



Joint EUSTACE and GlobTemperature User Workshop

**Lisbon, Portugal
27 – 29 November 2017**

Final Agenda – 21 November 2017

Meeting hosted by IPMA



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1. WELCOME TO THE JOINT EUSTACE AND GLOBTEMPERATURE USER WORKSHOP

Welcome to participants in the first joint user workshop of the EUSTACE and GlobTemperature projects.

2. ORGANISATION

2.1. Oral Presentations

Presentation should be made according to the time allotted in the Agenda.

2.2. Poster Presentations

Poster should be 90cm wide x 120cm high (A0 size), **portrait**. Please provide a .pdf file of your poster for inclusion on the meeting webpage. **Files must not exceed 1.5 MB**, and delivered to Gary Corlett (gkc1@le.ac.uk).

The poster session is split into two groups so that everyone has an opportunity to review the posters and speak with the presented. If you are presenting then please be at your poster at the time indicated. If you are not presenting then please only review the active posters at any one time.

2.3. Breakout Groups

There are two parallel breakout groups listed on the agenda.

2.4. Session Chairs

The main tasks of a session chair are to briefly introduce each speaker, keep the presentations to the time allowed, and lead/moderate the discussion. The chair should work closely with the rapporteur to prepare a short summary of the session.

Session summary reports should be delivered to the Darren Ghent (djg@le.ac.uk) before the end of the meeting if possible.

2.5. Rapporteurs

The purpose of the rapporteurs is to capture important information during each session. In preparing your session reports, you should avoid making lengthy summaries of the presentations and discussions. Please concentrate on issues which relate directly to the objectives of the session and any key actions.

3. AGENDA (DRAFT)

3.1. Monday 27th November 2017

Monday, 27th November 2017

12:30-13:00 Registration

13:00-13:15	Nick Rayner John Remedios	Welcome and news
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<p>EUSTACE Overview and Science Highlights Chair: Nick Rayner; Rapporteur: Janette Bessembinder</p>		
13:15-13:30	Nick Rayner	Overview of EUSTACE, SATSTACE and FULSTACE
13:30-13:45	Elizabeth Good	Estimating surface air temperature from satellite data for the EUSTACE global temperature analysis
13:45-14:00	Karen Veal	Assessment of EUSTACE surface air temperatures and accompanying uncertainty estimates (validation and intercomparison)
14:00-14:15	Nick Rayner	Creating a globally complete temperature dataset (statistical methods for infilling)
14:15-14:30	Chris Merchant	Dealing with and quantifying uncertainties
14:30-14:35	Alison Waterfall	Data file structure and user guides
14:30-15:00	Discussion led by session chair	

15:00-15:30 Tea/Coffee Break

<p>GlobTemperature Overview and Science Highlights Chair: John Remedios; Rapporteur: Claire Bulgin</p>		
15:30-15:40	Darren Ghent	Overview of GlobTemperature
15:40-15:50	Isabel Trigo	Merged Product
15:50-16:05	Darren Ghent Elizabeth Good	CDR Developments

Monday, 27th November 2017

16:05-16:20	Frank Goettsche Darren Ghent	Land Surface Temperature In Situ Validation and Satellite Intercomparisons Within The GlobTemperature Project
16:20-16:30	Jerome Bruniquel	Future proofing for products, tools and data portal
16:30-17:00	Discussion led by session chair	

17:00-17:15	Nick Rayner John Remedios	Review of Plenary Sessions
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17:15-19:15	Poster Session		
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See Section 2.2 for further information

Number	Presenter	Title	Group
1	Till Rasmussen	Observed ice surface temperatures and the potential integration into a coupled ocean and sea ice model	A
2	Sadroddin Alavipanah	The association of multi-dimensional indicators on the quality of life in urban area	B
3	Panagiotis Sismanidis	Using the Annual Cycle Parameters as Disaggregation Kernels for Downscaling Diurnal Land Surface Temperatures	A
4	Emma Dodd	Towards a Combined Surface Temperature Dataset for the Arctic from the Along-Track Scanning Radiometers	B
5	Yuhan Rao	A Bayesian Maximum Entropy (BME) framework for generating high spatial resolution surface temperature dataset combining various satellite products and ground measurements	A
6	Jennifer Brooke	LIAISE: Land surface interactions with the atmosphere over the Iberian semi-arid environment	B

7	Efthymia Pavlidou	Uncertainty propagation in contextual monitoring of localized LST fluctuations	A
8	Monika Hajto	The use of land surface temperature products for urban heat island research – case studies for Krakow (Poland)	B
9	Janette Bessembinder	Homogenization of ECA&D temperature series	A
10	Pia Nielsen-Englyst	Observed relationships between surface “skin” temperatures and air temperatures in the Arctic	B
11	Julia Stoyanova	Linking radiative skin temperature from Meteosat and the air temperature conditions during heat wave episodes in a moisture-limited region of Mediterranean	A
12	Luis Costa	A model of human adaptation to heat-stress for use in climate-impact studies.	B
13	Sara Venafra	Kalman filter retrieval of surface temperature and emissivity from SEVIRI: Update of the application to the SEVIRI full disk	A
14	Virgilio Bento	Climatological assessment of drought impact on vegetation health using NDVI and LST	B
15	Alison Waterfall	EUSTACE data access and user guides	A
16	Mary Langsdale	High spectral resolution emissivity determination in the laboratory in support of airborne hyperspectral emissivity retrievals.	B
17	Joao Martins	A comparison of all-weather land surface temperature products.	A

Group Presentation Times

A: 17:15 to 18:15

B: 18:15 to 19:15

3.2. Tuesday 28th November 2017

Tuesday 28 th November 2017		
<p>Case studies on extreme events Chair: Janette Bessembinder; Rapporteur: Alison Waterfall</p>		
09:00-09:20	Jakub Walawender	The use of land surface temperature products for urban heat island research – a summary of research activities for Krakow (Poland)
09:20-09:40	Sjoukje Philip	The extreme summer heat wave of 2017 in Southern Europe
09:40-10:00	Gerard van der Schrier (Remote)	Extremes and uncertainties in ECA&D and E-OBS
10:00-10:30	Discussion led by session chair	
<p>10:30-11:00 Tea/Coffee Break</p>		
<p>EarthTemp session on relationships (sea, land, ice, lake, air) at margins Chair: Isabel Trigo; Rapporteur: Ana Pires</p>		
11:00-11:20	Jennifer Brooke	Using airborne and satellite measurements for evaluating the Met Office Unified Model (UM) simulated land surface temperature
11:20-11:40	Claire Bulgin	Challenges of cloud masking IR imagery over different surfaces
11:40-12:00	Jacob Hoeyer	Deriving Arctic near surface air temperatures from satellite
12:00-12:20	Chris Merchant	Thermal observations of inland waters
12:20-13:00	Discussion led by session chair	
<p>13:00-14:00 Lunch</p>		

Tuesday 28th November 2017

14:00-15:00	<p>Breakout Session 1: Continuity of climate quality air temperature records Chair: Janette Bessembinder; Rapporteur: Alison Waterfall</p> <p>Elizabeth Good: Estimating land surface air temperature from satellite data for the EUSTACE global temperature analysis</p> <p>Huai-Min Zhang: The Next Version of NOAA's Global Surface Temperature Dataset, NOAA GlobalTemp (Remote)</p> <p>Discussion led by session chair</p>	<p>Breakout Session 2: Future developments in LST Chair: Frank Goettsche; Rapporteur: Jerome Bruniquel</p> <p>Bob Yue: Enterprise Algorithm Development of Land Surface Temperature Production for NOAA Satellite Missions</p> <p>Susanne Mecklenburg/Darren Ghent: Land surface temperature products from Sentinel-3 SLSTR</p> <p>Isabel Trigo: Retrieval of land surface temperature from the new generation of geostationary sensors.</p>
15:00-16:00	Plenary discussion on requirements for future climate services (led by John Remedios)	
16:00-16:30	Tea/Coffee Break	
16:30-18:00	Darren Ghent John Remedios	ILSTE Working Group and GCOS Status
20:00-22:00	Non-hosted dinner	

3.3. Wednesday 29th November 2017

Wednesday 29th November 2017

General User Presentations I Chair: Elisabeth Good; Rapporteur: Janette Bessembinder		
09:00-09:20	Maria Jimenez	Estimating the air temperature from remote sensing surface temperature observations
09:40-09:40	Alexandar Ruzmaikin	The pattern and trend of the Earth's surface temperature from AIRS measurements
09:10-09:30	Cheolhee Yoo	Statistical Estimation of Urban maximum and minimum air temperatures using MODIS satellite data
10:00-10:30	Discussion led by session chair	

10:30-11:00 Tea/Coffee Break

General User Presentations II Chair: Claire Bulgin; Rapporteur: Emma Dodd		
11:00-11:20	Katarzyna Dabrowska-Zielinska	Validation of land surface temperatures derived from NOAA.AVHRR, TERRA.MODIS and Sentinel-3 SLSTR for estimating evapotranspiration over croplands and wetlands in Poland
11:20-11:40	Maria Fabrizia Buongiorno	Multi scale multi temporal near real time approach for volcanic eruption study
11:40-12:00	Benjamin Bechtel	Time series analysis for LST data for climatology and air temperature estimation
12:00-12:30	Discussion led by session chair	

12:30-12:45	Nick Rayner Darren Ghent	Final remarks
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4. MEETING DETAILS AND REGISTRATION

The meeting website provides a summary of details on the meeting venue, travel, visa, accommodation and local information.

4.1. Meeting venue

The meeting will be held at the Pavilhão do Conhecimento in Lisbon, Portugal.

4.2. Tea/coffee/lunch

Tea and coffee is provided during breaks in the programme where indicated. Also, a buffet lunch will be provided on Tuesday lunchtime.

Welcome drinks will be served during the poster session.