LST_cci User Workshop 2024 Agenda

05-Dec

UK time		Topic	Speaker	Duration
08:00	09:00	Registration		01:00
09:00	09:05	Fire and safety briefing	SPL Staff	00:05
09:05	**09:05**	**Introduction to CCI and LST_cci**	**Chair: Claire Bulgin (U. Reading)**	
09:05	09:15	Arrival and welcome	Welcome from U. Leicester & Lizzie Good	00:10
09:15	09:30	Overview of the LST_cci Project	Lizzie Good (Met Office)	00:15
09:30	09:45	LST in ESA's climate programme	Simon Pinnock (ESA)	00:15
09:45	10:15	Poster Lightning Presentations	Poster Presenters	00:30
10:15	10:45	Break & Poster Viewing		00:30
10:45	**10:45**	**LST_cci Products (1)**	**Chair: Abigail Waring (U. Leicester)**	
10:45	11:00	Polar orbiting Infrared LST_cci Products	Karen Veal (U. Leicester)	00:15
11:00	11:15	Geostationary Infrared LST_cci Products	Sofia Ermida (IPMA)	00:15
11:15	11:30	High-resolution Infrared LST_cci Products	Charlotte Paton (U. Leicester)	00:15
11:30	11:45	UCS#2: Assessment of ESA LST_cci Sea-Ice Surface Temperatures (IST) in the Arctic	Ioanna Karagali (DMI)	00:15
11:45	12:00	Microwave LST_cci Products	Carlos Jiménez (Estellus)	00:15
12:00	13:30	Lunch Break and Poster Viewing (+ Group Photo)		01:30
13:30	**13:30**	**LST_cci Products (2)**	**Chair: Carlos Jiménez (Estellus)**	
13:30	13:45	Merged Infrared & Microwave product	Abigail Waring (U. Leicester)	00:15
13:45	14:00	Uncertainties in the LST_cci products	Claire Bulgin (U. Reading)	00:15
14:00	14:15	Validation of the LST_cci products	Lluis Pérez-Planells (KIT)	00:15

14:15	15:15	User Requirements Discussion Session & Slido Questions	Lizzie Good & Karen Veal	01:00
15:15	15:45	Break & Poster Viewing		00:30
15:45	**15:45**	**User Case Studies**	**Chair: Lluis Pérez-Planells (KIT)**	
15:45	16:00	UCS#1: Moderate extremes indices based on LST	Josh Blannin (Met Office)	00:15
16:00	16:15	UCS#3: Urban Nighttime Warming Trends derived from LST_cci MODIS Data	Panagiotis Sismanidis (RUB)	00:15
16:15	16:30	UCS#5: Analyzing Seasonal Patterns and Temperature Extremes in Urban Areas Using MODIS Data	Irina Ontel (MeteoRomania)	00:15
16:30		Finish		

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08:00	09:00	Registration		01:00
09:00	09:05	Fire and safety briefing	SPL Staff	00:05
09:05	**09:05**	**LST Applications (1)**	**Chair: Lizzie Good (Met Office)**	
09:05	09:20	constellr HiVE, a land surface temperature monitoring mission for better resource accountability	Christophe Lerot (constellr)	00:15
09:20	09:35	A new methodology to generate infrared Land Surface Emissivity including directional effects	Sofia Ermida (IPMA)	00:15
09:35	09:50	Identification, characterization and correction of directional effects in high-resolution LST	Louis Snyders (VITO)	00:15
09:50	10:05	Improving Satellite-based Land Surface Temperature Estimates in Dust-Contaminated Atmospheres: A Generalized Split-Window Algorithm Dependent on Dust Aerosol Optical Depth	Francesco Stante (IPMA)	00:15

10:05	11:05	LST_cci data training session	ESA Knowledge Exchange Team	01:00
11:05	11:25	Break		00:20
11:25	**11:25**	**LST Applications (2)**	**Chair: Sofia Ermida (IPMA)**	
11:25	11:40	Long-term Trends of LST from a new Daytime-normalized AVHRR Time Series over Central and Southern Europe	Philipp Reiners (DLR, DFD)	00:15
11:40	11:55	Intercomparison of SEVIRI Land Surface Temperature with ERA5 reanalysis over Africa	Riccardo Monfardini (U. Reading)	00:15
11:55	12:10	Use of LST data for producing data for the FAO-WaPOR portal: past, present and future	Henk Pelgrum (eLEAF)	00:15
12:10	12:25	Using LST to better understand land atmosphere interactions and improve predictions	Christopher Taylor (CEH)	00:15
12:25	12:40	A multi-layer perceptron approach on downscaling land surface temperature for the study of surface urban heat islands	Alexandra Hurduc (IDL)	00:15
12:40	12:55	Analysis of urban surface temperature from satellite data with modelled 3D surface temperature	Maria Gkolemi (FORTH)	00:15
12:55	13:00	Wrap up and close	Lizzie Good & Karen Veal	

Posters

1	Towards subdaily Land Surface Temperature	Christian Mollière (OroraTech GmbH)
2	Assessing the accuracy of LST_cci products and analyzing LST trends in the Iberian Peninsula	Raquel Niclos, presented by Sara Arribas (Departament of Earth Physics and Thermodynamics, University of Valencia)
3	Hyperspectral Soil Property Mapping Using Thermal Infrared (LWIR) Imagery	Helge Daempfling (GFZ Potsdam)

4	Emissivity correction of 3D thermal model based on image processing and deep learning	Shaojuan Xu (Research Institute for Regional and Urban Development, Dortmund, Germany)
5	On the suitability of different satellite land surface temperature products to study surface urban heat islands	Alexandra Hurduc (Instituto Dom Luiz - IDL)
6	Downscaling urban Land Surface Temperature variations across different land cover types using high-resolution satellite imagery	Liliia Hebryn Baidy (Scott Polar Research Institute, University of Cambridge)
7	Performance validation of a commercial radiometer	Tom Snelling (STFC RAL Space)
8	Towards subdaily Land Surface Temperature	Abigail Waring (University of Leicester)
9	A low cost, small satellite constellation approach to rapidly monitor Land Surface Temperature for Urban and Agricultural applications over UK and Europe, with optimised cross calibration to ESA and Copernicus missions	Robert Elliott (Surrey Satellite Technology Ltd)
10	Nationwide surface thermal analysis to detect priority areas for urban mitigation interventions	Giulia Guerri (Istituto per la BioEconomia (IBE) - Consiglio Nazionale delle Ricerche Institute of BioEconomy (IBE) - National Research Council)
11	Development of a Climate Web Application on the EO Data Hub	Dan Ormsby (Sparkgeo)