

Outline



Certification Ceremony on Site

Keeping Quality with Changing Staff

Implementation of CFH

Cooperation with METEOMET Project

Radiosonde Intensive Campaign (Sept.2013)

Certification Ceremony on Site



2013: 10th anniversary of joint Franco-German station

official festivities in April included a GRUAN site certification ceremony

Certification Ceremony on Site



Certification Ceremony on Site



Keeping Quality with Changing Staff







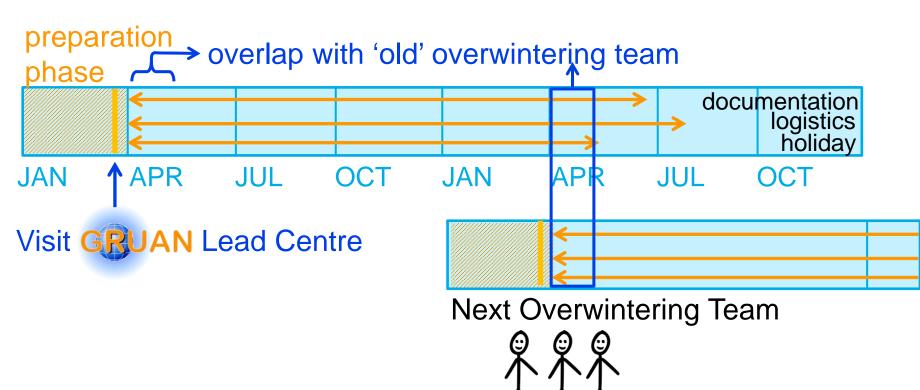
Remote Site

- no permanent inhabitants
- regular staff exchange

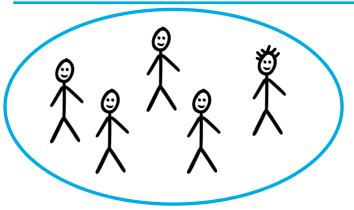
Keeping Quality with Changing Staff

Overwintering Team





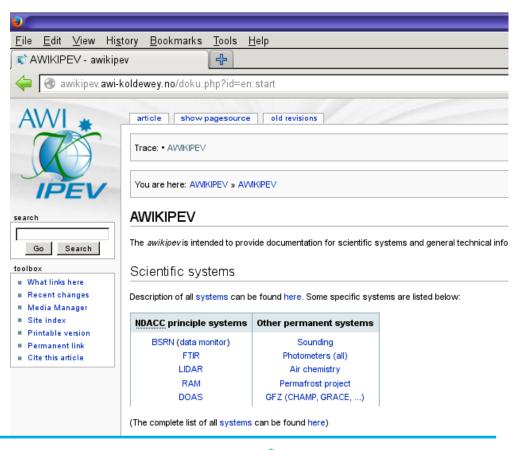
Keeping Quality with Changing Staff



Pool of permanent stuff

regular visits to the station

online documentation system "awikipev"





Implementation of CFH

→ Aug 2013 staff being trained at the GBUAN Lead Center

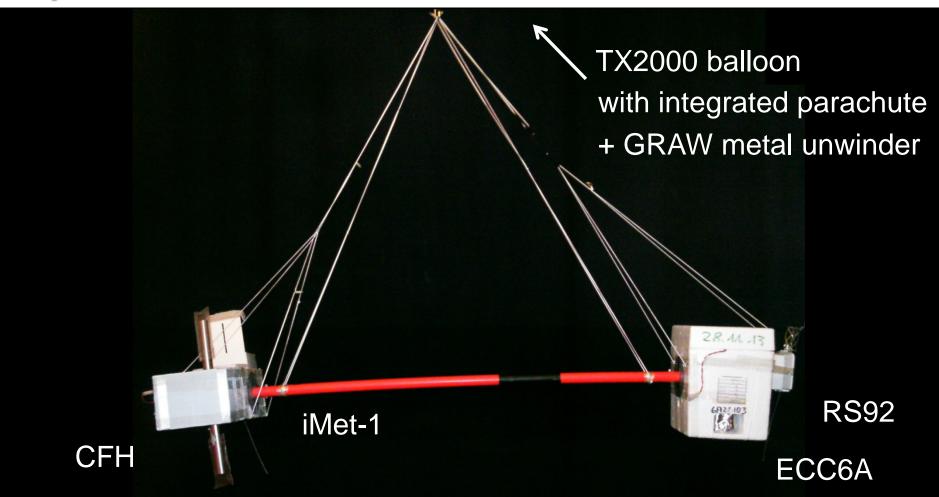
in Ny-Alesund:

Aug/Sept update of detection software, ground equipment

- 9 Sep 2013 first test launch; identification of problems on receiving site
- 4 Oct 2013 second test launch successful
 - solve logistic problems (cryogen)
 - optimize payload construction
 - document the standard procedure

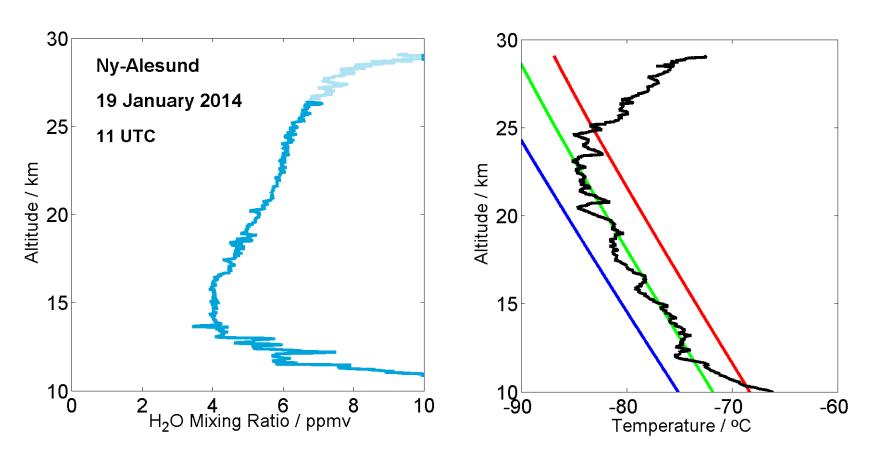


Implementation of CFH



Implementation of CFH

19 Jan 2014 first "regular" CFH launch



→ scheduled: 1 CFH launch every 2 months



Cooperation with Project METEOMET

Metrology for Meteorology

WP3: Traceable measurement methods and protocols for ground based meteorological observations

June 2014

calibration of met. sensors in Ny-Ålesund with the mobile calibration chamber developed in the frame of METEOMET

(Andrea Merlone + 2 people from INRiM)





Arctic Research Collaboration for Radiosonde Observing System Experiment (ARCROSE)

intensified radiosonde observations at 3 central Arctic cites (Ny-Ålesund, Tiksi, and the RV Mirai)





data assimilation
with the
Observing System Experiment
of the Earth Simulator













- better understanding of the Arctic atmospheric circulation
- enable improvement of both numerical weather prediction and reanalyses
- determine predictability and identify key sources of forecast errors in polar regions







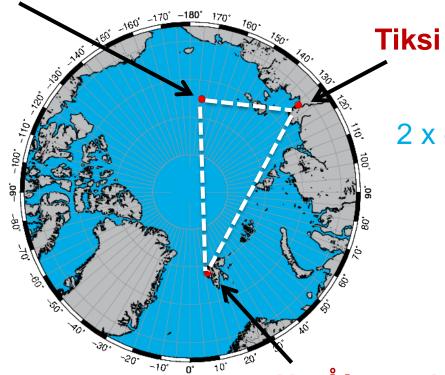




8 x daily radiosonde (00, 03, 06, 09,

12, 15, 18, 21 UTC)

RV Mirai



2 x daily radiosonde

2 x daily radiosonde (00 and 12 UTC)



September 2013

4 – 10

11 - 24

25 – 1 Oct

Ny-Alesund

6 x daily radiosonde

(00, 06, 09, 12, 15, and 18 UTC)

pre-campaign

core

post-campaig

campaign

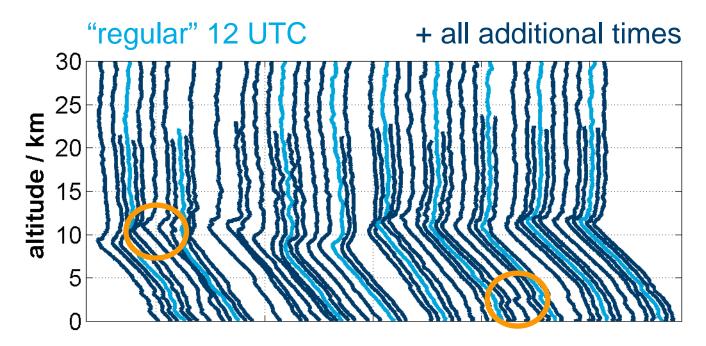


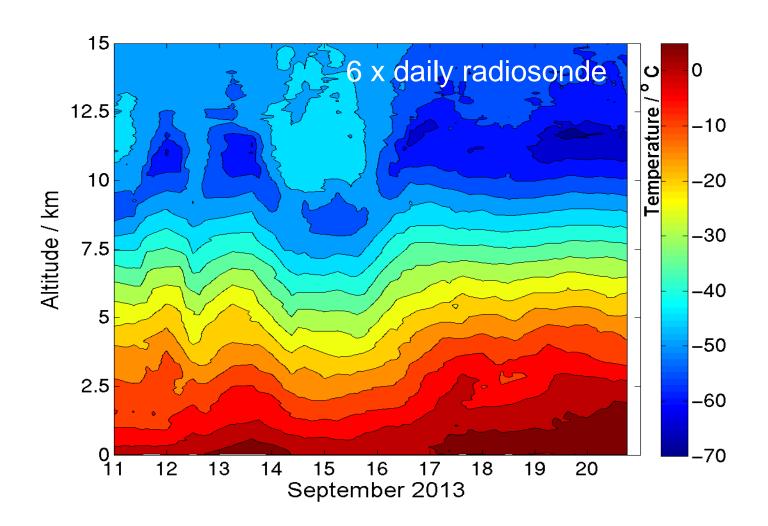






Structure of temperature profiles 11 – 20 September 2013





Summary

- → ARCROSE campaign optimum data set
 - for local process studies
 - for different GRUAN task team subjects



- GRUAN related activities at Ny-Ålesund continue
- some instruments are queuing to get involved to GRUAN (e.g. microwave radiometer, lidar)
- "ready for take-off" with ozone sondes, CFH, GNSS as soon as they become official GRUAN products



