

GRUAN update

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R23

- As noted yesterday the R23 use has been curtailed by Europe (and others) with impacts on frostpoint hygrometer based measurements capable of measuring UTLS WV
- Efforts underway:
 - Replacement coolants (liquid N₂ is perhaps most promising)
 - Peltier cooled techniques
 - Meisei skydew is the only model close to ready, but even that not commercially available
- Concerns that alternatives may not perform in daytime in extreme cases because coolants less efficient

WMO radiosonde intercomparison

- GRUAN LC is co-hosting with Meteoswiss the next UA intercomparison campaign
- Lab characterization of most sondes complete using various chambers and cal/val facilities
- Campaign will occur late summer / early autumn
- GRUAN-capable sonde models will be flown with every payload and will be processed to GRUAN products

Progress on GRUAN products

- Vaisala RS41 has been provisionally certified (pending finalization of technical documentation) backfilling a major gap
- New Meisei IMS-100 is under certification
- GNSS-PW data stream is being prepared (already certified)
- Slow progress on lidar, MWR products
- Modem M10 sonde could be close to certification (under LC review)

Limitations of solely virtual

- It is now over 3 years since GRUAN met physically
- ICMs brought together WG, LC, task teams, site representatives and kept momentum going
- Currently registering interest for meeting in La Reunion end of November
- Decision will be made early next month based upon returns and risk assessment