



GlobTemperature

Strengthening user uptake of satellite land surface temperature

User Consultation Meeting

John McIntyre Conference Centre, University of Edinburgh, Scotland

27-28 June 2012

AGENDA (v1.5)

Wednesday 27 June 2012 (Prestonfield Room)

13.30 Registration

14.00 Introduction and Objectives

Simon Pinnock & Olivier Arino, ESA/ESRIN, Italy

Session 1: Satellite remote sensing of Land Surface Temperature (Chairman: O. Arino)

14.20 Climate and other applications of 20 years of Along Track Scanning Radiometer LST measurements

Fred Prata and Philipp Schneider, NILU, Norway

14.40 The AATSR LST retrieval: state of knowledge and current developments

Darren Ghent, U. Leicester, UK

15.00 LST from the Eumetsat Land-SAF and EC GeoLand-2

Isabel Trigo, Instituto de Meteorologia, Portugal

15.20 A Unified MODIS Land Surface Temperature (LST) Record

Glynn Hulley & Simon Hook, NASA-JPL, USA

15.40 LST product development, validation and applications at NOAA/NESDIS

Yunyue (Bob) Yu, NOAA-NESDIS, USA

16.00 LST from Sentinel-2 and 3 Missions: a conceptual framework

José Sobrino, U. Valencia, Spain

16.20 Coffee

Session 2: User Needs - Climate Applications (Chairman: P. Thorne)

16.40 How can satellite LST inform / contribute to multi-decadal LSAT analyses?

Peter Thorne, NOAA-NCDC, USA

17.00 The EarthTemp Network

Chris Merchant, U. Edinburgh, UK

17.20 Development, evaluation, and use of 'all weather' satellite-derived LST for climate applications

Catherine Prigent & Carlos Jimenez, OBSPM, France

17.40 Potential use of Satellite LST for NWP and Climate

Roger Saunders & Elizabeth Good, Met Office, UK

18.00 Welcome Drink (St Trinneans Room, until 20.00)

Thursday 28 June 2012 (St Trinneans Room)

08.30 Coffee

Session 3: User Needs - Meteorology & Land Surface Processes (Chairman: R. Saunders)

- 09.00 Verification of high-resolution mesoscale simulations using satellite-derived LST
Maria Antonia Jimenez Cortes, Universitat de les Illes Balears, Spain
- 09.20 Data assimilation of LST: the implications for hydrological modelling
Darren Ghent, U. Leicester, UK
- 09.40 Combining EO data streams to identify land-surface, atmosphere feedbacks
Rich Ellis, Centre for Ecology and Hydrology, UK
- 10.00 Use of LST data for land surface model evaluation and calibration
Catherine Ottlé, LSCE, France
- 10.20 Use of LST products for operational monitoring of regional evaporation and biomass growth
Henk Pelgrum & Wim Bastiaanssen, eLEAF, The Netherlands

10.40 Coffee

Session 4: User Needs - Land Surface Monitoring (Chairman: C. Duguay)

- 11.00 The potential of LST for the European Drought Observatory (Possibilities & Needs)
Guadalupe Sepulcre & Jürgen Vogt, EC Joint Research Centre, Italy
- 11.20 Land surface temperature as the input to indices for drought monitoring in agriculture and monitoring of wetlands status in Poland
Katarzyna Dabrowska-Zielinska, Institute of Geodesy and Cartography, Poland
- 11.40 Identification of Land Surface Temperature and Albedo Trends in AVHRR Pathfinder data from 1982 to 2005 for northern Siberia
Marcel Urban & Chris Schmullius, U. Jena, Germany
- 12.00 User requirements for LST for Arctic monitoring and modelling
Claude Duguay, U. Waterloo, Canada
- 12.20 Surface temperature of ice sheets and sea ice from satellites
Jacob Hoeyer, Danish Meteorological Institute, Denmark
- 12.40 Surface thermal analysis by EO data to support the monitoring of Italian Volcanoes
Maria Fabrizia Buongiorno, Istituto Nazionale di Geofisica e Vulcanologia, Italy

13.00 Lunch

14.00 Session 5: Discussion (Chairman: S. Pinnock)

Users' requirements for satellite LST, and what needs to be done to meet those requirements?

- Identification of Priority User Requirements for global scale LST information
- Identification of Priority Technical Developments necessary to meet those needs with satellite derived information
- Plan Next Steps and Schedule

Conclusions

15.00 End of Meeting