

GEWEX cloud assessment meeting 21-23 July 2008, New York

City College of New York, Convent Av., Steinman Hall Exhibit Room

Topics concept for the meeting:

each TOPIC starts with a summary presentation followed by background information from individual teams and a moderated panel discussion on actions and recommendation.

Team presentations: algorithm description, ancillary data, sampling, evaluation (also with CALIPSO/CloudSat)

participating teams and representatives at meeting:

ISCCP	Bill Rossow
HIRS-NOAA	Don Wylie
TOVSB / AIRS-LMD	Claudia Stubenrauch
PATMOS-x	Andy Heidinger, Andi Walther
MODIS-ST	Steve Ackerman, Steven Platnick
MODIS-CE	Pat Minnis
CALIPSO	Dave Winker
AIRS-L2	Brian Kahn
POLDER	Jerome Riedi
MISR	Larry DiGirolamo
ATSR2	Caroline Poulsen

Monday 21 July

8:00 coffee & bagels

8:20 introduction

welcome local organization

8:30 Overall goals *Bill Rossow*

- assessment of ISCCP and other available global cloud data sets
- uncertainty, bias and variability issues
- understanding differences (algorithm, sampling)
- standards for ancillary data
- strategies for reanalysis

8:45 Topics concept *Stefan Kinne*

moderator Steve Ackerman

8:50 Motivation a user perspective (climate modeling) *Tony DelGenio*

TOPIC 1 basic cloud properties (CP) 1 (total, high-, mid- and low-level)
(regional averages, seasonality, regional-, diurnal- interannual- variability)

9:20 Summary presentation (cloud properties 1)

cloud cover, altitude, temperature *Claudia Stubenrauch*

team presentations on retrieval, sampling and evaluation:

algorithm description and evaluation of basic cloud properties 1 + 2

9:50 CP- ISCCP

Bill Rossow

10:15 CP- HIRS-NOAA

Don Wylie

10:40 *break*

11:00 CP- TOVSB/AIRS (LMD)

Claudia Stubenrauch

11:25 CP- PATMOS-X

Andy Heidinger

11:50 CP- MODIS-ST

Steve Ackerman

12:15 CP- MODIS-CE

Pat Minnis

12:40 *lunch*

14:00 CP- CALIPSO

Dave Winker

14:25 CP- CLOUDSAT/CALIPSO

Ken Sassen

14:35 CP- POLDER

Jerome Riedi

15:00 CP- MISR

Larry DiGirolamo

15:25 CP- ATSR2

Caroline Poulsen

TOPIC 2 basic cloud properties 2 (total, high-, mid- and low-level)
(regional averages, seasonality, regional-, diurnal- interannual- variability)

moderator

Roger Davies

15:50 Summary presentation (cloud properties 2)

optical depth, emissivity / solar transmission

Stefan Kinne

16:20 *coffee*

16:40 discussion on basic cloud properties 1 + 2

TOPIC 3 bulk microphysical properties (total, high-, mid- and low-level)
(regional averages, seasonality, regional-, diurnal- interannual- variability)

moderator

Larry DiGirolamo

17:10 review / summary presentation

Summary presentation (Water droplet)

Jerome Riedi

reception

Tuesday 22 July

8:30

TOPIC 3 bulk microphysical properties (MP) (total, high-, mid- and low-level)
(regional averages, seasonality, regional-, diurnal- interannual- variability)

moderator

Laura Hinkelman

review / summary presentations

8:30 Summary presentation (liquid/ice water path) *Chris O'Dell*

9:00 Summary presentation (Ice crystal size)

Brian Kahn

9:30

team presentations on retrieval, data sampling and evaluation:

algorithm description and evaluation of bulk microphysical properties

9:30 MP-ISCCP

Bill Rossow

10:00 MP-TOVS-B

Claudia Stubenrauch

10:25 *break*

10:55 MP-PATMOSX

Andi Walther

11:25 MP-MODIS-ST

Steven Platnick

11:55 MP-MODIS-CE

Pat Minnis

12:25 *lunch*

14:00 **discussion on bulk microphysical properties**

14:20

TOPIC 4 long-term variabilities (total, high-, mid- and low-level)
(global, regional, seasonal trends)

Long-term variabilities-introduction

Andreas Macke

summary presentations:

14:30 Climate monitoring

Bill Rossow

15:00 Ancillary data artefacts

Ehrhard Raschke

team presentations on evaluation

15:30 Long-term variabilities - MISR

Roger Davies

15:45 **discussions + coffee**

16:15

Topic 5 new insights from CALIPSO/ CLOUDSAT

moderator

Ken Sassen

presentations:

16:15 Cloud overlap issues

Howard Barker

16:45 Cloud overlap and multilayer clouds

Jay Mace

17:15 Mixed phase clouds

Zhien Wang

17:30 discussion

dinner

Wednesday, 23 July

8:30

***Strategy for improved retrieval of cloud properties
Synergy of different instruments, satellites and methods
Use of ancillary data: temperature profiles, etc.
for understanding atmospheric processes,
for evaluation of climate models, for climate monitoring ?
moderator***

Dave Winker

9:00

***Topic 7 Final discussion of the meeting 2008
Claudia Stubenrauch, Stefan Kinne, Bill Rossow + participants***

12:00 Adjourn