REPUBLIC OF SLOVENIA
MINISTRY OF THE ENVIRONMENT AND SPATIAL PLANNING
SLOVENIAN ENVIRONMENT AGENCY

EUMETSAT

2018 Convection Working Group Workshop

17-19 April 2018
City Hotel Ljubljana, Slovenia

Draft Agenda

Subject to Updates

Tuesday, 17 April 2018

08:00-09:00	Registration	
09:00	Opening	Klemen Bergant, Director of Meteorological and Hydrological Office, ARSO Joachim Saalmueller, Head of User Support and Climate Services, EUMETSAT
09:30	Status of Satellite Convection Product Guidance	Vesa Nietosvaara, EUMETSAT
Session: Multi-sensor and integrated approaches		**Session chair: Mateja Iršič Žibert, ARSO**
10:00	New Approaches for Automated Detection and Analysis of Hazardous Thunderstorms at NASA Langley Research Center	Kristopher Bedka, NASA Langley Research Center
10:30	Coffee Break	
11:00	Recent advances, current activities and challenges in Nowcasting: summary of the 2nd European Nowcasting Conference	Kathrin Wapler, Deutscher Wetterdienst
11:15	Multi-sensor observations of gravity waves generated by convective storms	Martin Setvak, Czech Hydrometeorological Institute, Satellite Department
11:30	Confronting high-resolution simulations of deep convective growth with Meteosat observations	Fabian Senf, Leibniz Institute for Tropospheric Research
12:00	On the sensitivity of nowcasting algorithms for convective initiation in satellite images to automatic tracking techniques	Stephan Lenk, Leibniz Institute for Tropospheric Research
12:15	Storm Severity Estimation: Nowcasting by Remote Sensing in Central Europe	Michaela Valachová, Czech

		Hydrometeorological Institute / Charles University, Department of Atmospheric Physics
12:30	Lunch Break	
14:00	Case studies of various types of storms using remote sensing (satellite, radar, lightning), in-situ and NWP data	Mária Putsay, Hungarian Meteorological Service
Session: Satellite Vertical Profiles		**Session Chair: Jochen Grandell, EUMETSAT**
14:30	EUMETSAT hyperspectral sounding products: the IASI L2 operational service, preparing MTG-IRS	Thomas August, EUMETSAT
15:00	Possible Usage of IASI L2 Profiles in Nowcasting	Zsofia Kocsis, OMSZ - Hungarian Meteorological Service
15:15	Validation and use of IASI level2 data in various weather situations	Jana Campa, ARSO
15:30	Coffee Break	
16:00	Combining SEVIRI and IASI profiles in a short-range, "all-weather" forecasting tool	Ralph Petersen, University of Wisconsin-Madison/SSEC/CIMSS
MTG Updates		
16:15	MTG FCI instrument and services	Mounir Lekouara, EUMETSAT
16:30	Lightning Imager (LI) end to end prototype processor	Bartolomeo Viticchie, EUMETSAT
16:45	Temporal and spatial distribution of total lightning densities in severe thunderstorms	Kathrin Wapler, Deutscher Wetterdienst
17:00 – 17:30	Discussion	
19:00	Meeting at the hotel, a short walk to the dinner	
20:00	Workshop Dinner at Ljubljana Castle	

Wednesday, 18 April 2018

Session: Deep convection – climate studies		**Session Chair: Davide Melfi, COMET**
09:00	Storm top processes seen from concurrent satellite and aircraft observations	Pao Wang, University of Wisconsin-Madison
09:30	Hail swaths analysis in the Alps using radar data between 2002 and 2016	Luca Nisi, MeteoSwiss + University of Bern
09:45	Tornadic storms in Portugal	Margarida Belo-Pereira, IPMA
10:00	Meteosat-10 and ozone mapping as an index to cyclone intensity in tropical North Atlantic	Humberto Barbosa, Federal University of Alagoas (UFAL)
10:30	Coffee Break	

Session: NWC SAF		**Session Chair: Natasa Strelec Mahovic**
11:00	The EUMETSAT SAF Network and its portfolio related to convection	Lothar Schüller, EUMETSAT
11:15	NWC SAF Software and Products: future developments	Xavier Calbet, AEMET
11:30	The upcoming version v2018 of RDT-CW and CI	Jean-Marc Moisselin, Météo-France
11:45	iSHAI and PGE00 as key tools in pre-convection	Miguel Angel Martinez, AEMET
12:00	NWCSAF MTG LI Prototype Products	Andrei Diamandi, NMA, Romania
12:15	NWC-SAF products at the ESSL Testbed, what users like most	Alois M. Holzer, ESSL
12:30	Discussion	
12:45	Lunch Break	
Session: Multi-sensor and integrated approaches		**Session Chair: Piotr Struzik**
14:15	Nowcasting Deep Convection in the Southeastern United States	Frank Alsheimer, National Oceanic and Atmospheric Administration/National Weather Service
14:45	An Integrated use of 1-min resolution GOES, Radar and Lightning data to Understand and Predict Severe Convection	John Mecikalski, Atmospheric Science Department, University of Alabama in Huntsville
15:15	Updraft width in severe thunderstorms – observations of significant hail producing storms in Finland	Jenni Rauhala, Finnish Meteorological Institute
15:30	Coffee Break	
16:00-17:00	Discussion	

Thursday, 19 April 2018

Session: Multi-sensor and integrated approaches		**Session Chair: Jenni Rauhala**
09:00	Use of Meteosat stereographic view for more complete, 2-dimensional, parallax corrected images	Piotr Struzik, Institute of Meteorology and Water Management - NRI
09:15	Can dual satellite observations improve information about convection?	Jan Kanak, Slovak Hydrometeorological Institute
09:30	The relation between cloud parameters and storm severity based on lightning and satellite data	Oleksii Kryvobok, UHMI

Session: Satellite Convection Product Updates		**Session Chair: Vesa Nietosvaara**
09:45	Observations of convection using both qualitative and quantitative products from GOES-16	Dan Lindsey, NOAA/NESDIS/GOES-R
10:15	Observing Convection with FengYun-4A satellite	Danyu Qin, National Satellite Meteorological Center/CMA
10:30	Coffee Break	
11:00	Cloud property retrieval on multiple layers, monitoring convective storms under cirrus	Simon Proud, University of Oxford
11:15	Discrimination of Convective Clouds using Himawari-8 data with Logistic Regression over Korea	Ki-Hong Park, National Meteorological Satellite Center (NMSC) / Korea Meteorological Administration(KMA)
11:30	Development of Convective Initiation Algorithm for GEO-KOMPSAT-2A	Hye-In Park, National Meteorological Satellite Center (NMSC) / Korea Meteorological Administration(KMA)
11:45	New Cloud Phase and Cloud Type RGBs + some rapid scan cases	Jochen Kerkmann, EUMETSAT
12:00	Exploring the new satellite generation capabilities through case studies	Ivan Smiljanic, EUMETSAT
12:15	Discussion	
12:30	Lunch Break	
Concluding Session		
14:00	Satellite Convection Product Guidance document – way forward	Co-Chairs
14:30	General Discussion, Recommendations, Conclusions	Vesa Nietosvaara Mateja Iršič Žibert Jochen Grandell
17:00	End of workshop	

List of Participants

FIRST NAME	FAMILY NAME	INSTITUTE	Country
Frank	Alsheimer	National Oceanic and Atmospheric Administration/National Weather Service	United States of America
Thomas	August	EUMETSAT	Germany
Humberto	Barbosa	Federal University of Alagoas (UFAL)	Brazil
Kristopher	Bedka	NASA Langley Research Center	United States of America
Margarida	Belo-Pereira	Instituto Português do Mar e da Atmosfera (IPMA)	Portugal
Klemen	Bergant	ARSO	Slovenia
Xavier	Calbet	AEMET	Spain
Jana	Campa	ARSO	Slovenia
Klemen	Četina	ARSO	Slovenia
Andrei	Diamandi	National Meteorological Administration	Romania
Wayne	Feltz	University of Wisconsin - Madison SSEC/CIMSS	United States of America
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Veronika	Hladnik	ARSO	Slovenia
Alois M.	Holzer	ESSL	Austria
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Andrej	Hrabar	ARSO	Slovenia
Mateja	Iršič Žibert	ARSO	Slovenia
Jan	Kanak	Slovak Hydrometeorological Institute	Slovakia
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Zsofia	Kocsis	OMSZ - Hungarian Meteorological Service	Hungary
Thomas	Krennert	ZAMG	Austria
Oleksii	Kryvobok	UHMI	Ukraine
Mounir	Lekouara	EUMETSAT	Germany
Stephan	Lenk	Leibniz Institute for Tropospheric Research	Germany
Dan	Lindsey	NOAA/NESDIS/GOES-R	United States of America
José Lorenzo	Lliso Valverde	AEMET	Spain
Tino	Manzato	OSMER - ARPA FVG	Italy
Cecilia	Marcos	AEMET	Spain
Miguel Angel	Martinez	AEMET	Spain
John	Mecikalski	Atmospheric Science Department, University of Alabama in Huntsville	United States of America
Davide	MELFI	COMet	Italy
Janko	Merše	ARSO	Slovenia
Jean-Marc	Moisselin	Météo-France	France
Bostjan	Muri	Slovenian Environment Agency	Slovenia
Vesa	Nietosvaara	EUMETSAT	Germany
Luca	Nisi	MeteoSwiss + University of Bern	Switzerland

Monika	Pajek	Institute of Meteorology and Water Management - National Research Institute (IMGW-PIB)	Poland
Hye-In	Park	National Meteorological Satellite Center(NMSC) / Korea Meteorological Administration(KMA)	South Korea
Ki-Hong	Park	National Meteorological Satellite Center(NMSC) / Korea Meteorological Administration(KMA)	South Korea
Ralph	Petersen	University of Wisconsin-Madison/SSEC/CIMSS	United States of America
Aleš	Poredoš	ARSO	Slovenia
Simon	Proud	University of Oxford	United Kingdom
Mária	Putsay	Hungarian Meteorological Service	Hungary
Danyu	Qin	National Satellte Meteorological Center/CMA	China
Jenni	Rauhala	Finnish Meteorological Institute	Finland
Luka	Ravnik	ARSO	Slovenia
Joachim	Saalmüller	EUMETSAT	Germany
Lothar	Schüller	EUMETSAT	Germany
Fabian	Senf	Leibniz Institute for Tropospheric Research	Germany
Martin	Setvak	Czech Hydrometeorological Institute, Satellite Department	Czech Republic
Gregor	Skok	University of Ljubljana	Slovenia
Ivan	Smiljanic	EUMETSAT	Germany
Blaž	Šter	ARSO	Slovenia
Uros	Strajnar	ARSO	Slovenia
Natasa	Strelec Mahovic	Meteorological and hydrological service	Croatia
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