

CLOUDNET DRAFT AGENDA – FOURTH WORKSHOP - 4-5 APRIL 2005.
Batiment Perrault, Observatoire de Paris,
MONDAY 4 APRIL - START 9 A.M.

- 9:00 **1. Welcome.** Anthony Illingworth
Apologies for absence. Adoption of Agenda. Actions arising from the minutes.
- 9-15 1.1 Update on requested extension. Deliverables, Final report requirements. Identification of breakthroughs. Draft Technology Implementation Plan. Final workshop in Lindenberg. (A. Illingworth).
- 10:00 1.2 Review of data base. New models and new sites joining CloudNET. Ewan O'Connor.
- 10:15 1.3 Discussion.
- 10:30 Break

2. Data gathering and observations.

- 11:00 2.1 Status of CloudNET observations at Chilbolton. – Charles Wrench.
2.2 Status of CloudNET observations at SIRTAs. - M Haeffelin.
2.3 Status of CloudNET observations at Cabauw. – Donovan.
Tara status and data base - Oleg Krasnov.

3. Retrieval algorithms.

- 11:20 3.1 Update on using ceilometer to constrain radiometer IWP retrievals. – Nicolas Gaussiat.
- 11:40 3.2 Lidar only algorithms (STRAT) for phase and optical depth. – Y Morille.
- 12:00 3.3 Comparing lidar/radar extinction inversions using Raman lidar. – Dave Donovan
- 12:20 3.4 Deriving lidar ice cloud extinction versus IWC - V Zadelhoff.

Lunch

- 13:30 3.4 RadON method and associated error analysis - Julien Delanoe.
- 14:00 3.5 Evaluation of IWC-Z and IWC-Z-T analyses (A. Protat).
- 14:20 3.6 Dual frequency observations. (Yann Dufournet)
- 14:40 3.7 Update on radar-lidar algorithm - Dominique Bouniol.
Discussion on recommended retrievals.

Break

4. Specification and instruments for the recommended Cloud Observing Station.

For basic agreed specification see 7.1 of Delft minutes.

- 15:30 4.1 FM-CW radar performance and cost - Charles Wrench.
- 15:50 4.2 FM-CW radar - M Haeffelin.
- 16:10 4.3 X-band cloud radars – L.Schlosser.
- 16:30 4.4 Low cost lidar systems. - Jacques Pelon,
- 16:50 4.5 Mini-lidar performance - Pierre Flamant.
- 17:10 4.6 Low cost radiometers - Charles Wrench.
- 17:30 Discussion.

Evening meal at local restaurant.

TUESDAY 5 April START 9.a.m

5. Comparison with models.

- 09:00 5.1 Radar lidar synergies and discrepancies with cloud-mask. M Haefelin.
09:20 5.2 Statistical analysis of the vertical cloud distribution. M Haeffelin.
09:40 5.3 Evaluation of the bias in the SIRTA observations from models A Protat.
10:00 5.4 Evaluation of operation models from radar/lidar combinations D Bouniol
10:20 5.5 Statistics of lwc in boundary layer clouds. – Ewan O’Connor.
10:40 5.6 Liquid water path variabilities. Damian Wilson.
- 10:50 Break
- 11:20 5.7 Uses of regime diagnostics in developing models Damian Wilson.
11:40 5.8 Filtering of IWC for rain and different regimes - Malcolm Brooks.
12:00 5.9 Initial results of a new ice particle size parameterisation in RACMO – v Zadelhoff.
12:20 5.10 Comparing observed profiles with radiative code. AP/UW/MH
12:40 5.11 Level Three products and statistics. Robin Hogan.

Lunch

6. Update on model developments.

- 14:00 6.1 ECMWF - Tompkins (written).
6.2 Met Office - Wilson
6.3 Meteo France - Piriou
6.4 KNMI - Hirlam/RACMO - Donovan
6.5 SMHI – Ulrika Willen.
6.6 DWD - Axel Seifert.

7 Wrap up Session

- 14:30 7.1 Review deliverables.
14:40 7.2 Breakthroughs - Identify for each group for final report.
14:50 7.3 Publications. – submitted and in progress.
15:00 7.4 Structure of final report. Status of work packages and deliverables.
WP2 Pilot Stations - CCRLC.
WP3 Develop Retrieval Algorithms - KNMI
WP4 Compare Data/Models -UR
WP5 Definition of instruments and algorithms for GCOS - KNMI.
16:00 Future work to be completed by the end of the project.
Structure of the Lindenberg ‘symposium’. Presentations/speakers.

EXPECTED PARTICIPANTS:

Univ of Reading: Illingworth, Hogan, O’Connor.
KNMI Donovan, van Zadelhoff.
TUD Russchenberg, Krasnov, Dufournet: Met Office – Brooks, Wilson, Gaussiat.
RCRU, RAL Wrench.
IPSL Bouniol, Protat, Haeffelin, Pelon, Delanoe, Flamant.
SMHI – Ulrika Willen. DWD – Axel Seifert
Piriou, (M-France) L. Schlosser (Gematronik). ? Degreane
Apologies: Ravila – (Vaisala), Tompkins (WCMWF).