

2016 Convection Working Group Workshop

04-08 April 2016

Hotel Convitto della Calza
Piazza Della Calza, 6
50125, Firenze - Italia

Draft Agenda

Monday, 04 April 2016

13:00	Registration	
13:30	Welcome	Col. Stefano Bianca, COMet, Italian Air Force Meteorological Service Joachim Saalmueller, Head of User Support and Climate Services, EUMETSAT
14:00- 14:15	Adoption of the agenda, logistics	Vesa Nietosvaara, Martin Setvák, Mateja Iršič Žibert, Jochen Grandell, Davide Melfi
14:15- 17:00	Session: Pre-convective Environment	Session chair: Vesa Nietosvaara, EUMETSAT
	Background of various Convective Index options and how appropriate they are/will be for various sources of satellite soundings (e.g., SEVIRI vs. MTG-S vs. IASI).	Ralph Petersen, CIMSS, Univ. Wis., Madison (45 min)
15:00- 15:30	Coffee Break	
	Impact of Background Model to the MSG Global Instability Indices (GII) Processing	Zsofia Kocsis, OMSZ (15 min)
	An extended perspective for DMC - Initiation in the Alpine Region	Thomas Krennert, ZAMG (15 min)
	Relocation of Meteosat-8	Jochen Grandell, EUMETSAT
	Discussion	
17:00	Icebreaker	Sponsored by the Italian Met Service

Tuesday, 05 April 2016

09:00-12:30	Session: Early detection	Session chair: Martin Setvak, CHMI
	Met Office's Satellite Applications work on detection of convection using satellite imagery	Lorenzo Labrador, MetOffice (15 min)
	Updates to convective initiation (CI) nowcasting, using cloud properties (e.g., effective radius data), along with enhancements for early nowcasting of severe storms	John Mecikalski, University of Alabama in Huntsville (15 min)
	Meteosat-based Characterization of the Initiation and Growth of Severe Convective Storms over Central Europe	Fabian Senf, Leibniz Institute for Tropospheric Research (15 min)
	Introduction of FY-4 Developing Convection Product	Danyu Qin, Institute of Satellite Meteorology, NSMC/CMA (15 min)
	Detection of rapidly developing cumulus areas from Himawari-8 data	Hiroshi Suzue, MSC/JMA (15 min)
	Discussion	
10:30-11:00	Coffee Break	
	Use of rapid scan datasets when understanding CI and other processes	John Mecikalski, University of Alabama in Huntsville (45 min)
	Discussion	
12:30 - 14:00	Lunch break	
14:00-14:30	Discussion on Update of Terms of References	CWG Co-chairs
14:30-17:15	Session: Mature phase and RSS – part 1	Session chair: Mateja Iršič Žibert, ARSO
	Physics of Satellite-observed features on top of severe storms	Pao Wang, Department of Atmospheric and Oceanic Sciences (45 min)
	Types of Overshooting Tops (from RSS)	Martin Setvak, CHMI (25 min)

15:30- 16:00	Coffee Break	
	Benefits of RSS over Slovenia	Mateja Iršič Žibert, Slovenian Environment Agency (20 min)
	New advances in automated hazardous storm detection and analysis of storms in super rapid scan imagery	Kristopher Bedka, NASA (45 min)
	Discussion	

Wednesday, 06 April 2016

09:00- 12:30	Session: Mature phase and RSS – Part 2	Session chair: Jochen Grandell, EUMETSAT
	Overshooting top detection using MSG 2.5-minute rapid scan data	Michaela Radova, CHMI (45 min)
	Comparison OT brightness temperatures detected by MSG and AVHRR IR imagery - selected OT cases	Jan Kanak, SHMU (15 min)
	Deep convection processes analysed by MSG Optimal Cloud Analysis (OCA) products	Piotr Struzik, IMGW – NRI (15 min)
	Nefodina 2.0: the evolution of the Nefodina model within the HSAF framework	Michele de Rosa, Geo-K s.r.l. (15 min)
10:30- 11:00	Coffee Break	
	Weather and emergency services applied to management and disaster reduction supported by MTG in Brazil	Humberto Barbosa, LAPIS (30 min)
	New approaches for Nowcasting Techniques over Brazilian Territory	Daniel Vila, Centro de Previsão de Tempo e Estudos Climáticos (15 min)
	Current status of convective cloud monitoring at NMSC/KMA	Eunha Sohn, NMSC/KMA (15 min)
	Discussion	

12:30- 14:00	Lunch Break	
14:00- 17:00	Session: Multi sensor approach – Part 1	Session chair: Nataša Strelec Mahovic, DHMZ
	Characterisation of hail storms using a multi-data Approach	Kathrin Wapler, DWD (20 min)
	Hailstorm distribution over the Alpine region using radar and NWP data	Luca Nisi, MeteoSwiss (15 min)
	Analysing Convective Events in Switzerland using MSG, Radar and Lightning Observations (COALITION Second Generation)	Ulrich Hamann, MeteoSwiss (20 min)
	A convective event analysed with satellite, radar and lightning data	Mária Putsay, Hungarian Meteorological Service (15 min)
	Discussion	
15:30- 16:00	Coffee Break	
	Status of MTG Lightning group work	Jochen Grandell, EUMETSAT (30 min)
	Discussion	
17:15	Social Event: guided walking tour in Florence followed by a dinner	

Day 4 – Thursday 07 April 2016

09:00- 11:00	Session: Multi sensor approach – Part 2	Session chair: Nataša Strelec Mahovic, DHMZ
	Multi sensor approach to storm detection	John Mecikalski, University of Alabama in Huntsville (45 min)
	Dual pol radar for nowcasting lightning and intense rainfall event, cloud tracking using satellite and radar (propagation)	Luiz Machado, INPE (15 min)
	Operational nowcasting products for storm detection over Ukraine	Oleksii Kryvobok, Ukrainian Hydrometeorological Institute (15 min)

	Severe storm nowcasting: satellite and lightning data combination	Michaela Valachová, CHMI (30 min)
	Discussion	
11:00- 11:30	Coffee Break	
11:30- 13:00	Session: NWCSAF	Session chair: Piotr Struzik, IMGW
	NWCSAF status and future plans CDOP-3	Pilar Rípodas, AEMET (15 min)
	NWCSAF future plans for MTG-IRS	Xavier Calbet ,AEMET (15 min)
	Instability indices and water content in clear air NWCSAF product	Miguel Angel Martínez, AEMET (15 min)
	Convection Initiation and RDT in NWCSAF	Jean-Marc Moisselin, Météo-France (15 min)
	Discussion	
13:00- 14:30	Lunch break	
14:30- 17:00	Session: New generations of satellite	Session chair: Davide Melfi, Italian Air Force Meteorological Service
	Progress on GOES-R/JPSS Convective Decision Support Research	Wayne Feltz, SSEC/CIMSS UW- Madison(30 min)
	Observing convection with the next generation of geostationary satellites: Himawari, GOES-R, and Meteosat Third Generation	Dan Lindsey, NOAA/NESDIS/STAR/ RAMMB (45 min)
15:45- 16:15	Coffee Break	
	Climatological analyses of hazardous storms from GOES, MSG, MODIS, and AVHRR. Discussion on long term statistics	Kristopher Bedka, NASA (20 min)
	Discussion	

Day5 – Friday, 08 April 2016

09:00-10:30 **Session: User preparation and Other**

Session chair:
Vesa Nietosvaara,
EUMETSAT

EUMETRAIN plans till 2020

Nataša Strelec
Mahovič, DHMZ
(20 min)

Preparing users for the next generation of satellites

Ivan Smiljanic, DHMZ
(10 min)

Validation and documentation of methods presented in the CWG

Pieter Groenemeijer,
ESSL (10 min)

10:30-11:00 Coffee Break

11:00-13:00 General Discussion, Recommendations,
Conclusions

Vesa Nietosvaara
Martin Setvák
Mateja Iršič Žibert
Jochen Grandell

13:00 **End of the workshop**