















# **EUMETSAT Land Surface Analysis Satellite Application Facility (LSA SAF)**

# 2015 User Workshop



8-10 June: Reading, United Kingdom

**Programme** 



















#### **ORAL COMMUNICATIONS**

#### 08 June

13:15	Participants Arrival & Coffee	
14:00	Welcome	Martin Wooster
14:15	The EUMETSAT Network of Satellite Application Facilities	Lothar Schüller
14:35	The EUMETSAT LSA SAF	Isabel Trigo
	ALBEDO & VEGETATION	
14:55	The LSA-SAF albedo products	Grégoire Jacob
15:15	Annual Land Cover change using MODIS time series to improve	Gerardo Lopez-
15.15	emission inventories	Saldana
15:35	Coffee Break	
15:05	A Generic Retrieval Package for Land Parameters applied to	Thomas
	Surface Albedo Products	Kaminski
16:25	Use of Airborne Multiangle and Multispectral Data to Assess	Said Kharbouche
10.23	Reflectance and Albedo Products of Geostationary Satellites.	Said Knarbouche
16:45	A new aerosol product based on MSG geostationary satellite	Dominique
10.43	observations	Carrer
17:05	LSA SAF training activities in collaboration with EUMETSAT	Jose Prieto
17:25	Icebreaker	

Joint Social Event with EarthTemp 2015 Workshop

















## 09 June

9:00	Welcome Coffee	
9:30	Current status and potential applications of the LSA SAF vegetation	Javier García
	products	Haro
0.50	Monitoring variation in onset, cessation and length of season using	Raymond
9:50	rainfall and normalised difference vegetation index in Zimbabwe	Mugandani
10:10	Exploring the potential use of vegetation related satellite products	Souhail
10.10	within an NWP framework	Boussetta
10:30	Coffee Break	
11:00	Overview of the Sentinel-3 Mission Performance Centre	Jerome
11.00	Overview of the Sentiner-3 Mission Performance Centre	Bruniquel
	WILD FIRES	
11:20	Use of Satellite Data for Wild Fire Monitoring at INPE	Alberto Setzer
11.40	Performance evaluation of the Meteosat SEVIRI FRP-PIXEL product	Weideng V.
11:40	from the Land Surface Analysis Satellite Applications Facility	Weidong Xu
12:00	A temporal active fire detection algorithm applied to geostationary	Gareth Roberts
12:00	satellite observations	Gareth Roberts
12:20	Lunch Break	
13:30	Tailoring the Fire Risk Mapping product to forest managers	Carlos
13.30	Talloring the the Kisk Mapping product to forest managers	DaCamara
13:50	MSG toolbox	Tim Jacobs
	EVAPOTRANSPIRATION / DROUGHT MONITORING	
14:10	Monitoring Evapotranspiration and Drought using Thermal Remote	Chris Hain
14.10	Sensing	Cilis Haili
14:30	The LSA-SAF evapotranspiration products	Nicolas Ghilain
14:50	Coffee Break	
	A thermodynamic method to estimate actual evapotranspiration of	
15:20	a grass field resembling closely the FAO reference grass, suitable for	Henk de Bruin
	remote sensing applications: advection-free case	
15:40	ECMWF re-analysis of soil moisture	Clement Albergel
13.40	LCIVIVIT TE-alialysis of soil moisture	
16:00	ESA's Soil Moisture and Ocean Salinity Mission – contributing to	Susanne
10.00	land surface analysis	Mecklenburg
		Nemesio
16:20	A Near-Real-Time soil moisture product from SMOS observations	Rodriguez-
		Fernandez



















16:40	Monitoring the state of vegetation over Slovenia using LSA SAF	Mateja Iršic
	products	Zibert
17:00	Adjourn	

Workshop Dinner	

### 10 June

9:00	Welcome Coffee	
9:30	Evaluation of observation-driven evaporation algorithms: results	Carlos Jimenez
	of the WACMOS-ET project	
9:50	Irrigation assessment via remote sensing evapotranspiration and	Mireia
	land surface model data	Romaguera
10:10	Advanced Biogeophysical Indices for Land Surface State Analyses	Julia Stoyanova
10.10	and Drought Related Applications	Julia Stoyariova
10:30	Coffee Break	
11:00	Validation of MSG-2 SEVIRI Operational Evapotranspiration	George
11.00	Product at Selected European Sites	Petropoulos
	Land Surface Temperature	
11:20	Status of Land Surface Temperature production from the JPSS	Yunyue Yu
11.20	Mission	Tullyde Tu
11:40	Towards a Harmonized LST Product – the problem of angular	Sofia Ermida
11.40	anisotropy of LST	
12:00	Suitability of Meteosat satellite data for climatological LST	Anke Tetzlaff
12.00	retrieval	Alike Tetziali
12:20	Lunch Break	
13:30	A simple and accurate algorithm to estimate land surface	Catherine
13.30	temperature from microwave satellite observations	Prigent
12.50	Radiometric in-situ measurements over European & African sites	Frank Göttsche
13:50	for validating LSA SAF's land surface temperature product	Frank Gottsche
14:10	Comparison of diurnal heating rate estimates derived from SEVIRI	
	and MODIS (Terra and Aqua) for use in estimation of evaporative	Nathan Forsythe
	fraction for a case study in Amhara region, Ethiopia	
14:30	Coffee Break	
15:00	Comparison of model land skin temperature with remotely sensed	Isabel Trigo
	estimates to assess surface-atmosphere coupling	isabel Higo

















15:20	Maximising the benefits of satellite LST within the user community: ESA DUE GlobTemperature	Darren Ghent
15:40	LSA SAF User Survey	Carla Barroso
16:00	Plenary Session	Isabel Trigo / Martin Wooster
17:00	End of Workshop	



















#### **08-10 June: Posters Presentations**

LSA SAF: accuracy assessment of the diffuse component using SIRAMix method and input aerosol load and type  Prototyping of LSA SAF AVHRR/Metop vegetation products with VEGETATION and SEVIRI data  Algorithm development for gross primary production (GPP) in LSA-SAF  Prospective changes in the LSA-SAF evapotranspiration products  Alirio Arboleda  Time series Analysis of MODIS retrieved land surface temperatures in Lute desert  Potential for gas flare characterisation using the SEVIRI 1.6 micron channel  Land Surface Temperature Validation Against In Situ Station Data  Near-real time estimation and broadcasting of biophysical parameters from SEVIRI at the University of Valencia  Geostationary and Polar-Orbiting Satellite-Based Global Clear-Sky Surface Skin Temperature Using a Single-Channel Algorithm With Viewing Zenith  Angle Correction  Comparing satellite-derived and WRF-modeled Land Surface Temperatures for monitoring extremes over Iran  Algorithm improvement for correcting biases in LSA SAF FVC and LAI pavier Garcia Haro  Towards evapotranspiration products with increased spatial resolution  Geothermal activity assessment via remote sensing land surface temperature and simulated data  A new approach to fire detection by geostationary sensors based on temporal background  Radiative forcing from fire-induced shortwave albedo change at global scale  Prototype of LSA SAF Burnt Area Product  Prototype of LSA SAF Burnt Area Product	DownWelling ShortWave Radiation from MSG Geostationary Satellite for	Jean-Louis
Prototyping of LSA SAF AVHRR/Metop vegetation products with VEGETATION and SEVIRI data Haro  Algorithm development for gross primary production (GPP) in LSA-SAF Alvaro Moreno Martinez  Prospective changes in the LSA-SAF evapotranspiration products Alirio Arboleda  Time series Analysis of MODIS retrieved land surface temperatures in Lute desert Alavipanah  Potential for gas flare characterisation using the SEVIRI 1.6 micron channel Daniel Fisher  Land Surface Temperature Validation Against In Situ Station Data Maria Martin  Near-real time estimation and broadcasting of biophysical parameters from SEVIRI at the University of Valencia Geostationary and Polar-Orbiting Satellite-Based Global Clear-Sky Surface Skin Temperature Using a Single-Channel Algorithm With Viewing Zenith Angle Correction  Comparing satellite-derived and WRF-modeled Land Surface Temperatures for monitoring extremes over Iran Pavlidou  Algorithm improvement for correcting biases in LSA SAF FVC and LAI Javier Garcia Haro  Towards evapotranspiration products with increased spatial resolution Françoise Meulenberghs  Geothermal activity assessment via remote sensing land surface temperature and simulated data Romaguera  A new approach to fire detection by geostationary sensors based on temporal background  Radiative forcing from fire-induced shortwave albedo change at global scale  Gerardo Lopez-Saldana  Prototype of LSA SAF Burnt Area Product	LSA SAF: accuracy assessment of the diffuse component using SIRAMix	
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temporal background  Radiative forcing from fire-induced shortwave albedo change at global scale  Prototype of LSA SAF Burnt Area Product  Sofia Ermida  Gerardo Lopez- Saldana  Carlos DaCamara	and simulated data	Romaguera
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Prototype of LSA SAF Burnt Area Product  Saldana  Carlos  DaCamara	temporal background	Solia Littilua
Prototype of LSA SAF Burnt Area Product  Carlos DaCamara	Padiative forcing from fire-induced shortwave albedo change at global scale	Gerardo Lopez-
Prototype of LSA SAF Burnt Area Product  DaCamara	Tradiative forcing from fire-induced shortwave albedo change at global scale	Saldana
DaCamara	Prototype of LSA SAF Burnt Area Product	Carlos
lozo Davido	Trototype of ESA SAL Built Alea Froduct	DaCamara
The WACMOS-ET LST Dataset	The WACMOS-FT LST Dataset	João Paulo
Martins		Martins
The LSA SAF LST Operational Products: Current Status and Future  Isabel Trigo	The LSA SAF LST Operational Products: Current Status and Future	Isahel Trigo
Development	Development	13abel 11igo

