

**Recommendations and Actions from the 2nd Convection Working Group Meeting
Landshut, 8 to 10 October 2009**

Actions

Action 1

All CWG members: Find out about national availability of radar data and report back to CWG before the next CWG meeting in Spain 2010.

Action 2

All CWG members: Find out about national availability of lightning data and report back to CWG before the next CWG meeting in Spain 2010.

Action 3

Romania will collaborate to validate the CI product by making their radar data available and report back to CWG before next CWG meeting in Spain 2010.

Action 4

Turkey, Poland, Romania, Croatia, Germany and Slovenia to look at the possibility to share archived radar data for the purpose of CI validation and to report to John Mecikalski by the end of November 2009.

UPDATE: Due to data policy IMGW (Poland) is not allowed to share radar data outside the institute. (Personal Comment: Monika Pajek (IMGW) on 19.10.2009). It will however be investigated if limited radardata can be shared. The outcome of this will be reported accordingly in reference to action 3 and 4.

Action 5

NWC-SAF to assess the possibility to use the A-train satellite for the validation of the NWC-SAF cloud products.

Action 6

Jarno Schipper to identify a case with a wrong PV anomaly diagnosis (ECMWF vs. satellite!) and show the benefit of the conceptual model that was developed by Christo Georgiev and Patrick Santurette to illustrate the additional information provided by the satellite data (Satreponline will be used to select the case).

Action 7

Jarno Schipper to provide the URL of an FTP server for the 25 May 2009 case study data collection.

Action 8

All CWG members: Information on new publications or articles in press to be provided to the secretary of CWG (Jarno Schipper). If possible, an abstract and link to the publication should be put on the website and CWG should be informed accordingly.

Action 9

All CWG members: Provide examples of convective cases to Pilar Fernandez to support the NWC SAF topical image gallery. This will help to illustrate the usefulness of all products.

Action 10

Jarno Schipper and Kris Bedka to make the schematic diagram of convection activities available on the CWG website.

Action 11

Jarno Schipper and Jan Kanak to create a list and description of available software and visualization tools that are relevant for convection nowcasting. Provide a link on the CWG website for download. The members of the group are invited to provide additional information on this.

Action 12

EUMETSAT to investigate on the requirements for visualization and analysis software tools for the CWG group as community tools (e.g. T-Reff plots and CI) and to report back within the next 6 months.

Action 13

Jarno Schipper to include the official definition of severe storms on the CWG website.

Action 14

Jarno Schipper to place a link to the metoam.it FTP server on the CWG website which will allow retrieving the data of last three days of NEFODINA.

Action 15

Jarno Schipper to provide separate mailing lists for discussions on the pre-convective environment, the convective initiation and the mature phase. Discussions in these mailing lists should be visible from the CWG website.

Action 16

Jarno Schipper to categorize the documentation section of the CWG website.

Action 17

All CWG members to use the available wiki interface of the CWG website for further documentation and case studies. This holds especially for the 'best practice' document of John Mecikalski.

Action 18

Jarno Schipper to convene a virtual meeting of CWG within the next 12 months.

Action 19

All CWG members to provide feedback to Jarno Schipper on the need for inclusion of the CI product in Satreponline.

Action 20

Jarno Schipper to investigate on the possibility for sorting the convection documentation and case study pages on the CWG web site by date.

Action 21

Jarno Schipper and Nikolai Dotzek to add the ESSL Logo to the CWG website.

Recommendations

Recommendation 1

All radar operators to store the original volume radar data together with the available lightning and satellite data to enable reprocessing and research. If possible, radar data should be stored every 5 minutes.

Recommendation 2

The NWC-SAF to use the A-train satellites (E.g. Calipso) for validation of cloud products, e.g. cloud phase as opposed to LIDAR from surface. Points of Contact are Kris Bedka (NASA), Marianne Koenig (EUMETSAT).

Recommendation 3

High resolution moisture and temperature profiles from aircrafts (AMDAR) should be made available.

Recommendation 4

EUMETSAT to make the global GII product available on a 3 x 3 pixels resolution for dissemination via EumetCast. In case the RII product can be provided as a 1 x 1 pixel GII product, the current small area of RII is considered to be obsolete.

Recommendation 5

CWG members to use as far as possible physical methods to enhance understanding of convective processes.

Recommendation 6

Satellite, radar and all other data for 25 May 2009 should be made available to all CWG members on an FTP server for a comprehensive case study database.

Recommendation 7

CWG to identify (based on the working diagram provided by Kris Bedka) where current convection forecasting and research is being done.

Recommendation 8

The CI concept should be defined. A discussion on this will be initiated on the CWG website.

Recommendation 9

NWC-SAF to use pattern-recognition for the detection of ring and U-shaped storms to correctly determine the CTTH of these storms.

Recommendation 10

Whenever possible visualization software should be made freely available for science community.

Recommendation 11

CWG members are encouraged to use and to develop products in support of aviation safety.

Recommendation 12

CWG members to start collaboration on further enhancing the documentation on the CWG wiki, including the best practice document.

Recommendation 13

CWG members to test collaboration via internet (e.g. VisitView, Centra, etc.), specifically recommended is to attend the Satreponline meetings.

Recommendation 14

A real-time MSG CI product, at least for selected areas, should be included in Satreponline. Possible points of contact are John Mecikalski and UW CIMSS. Countries who could support evaluation should contact the CI producers.

Recommendation 15

CWG identified a continued need for MSG 5-minute rapid scans.

Recommendation 16

EUMETSAT to make real-time MSG data available on an ADDE Server, including the 5-minute scans.

Recommendation 17

Work to derive instability information from hyperspectral instruments should be continued.

Recommendation 18

A presentation of CWG status and the outcome of the Landshut meeting should be done to EUMETSAT delegate body meeting, especially to STG-Ops WG and/or STG-SWG.