

GRUAN ICM-14 Agenda
28 Nov – 2 Dec 2022
Réunion Island

Host: Université de la Réunion

Meeting Outline

Day 1 (Monday)

Session 1 – Welcome (Host, WMO/GCOS Director, WG Chair, LC)
Session 2 – Review of progress (Lead Centre, GDP, Actions from ICM-13)
Session 3 – GRUAN Priorities
Session 4 – Operational matters
Keynote forum 1 – Vision and Plans

Day 2 (Tuesday)

Session 5 - Site visit and local presentations

Day 3 (Wednesday)

Session 6 – Science and Innovation -1
Session 7 – Task Team Reports (Update since ICM-13)
Keynote forum 2 – GRUAN coverage (Sites, data products and collaboration)

Day 4 (Thursday)

Themed Breakout (Half Day)

Session 8 – Science and Innovation-2
Keynote forum 3 – WMO Radiosonde Intercomparison
Visit to the Meteo France site

Day 5 (Friday)

Session 9 – GRUAN Data Products
Session 10 – Other ICM13 actions
Session 11– GRUAN management and governance
Session 12 – Closing remarks (Actions and ICM-15)

Link to join the meeting (valid through the full meeting):

For safety reasons access details are available upon request (meeting.contact@gruan.org). (Pre)registered participants will automatically receive the connection details via email.

Monday 28 Nov

Session 1 – Welcome (09:00-10:30 RET– 05:00-06:30 UTC)

	08:30 – 09:00	Registration	
1-1	09:00 – 09:10	Welcome	June Wang
1-2	09:10-09:20	Meeting logistics	Local host
1-3	09:10 – 09:30	Official Opening	Host
1-4	09:30-09:45	La Reunion, a knowledge center for island resilience	Philippe Holstein
1-5	09:45 – 10:00	Opening Statement – GCOS/WMO	WMO (Remote)
1-6	10:00 – 10:15	GRUAN – Why are we here	Ruud Dirksen
1-7	10:15 – 10:30	Sites certification presentations: Ross Island and Barrow	Peter Thorne/June Wang

10:30 – 11:00 - Morning Break

Session chair: Peter Thorne

Session 2 – Review of progress (11:00-12:30 RET – 07:00-08:30 UTC)

2-1	11:00-11:30	GRUAN LC Updates	Ruud Dirksen
2-2	11:30-11:45	GDP status (table)	Ruud Dirksen
2-3	11:45-12:15	Review of actions from ICM-13	Peter Thorne
2-4	12:15-12:30	RS41-GDP (HP2)-Final Certification	Michael Sommer

12:30 – 13:30 - Lunch

Session chair: Peter Thorne

Session 3 – GRUAN Priorities (13:30-15:30 RET – 09:30-11:30)

3-1	13.30-14:55	R23 and its replacement (HP5) Current status for stations Overview of potential replacements Discussion and agreed plans <ul style="list-style-type: none"> The development of a liquid N2 container for the CFH. With contributions of Frank Wienhold (PCFH), Takuji Sugidachi (Skydew) and Holger Vömel (CFH). 	GRUAN Lead Centre leads Christian Rolf (online)
3-2	14:55-15:10	Meisei GDP (HP3)	LC/JMA/Mesei
3-3	15:10-15:30	Modem M10 GDP (HP4) (10 min) Development of M20 Data product (D4) (5min) Discussion (5min)	Antoine Farah

15:30 – 16:00 – Afternoon Break

Session chair: Peter Thorne

Session 4 - Operational matters (16:00-16:30 RET – 12:00-12:30 UTC)

4-1	16:00-16:15	Parallel soundings database augmentation with ancillary data (A1)	David Smyth
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4-2	16:15-16:30	Standard Humidity Chamber (C5)	Michael Sommer
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16:30 – 17:30

Keynote forum 1 - Vision and Plans (GRUAN vision, GRUAN IP, GCOS Vision & IP, EGOS IP)
(2 or 3 - 10 min presentation; 30 min open discussion.)

- GCOS IP – Caterina Tassone/Tim Oakley (10min)
- GRUAN IP – June Wang (10 min)

Tuesday 29 Nov

The site visit will be at the high-altitude Maïdo Observatory, 2-hour by bus from downtown Saint-Denis. On this day, we will celebrate the 10-year anniversary of the Observatory and the reclassification of La Réunion to Global GAW station (it was previously a regional station).

Session 5 - Site visit: The Maïdo Observatory

	7:00	Bus departs from Saint-Denis, near Hôtel de ville (walking distance from all hotels)	
	9:30-10:00	Coffee break	
5.1		<p>Site visit to include:</p> <p>10:00-10:30: Official addresses (5min per person, Joël Van Baelen-head of LACy; Jean-Pierre Cammas-head of OSU-Réunion Frédéric Miranville-head of University of Reunion, Paolo Laj-Chair of the GAW Scientific Advisory Group for Aerosols; Huguette Bello-president of the regional council of Réunion)</p> <p>10:30-11:00: Official Ceremony, Global GAW certificate presentation</p> <ul style="list-style-type: none"> • Nicolas Arnaud (10min), CNRS-INSU • Caterina Tassone (10min), WMO <p>11:00-12:30 Visit of the observatory</p>	
	12:30-14:00	Lunch, 10-year anniversary of the observatory	
	14:00	Bus departs the Maïdo Observatory for Hotel Boucan Canot.	

Session 5 - Local presentations and conference dinner

5.1	15:30-15:45	Unprecedented injection of water vapor into the stratosphere by the eruption of Hunga Tonga-Hunga Ha'apai	Holger Vömel
5.2	15:45-16:00	Rapid ozone loss following humidification of the stratosphere by the Hunga-Tonga	Stephanie Evan
5.3	16:00-16:15	Early Evolution of the Hunga-Tonga Stratospheric Aerosol Plume observed by Lidar at La Réunion	Valentin Dufлот

5.4	16:30-16:45	The Hunga-Tonga eruption impacts on the stratosphere	Karen Rosenlof
5.5	16:45-17:00	An overview of research activities at LACy	Joel Van Baelen
5.6	17:00-17:15	How to collaborate with La Reunion's Research and Innovation stakeholders? Overview of forthcoming Horizon Europe calls for projects	Evelyne Tarnus
	17:30-19:00	Free time (hotel Boucan Canot is located near the Boucan Canot beach)	
	19:00-21:00	Diner Cocktail	
	21:30	Bus departs Hotel Boucan Canot for downtown Saint-Denis	

Wednesday 30 Nov

Session chair: Ruud Dirksen

Session 6 - Science and Innovation-1 (09:00-10:45 RET – 05:00-06:45 UTC) (Presentations 15min+5min)

6-1	09:00-09:20	The impact analysis of NWS migration to Vaisala RS41	Tony Reale
6-2	09:20-09:40	Sequential radiosonde launches and their use in satellite data calibration/validation	Bomin Sun
6-3	09:40-10:00	Options for radiosonde launches with EUMETSAT Metop and Metop-SG overpasses	Axel Von Engeln
6-4	10:00-10:20	Fine detailed fitting of observed IASI radiances to calculated ones using GRUAN sondes and radiative transfer modelling water vapor inhomogeneities within the satellite field of view.	Xavier Calbet
6-5	10:20-10:40	The Faa site - updates	Patrick Jann

10:30 – 11:00 - Morning Break

Session 6 – Science and Innovation-1 (11:15-12:30 RET – 07:15-08:30 UTC) -continued

6-6	11:15-11:35	On the uncertainty of RS41 missing data interpolation	Alessandro Fasso
6-7	11:35-11:55	The GDP for the multidisciplinary drifting observatory for the study of arctic climate (MOSAiC)	Marion Maturilli
6-8	11:55-12:15	Improvement of temperature and humidity data quality from RALMO, validation of the uncertainty budget and advanced experiments towards operational simulation	Gianni Martucci

6-9	12:15-12:30	Discussion	
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12:30 – 13:30 - Lunch

Session chair: Ruud Dirksen

Session 7 - Task Team Reports (13:30-15:30 RET – 09:30-11:30 UTC)			
7-1	13:30-13:50	Radiosonde TT Justification for high ascent attainment (C7)	Masatomo Fujiwara
7-2	13:50-14:10	Sites TT	Marion Maturilli
7-3	14:10-14:30	Scheduling TT Uncertainty terminology and presentation in GRUAN products (C4)	Fabio Madonna Tom Gardiner
7-4	14:30-14:50	GB-TT	Domenico Cimini
7-5	14:50-15:10	GNSS-PW TT	Kalev Rannat
7-6	15:10-15:30	SAT TT Satellite data collocations with RS92/41 pairs (A2)	Lori Borg/Axel Von Engeln

15:30 – 16:00 – Afternoon Break

16:00 – 17:30 RET – 12:00-13:30 UTC

Keynote forum 2 - GRUAN evolution (Sites, data products and collaboration)
(2 or 3 - 10 min presentation; 30 min open discussion.)

- View by Task Team Sites – Marion Maturilli(10min)
- View by Lead Center – Ruud Dirksen(10min)
- GRUAN-GSRN Connections – Tim Oakley/Caterina Tassone (10min)

Thursday 1 Dec

09:00-10:45 RET – 05:00-06:45 UTC

Breakout sessions, themes to be determined (in person)

1. Exchange on technical issues at the sites (Chaired by TT-sites chairs)

10:45 – 11:15 – Morning Break

11:15 – 12:30 RET – 07:15-08:30 UTC

Breakout sessions continue

12:00-12:30 RET – 08:00-08:30 UTC

1 slide to report back to plenary

12:30 – 13:30 - Lunch

Session chair: June Wang

Session 8 – Science and Innovation-2 (13:30-15:30 RET – 09:30-11:30 UTC)			
8-1	13:30-13:50	2024 water vapor instrument intercomparison at European Southern Observatory (ESO) site in Paranal, Chile	Florian Kerber (online)
8-2	13:50-14:10	Direct validation of radiosonde data against radio occultation bending angles	Axel Von Engeln
8-3	14:10-14:30	Empirical estimation of uncertainty in radiosondes, radio occultations and model forecast with the Three Corned Hats method	Jo Nielsen (online)
8-4	14:30-14:50	Calibration of radiosonde humidity sensors using upper air simulator and applications to soundings	Sang-Wook Lee
8-5	14:50-15:10	Combining the RS41 with CFH's Golden Points for reference quality humidity retrievals and latest progress with PCFH	Yann Poltera
8-6	15:10-15:30	Experiments and analysis for determining the timelag of the RH sensor	Christoph von Rohden

15:30 – 16:00 – Afternoon Break

16:00 – 17:00 RET – 12:00-13:30 UTC: Keynote forum 2 - WMO Radiosonde Intercomparison- 2 presentations followed by discussion

- Overview of the intercomparison- Ruud Dirksen(15 min)
- Life in a multi-GDP World: the UAI 2022 perspective - Frederic Vogt (15 min)
- View of the intercomparison from the manufactures

17:00 Visit to the Meteo France site

Friday 2 Dec

Session chair: Marion Maturilli

Session 9 – GRUAN Data Products (09:00-10:45 RET – 05:00-06:45 UTC)			
9-1	09:00-09:10	LIDAR GDP progression (B2)	Thierry Leblanc (online)
9-2	09:10-09:30	Microwave Radiometer GDP (B1)	Nico Cimini
9-3	09:30-09:50	Frostpoint Hygrometer GDP progression (B3)	Ruud Dirksen & Takuji Sugidachi
9-4	09:50-10:10	Ozonesondes GDP progression (D1)	Richard Querel
9-5	10:10-10:40	Discussion	

10:45 – 11:15 – Morning Break

Session chair: Marion Maturilli

Session 10 – Other ICM-13 actions (11:15-12:30 RET – 07:15-08:30 UTC)			
10-1	11:15-11:30	Standardizing cloud observations / reporting (C6)	Masatomo Fujiwara
10-2	11:30-11:45	QC/QA flagging and presentation in data files (B4)	Tzvetan Simeonov
10-3	11:45-12:00	GNSS GDP format (C9)	Galina Dick
10-4	12:00-12:15	Metrological closure of GNSS-IWV and radiosondes (C10)	Galina Dick
10-5	12:15-12:30	RS92-RS41 comparison paper (D3)	Tzvetan Simeonov

12:30 – 13:30 - Lunch

Session chair: Marion Maturilli

Session 11 – GRUAN management and governance (13:30-14:30 RET – 09:30-10:30 UTC)			
11-1	13:30-13:45	Silent stations (C8)	Ruud Dirksen
11-2	13:45-14:00	Data Policy (C3)	Ruud Dirksen
11-3	14:00-14:15	Usage of GRUAN data (C2)	Dave Smyth
11-4	14:15-14:30	<ul style="list-style-type: none"> • Sites photos (C1) • Radiosonde fundamental documentation (D2) • Refresh of presentation materials (D5) 	Michael Sommer Christoph von Rohden Dave Smyth

Session 12 - Closing remarks (14:30-15:30 RET – 10:30-11:30 UTC)			
12-1	14:30-15:00	Actions	Peter Thorne
12-2	15:00-15:05	ICM-15	Ruud Dirksen
12-3	15:05-15:25	How to collaborate with La Reunion's Research and Innovation stakeholders? Quick discussion about matchmaking and defining the next steps	Evelyne Tarnus
12-4	15:25-15:30	Formal close	June Wang/Peter Thorne