5th SALGEE Workshop 2017

EUMETSAT
Monitoring weather and climate from space
Surveiller le temps et le climat depuis l'espace

MSG LAND SURFACE APPLICATIONS: HEAT WAVES, DROUGHT HAZARD AND FIRE MONITORING

Yerevan (Armenia), Ani Plaza Hotel, 18 - 20 September 2017

18 September 2017		
08:30	09:00	**Registration**
Topic 1 EUMETSAT activities in Land Surface Analyses *Chair: Jose Prieto*		
09:00	09:15	Workshop opening *Ministry of Emergency Situations of the Republic of Armenia*
09:15	09:30	Land Surface Monitoring in Armenia using Satellite Data *Levon Vardanyan, Armenian Hydromet Service*
09:30	09:45	EUMETSAT SALGEE Project in CDOP-3 Phase of LSA SAF *Julia Stoyanova, NIMH Bulgaria*
09:45	10:00	LSA SAF overview, scope and evolution *Luis Pessanha, IPMA Portugal*
Topic 2 Observation of land surface from space		
10:00	10:40	LSA SAF CDOP-3, Future and challenges *Luis Pessanha, IPMA Portugal*
10:40	11:10	**Break /** *Internet connection arrangement*
Chair: Carlos DaCamara		
11:10	11:40	Land Surface Temperature estimates from infrared and microwave sensors *Ana Pires, IPMA, Portugal (Internet talk)*
11:40	12:10	Toward an all-weather, long record, and real-time land surface temperature product from microwave satellite observations *Carlos Jimenez, Estellus, S.A.S., France*
12:10	12:30	Evaluation of geostationary (EUMETSAT) versus polar orbiting (NASA-NOAA) missions for detection/monitoring of thermal anomalies over southeastern Europe *Christo Georgiev, NIMH Bulgaria*
12:30	14:00	**Lunch break**
Topic 3 Fire detection and monitoring – multimission *Chair: Luis Pessanha*		
14:00	14:20	Kalman filter for surface emissivity and temperature. Update of the application to the SEVIRI full disk *Sara Venafra, Univ Basilicata, Italy (Internet talk)*
14:20	14:50	How do satellites sense fire? *Jose Prieto, EUMETSAT*
14:50	15:30	LSA SAF Fire Radiative Power Product (capabilities, validation, applications) *Martin Wooster/ Weidong Xu, King's College, UK*
15:30	16:00	**Break**

| 16:00 | 16:40 | VIIRS and Landsat-class active fire algorithm update
Wilfrid Schroeder, Univ. Maryland, USA (Internet talk) |
| 16:40 | 17:10 | Decoding Software Development for NOAA VIIRS Active Fire EDRs
Erdem Erdi, TSMS Turkey |

Topic 4
Land surface state and Atmosphere Dynamics

| 17:10 | 17:40 | Dry intrusions in the environment of wild fires over Mediterranean as fire weather indicators
Christo Georgiev, NIMH, Bulgaria |
| 17:40 | 18:00 | MSG and MODIS IR observations of land surface temperature and its interaction with atmospheric circulation in different scales
Itamar Lensky, Bar-Illan University, Israel |

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Topic 5
Using satellite information for diagnoses and forecast of fire risk
Chair: Christo Georgiev

09:00	09:40	An operational system of fire danger rating over Mediterranean Europe based on fire radiative power derived from Meteosat *Carlos DaCamara, Univ. Lisbon, Portugal*
09:40	10:10	Using satellite information (vegetation indices) for forecasting fire risk in Mediterranean forests *Itamar Lensky, Bar-Illan University, Israel*
10:10	10:30	Combined assessment of terrestrial drought and atmospheric conditions through a composite index for fire risk forecast *Julia Stoyanova, NIMH, Bulgaria*
10:30	11:00	**Break**

Topic 6
Terrestrial drought: Heat waves, Risk effects on Ecosystems and Environment
Chair: Erdem Erdi

11:00	11:20	Using land surface analyses to assess weather extremes: Heat waves and drought effects *Julia Stoyanova, NIMH Bulgaria*
11:20	11:50	Drought monitoring with old and new satellites *Jose Prieto, EUMETSAT*
11:50	12:30	Albedo and Incoming solar radiation flux from LSA-SAF: Algorithms, validation and applications *Dominique Carrer / Florian Pinault, MeteoFrance, France*
12:30	14:00	**Lunch break**

Chair: Jose Prieto

| 14:00 | 14:20 | Annual and seasonal estimation of evapotranspiration from satellite and meteorological data
Itamar Lensky, Bar-Illan University, Israel |

14:20	14:30	Google Earth Engine *Itamar Lensky, Bar-Illan University, Israel*
14:30	14:50	Satellite data for drought assessment *Zara Petrosyan, Armenian Hydromet Service*
15:50	15:20	**Break /** *Internet connection arrangement*

Chair: Julia Stoyanova

15:20	15:50	Vegetation stress from IASI spectral radiances and Carbonyl Sulfide (OCS) retrievals *Carmine Serio, Univ. Basilicata, Italy (Internet talk)*
15:50	16:30	ECMWF soil moisture products for NWP, hydrology and drought applications *Patricia De-Rosnay, ECMWF, UK (Internet talk)*
16:30	17:00	The tragic fire event of June 17, 2017 in Portugal: the meteorological perspective *Carlos DaCamara, Univ. Lisbon, Portugal*

Social event: Workshop dinner

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Topic 7
Regional Applications

Chair: Zara Petrosyan

09:00	09:30	Use of Vegetation Indexes from EUMETSAT satellites for Drought Management: Validation and Applications *Bostjan Muri, ARSO, Slovenia*
09:30	11:00	**Reports of NMSs participants** - Sona Hayrapetyan, Armenia *(Satellite data for weather forecasting)* - Krystallia Dimitriadou, Greece - Matheos Papadakis, Cypros *(Satellite data use in weather forecasting)* - Taron Alexanyan, Armenia *(Satellite data for drought assessment)* - Marina Kordzakhia, Gorgia *(Drought Intensity in Georgia)* - Hasmik Kocharyan, Armenia *(Use of Satellite Data in Crop Yield Forecasting and Environment Analysis)* - Yelena Khalatyan, Armenia *(Use of Gridded Satellite Data for Climate Monitoring)*
11:00	11:30	**Break**
11:30	13:30	General Discussion

Chair: Carlos DaCamara, Julia Stoyanova, Jose Prieto, Luis Pessanha