



WMO/IOC/UNEP/ICSU
GLOBAL CLIMATE OBSERVING
SYSTEM (GCOS)

Doc. 5.5
(29.II.2012)

**4rd GRUAN Implementation-
Coordination Meeting (ICM-4)**

Tokyo, Japan
5 March – 9 March 2012

Session 5

Site Report Cabauw (NL)

*(Submitted by Arnoud Apituley, Martin de Graaf, Reinout Boers, Siebren de Haan,
Henk Klein Baltink)*

Summary and Purpose of Document

This document contains activities, developments in 2011/ 2012 and next steps towards fully operational GRUAN site – Cabauw.



Royal Netherlands
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*Ministry of Infrastructure and the
Environment*

Site Report Cabauw (NL)

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Siebren de Haan

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GRUAN ICM4, Tokyo | 7 March 2012



CESAR Observatory

Cabauw Experimental site for Atmospheric Research
A "Field Laboratory"

51.971° N, 4.927° E, -0.7 m ASL



CESAR Observatory

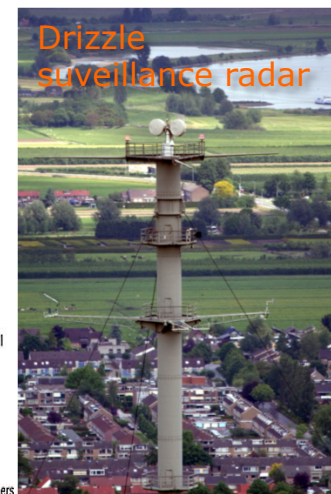
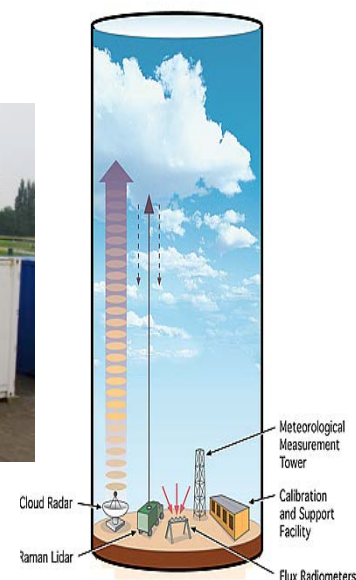
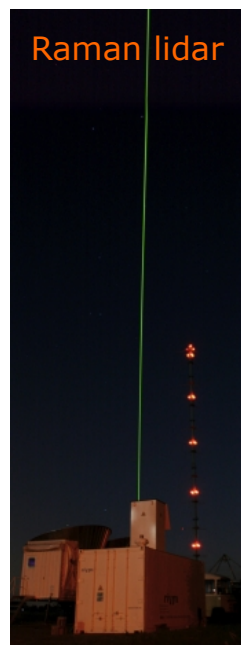
Cabauw Experimental site for Atmospheric Research
A "Field Laboratory"



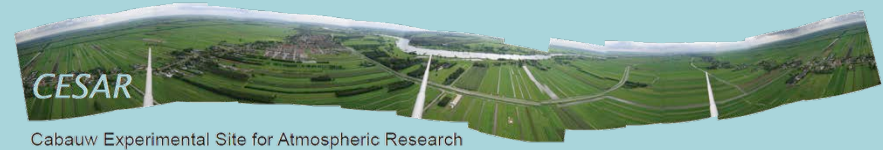
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Status 2011/2012

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



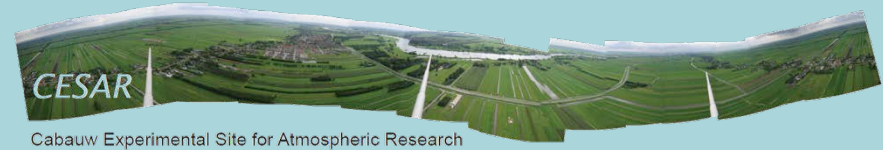


Cabauw Experimental Site for Atmospheric Research

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 with aerosol profiling
- 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.
- 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)
 - 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