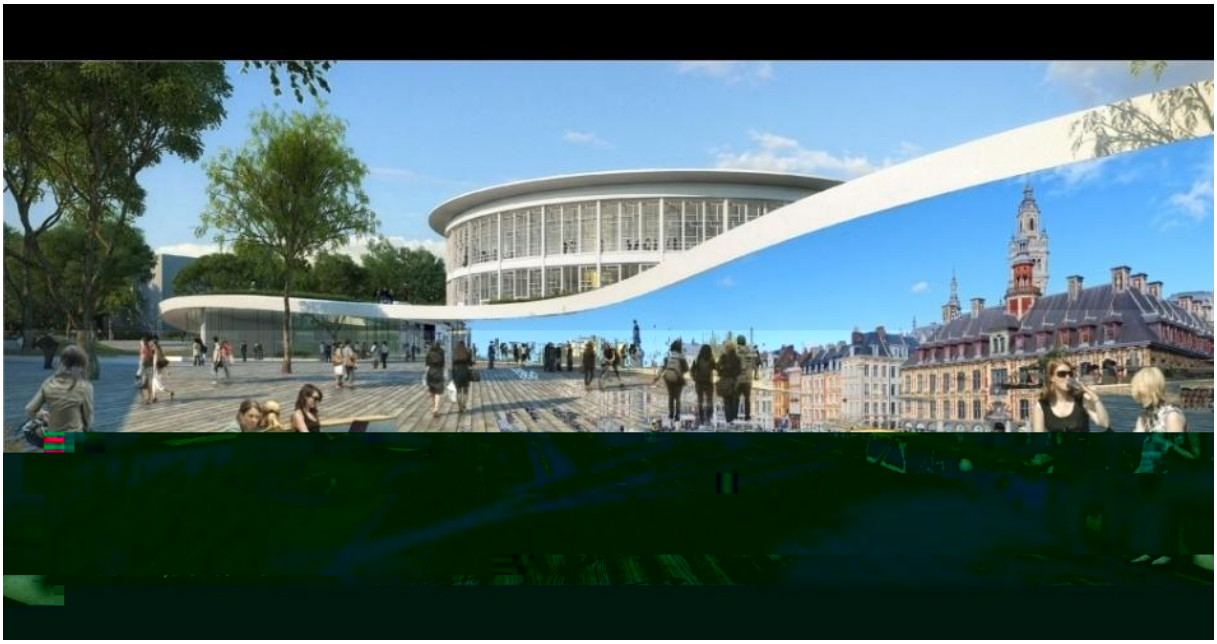
Second Announcement ICWG-1

1st Workshop
CGMS International Cloud Working Group



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17-20 May 2016, Lille, France, Europe

Organized by Université de Lille 1 - Sciences & Technologies, France
Financially supported by EUMETSAT, CNES and Université of Lille

Program Committee

Bryan Baum (co-chair), Rob Roebeling (co-chair), Dong Wu (Rapporteur), and Jerome Riedi (local organizer)

CGMS Advisory Panel

Bryan Baum (NASA, USA), Stefan Bojinski (WMO, Switzerland), Sung-Rae Chung (KMA Korea), Lu Feng (CMA, China), Andrew Heidinger (NOAA, USA), N. Puviarasan (IMD, India), Rob Roebeling (EUMETSAT, Germany), Alexei Rublev (Roshydromet, Russia), and Daisaku Uesawa (JMA, Japan)

EUMETSAT

Université de Lille 1 SCIENCES ET TECHNOLOGIES

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1st Workshop
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17-20 May 2016, Lille, France

From 17 20 May 2016 the 1st Workshop of the International Cloud Working Group (ICWG) will be held in Lille, France. This workshop is being hosted at the Université de Lille. The goals of the workshop are to assess and enhance cloud retrieval schemes, extend their applicability in complex situations, and better characterize their validity. We invite experts working with cloud parameter retrieval schemes from passive imagers (e.g. METEOSAT, AVHRR and MODIS), passive microwave (e.g. AMSR), and active lidar/radar observations (e.g. CloudSat, CALIPSO) to participate in the workshop and to contribute to the cloud parameter inter-comparison and validation activities. More information on registration and abstract submittal are provided in this announcement note the dates for abstract submittal and registration.

Background

The 1st Workshop of the International Cloud Working Group (ICWG) within the Coordinated Group for Meteorological Satellites (CGMS) is a continuation of four earlier workshops that we organized under the name of Cloud Retrieval Evaluation Workshops (CREWs). The four earlier Workshops were held in Grainau, Germany (2014), Norrköping, Sweden (2006), Locarno, Swiss (2009), and Madison, Wisconsin USA (2011). At these workshops, algorithms for cloud parameter retrievals were discussed, and results from these algorithms were compared for a set of golden scenes. As with the previous workshops, a common database will be prepared with cloud parameter retrievals from different product providers. This database comprises cloud parameter retrievals from MSG, MODIS, AVHRR, POLDER and or AIRS for a number of “golden days”. An integral part of the CREW workshops is the discussion on inter-comparison and validation studies performed with the data from the common database. In this way knowledge is gained on the behavior of the different retrieval schemes over different cloud conditions.

The main recommendations of the CREW in Grainau, Germany were to:

- Improve cloud models used in retrievals to more accurately reflect reality, in particular ice crystal models, vertical in-homogeneity and multiple layers;
- Explore the potential of combining different types of observations in level-2 cloud retrievals methods;
- Explore the definition of a set of essential filtering rules in level-3 aggregation methods for different cloud parameters;
- Work towards the characterisation of uncertainties in level-2 and level-3 products;
- Explore production of multi-algorithm ensembles to assess uncertainty/sensitivity;
- Explore the production of long-term datasets aimed at stability and accurate assessment of product strengths and weaknesses;
- Use of common ancillary data and validation procedures for level-2 and level-3 data;
- Establish topical groups to make progress on a variety of outstanding issues, for example multi-layered clouds, severe weather applications, and aggregation methods.

1st Workshop of the ICWG

In the framework of the ICWG, the Topical Groups provide the focus necessary for addressing the recommendations and key research topics identified at the biennial Workshops of the ICWG. These Topical Groups work in collaboration, under the coordination from a lead, on these recommendations and research topics. The Topical Group leads will present their results, discuss the focal points to be addressed at the next biennial meeting in breakout sessions, and report on these focal points at the plenary final discussion. At the last CREW Workshop (CREW-4) a preliminary list was drafted of Topical Groups and proposed leads. For the ICWG-1, the leads of the Topical Groups have confirmed their involvement to date with the following list (Topic and name of Lead):

- Use of Combined Sensors for Cloud Retrievals (*Bryan Baum*)
- Cloud Modeling (*Phil Watts*)
- Cloud Height for Wind Applications (Andrew Heidinger)
- Cloud Retrievals over Snow and Ice Surface (*Andy Walther*)
- Severe Weather Applications (*Mike Pavalonis*)
- Validation Sources (*Patrick Minnis*)
- Assessment of level-2 Passive Imager Cloud Parameter Retrievals (*Yong-Sang Choi*)
- Assessment of Retrieval Uncertainties (*Caroline Poulsen*)
- Aggregation Methods for Climate Applications (*Nadia Smith*)
- Assessment of Cloud Parameter Data Records for Climate Studies (*Martin Stengel*)

More details on the plans of the Topical groups can be found on the ICWG Wiki at http://www.icare.univ-lille1.fr/crew. Participants of the 1st Workshop of the ICWG are encouraged to contribute to at least one (and hopefully more) of the Topical Groups before the next Workshop.

Workshop Topics

The workshop will cover a wide range of topics concerning cloud parameter retrievals, their current and potential applications and related issues. The primarily focus will be on the topics that are addressed by the Topical Groups as these cover some of the most active research questions in our community. We propose that key issues for this meeting include:

- *Cloud Modeling*
  (radiative transfer, cloud microphysics, etc)
- *Retrievals Methods*
  (new methods, combined sensors retrievals, uncertainty estimates, etc)
- *Cloud Parameter Assessments*
  (inter-comparisons, validation, uncertainty assessments, etc)
- *Climate Applications*
  (model evaluation, trend analysis, ensemble products, aggregation methods, etc)
- *Weather Applications*
  (nowcasting, extreme weather, aviation, derived products (wind, precipitation) etc)
- *Links to other CGMS working groups*
  (Int. Winds WG (IWWG), Int. Precipitation WG (IPWG), Int. TOVS WG (ITWG) etc)

Submission of Abstracts

If you wish to give an oral or poster presentation at ICWG-1, **please provide your abstract before the 15 February 2016 deadline**, and indicate whether you would prefer an oral or poster presentation. As the participation tends to increase with every workshop, participants will be allowed at most one oral presentation. We will also have a poster session and the posters will be on display throughout the workshop. We will work to continue improving the effectiveness of the poster presentations and participation. We aim to publish a draft program by March 2016.

Reports from other CGMS working groups about the status of their activities and their relationship to the ICWG will be covered through dedicated oral presentations given by the representatives of these CGMS working groups.

After the workshop, an electronic copy of the Working Group Report and Proceedings will be published on the internet. Your oral and poster presentations, submitted to us in electronic form, will be made viewable on the ICWG web site as pdf files after the workshop.

Registration

Registration to the workshop will be accessible starting early January 2016 from the workshop website. Participants are asked to register and pay online before 22nd April 2016 in order to ease organization of lunches during the workshop.

http://www-loa.univ-lille1.fr/workshops/ICWG2016/

Workshop Venue and Accommodation

Detailed information on the workshop venue and accommodation will be posted on the workshop website by end of December 2015. The workshop will be help on the campus of 8QLYHUVLW\ RI /LOOH LQ 9LOOHQHXYH G¶$VFT ZKLFK LV H downtown. Participants will have a choice between 3 lodging solutions:

- Individual booking of downtown Lille hotels : no special prices will be available ±Lille1 Campus is accessible by metro Line 1 and is within 12 min from the train stations Gare Lille Flandres or Gare Lille Europe (international train station connecting to major cities and Charles de Gaulle Airport)
- Block of rooms will be accessible at a special rate at the Park Inn hotel located within walking distance of the University Campus and workshop venue (~5min) and situated next to the Lille Stadium: http://www.parkinn.fr/hotel-lille - More information on special rate will be posted on the workshop website early January.
- The international residence REEFLEX of the University of Lille (on Campus) will also have some availability of studio and small apartments at standard rates for those travelling with family and children. The residence is conveniently located on the campus and also within walking distance of a large shopping mall. Participants are advised to make reservation directly with the residence as soon as possible as availability are limited : http://reeflex.univ-lille.fr/home/Researcher/Rates-and-Reservations

Travel to Lille, France

Detailed information on how to access Lille and University of Lille campus will be posted on the workshop website by end of December.

Lille can be easily accessed by train from many major European cities and is directly connected by high speed train to the Charles de Gaulle ±Paris international airport. We strongly advise non European travellers to fly into Paris CDG airport and take the TGV from the airport (station located below the airport main terminal) to Lille (<1h train connection).

Once in Lille you can easily access the Lille 1 University Campus by metro. From Lille downtown take Line 1 WRZDUG ³4 Cantons´ and stop at station Cité Scientifique ±Pr Gabillard Grand Stade (~12 min from Gare Lille Flandres train/metro station).

Mailing List

It is important to keep the ICWG mailing list up-to-date. It would help us greatly in keeping our mailing list up-to-date if you could notify us, without delay, of any changes.

Important Dates

- 15 February 2016: Deadline for abstracts submission
- 25 March 2016: Draft Program
- 15 April 2016: Deadline Hotel Room reservation at the Park Inn
- 15 April 2016: Deadline for early-registration fee of ½200, -
- 22 April 2016: Final Program
- 7 May 2016: Deadline for late-registration fee ½250,-
- 17-20 May 2016: ICWG-1:

The on-site registration fee will be ½300,- collected by credit card using the on-line payment form at an on-site computer. There will be no cash option.

Further Information

CGMS Advisory Panel

Bryan Baum (representing NASA, USA); Stefan Bojinski (WMO, Switzerland); Sung-Rae Chung (KMA Korea); Lu Feng (CMA, China); Andrew Heidinger (NOAA, USA); N. Puviarasan (IMD, India); Rob Roebeling (EUMETSAT, Germany); Alexei Rublev (Roshydromet, Russia); Daisaku Uesawa (JMA, Japan)

Co-Chairs:

Bryan Baum, Univ. of Wisconsin-Madison: bryan.baum@ssec.wisc.edu
Rob Roebeling, EUMETSAT: rob.roebeling@eumetsat.int

Rapporteur to CGMS:

Wu Dong, NASA: dong.l.wu@nasa.gov

Local organization:

Jérôme Riedi, Université de Lille 1 - Sciences & Technologies: jerome.riedi@univ-lille1.fr

Location:

Place: University of Lille 1, Villeneuve-d-Ascq / Lille - France, 17-20 May 2016

Leads of the Topical Groups:

- *Use of Combined Sensors for Cloud Retrievals*
  (Bryan Baum: bryan.baum@ssec.wisc.edu)
- *Cloud Modeling*
  (Phil Watts: Philip.Watts@eumetsat.int)
- *Cloud Height for Wind Applications*
  *(*Andrew Heidinger: heidinger@ssec.wisc.edu)
- *Cloud Retrievals over Snow and Ice Surface*
  *(*Andi Walther: andi.walther@ssec.wisc.edu)
- *Severe Weather Applications*
  (Mike Pavalonis: michael.pavolonis@noaa.gov)
- *Validation Sources*
  (Patrick Minnis: p.minnis@nasa.gov)
- *Assessment of level-2 Passive Imager Cloud Parameter Retrievals*
  (Yong-Sang Choi: ysc@ewha.ac.kr)
- *Assessment of Retrieval Uncertainties*
  (Caroline Poulsen: caroline.poulsen@stfc.ac.uk)
- *Aggregation Methods for Climate Applications*
  (Nadia Smith: nadia.smith@ssec.wisc.edu)
- *Assessment of Cloud Parameter Data Records for Climate Studies*
  (Martin Stengel: martin.stengel@dwd.de)

Access to the Common Database

Now, a dedicated FTP space is available for the ICWG on the ftp server of the Université de Lille 1 - Sciences & Technologies
ftp://ftpush.icare.univ-lille1.fr/
(thanks to Jerome Riedi, ICAR (D Q G W K H ³ 8 Q L Y H U V L W p G H V / L O O H 7 H F K Q R O R J L H

To be able to use the ftp site, you have to register on ICARE through the following form:
http://www.icare.univ-lille1.fr/register/register.php

When asked for a *“short description of your project”*, please fill:
Account request for the Cloud Retrieval Evaluation Workshop (CREW)

Once registered, you automatically become a member of the ***CREW Working Group,*** which gives you ftp access to the following hidden directory:
ftp://ftpush.icare.univ-lille1.fr/crew

This directory is available to the group only and it is hidden so it won't show up on ***'ls'*** but you can directly go to the folder with:
cd /crew

If you like upload your algorithm description and/or updated/extended your dataset, please use the upload folder for your algorithm:
/crew/upload/<Algorithm-Acronym>

The Algorithm-Acronyms are listed on the following webpage:
http://www.icare.univ-lille1.fr/crew/index.php/Evaluation_Dataset_for_Passive_Imager_Retrievals

For questions and comments related to access and use of the FTP site, the website, and the ICARE resources please send an email to Jerome Riedi:
(jerome.riedi@univ-lille1.fr).

For other ICARE services and resources please check the ICARE website:

http://www.icare.univ-lille1.fr/