Schedule for the 2023 FengYun Satellite User Conference

12th November 2023   *Seaview Resort Xiamen Seadragon (1st floor)*

Time	Content
18:00-20:00	Welcome Dinner Poster Session (list of posters attached in the further below)

13th November 2023   *Seaview Resort Xiamen Seaview Grand Ballroom (2nd floor)*

Time	Content	Host
Opening Ceremony		
8:30-9:00	Warming up video	
9:00-9:40	Opening Remarks	CAO Xiaozhong
9:40-9:45	Promotional video for early warning services by FengYun Satellites	
9:45-10:10	Launch announcement	
10:10-10:30	Group Photo	
Keynote		
10:30-10:50	Development and Application of China's FengYun Meteorological Satellites (ZHANG Peng, Deputy Director General of National Satellite Meteorological Center)	ZENG Qin
10:50-11:10	The Value of Earth-observing Satellites in Meeting WMO's Mission (Natalia Donoho, Head of WMO Space Systems and Utilization Division)	
11:10-11:30	China Earth Observation System Application in Meteorology (ZHAO Jian, Director of Earth Observation System and Data Center, CNSA, Chief Designer of China High-resolution Earth Observation System)	

Time	Content	Speaker	Host
11:30-11:50	Exploring Bilateral Cooperation Opportunities in Satellite Imagery and Programs with the China Meteorological Administration (Ali Mohammed, Chairman of Civil Aviation and Meteorology Authority)		
11:50-12:10	Application of MERSI Instruments Data in National Fire Monitoring Systems (Burtsev Mikhail, senior researcher in Space Research Institute (IKI) of the Russian Academy of Sciences)		
12:30-14:00	*LUNCH (Mediterranean Café)*		
Time	**Content**	**Speaker**	**Host**
14:00-14:20	Introduction of Cooperation between EUMETSAT and CMA (online)	Paul Counet (Head of strategy and international relations of EUMETSAT)	YANG Jun
14:20-14:40	Developments in the Use of FengYun Satellites Data in the ECMWF NWP System (video)	Niels Bormann (Principal Scientist in earth system assimilation section of ECMWF)	YANG Jun
14:40-15:00	Advantages of Utilizing Satellite Remote Sensing to Monitor Extreme Weather Conditions in Uzbekistan	Sanjarbek Muratov (FAO representative in Uzbekistan)	YANG Jun
15:00-15:20	World Meteorological Centre Beijing's Seamless Forecasting and Early Warnings for Global High-impact Weather	WANG Yi (National Meteorological Center)	YANG Jun
15:20-15:40	Realization of a Dream: Today's Meteorological Satellites Where Do We Go from Here? (video)	James Purdom (Winner of the Chinese Government Friendship Award in 2021)	YANG Jun

15:40-16:00	Expectation of FengYun Meteorological Satellites Intelligent Cooperative Observation System	DONG Yaohai (Shanghai Academy of Spaceflight Technology, Head engineer of Fengyun-3 satellites)	
Tea Breaks (16:00-16:20)			
16:20-16:40	Projected Analysis and Prediction of Land Use/Land Cover Using Spatial Differences and Its Relation to the Climate, AZB- Jordan.	Nivin Hasan (Royal Jordanian Geographic Center-Jordan)	Sanjarbek Muratov
16:40-17:00	Spatiotemporal Estimation of Hourly $PM_{2.5}$ Using FengYun-4A/AGRI-based AOD and Machine Learning Models for Greater Bangkok	Nishit Aman (postdoctoral researcher at Chulalongkorn University, Thailand)	
17:00-17:20	Utilization of FengYun-4A Advanced Geosynchronous Radiation Imager for Hotspot Detection in Sumatra Island	Regina Dara Ninggar (Meteorology Department of Indonesia, forecaster)	
17:20-17:40	Utilization of FengYun Satellites in Numerical Weather Prediction Model Validation in Papua New Guinea: A Status Report & Plans for the Future	Warupi Peter (Meteorology Department of Papua New Guinea, forecaster)	
17:40-18:30	Discussion on the Application Requirements of FengYun Satellites for the Belt and Road Initiative	Members of the Belt and Road Initiative	ZHANG Peng
19:00	*DINNER (Mediterranean Café)*		

14th November 2023·Session I （Weather, Climate and Disasters）:   *Seaview Resort Xiamen Seaview Grand Ballroom I (2nd floor)*

Time	Content	Speaker	Host
9:00-9:20	Assimilation of FengYun Satellites Data in CMA Global Forest System (GFS)	WENG Fuzhong (CMA Earth System Modeling and Prediction Center)	CHEN Lin
9:20-9:40	Satellite-derived Flood Product Analysis to Support Impact-based Forecast (IBF) and Warning Services	Rion Suaib Salman (Meteorology Department of Indonesia) William Straka (National Oceanic and Atmospheric Administration, the US)	
9:40-9:55	Monitoring the Impact of Tropical Cyclone Using FengYun Geostationary Satellite Imagery	Mahani Binti Abllah (Malaysian Meteorological Department)	
9:55-10:10	Enhancing Climate Predictions in Pakistan: Understanding the Sources and Mechanisms for Regional Predictions (Online)	Irfan Ur Rashid (Pakistan Meteorological Department)	
10:10-10:20	Review of FengYun Satellites Data Use in Kazakhstan	Smagulova Saule (Hydro Meteorological Department of Kazakhstan)	
10:20-10:30	Using Fengyun Satellites Data to Promote Gender Equality and Climate Resilience in Agriculture: Empowering Nigerian Women Farmers	Jantiku Jagila (National Space Research and Development Agency, Nigeria)	
Tea Breaks (10:30-10:50)			

10:50-11:10	Potential Breakthrough for FengYun 3G Precipitation Satellite to Retrieve Key Variables of the Global Carbon and Water Cycle	LI Rui (University of Science and Technology of China)	
11:10-11:20	The Role of FengYun Satellites in Myanmar Aviation Weather Forecasting	Oo Kyaw (Myanmar)	
11:20-11:30	Nowcasting: The Usage of Satellite Images to Forecast Heavy Rains and Dust Storms in Cameroon	Ramses Landry Bell Epipe (Ministry of Transport/ Department of National Meteorology of Cameroon)	Rion Suaib Salman
11:30-11:40	Spatial and Temporal Distribution of Lightning	Israr Ahmad (Pakistan)	
11:40-11:50	Space Weather (The Solar Perspective)	Fafa K. Ceesay (Gambia Ministry of Fisheries and Water Resource)	
11:50-12:00	High Impact Weather: Floods in Ghana	Deborah Acheampong (Ghana Meteorological Agency)	
12:00-14:00	LUNCH (Mediterranean Café)		

14th November 2023·Session II（Ecosystem and Agriculture）:   *Seaview Resort Xiamen Seaview Grand Ballroom II (2nd floor)*

Time	Content	Speaker	Host
9:00-9:20	Quantitative Applications of FengYun Satellites Observations for Nowcasting	LI Jun (FYSIC)	REN Suling
9:20-9:40	Operational Use of FengYun Satellites Products at the Hong Kong Observatory: Historical Overview and Future Perspectives (online)	TANG Wai Ho (Hong Kong Observatory)	
9:40-9:50	Progress of FengYun-3 Satellite at the Service of "The Belt and Road"	CHEN Yanli (Guangxi)	
9:50-10:00	Atmospheric Boundary Layer (ABL) Exploring: Scientific Issues and the Application of Microwave Sounding	HE Jieying (National Space Science Center, CAS)	
10:00-10:10	Estimating Rainfall Runoff in the Upper Yom River Basin Using the FengYun Satellites (video)	Pamornwan Pootta (Thai Meteorological Department)	
10：10-10:20	Evolution of FengYun-2 Products in Hydromet Services in PMD (online)	Muhammad Rizwan (Pakistan Meteorological Department)	
10：20-10:30	Forecasting Drought Based on Standardized Precipitation Index (SPI) Using Multilayer Perceptron (MLP) in New Capital City of Indonesia	Naufal Ananda (Meteorological, Climatological, geophysical Agency, Indonesia)	
Tea Breaks (10:30-10:50)			
10:50-11:10	Development of Artificial Intelligence Technology with FengYun Satellites Data	YE Yunming (Harbin Institute of Technology (ShenZhen))	LI Jun

Time	Content	Speaker	Host
11:10-11:20	Automatic Detection for Volcanic Ash Distribution Using Geostationary Satellite Observation by Machine Learning	Richard Putra (Meteorological, Climatological, geophysical Agency, Indonesia)	
11:20-11:30	Using Satellite Remote Sensing Data to Monitor Ecological and Agricultural Meteorological Disasters	FANG Shibo (Chinese Academy of Meteorological Science)	
11:30-11:40	Utilize FengYun Satellites Surface Soil Moisture (SSM) Data	Anselem Onyejuruwa (Nigeria)	
11:40-11:50	Artificial Intelligence Method to Retrieves All-day Cloud Physical Characteristics Based on the Observation of Geostationary Satellites	ZHANG Feng (Fudan University)	
12:00-14:00	***LUNCH (Mediterranean Café)***		

14th November 2023·

（Industrial

Application）:　　　　　*Seaview Resort Xiamen Seaview Grand Ballroom （2nd floor）*

Time	Content	Speaker	Host
14:00-14:20	Observation Capabilities and Products of FengYun-4 Geostationary Observation Systems	LU Feng (National Satellite Meteorological Center)	CHEN Siyu
14:20-14:40	Introduction of Data and Product from FengYun Polar-Orbit Meteorological Satellites	HU Xiuqing (National Satellite Meteorological Center)	
14:40-15:00	FengYun-3 BDS\GNSS Remote Sensing Data and Applications	LIU Congliang (National Space Science Center, CAS)	

15:00-15:20	Technology and Prospect of China's First Precipitation Measurement Satellite	ZHANG Hongwei (Institute of Meteorological & Environmental Satellite, Shanghai Academy of Spaceflight Technology)	
15:20-15:40	FengYun Meteorological Satellites International Services	ZHENG Wei (National Satellite Meteorological Center)	
15:40-15:50	Overview of CMACast	HE Junyan (National Meteorological Center)	
15:50-16:10	Introduction of SMART and Agricultural Remote Sensing Application	ZHANG Yeping (National Satellite Meteorological Center)	
Tea Breaks (16:10-16:30)			
16:30-16:40	Public-Private Engagement (PPE) in Weather, Climate, and Water Services (video)	Tatsuya Kimura WMO PPE	
16:40-16:50	Status and Trends of FengYun Satellites Industry Application	SUN Anlai (HUAYUN ShineTek)	
16:50-17:00	Application of FengYun Satellites in Insurance Industry	FANG Zhou (CPIC)	
17:00-17:10	Technological Innovation Empowers the Integrated Development of FengYun Satellites and Commercial Satellites	GE Chenqi (PIESAT)	WANG Xiaojiang
17:10-17:20	Research and Application of FengYun Satellites Based on eTAPES Platform	ZHANG Kai (GEOVIS)	
17:20-17:30	Yunyao Constellation Complements FengYun Satellites Global Observations, Contributing to the Development of Chinese Meteorological Work	CHENG Yan (Yunyao Aerospace Technology)	

17:30-18:20	Discussion on Industrial Application of FengYun Satellites Data	Members of the Belt and Road initiative and relevant enterprise	ZHANG Wei
18:20-18:30	**Closing and Award Ceremony**		ZHANG Peng
19:00	*DINNER (Mediterranean Café)*		

15ᵗʰ November 2023

Time	Content
VISITING	
8:30-9:10	Trip from the hotel to the Xiamen Sea Pearl Tourist Tower
9:10-9:50	Xiamen Sea Pearl Tourist Tower
9:50-10:30	Trip from the hotel to Tianyuzhou Meteorological Science Park
10:30-11:10	Tianyuzhou Meteorological Science Park
11:10	Return to the hotel
12:00-14:00	*LUNCH (Mediterranean Café)*
18:00	*DINNER (Mediterranean Café)*

List of posters:

NO.	Title	Author
01	Planning for cooler cities in Ghana: Contribution of green infrastructure to urban heat mitigation in Kumasi Metropolis	Yeboah Emmanuel（Ghana）
02	Amplification of Weekly to Annual Variability of East African Monsoon Long Rainfall (March to May) by Climatic Extremes	Kazora Jonah（Rwanda）
03	A rise in the atmospheric concentration of greenhouse gases	Megersa Muleta Dereba (Ethiopia)
04	Chines satellite constellation for meteorological program	Mohammadreza Bayat（Iran）
05	The role of anthropogenic climate change on drought over East Africa	Hansewo Yohannes Tamirat (Ethiopia)
06	Future climate scenarios across Tanzania under CMIP6 with high-resolution regional climate models	Magang Simtenda Dawido (Tanzania)
07	Projected land-use Transfer in Relation to Socio-economic Pathways Under Future Warming Climate in Africa	Yahaya Ibrahim (Nigeria)
08	Leveraging Advanced technology for timely pest detection and climate-smart agriculture management	Najjar Hilana (Jordan)
09	Paralax error correction system on Himawari-8 and Fengyun-02 satellites using vicente geometry method	Indrawan Abibagus (Indonesia）
10	climate change and its effects in Northern Zambia human and animal activities	Kenedy Chimbo Chola (Zambia)
11	Climate change perception among fishermen and residents of flood prone areas of the Gambia (west coast region), are their perception accurate	Jobe Lamin B. (Gambia)
12	Observing Urban Dryness Island Effect from the View of Satellite Remote Sensing	LUAN Qingzu
13	simulating summer monsoon precipitation over Sudan	Abdalah Hamadalnel Monzer (Sudan)
14	Drought and dzud (harsh winter season) assessment in Mongolia	Nasanbat Mungunchimeg (Mongolia)
15	Tracking tropical cyclone "Yemyin" in North Arabian Sea through Satellite Remote Sensing and Ancillary data	Khan Nouman Muhammad (Pakistan)
16	Heatwave and Drought Hazard Assessment in Sindh Province, Pakistan	Ali Aamir (Pakistan)
17	Observational study of the relationship between vegetation water content and albedo in one tropical forest site in China	Nengsteab hailemariam Tesfahiwot (Ethiopia)
18	Wrf high resolution simulation of an extreme rainfall event over central Nepal: a case study of August 11-12, 2017 event.	Bhandari Jeevan (Nepal)
19	Paleochannel delineation using optical and radar remote sensing data in the Cholistan desert, Pakistan	Iqbal Javeed (Pakistan)
20	Extract the spatial distribution of wheat based on a deep learning method and Gaofen satellite data	LI Feng
21	Datasets for Machine Learning in Crop Identification: A Review	Maleki Reza (Iran)
22	Study of Nyepi, a day of silence in Bali, on environmental impacts	Siregar Diana (Indonesia)
23	Meteorological standards help Fengyun satellite remote sensing and space weather services to go international	GUO Zheng