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DWD Meteorological Observatory Lindenberg

ICM-5  
25 February 2013

- DWD offered to continue hosting the Lead Center past the initial 5 year period
- AOPC Meeting May 2012: Discussion of lead center status  
DWD offer was accepted

New site certified:

- Ny Alesund (AWIPEV)

Sites currently in the certification process:

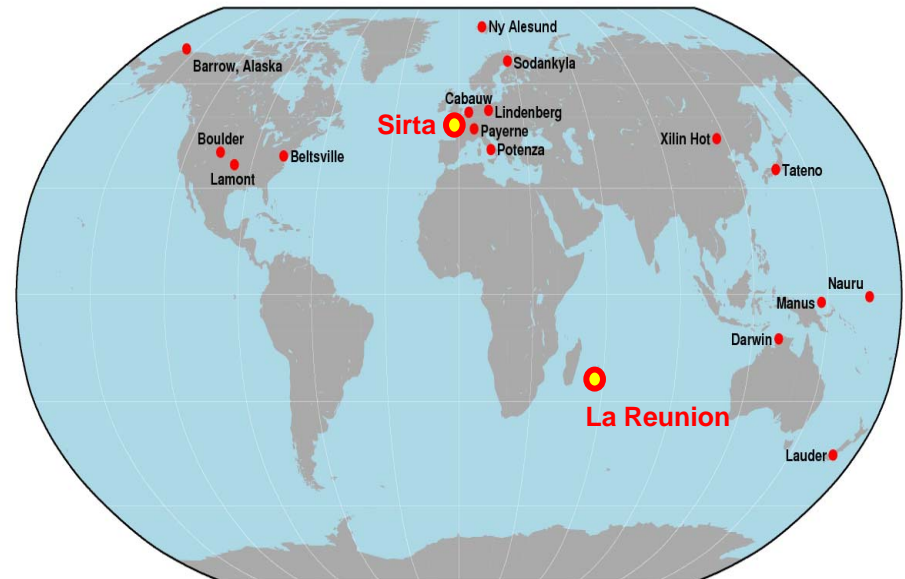
- Lindenberg (application completed)
- Cabauw (application pending)
- Lauder (application pending)

Certification procedures are being coordinated by the Lead Center

Presentation and discussion by Greg Bodeker (this afternoon)

## Candidate sites:

- Sirta and La Reunion (Martial Haeffelin)



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## Potential sites:

- Environment Canada  
Eureka, Alert, Sandy Lake
- Izaña (Tenerife)
- Chile ?
- Australia ?



## GRUAN Network Expansion Workshop

- 13-15 June 2012
- Hotel Kaiserhof Fürstenwalde

Presentation and discussion by Greg Bodeker

- 😊 Current lead center staff:  
Holger Vömel (lead), Michael Sommer (scientist), Ruud Dirksen (scientist), Marion Fiedler (administrative assistant)
- 😊 New member at the site Lindenberg: Peter Oelsner
- 😞 Reduced staff time due to parenting leave (Kids: 😊)
- 😞 Need to cover observatory tasks
- 😞 Development of GRUAN is limited by available resources

- Data are currently being received from 13 stations
- Over 22,000 soundings collected
- All RS92 data reprocessed (Version 2)
- Also collect raw data for Vaisala ozone soundings, frostpoint soundings and other instruments being launched in the context of GRUAN (no GRUAN data product yet)

See data status presentation and discussion by Michael Sommer (this afternoon)



Development of new GRUAN data products in progress

- Frostpoint observations (Vömel / Hurst)
- Other radiosondes (SRS, Chinese)
- Lidar (Leblanc)
- GPS integrated precipitable water vapor (Rannat)
- Ozone sondes

Discussions on Tuesday afternoon

- RSlaunch client  
Running without problems  
Continue to rely on feedback from users
- Monitoring tools are being developed to track data flow
- Lidar client is in development in cooperation with Task Team Ancillary Measurements  
Visit at Table Mountain Observatory in December 2012

- RS92 data for the campaign Dynamo / Cindy from ARM sites and Gan were processed.  
Support in the analysis of these data including a rigorous comparison of the operational processing versus the GRUAN processing  
Important lessons for GRUAN
- RS92 data and ECC data for the site at San Cristóbal, Galapagos are collected and processed  
Lessons for operations in tropical conditions  
(The site with its current level of support would not qualify for GRUAN)
- Evaluation of the Vaisala RR01 sensor
- Measurement of the SRS temperature sensor radiation correction

- GRUAN web page at [www.gruan.org](http://www.gruan.org)  
Static information about GRUAN and current activities

Web page is extremely successful and is being used  
(Please contact us, if you want GRUAN related material on our site)

- GRUAN blog at [gruan.wordpress.com](http://gruan.wordpress.com)  
Discussion forum for GRUAN related topics  
Public and private discussions possible  
Used frequently by GATNDOR

It's acceptance continues to be weak

- The published literature on GRUAN does not capture well what GRUAN is.  
Met-services have difficulties understanding what GRUAN wants and if it is something they should invest in.

- International Temperature Symposium (ITS-9): March 2012  
3 Presentations (Thorne, Vömel (presented by P. Thorne), Gardiner)
- 17-18 May 2012, 40th NOAA GMD climate monitoring conference Boulder  
(Presentation by Vömel)
- 13-15 June GRUAN Network Expansion Workshop
- 26-28 September 2012: Second workshop on the GEWEX water vapor assessment  
Participation by 7 GRUAN community members
- 16-18 October 2012: WMO Technical Conference on Meteorological and Environmental Instruments and Methods of Observation (TECO-2012)  
Brussels  
Keynote address by Vömel
- 15-19 October 2012: NDACC Steering Committee Meeting, Garmisch Partenkirchen, GRUAN represented by Thorne
- 15-16 November 2012: German National GCOS Meeting (Vömel, Berger)
- 3-7 December 2012: AGU Fall General Assembly  
Special session on water vapor in the upper troposphere and lower stratosphere (Convener: Thornberry, Vömel, Rollins), several GRUAN related presentations