



Lead Centre report

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GRUAN Lead Center

DWD Meteorological Observatory Lindenberg

ICM-7

23 February 2015



Site certification status: previously certified

Deutscher Wetterdienst
Wetter und Klima aus einer Hand



Site certification status

- Certified in 2014:
Boulder, Lauder

- Recently certified:
Payerne

- Under review:
Beltsville, Cabauw, Potenza, Sodankyla



Lauder, NZ

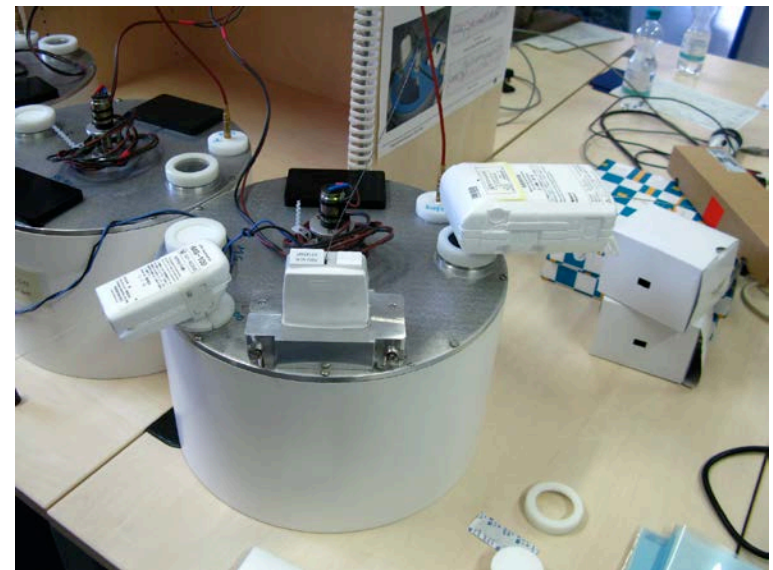
Certification procedures are being coordinated by the Lead Center

- ARM activity at Manus and Darwin terminated
- Continuation of Darwin in GRUAN is negotiated with BOM.
- Paris (SIRTA) and La Reunion will join GRUAN

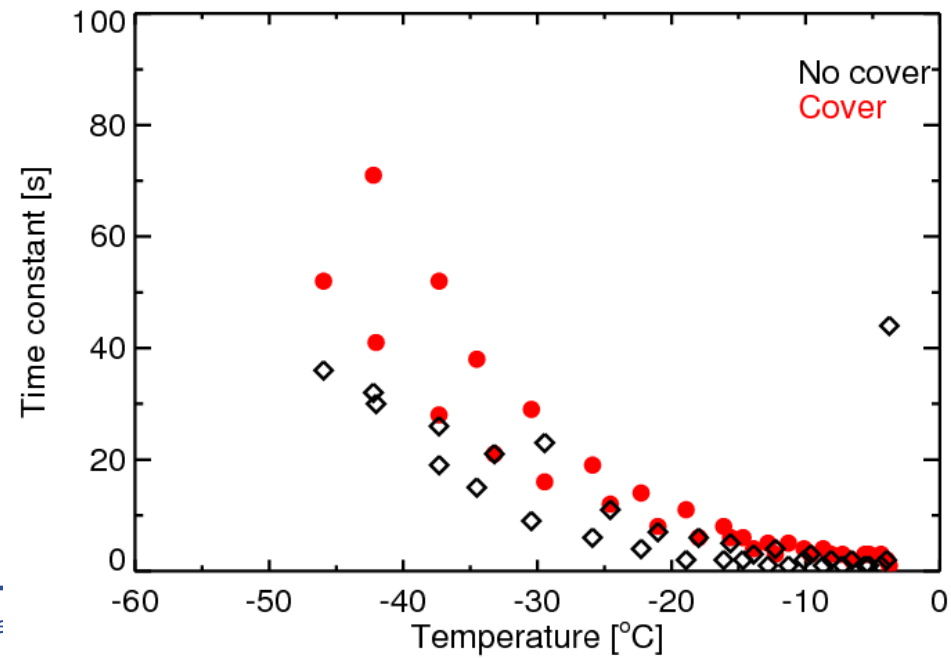
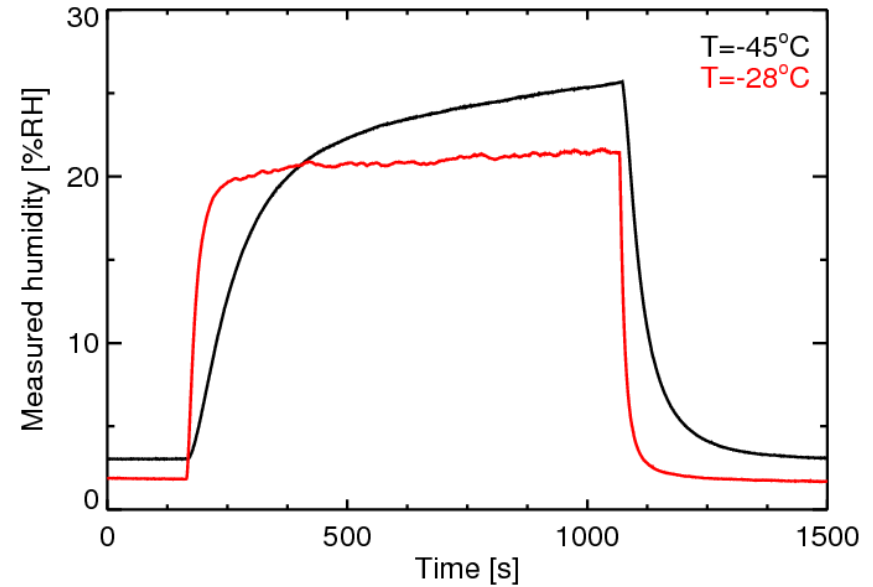


- ☹️ Head of Lead Centre stepped down
- 😊 Recruitment of new LC head ongoing (end of this month)
- ☹️ Development of GRUAN is limited by available resources

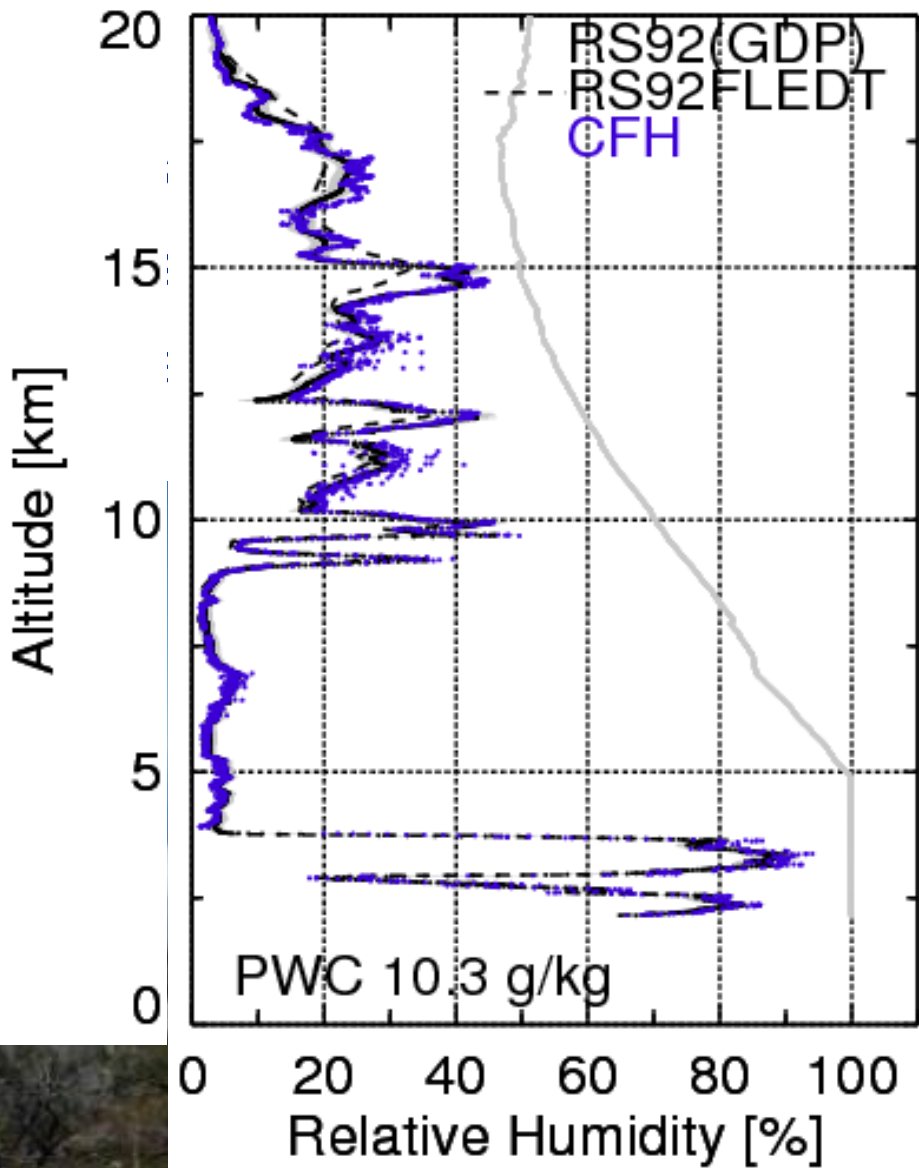
- Meisei
 - SHC, time lag, radiation (RS-11G, iMS-100) [presentation Kizu]
- Modem
 - SHC, time lag (M10) [Haeffelin]
- Vaisala
 - Software testing
 - Discussion GRUAN interface
- Characterization of RS41 (Monday afternoon)



Time lag Modem M10



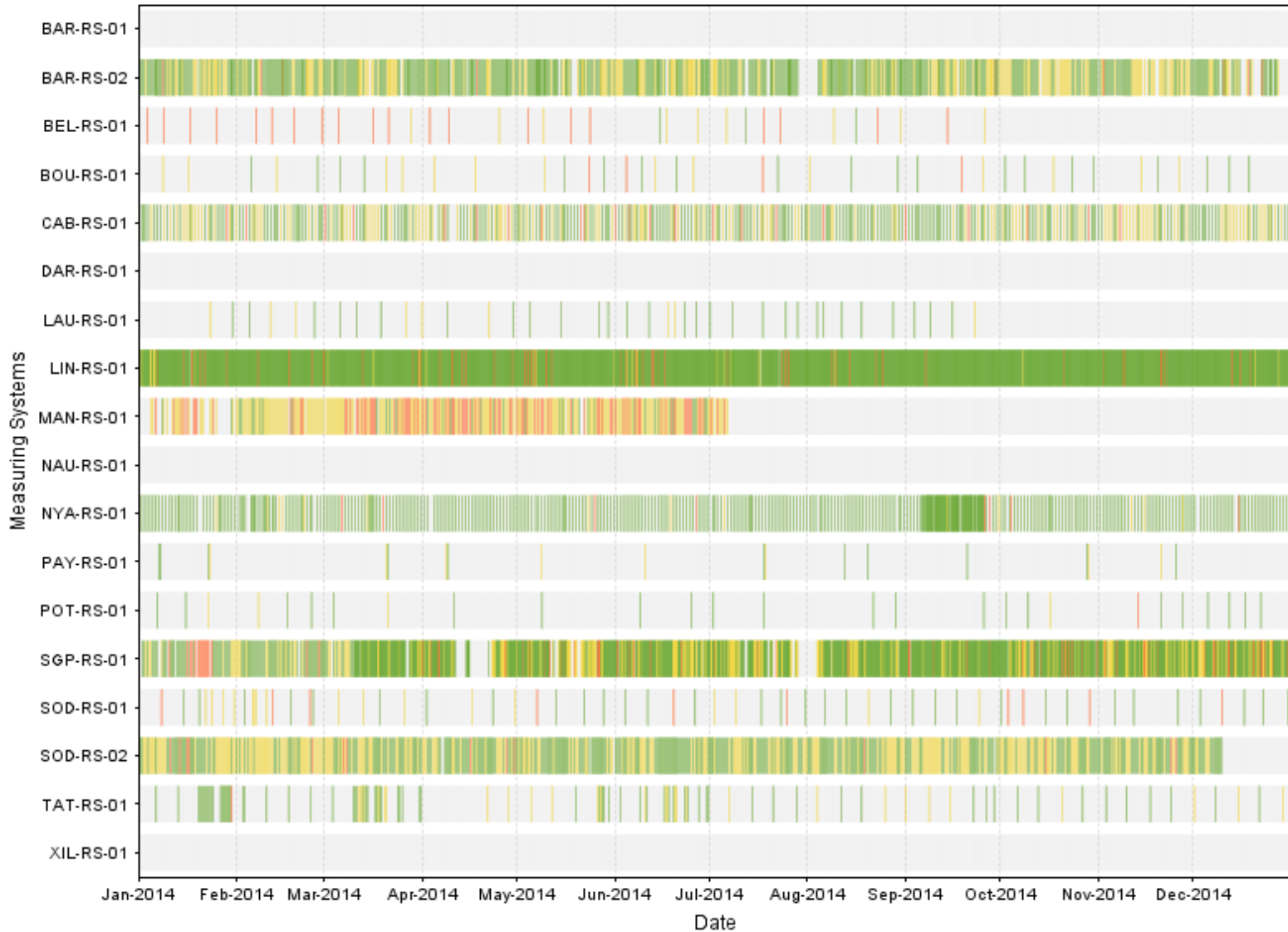
LC cooperation: La Reu



- RsLaunchClient
Running without problems
New version distributed to sites includes first stage quality checks
- Version 2 of GRUAN data processor for RS92. Version 3 in preparation. (presentation Monday afternoon)

Performance of GRUAN Data Product RS92-GDP v2

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- RS92 GRUAN data product paper published
- DOI number for GRUAN data: 10.5676/GRUAN/RS92-GDP.2
site-specific suffixes foreseen
- LC-funded cooperation with GFZ to develop GNSS data product (Start: March 2015)
- Data stream Beltsville & Payerne (SRS34) established

- Antón et al.: Validation of GOME-2/MetOp-A total water vapour column using reference radiosonde data from GRUAN network, doi: 10.5194/amtd-7-9573-2014
- Bodeker & Kremser: Techniques for analyses of trends in GRUAN data, doi:10.5194/amtd-7-11957-2014
- Dirksen et al.: Reference Quality Upper-Air Measurements: GRUAN data processing for the Vaisala RS92 radiosonde, doi:10.5194/amt-7-4463-2014
- Fasso et al.: Statistical modelling of collocation uncertainty in atmospheric thermodynamic profiles, doi:10.5194/amt-7-1803-2014
- Ignaccolo et al.: Modelling collocation uncertainty of 3d atmospheric profiles, doi:10.1007/s00477-014-0890-7, 2015
- Ladstädter et al.: Climate intercomparison of GPS radio occultation, RS90/92 radiosondes and GRUAN over 2002 to 2013, doi:10.5194/amtd-7-11735-2014

- GRUAN-GSICS-GNSSRO WIGOS Workshop, Geneva
- Meteorological Observation and Instrumentation, Westminster, CO
- MMC, Slovenia
- EMS, Prague
- GVAP workshop, Berlin

Vaisala radiosondes (Lead Centre)

Meisei radiosonde (Shimizu, Kizu)

Meteolabor Radiosonde (Philipona)

Modem Radiosonde (Haeffelin)

Frostpoint (Vömel)

GNSS (Lead Centre & GFZ)

Lidar (Leblanc)