

4th GEWEX cloud assessment meeting, 22-25 June 2010, Berlin

Harnack Haus

The most important goal for this meeting will be to provide a **comprehensive reference data set of cloud properties** for climate studies and model evaluation. The documentation in the WCRP report, to be finished by the end of 2010, has to state the strength and limitations of the individual data-sets and for what applications they are suitable.

Therefore, we ask kindly all participating team members to **investigate your results** in detail. This should include (1) comparisons to established references, (2) inter-comparisons to similar products by other sensors, and (3) sensitivity studies to address uncertainties to your product (how much do calibration, method, sampling and assumed ancillary data affect my results).

For the optimal preparation to this meeting we ask to **share your analysis methods** with other team members, so that analyses prepared by different members become comparable. Also make an effort to include in your analysis data-sets provided by other team-members (which are available to you via our web-link).

participating teams and representatives at the meeting:

ISCCP
PATMOS-x
TOVSB/AIRS-LMD
MODIS-ST
MODIS-CE
MISR
POLDER
CALIPSO
GOCCP
ATSR-GRAPE
HIRS-NOAA

Bill Rossow
Andy Heidinger, Andi Walther
Claudia Stubenrauch, Anthony Guignard
Steven Platnick, Brent Maddux
Sunny Sun-Mack, Yan Chen
Larry Di Girolamo
Jérôme Riedi
Dave Winker
Helene Chepfer, Gregory Cesana
Caroline Poulsen
Paul Menzel

Tuesday 22 June

- 8:30** **introduction**
- **welcome** + local organization *Stefan Kinne/ Jürgen Fischer*
 - **overall goals** *Bill Rossow*
 - **status of the cloud assessment** *Claudia Stubenrauch*
- topic 1 (cloud properties 1) cloud cover, cloud altitude, temperature**
- moderator Robert Pincus*
- 9:05 overview presentation**
- current status on topic 1 *Claudia Stubenrauch*
- 9:30 individual team presentations** (*algorithm details, own evaluations, 25 min each*)
- ISCCP** *Bill Rossow*
 - PATMOS-x** *Andy Heidinger*
- 10:30 coffee break
- 10:50 individual team presentations** (*algorithm details, own evaluations, 25 min each*)
- HIRS-NOAA** *Paul Menzel*
 - MODIS-ST** *Brent Maddux*
 - MODIS-CE** *Sunny Sun-Mack*
- 12:20 lunch at Harnackhaus
- 13:45 introduction** *Björn Stevens*
- 14:10 individual team presentations** (*algorithm details, own evaluations, 25 min each*)
- TOVS-B / AIRS-LMD** *Claudia Stubenrauch*
 - ATSR-GRAPE** *Caroline Poulsen*
 - MISR** *Larry Di Girolamo*
- 15:40 coffee break
- 16:00 overview presentation**
- new reference data: CALIPSO-CloudSat *Gerald Mace*
(*telecom conference*) *(Quiqing Zhang)*
- 16:30 individual team presentations** (*algorithm details, own evaluations, 25 min each*)
- POLDER** *Jérôme Riedi*
 - CALIPSO** *Dave Winker*
 - GOCCP** *Helene Chepfer*
- 18:00 ice breaker / poster session

Wednesday 23 June

8:30 summary of day 1/ discussions / recommendations on cloud properties 1

lead: Claudia Stubenrauch

9:30 coffee break

**topic 2 (cloud properties 2) VIS cloud opt.depth, IR cloud emissivity
and bulk microphysical cloud properties**

moderator: Björn Stevens

10:00 overview presentations

- optical depth, emissivity, eff. radius, path (water)

Ralf Bennartz

- optical depth, emissivity, eff. radius, path (ice)

Salomon Eliasson

(Brian Kahn)

11:00 individual team presentations (*algorithm details, own evaluations, 25 min each*)

ISCCP

Bill Rossow

PATMOS-x

Andi Walther

HIRS-NOAA

Paul Menzel

12:30 lunch at Harnackhaus

14:00 individual team presentations (*algorithm details, own evaluations, 25 min each*)

TOVS-B / AIRS-LMD

Anthony Guignard

MODIS-ST

Steven Platnick

MODIS-CE

Yan Chen

ATSR-GRAPE

Caroline Poulsen

16:00 coffee break

16:30 individual team presentations (*algorithm details, own evaluations, 25 min each*)

POLDER

Jérôme Riedi

CALIPSO

Dave Winker

18:00 dinner in a 'Biergarten'

Thursday, 24 June

8:30 summary of day 2/ discussions / recommendations on cloud properties 2
lead Stefan Kinne

9:30 coffee break

topic 3 (cloud impact) influence of cloud properties on radiation

moderator Ehrhard Raschke

10:00 assessment presentations:

- cloud thickness and multilayer clouds *Bill Rossow (Yuan Zhang)*
- use of cloud properties in flux computation *Stefan Kinne*
- GEWEX flux assessment *Laura Hinkelman*

11:30 discussions

topic 4 (data user aspects) climatological data applications

moderator Irina Sandu

11:45 user presentations:

- cloud representation in global models *Johannes Quaas*
- applications and needs in terms of evaluation of clouds / aerosols in climate models *Ulrike Lohmann*

12:45 lunch at Harnackhaus

topic 5 (climate applications) long-term variability

moderator B. J. Sohn

14:00 overview from netcdf files *Claudia Stubenrauch*

14:20 sampling effects *Bill Rossow*

discussion

15:10 overview presentation: ESA CCI *Bojan Bojkov*

15:30 coffee break

topic 6 complementary data-sets

16:00 Climate user requirements *Bruce Wielicki (telecom)*

16:30 – 18:00 discussions and working groups for report

> 18:00 museum night

Friday, 25 June

topic 6 complementary data-sets

moderator Rainer Hollmann

8:30 **individual team presentations** (*algorithm summary, first results, 15 min each*)

SCIAMACHY

Alex Kokhanovsky

GOME

Piet Stamnes

MERIS

Jürgen Fischer

SEVIRI (EUMETSAT)

Rob Roebeling

9:30 coffee break

10:00 summary talk for topics (1) and recommendation

12:30 lunch at Harnackhaus

14:00 summary talk for topics (2) and recommendation

15:00 coffee break

15:30 definition of tasks for finishing the WCRP report until end of 2010

Stefan Kinne & Claudia Stubenrauch, Bill Rossow

17:00 Adjourn