LST_cci Workshop 2026

Place: Met Office, Exeter, UK
Date: 12-14 May 2026

NOTE: VERSION (12 May 2026)

Multi-decadal thermal remote sensing archives as a resource for global-scale mapping of permafrost change

12/05/2026: The LST_cci Project

UK time		Topic	Speaker	Duration	N Online	Notes/Questions/Comments
08:30	09:00	Registration		00:30		Might want to make longer if numbers are higher than expected. Mention toilets, shop, water dispensers. Escorting visitors.
09:00	09:05	Fire and safety briefing	Lizzie Good (Met Office)	00:05		Mention taxi forms.
09:05	**10:35**	**Session 1: Introduction to CCI and LST_cci and LST_cci Products**	**Chair: Frank-Michael Göttsche (KIT)**			
09:05	09:10	Arrival and welcome	Welcome from the Met Office and U. Leicester	00:05		Inform people about Wifi access and that we will get help in the breaks if needed. Mention Eduroam. Please keep name tags for the duration of the event to avoid wastage and hand back at the end of the workshop. Notify people of taxi bookings and buses. Can do taxi forms at start of the event. Remind presenters we are recording and streaming on Teams and to let us know (if not done so already) if they don't want their presentation recorded or shared online after the workshop.
09:10	09:25	Overview of the Met Office	Nick Rayer (Met Office)	00:15		Nick confirmed this is OK.
09:25	09:40	Overview of the LST_cci Project	Darren Ghent (U. Leicester)	00:15		
09:40	09:55	LST in ESA's climate programme	Simon Pinnock (ESA)	00:15		
09:55	10:15	Polar orbiting Infrared LST_cci Products	Karen Veal (U. Leicester)	00:20		
10:15	10:35	Geostationary Infrared LST_cci Products	Sofia Ermida (IPMA)	00:20		
10:35	11:05	Break (hosted by the project)		00:30		Mention about keeping moving not to block the tables with drinks
11:05	**12:25**	**Session 2: LST_cci Products 1**	**Chair: Sofia Ermida (IPMA)**			
11:05	11:25	High-resolution Infrared LST_cci Products	Charlotte Paton (U. Leicester)	00:20	20 online	
11:25	11:45	Microwave LST_cci Products	Carlos Jiménez (Estellus)	00:20		
11:45	12:05	Merged Infrared & Microwave product	Abigail Waring (U. Leicester)	00:20	20 online	
12:05	12:25	Uncertainties in the LST_cci products	Claire Bulgin (U. Reading)	00:20		Mention drop sessions
12:25	13:25	Lunch (hosted by the project)		01:00		
13:25	**15:05**	**Session 3: LST_cci Products 2**	**Chair: Carlos Jiménez (Estellus)**			
13:25	13:45	Validation of the LST_cci products	Frank Goettsche & Olimipia Bruno (KIT)	00:20	18 online	
13:45	14:05	UCS#2: Assessment of ESA LST_cci Sea-Ice Surface Temperatures (IST) in the Arctic	Ioanna Karagali (DMI, Remote)	00:20	19 online	Remote presentation time confirmed OK.
14:05	15:05	User Requirements Discussion Session & Slido Questions	Lizzie Good & Karen Veal	01:00		Mention drop sessions. Could present ESMValTool training session sign up here and LST_cci drop in session.
15:05	15:35	Break (hosted by the project)		00:30		
15:35	**17:00**	**Session 4: Towards development of new datasets for LST_cci data**	**Chair: Lizzie Good (Met Office)**			
15:35	15:55	Overview of the LST_cci Regridding & Subsetting Tool	Jérôme Bruniquel (ACRI-ST, Remote)	00:20		Remote presentation time confirmed OK. Mention drop sessions
15:55	16:15	Development of a new MODIS LST_cci Dataset based on Optimal Estimation (OE)	Ben Courtier (U. Leicester, Remote)	00:20	15 online	Remote presentation time confirmed OK.
16:15	16:40	UCS#1: Moderate extremes indices based on LST	Josh Blannin (Met Office)	00:25	12 online	Josh is happy with 20-25 mins.
16:40	17:00	Poster Lightning Presentations	Poster Presenters	00:20		Currently only three posters, but we will ask existing delegates to let us know if they have an existing poster they would like to bring and show.
17:00	18:00	Poster Viewing, Canapés and Drinks (hosted by the project)	To be held at the Met Office	01:00		Need to finish on time for catering.
18:00	20:00	Dinner - 2 courses & drinks (hosted by the project)	To be held at the Met Office	02:00		

13/05/2026: Satellite LST dataset developers and users

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08:30	09:00	Registration		00:30		Might want to make longer if numbers are higher than expected. Mention toilets, shop, water dispensers. Escorting visitors.
09:00	09:05	Fire and safety briefing	Lizzie Good (Met Office)	00:05		
09:05	**10:30**	**Session 5: LST Applications 1**	**Chair: Josh Blannin (Met Office)**			
09:05	09:35	UCS#6: Water Stress and Diurnal Asymmetry of ET, LST, and Conductance Coupled with GPP–SIF Suppression: Insights from CCI-LST Geostationary Observations	Kaniska Malllick (CESBIO (formally at LIST), Remote)	00:30	14 online	Remote presentation time confirmed OK.
09:35	10:00	UCS#4: Super Extreme Land Surface Temperature Hotspots	Lizzie Good (Met Office)	00:25		Confirmed attendance - only 25 mins required
10:00	10:30	UCS#3: Changes in LST over urban and rural areas	Panagiotis Sismanidis (RUB/NOA, Remote)	00:30	18 online	Remote presentation time confirmed OK.
10:30	11:00	Break (hosted by the project)		00:30		
11:00	**12:05**	**Session 6: LST Applications 2**	**Chair: Charlotte Paton (U. Leicester)**			
11:00	11:25	UCS#5: Seasonal patterns of the Surface Urban Heat Island in European cities	Vlad Amihaesei (MeteoRomania, Remote)	00:25	18 online	Remote presentation time confirmed OK. Presenter confirmed.
11:25	11:45	User Engagement Challenges in LST Mapping for Small Cities: The Case of Bern, Switzerland	Htet Yamin Ko Ko (International Space Science Institute)	00:20		
11:45	12:05	LATInsights: Democratising Land Surface Temperature Analytics for Urban Climate Governance through Conversational AI	Antonio Elia Pascarella (Latitudo 40)	00:20	17 online	

12:05	13:05	Lunch (hosted by the project)		01:00		
13:05	**15:10**	**Session 7: LST Applications 3**	**Chair: Claire Bulgin (U. Reading)**			
13:05	13:25	Evaluating soil moisture-surface flux dynamics during flash droughts in CMIP6 models	Bethan Harris (CEH)	00:20	10 online	
13:25	13:45	A satellite-based assessment of ERA5 soil moisture and land surface temperature interannual co-variability	Sofia Ermida (IPMA)	00:20		
13:45	14:05	LST role in Forest Disturbance in Western Ghats, India	Komal Rai (Indian Institute of Technology Bombay)	00:20		
14:05	14:25	Using satellite LST in climate science applications	Lizzie Good (Met Office)	00:20		
14:25	14:45	In situ surface temperature data for climate applications	Robert Dunn (Met Office)	00:20	13 online	Title TBC
14:45	15:10	Discussion on using satellite LST in climate science	All	00:25		Format for future workshops?
15:10	15:40	Break (hosted by the project)		00:30		
15:40	**17:00**	**Session 8: LST Applications 4**	**Chair: Abigail Waring (U. Leicester)**			
15:40	16:00	Operational Heat-Risk Monitoring for Solar Farms Using EO-Derived Land Surface Temperature Under High Irradiance Thresholds: A User-Driven Demo over Hollyhurst Farm, United Kingdom	Enes Hisam (GMV NSL)	00:20		
16:00	16:20	Resolving Angular Inconsistency in GEO and LEO CCI Land Surface Temperature Products Using a Physics-Informed Deep Learning Model	Qiang Na (IPMA, Remote)	00:20	15 online	Remote presentation. Time confirmed OK.
16:20	16:40	Land Surface Temperature from OroraTech's Thermal Infrared Constellation	Anastasia Sarelli (Ororatech)	00:20		
16:40	17:00	LSTM	Mike Perry (U. Leicester, Remote)	00:20		Remote presentation. Time confirmed OK.
17:00	18:00	Poster Viewing, Canapés and Drinks (hosted by the project)	To be held at the Met Office	01:00		Need to finish on time for catering.
18:00	20:00	Dinner - 2 courses & drinks (hosted by the project)	To be held at the Met Office	02:00		

14/05/2026: ESMValTool Training and LST drop in session

	UK time		Topic	Speaker	Duration		Notes/Questions/Comments
	08:30	09:00	Registration		00:30		Might want to make longer if numbers are higher than expected. Mention toilets, shop, water dispensers. Escorting visitors.
	09:00	09:05	Fire and safety briefing	Lizzie Good	00:05		
	09:05	**10:05**	**Session 9: ESMValTool Session 1**				
	09:05	09:35	ESMValTool Background and Development		00:30	12 online	
	09:35	10:05	ESMValTool Application: LST	Rob King (Met Office & CMUG)	00:30		
	10:05	10:35	Break (hosted by the project)		00:30		
	10:35	**12:20**	**Session 10: ESMValTool Session 2**				
Parallel LST_cci 'drop in' session	10:35	10:45	ESMValTool Demonstration	ESMValTool Team	00:10		
	10:45	10:55	ESMValTool Online Tutorial Orientation	ESMValTool Team	00:10		
	10:55	11:55	ESMValTool Guided Hands on Experience	ESMValTool Team	01:00		
	11:55	12:15	Introduction to Advance Training Tutorial	ESMValTool Team	00:20		
	12:15	12:20	Wrap up and close	Lizzie Good & Darren Ghent	00:05		
	12:20	13:20	Lunch (hosted by the project)		01:00		

Posters

1	MOTECUSOMA: MOnitoring The Energy Cycle for a better UnderStanding Of cliMate change	Gilles Larnicol (Magellium) (Presented by Karen Veal, U. Leicester)	PDF and permission to share confirmed OK.Nnote Lizzie renamed Josh's original filename as it was named after Colin, but is being presented by Karen.
2	Surface air temperature from satellite LST for a better understanding of climate change	Karen Veal (U. Leicester)	PDF and permission to share confirmed OK.
3	A cross-domain air temperature analysis for the MOTECUSOMA project	Colin Morice (Met Office)	PDF received, just waiting for sharing permission
4	Representing Lake Surface Dynamics in Earth System Reanalyses	Margarita Choulga (ECMWF)	PDF and permission to share confirmed OK.
5	Multi-decadal thermal remote sensing archives as a resource for global-scale mapping of permafrost change	Sonia Dupuis (U. Bern), Frank Goettsche (KIT)	PDF and permission to share confirmed OK.
6	Emissivity Inputs for High Resolution LST Retrievals and Downscaling	Charlotte Paton (U. Leicester)	PDF received, just waiting for sharing permission
7	The Met Office and the climate model evaluation community: a story of collaborations, challenges and conversations	Emma Hogan, Alistair Sellar (Met Office)	PDF and permission to share confirmed OK.
8	Reliable and reproducible Earth System Model data analysis with ESMValTool	Valeriu Predoi (NCAS/U. Reading)	PDF and permission to share confirmed OK.
9	Impacts and evaluation of vegetation phenology changes on observed and modelled land-atmosphere processes	Daniele Peano (CMCC)	PDF and permission to share confirmed OK.

10	Assessment and evaluation of the role of vegetation on hydrometeorological processes in CMIP models	Rob King (Met Office)	PDF and permission to share confirmed OK.

LST drop-in session			
Support using the regridding tool (no one from ACRI in person, but we have experience of the tool within the project team and can collect questions to feedback after the workshop).	Abi Josh Karen Charlotte	**All to make notes where possible with feedback, questions, etc.** Split room into two themes, each with two sub-themes, but we can all move around as needed. Demo of the regridding tool - could use an interactive screen? Share simple Python code and how to read the data. Use Binder that Mike produced for previous workshop. Collect questions on regridding tool to send to Jules after the workshop. Could organise a short online training session post workshop if there is user appetite. Could run an online session - Mike has offered.	Questions to Jules need to be sent before Thursday lunchtime. Carlos to leave early.
Support in the technical use of LST_cci data, including making use of the Python code we have provided at previous workshops			
Advice on choice of which LST_cci datasets to use within different LST applications, and general scientific study advice with respect to LST. What are users doing with LST?	Lizzie Darren Sofia Claire Frank Olimpia		
Questions about LST_cci datasets, including uncertainties			