



National Physical Laboratory

GRUAN ICM-8 Scientific Coordination – Follow up

Tom Gardiner and Richard Querel

Boulder, 29th April, 2016

- More pro-active approach, following up on general email with groups focussed on specific topics.
- Summary of current status on these, for those not at ICM, followed up with telecons.
- Prepare list of potential short-term research topics.
- Still need on-going input from network on planned (& desired) research activities.
 - Summaries and updates on these.
- Work with LC on dissemination options:
 - New website
 - Newsletter(s)
 - Researcher distribution list
- Science coordinator role: timescales, effectiveness.
 - Review next ICM ?

Sonde change-over

- Work with LC, Sites, Alessandro, and others on synthesis of individual site results to provide network-wide conclusions
- Identify short-term research topics to address specific questions.
- Potential topics:
 - Impact of different RS92 analysis algorithms on intercomparison results (current GRUAN, updated GRUAN with new solar correction, Vaisala).
 - Potential benefits of additional data sources (ancillary measurements, frost point sondes, satellite/RO data, NWP analyses) in assessing site-specific differences and combined network conclusions.

- Identify specific science questions to be addressed.
- What form should SASBE take?
 - Optimised/focussed SASBE targeted on specific events (overpasses) with max info / min uncertainties.
 - Continuous re-analysis SASBE with time-evolving uncertainties as data is fed in.
- How should ancillary data be used?
 - Trade off of averaging time vs signal to noise/uncertainty (different requirements for different applications).
- How should co-locations uncertainties (spatial and temporal) be quantified and included ?
- Need test cases/models to assess.
- One suggestion: re-focus/refresh Scheduling Task Team to address SASBE issues.