ICWG-3 workshop - Oral presentations

updated on 2024/02/25

Monday 26 February 2024

08:00 - 08:45 Registration

08:45 - 09:00	Welcome address and logistics	Martin Stengel, Kerry Meyer, Alessio Bozzo	
09:00 - 10:30	Programmatic/overview		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chair: Andy Heidinger	
	Recent Cloud Algorithm Enhancements in the NASA SatCORPS	William Smith	NASA Langley
	Update from the International Wind Working Group	Steve Wanzong	UW/SSEC/CIMSS
	Cloud retrieval properties from SAFNWC	Emmanuel Fontaine	Meteo-France
	The NASA MODIS/VIIRS CLDPROP continuity cloud products: Status and updates for Version 2	Kerry Meyer	NASA GSFC
	Current and Future Cloud Products of the Japan Meteorological Agency	Yuuki Saeki	JMA

	Coffee/tea break and poster viewing	10:30
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11:00 - 13:00	Climate data records/analysis		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Jian Liu, Hartwig Den	
	CM SAF cloud datasets: past, present, future	Jan Fokke Meirink	KNMI
	Lessons Learned from Transitioning the PATMOS-x Cloud Climatology into the VIIRS Era.	Michael Foster	UW
	Time Series Analysis of the NASA MODIS and VIIRS Cloud Products	Steven Platnick	NASA GSFC
	Lessons from using and comparing ISCCP, MODIS, VIIRS joint histograms and associated cloud regimes	Lazaros Oreopoulos	NASA GSFC
	Climate variability and response to sea surface temperatures in global cloud climate data records	Abhay Devasthale	SMHI
	Arctic low-level clouds – an intercomparison of satellite data and reanalyses	Irina Holtermann	DWD

13:00 - 14:00 Lunch break

14:00 - 15:45	Science analysis/applications		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Claudia Stubenra	auch, Daniel Miller
	Arctic cloud properties and its correlation with extreme sea ice anomalies	Jian Liu	СМА
	Ship emission effects on clouds from the SEVIRI-based CLAAS-3 data record	Nikos Benas	KNMI
	Low-level cloud life cycle assessment	Jan Cermak	KIT
	Validating solar irradiance retrievals from Meteosat SEVIRI at improved spatial resolution against a dense network of ground-based observations	Job Wiltink	KNMI
	Assessing the benefits of the improved spatiotemporal resolution of current geostationary imagers for surface solar irradiance retrievals based on the S2VSR campaign	Hartwig Deneke	TROPOS
	Polarimetric Microphysical Retrievals as a Detection of Cloud Top Entrainment	Daniel Miller	NASA GSFC

15:45 - 16:15	Coffee/tea break and poster viewing	
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16:15 - 17:45	Geo-ring + assessment discussion		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Colten Peterson	, Rabindra Palikonda
	Current and Future Plans for the International Satellite Cloud Climatology Project (ISCCP)	Hilawe Semunegus	NOAA
	The NOAA Enterprise Cloud Products (aka PATMOS-x) applied to ISCCP-NG L1G	Andrew Heidinger	NOAA NESDIS
	Global analysis of super-cooled liquid clouds from the current geo-ring of advanced VIS/IR imagers	f Martin Stengel	DWD
	L1g-based cloud products from the Geosatclim cloud algorithms (COMET) compared with CM SAF, CALIPSO and MODIS cloud datasets	Karl-Göran Karlsson	SMHI
	Planning a ISCCP-NG L2 intercomparison	Jan Fokke Meirink + All	

17:45 - 18:45 Combined poster session & Icebreaker

Tuesday 27 February 2024

09:00 - 10:30	Retrieval/product development and evaluation		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Nina Håkanss	on, Alessio Bozzo
	Lessons learned from the updated GEWEX Cloud Assessment database	Claudia Stubenrauch	CNRS LMD
	Validation and Comparison of Himawari cloud products (remote presentation)	Caroline Poulsen	ВМА
	MODIS and VIIRS L1b and L2 Monitoring Capabilities Developed by the University of Wisconsin Atmosphere SIPS	Zachary Griffith (presented by Kerry Meyer)	SSEC
	An improved NASA MODIS/VIIRS Cloud Continuity Mask using collocated AIRS/CrIS observations	Dongwei Fu (presented by Paolo Veglio)	SSEC
	A High Spatial Resolution Cloud Detection Algorithm based on the NASA Continuity MODIS/VIIRS Cloud Mask	Paolo Veglio	SSEC UW

10:30 - 11:00 Coffee/tea break and poster viewing

11:00 - 13:00	Retrieval/product development and evaluation cont'ed		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Jan Cermak,	Johanna Mayer
	Research on summer Arctic cloud detection model based on FY-3D/MERSI-II infrared data	Xi Wang (presented by Jian Liu)	CMA
	Retrieval of cloud bottom altitude from TROPOMI on Sentinel-5P	Luca Lelli	DLR
	Evaluation of the MODIS/VIIRS Cloud Team's Pixel-Level Cloudy-Sky Radiative Flux Datasets using Ground- and Space-based Radiation Measurements	Colten Peterson	NASA GSFC / UMBC
	Evaluating imager spectral cloud effective radius retrievals against multi- angle polarimetry and in situ cloud probes	Kerry Meyer	NASA GSFC
	Hourly Global Cloud Property Composite Derived from Merged Geostationary and Sun-Synchronous Satellite data	David Painemal	NASA Langley
	How ERA5 vertical resolutions and top-of-atmosphere cut-off impact simulated MTG/IRS infrared spectra	Xuemei Chen	CNRM, U. de Toulouse, Météo- France, CNRS

13:00 - 14:00 Lunch break

14:00 - 16:00	Retrieval/product development and evaluation cont'ed		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Nikos B	enas, NN
	Combination of solar and thermal retrievals of IWP from MSG and evaluation with DARDAR	Luca Bugliaro	DLR
	Artificial intelligence technology to retrieve all-day cloud properties based on geostationary satellite measurements	Feng Zhang	Fudan University
	Leveraging spatial textures, through machine learning, to identify aerosols and distinct cloud types from multispectral observations <i>(remote presentation)</i>	Willem Marais	SSEC
	A probabilistic approach to determine the thermodynamic cloud phase using passive satellites	Johanna Mayer	DLR
	Investigation of the cloud top thermodynamic phase from the synergistic use of polarimetric, multi-directional, and high temporal resolution observations. (remote presentation)	Jérôme Riedi	University of Lille
	Enhancing cloud top phase and height estimates from geostationary imagers in multilayer conditions using a deep neural network	Christopher Yost	AMA

16:00 - 16:30 Coffee/tea break and poster viewing	
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16:30 - 17:45	Severe weather and lightning		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Loredana Spezzi, Yuuki Saeki	
	Cloud remote sensing coping with multiple natural hazards in tropical developing countries	Yong-Sang Choi	Ewha Womans University
	Feature importance of imager cloud products, microwave radiometry, and atmospheric reanalysis variables in a deep neural network for estimating severe hail likelihood	Benjamin Scarino	NASA
	Lightning Imager Level-1b and Level-2 commissioning status	Bartolomeo Viticchie	EUMETSAT
	Monitoring of LI Level-1b and Level-2 product performance during routine operations and commissioning	Sven-Erik Enno	EUMETSAT

19:00 Dinner at Braustuebl (provided by EUMETSAT)

Wednesday 28 February 2024

09:00 - 10:30	New missions		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Anja Hüber	bein, Shannon Mason
	First results of the MTG-FCI cloud mask and cloud analysis product at EUMETSAT and plans for future developments	Hans-Joachim Lutz	EUMETSAT
	A first look at FCI L2 cloud retrieval products at EUMETSAT and plans for future developments	Alessio Bozzo	EUMETSAT
	First impressions of MTG-I1 FCI in the context of continuing the CM SAF CLAAS cloud property record	Jan Fokke Meirink	KNMI
	Cloud Detection and Characterization Based on Spectro-polarimetry – Operational Implementation for EPS-SG/3MI	Bertrand Fougnie	EUMETSAT
	The Polarized Submillimeter Ice-Cloud Radiometer (PolSIR): Observing the diurnal cycle of ice clouds in the tropics and sub-tropics	Ralf Bennartz	Vanderbilt University

10:30 - 11:00	Coffee/tea break and poster viewing	
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11:00 - 13:00	New missions cont'ed		
	Oral presentations: 15 minutes + 3 minutes Q&A	Session chairs: Ralf Bennartz, Sarah Bedka	
	Cloud and Precipitation Retrieval for EarthCARE's Doppler Cloud Profiling Radar	Kamil Mroz	University Of Leicester
	ACM-CAP: EarthCARE's synergistic and unified retrieval of clouds, aerosols and precipitation	Shannon Mason	ECMWF
	EarthCARE mission - an overview with regards to the cloud products from the multi-spectral imager and the sensor-synergy between imager and atmospheric lidar	Anja Hünerbein	TROPOS
	Cloud products from the new NASA PACE mission (remote presentation)	Andrew Sayer	UMBC at NASA GSFC
	An overview of the NASA AOS mission	Arlindo da Silva	NASA GSFC
	Cloud products from the NASA AOS mission	Matt Lebsock (presented by Kerry Meyer)	JPL

13:00 - 14:00 Lunch break

Closing session

14:00 - 15:30

- Including discussions about:

 Key outcomes of the workshop

 Actions/recommendation to/from CGMS

 Discussing/defining (maybe fewer) topical groups and how we can achieve a bit more inter-sessional momentum

 Ideas for the next meeting (content, place, dates...). Please let us know if you have some thoughts already....

16:00 the end