



Royal Netherlands
Meteorological Institute
*Ministry of Infrastructure and the
Environment*

Site Report Cabauw (NL)

Arnoud Apituley

Martin de Graaf

Reinout Boers

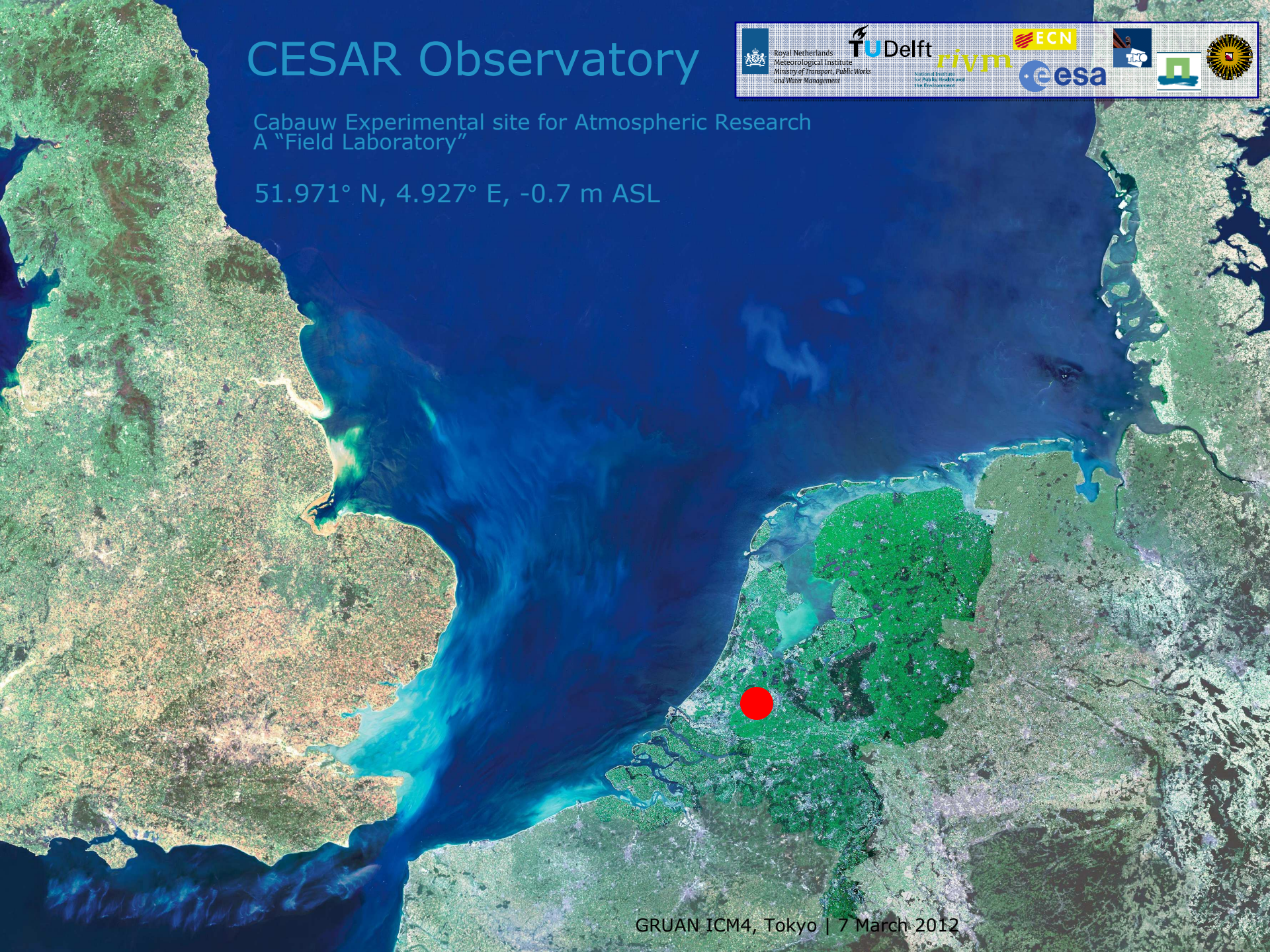
Siebre de Haan

Henk Klein Baltink

CESAR Observatory

Cabauw Experimental site for Atmospheric Research
A "Field Laboratory"

51.971° N, 4.927° E, -0.7 m ASL



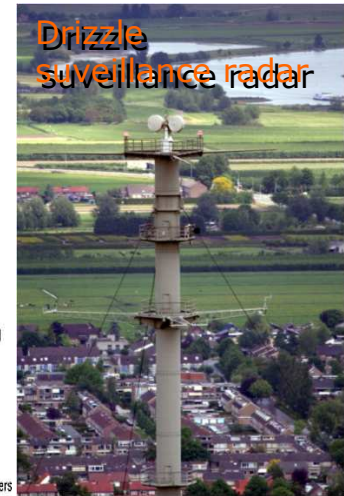
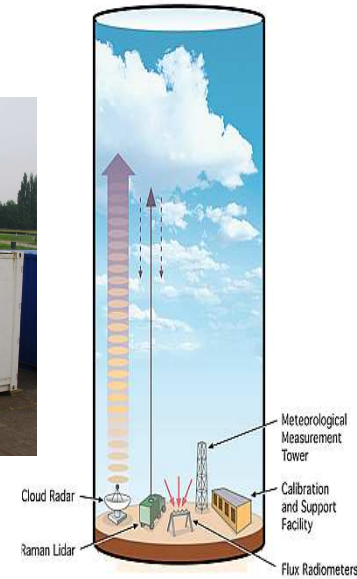
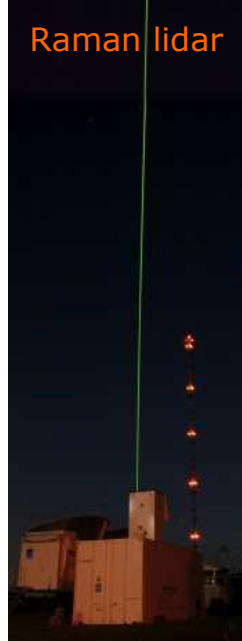
CESAR Observatory

Cabauw Experimental site for Atmospheric Research
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Status 2011/2012

Positions and involvement

- Martin de Graaf – TT6 site representative
changed position
- Arnoud Apituley – TT6 site representative
– Involvement TT5
– WG-ARO (Remote Sensing)
- Reinout Boers – Involvement TT3
- Siebren de Haan – GNSS
- Henk Klein Baltink – MWRnet

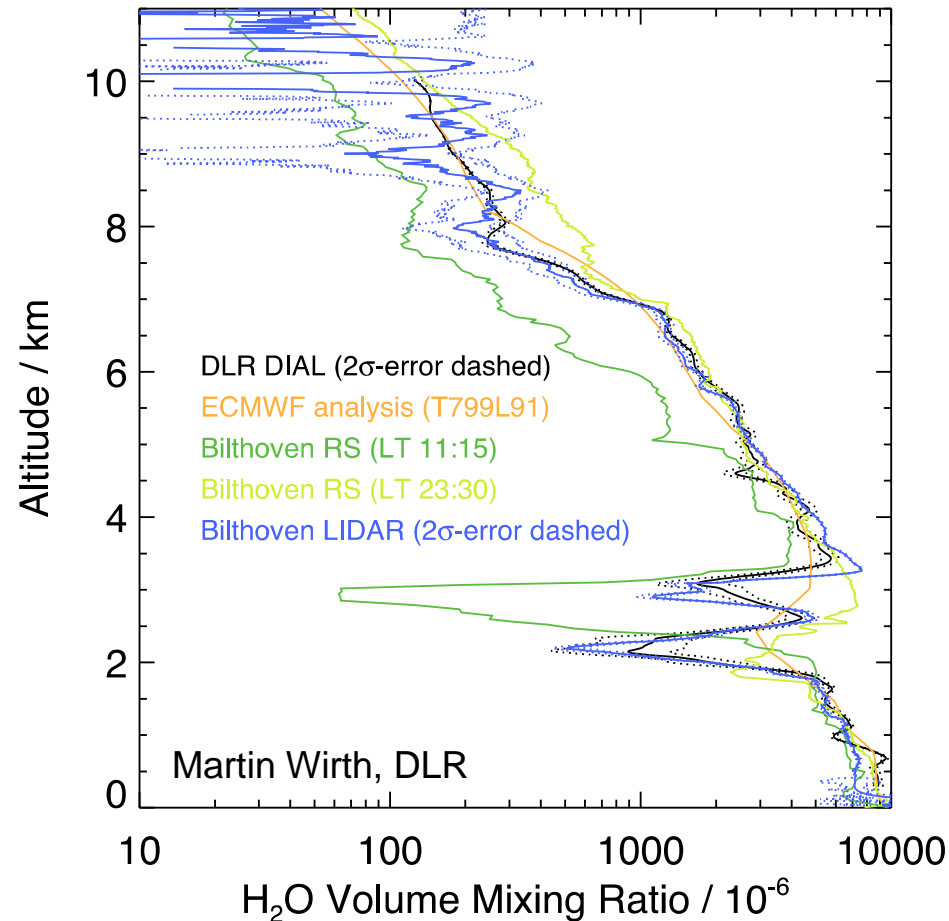




LUAMI – Flight 17 Oct. 2008

DLR WALES 17-10-2008

Lat: 52.142N Lon: 5.160E Time: 17:15:30 (UTC)



DIAL/Raman lidar intercomparison
Caeli integration time: 15 min.



Activities 2011

Steps towards fully operational GRUAN site - Cabauw:

- Operational data flow of standard Radio Sondes (12 and 00 UTC launches) to Lead Centre
- Raman lidar
 - WV observations
 - Concurrent aerosol profiling (EARLINET)
 - twice a week, weather permitting
- Continued effort for MW radiometer network
- Archiving all CESAR (=Cabauw) data in central data base.
 - This will facilitate future inclusion of more instruments in the data flow to LC
 - <http://www.cesar-observatory.nl>
- GNSS
 - Conversion to NetCDF format is done batch wise
 - CABAUW is super-site for EUMETNET - E GVAP
 - Reprocessing for climatology pending



Cabauw Experimental Site for Atmospheric Research

Developments

Next steps towards fully operational GRUAN site – Cabauw:

- Including scientific ozone sondes
 - De Bilt
 - Paramaribo (?)
- Including GPS data
- Raman lidar
 - Guidelines (see TT5)
 - Automation ongoing
 - Long term calibration (RS, GNSS, MWR and tower)
 - Pure rotational temperature profiling prototype ready, to be included in measurements during 2012-2013
- Reductions in Dutch government spending
 - Possible reduction of number of RS launches
 - Activities will become more dependent on external funding