17.35 Group discussion of the Modem sonde data product.

17.35 – 18.00 Managing the transition from RS92 to RS41 discussion – lead discussant: Ruud Dirksen

Optional evening round-table process discussions

20.00 – 21.00 The GRUAN site map – Greg Bodeker / Ruud Dirksen

Tuesday

Day chair: Peter Thorne

Rapporteur: June Wang

9.00 – 9.30 The Mesei sonde data product – progress (incl. comparison (RS-11G, RS92-SGP and other Reference sensor)) and plans – Nobuhiko Kizu

9.30 – 9.50 Group discussion of the Mesei sonde data product

9.50 – 10.15 The CFH data product progress – Holger Vömel

10.15 – 10.35 Group discussion of the CFH data product

10.35 – 11.00 Coffee break

Session 4. Homogeneity and metadata

11.00 – 11.20 What about cross-network homogeneity? – Michael Sommer / Ruud Dirksen

11.20 – 11.40 Update on GRUAN's interactions with the WIGOS metadata task team. – Arnoud Apituley

Session 5. Other GRUAN products

11.40 – 12.10 GNSS-PW progress – Markus Bradke

12.10 - 13.05 Lunch

Rapporteur: Dale Hurst

13.05 – 13.30 Lidar progress – Thierry Leblanc

13.30 – 13.45 Raman lidar observations in Payerne – Gianni Martucci

13.45 – 14.05 Progress towards GRUAN Microwave Radiometer product – Nico Cimini

14.05 – 14.20 MUSICA: FTIR H₂O data – Matthias Schneider

Session 6. GRUAN and satellites

14.20 – 14.40 Follow-on actions for GRUAN from the 3G workshop – Greg Bodeker representing Stephan Bojinski

14.40 – 15.10 Accurate Occultation Prediction with 4 Weeks Lead Time / Statistical Analysis of COSMIC Radio Occultation Data against GRUAN Sondes – Axel von Engel

15.10 – 15.25 *Coffee break*

15.25 – 15.50 Consistency between GRUAN and IASI and the GRUAN/Satellite collocation uncertainty determination project – Xavier Calbet

15.50 – 16.05 GRUAN and GSICS – Viju John

16.05 – 16.20 The H2020 GAIA-CLIM project – Peter Thorne

16.20 – 16.45 Progress with NPROVS+ – Tony Reale

16.45 – 17.00 GPS-RO water vapour and GRUAN – Rob Kursinski

17.00 – 17.15 Active Temperature Ozone and Moisture Microwave Spectrometer ATOMMS – Rob Kursinski

Session 7. Extending GRUAN's reach

17.15 – 17.45 GRUAN and GUAN – Tim Oakley

17.45 – 18.15 Collaborations in GNSS sphere with other projects (GNSS4SWC, EGVAP) – Rosa Pacione / Jonathan Jones

Optional evening round-table science discussions

20.00 – 21.00 How to evaluate uncertainties in temperature measurements – Andrea Merlone

21.00 – 22.00 How to calculate a monthly mean and its uncertainty – Greg Bodeker

Wednesday – Sites day

Day Chair: Dale Hurst and Belay Demoz

Rapporteur: Peter Thorne

Session 8. The sites day

9.00 – 9.45 LC summary of site status and reports as in ICM-6 – Ruud Dirksen
GRUAN data flow from LC upload to GTS – LC/sites

9.45 – 10.00 Open discussion

10:00 – 10.20 FLEXPART Lagrangian model for Reunion and other activities at
La Reunion - Stephanie Evan

10:20 – 10:35 *Coffee Break*

10.35 – 10.55 Measurement at Sodankyla – Rigel Kivi

10.55 – 11.25 Attempts to extend the Ny-Alesund dataset backwards – Marion
Maturilli.
Meteomet collaboration with Ny Alesund – Andrea Merlone

11.25 – 11.45 Update on Lauder activities– Richard Querel

11.45 – 12.05 Metrology/meteorology at Potenza: perspectives – Fabio Madonna

12.05 – 12.15 Open discussion

12.15 – 13.15 *Lunch*

Rapporteur: Richard Querel

13.15 – 13.35 NWS-Sterling NASA/GSFC and Beltsville collaboration – Belay
Demoz

13.35 – 14.05 ARM Climate Research Facility

- 1) Sonde activities: restructure and impact to GRUAN
- 2) Overview of ARM Lidar (Raman and Doppler) measurements –
Lead: Doug Sisterson

14.05– 14.25 GNSS Analysis for Climate Monitoring and Meteorological
Applications at ASI/CGS, Matera – Rosa Pacione

14.25 – 14.40 Open discussion

14.40 – 14.55 *Coffe break*

14.55 – 15.15 Ground-based observations performed by the Italian Met Service,
Italian Met service – Stefania Vergari

15.15 – 15.35 Changes to the GUM and what it might mean for GRUAN – Andrea Merlone

15.35 – 16.30 Open mic: Discussion of Issues of the day and impromptu presentations from sites

16.30 – 18.00 Discussion of potential new sites in GRUAN including brief reports by nominated shepherds on progress – facilitated by Greg Bodeker

Site shepherds will be requested to provide a brief update to the wiki or via email (preference is wiki) to Greg Bodeker in advance.

Thursday – Site visit day

- 9.00 Bus departs from Matera
- 10.15 Welcome
- 10.30 – 10.50 CIAO: the CNR-IMAA Atmospheric Observatory and its role in the European and global scenarios – Gelsomina Pappalardo
- 10.50 – 11.10 The single calculus chain of EARLINET for the automatic processing of aerosol lidar data: an overview – Giuseppe D'Amico
- 11.10 – 11.30 CIAO activities for satellite validation and model evaluation using ground based measurements – Lucia Mona
- 11.30 – 11.50 Retrieval of water vapor and clouds properties from satellite platforms – Filomena Romano/Nico Cimini
- 11.50 – 12.10 Synoptic soundings in Italy and migration to RS41 radiosonde – Maria Rita Leccese
- 12.10 – 12.50 Discussion on the ACTRIS/GRUAN synergy
- 12.50 – 13.30 *Lunch and posters viewing*
- 13.30 – 15.00 Potenza site tour in two groups
- 15.00 – 15.15 *Coffee break***
- 15.15 – 18.30 short trip around Basilicata region
- 18.30 Arrival in Matera
- 20.00 *Workshop dinner*

Friday

Day Chair: Nico Cimini

Rapporteur: Arnoud Apituley

Session 9. GRUAN management and communication

- 8.00 – 8.20 The GRUAN launch event – Greg Bodeker
- 8.20 – 8.40 Discussion on the GRUAN/GAW collaboration – Geir Braathen
- 8.40 – 9.05 Discussion around whether WG members' terms should be fixed terms or not – Peter Thorne
- 9.05 – 9.35 Discussion of GCOS ECV tables and GRUAN – Tim Oakley
- 9.35 – 10.05 GRUAN website and communication tools – Michael Sommer / Greg Bodeker
- 10.05 – 10.20 *Coffee break*
- 10.20 – 11.50 The GRUAN work plan for 2015/16 – Peter Thorne
- 11.50 – 12.20 Close