

# ICM-13 Agenda

15-19 November 2021

Virtual meeting

**Host:** WMO Microsoft Teams account (log in details will be distributed by email)

**Organizers:** Ruud Dirksen (DWD), Peter Thorne (Maynooth), David Smyth (Maynooth), Caterina Tassone (WMO), Tim Oakley (WMO), Howard Diamond (NOAA), June Wang (U Albany), Marion Maturilli (AWI), Dale Hurst (NOAA), Stephanie Evan (LACy)

Due to the global Covid-19 situation, this year's meeting will be organized as a condensed, virtual meeting in the week of 15-19 November 2021. The meeting will be a 5-days series of 2-3 hour video conferences during which the most essential topics are discussed.

The timing of the sessions is rotating in an attempt to evenly spread the burden of unfavourable hours over all participants from various time zones.

Times in UTC

## Monday 15 November (Times in UTC)

**Chair:** June Wang

*Rapporteur:* NN

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### **Session 1 - Radiosondes new data products, RS41**

1 - 1	14:00 - 14:20	Presentation from co-chairs - Welcome Achievements since ICM-12 and challenges	Peter Thorne
1 - 2	14:20 - 14:40	Status of all GDPs under development (B1/B2)	Ruud Dirksen
1 - 3	14:40 - 14:55	RS41 product overview (HP1)	Michael Sommer
1 - 4	14:55 - 15:10	QC/QA flagging ad hoc group progress report (HP3)	Tzvetan Simeonov
	15:10 - 15:20	<i>Comfort break</i>	
1 - 5	15:20 - 15:35	Progress on standardisation of cloud observations and their reporting	Masatomo Fujiwara
1 - 6	15:35 - 15:45	Omnibus (HP2)	Christoph von Rohden
1 - 7	15:45 - 16:00	Modem product status (B3)	Eliane Assy / J-C Dupont
1 - 8	16:00 - 16:10	Graw product status	Ruud Dirksen
1 - 9	16:10 - 16:30	Progress in humidity time lag, ground check processing (HP1, C5 b)	Christoph von Rohden
1 - 10	16:30 - 16:45	Ozonesonde status (B4)	Holger Vömel
	16:45 - 17:05	<i>Wrap-up/Discussion</i>	Session chair

**Tuesday 16 November (Times in UTC)****Chair: Dale Hurst/Marion Maturilli**

Rapporteur: NN

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**Session 2 - Ground-based & emerging technologies**

2 - 1	20:00 - 20:25	GNSS-PW status update, Metrological closure between GNSS-PW and radiosonde (C11, C12)	Jonathan Jones/ Kalev Rannat
2 - 2	20:25 - 20:55	MWR status + 10' discussion (B5)	Nico Cimini
2 - 3	20:55 - 21:15	Validation of column-averaged CO2 and CH4 observations	Dietrich Feist
2 - 4	21:15 - 21:35	Quantum-cascade laser absorption spectrometer (QCLAS) for water vapor measurements in the upper stratosphere	Simone Brunamonti
	21:35 - 21:45	<i>Comfort break</i>	
2 - 5	21:45 - 22:05	Validation of RALMO water vapor mixing ratio against the co-located Vaisala RS41 radiosounding data	Giovanni Martucci
2 - 6	22:05 - 22:10	Frostpoint hygrometer GDP progression (B7)	Dale Hurst
2 - 7	22:10 - 22:30	Lidar GDP (B6)	Thierry Leblanc
2 - 8	22:30 - 22:50	Biogenic aerosols in the UTLS: A new challenge to water vapor Raman lidars (and other techniques?)	Thierry Leblanc
2 - 9	22:50 - 23:10	Multi-station Measurements of the Ionospheric Potential with GRUAN	Earle Williams
2 - 10	23:10 - 23:30	The NOAA Baseline Balloon stratospheric Aerosol Profiles (B@SAP) Project: description and insights using in situ observations since 2019	Elizabeth Asher
	23:30 - 23:50	<i>Wrap-up/Discussion</i>	Session chair

**Wednesday 17 November (Times in UTC)****Chair: Stephanie Evan**

Rapporteur: NN

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**Session 3 - WMO intercomparison, dual soundings, collocations, R23 replacement**

3 - 1	12:00 - 12:30	WMO intercomparison - includes Q&A	Ruud Dirksen / Frederic Vogt
3 - 2	12:30 - 12:40	Progress with provision of site-based ancillary measurements to the RS92/41 collocation database (A1)	Dave Smyth
3 - 3	12:40 - 12:50	Progress with provision of satellite based ancillary measurements to the RS92/RS41 collocation database (A2)	Lori Borg / Axel von Engeln
3 - 4	12:50 - 13:10	Dual launch analysis updates (A3 & C8)	Tzvetan Simeonov
	13:10 - 13:20	<i>Comfort break</i>	
3 - 5	13:20 - 13:35	The R23 issue, summary of tests performed at various sites Update on Dry ice / Ethanol FPH flights at Boulder Report on Dry ice / Ethanol CFH flights Development of N2 container	Ruud Dirksen Dale Hurst Holger Vömel Christian Rolf
3 - 6	13:35 - 13:55	Skydew status	Kensaku Shimizu
3 - 7	13:55 - 14:15	FLASH-B	Alexey Lykov
3 - 8	14:15 - 14:35	PCFH	Frank Wienhold
3 - 9	14:35 - 14:45	SHC analysis update / progress with paper (C5a)	Ruud Dirksen / Peter Oelsner
	14:45 - 15:05	<i>Wrap-up/Discussion</i>	Session chair

**Thursday 18 November (Times in UTC)****Chair: Ruud Dirksen**

Rapporteur: NN

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**Session 4 - Network management IP, Task Teams, silent sites**

4 - 1	15:00 - 15:15	Proposal on policy for silent sites (C10)	Ruud Dirksen
4 - 2	15:15 - 15:35	Comprehensive Upper-Air, Baseline and Reference in situ observations in Copernicus 2.0	Fabio Madonna
4 - 3	15:35 - 15:50	Update on GRUAN website	Michael Sommer
4 - 4	15:50 - 16:10	IP progress and plan	June Wang
	16:10 - 16:20	<i>Comfort break</i>	
4 - 5	16:20 - 16:30	Site photos (C1)	Michael Sommer
4 - 6	16:30 - 16:40	Update on work to improve monitoring of usage of GRUAN products	Dave Smyth
4 - 7	16:40 - 16:50	Data policy for different release phase versions (C3)	Ruud Dirksen
4 - 8	16:50 - 17:10	Uncertainty terminology and presentation in GRUAN products (C4)	Tom Gardiner
	17:10 - 17:30	<i>Wrap-up/Discussion</i>	Session chair

**Friday 19 November (Times in UTC)****Chair: Peter Thorne**

Rapporteur: NN

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**Session 5 - New science**

5 - 1	11:00 - 11:20	High altitude attainment study progress (C7)	Masatomo Fujiwara
5 - 2	11:20 - 11:40	Upper Air Simulator to evaluate the measurement uncertainty of the RS41	Sang-Wook Lee
5 - 3	11:40 - 12:00	Radiosonde interpolation uncertainty	Pietro Colombo
5 - 4	12:00 - 12:20	Stratospheric seasonality and its implications for radiosonde requirements	Bruce Ingleby
5 - 5	12:20 - 12:40	Chilled mirror hygrometers and their 'Golden Points': a new interpretation and correction method for chilled mirror data	Yann Poltera
	12:40 - 12:50	<i>Comfort break</i>	
5 - 6	12:50 - 13:10	Constraining radiosonde random uncertainty with collocated radio occultations and model data	Johannes Nielsen
5 - 7	13:10 - 13:30	Development of a new dual thermistor radiosonde	Yong-Gyoo Kim
5 - 8	13:30 - 13:50	Small scale variability of water vapour in the atmosphere	Xavier Calbet
5 - 9	13:50 - 14:10	Announcement ICM-14	ICM-14 hosts
5 - 10	14:10 - 14:15	<b>Close</b>	