



# Taking the temperature of the Earth:

## Temperature Variability and Change across all Domains of Earth's Surface

1st annual EarthTemp Network meeting

25 - 27 June 2012, Edinburgh

### Programme

#### Sun., 24 June 2012 -- Registration

- 17.00-19.00 Registration
- 17.00-21.30 Informal opportunity to meet other delegates in the bar  
(the bar also offers light meals)

#### Mon., 25 June 2012 -- Scene setting

Objectives:

1. To share broad authoritative overview of the state of the science relating to Earth's surface temperature (as variously defined)
2. To allow participants to start new conversations that will further the science in future

- 8.15 Coffee and late registration
- 9.00 Welcome and logistics
- 9.15 The EarthTemp Network -- 'What for?' and 'How'
- 9.40 Making connections -- exercise to get people meeting each other and talking
- 10.00 **Phil Jones and José Sobrino: Joint Keynote 1 - Chair: John Remedios**  
**Scientific challenges in observing temperature across the continents**  
On the issues of measuring "surface air temperature"  
and "land surface temperature" and relating the two.
- 10.50 Coffee



- 11.20 **Elizabeth Kent and Chris Merchant:** Joint Keynote 2 - Chair: Nick Rayner  
**Scientific challenges in observing temperature across the oceans**  
On the issues of measuring “marine air temperature”  
and “sea surface temperature” and relating the two
- 12.10 Lunch (in venue)
- 13.10 **Ignatius Rigor and Dorothy Hall:** Joint Keynote 3 - Chair: Chris Merchant  
**Scientific challenges in observing temperature across the cryosphere**  
On the issues of measuring sea-ice, land-ice  
and snow temperature and air-above-ice
- 14.00 **Albert Klein Tank and John Kennedy:** Joint Keynote 4 - Chair: Nick Rayner  
**Synthesis and understanding**  
On data set creation, benchmarking, and historical reconstruction
- 14.50 Reflections on keynote talks and scope out following day’s breakout groups
- 15.15 Coffee & poster venue opens
- 15.30 Smart Poster Session introduction
- 18.00 End of Poster Session
- 18.30-20.30: Buffet, Ice Breaker and Traditional Scottish Ceilidh



## Tue., 26 June 2012 -- Breakout Groups

Breakout discussions tasked to formulate statement of scientific priorities for next 5-10 years.  
Each topic will be discussed in several parallel groups.

- 9.00-10.00 Breakouts: Intercomparison of Surface Temperatures - priority actions to increase understanding of differences
- 10.10-11.10 Breakouts: Surface Temperatures across sparsely observed zones
- 11.10-11.30 Coffee
- 11.30-12.30 Breakouts: Quantifying uncertainties and making them useful
- 12.30 Lunch (in venue)
- 14.00-15.15 Specific topics - one breakout group for each of the following topics:  
Surface temperature across cryosphere  
Coastal zone and inland waters (land / sea margins)  
Urban temperatures and human comfort  
Uses of re-analyses in to inform surface temperature issues
- 15.15-15.30 Coffee
- 15.30-16.30 Breakouts: What are the needs of users and how does this affect what we do?
- 16.40-17.15 Collaboration incubator
- 17.15 Adjourn

## Wed., 27 June 2012 -- Feedback and Synthesis

- 9.00-10.30 Breakout leaders to report key findings
- 10.30-11.00 Coffee
- 11.00-12.30 Refining vision for future EarthTemp Network events  
Feedback on new ideas and collaborations  
The EarthTemp Network Visiting Scientist scheme and how to apply
- 12.30 Close and lunch

**NB Although a separate event, after lunch a 1 ½ day user consultation event will commence, run by the European Space Agency, in preparation for issuing tenders for their programme “GlobTemperature”. Attendees of the EarthTemp Network meeting will be welcome to register to attend this event also. For details, please see the ESA website at: <http://due.esrin.esa.int/meetings/meetings278.php>**



## Further Meeting Information

No registration fee.

Lunch provided free in venue (Days 1 to 3 incl.).

Food available during free evening event on Day 1.

Around 60 delegates expected, by invitation.

Professional conference venue on University campus, with access to a range of options and costs for accommodation on campus and beyond.

For more details and updates, visit the [EarthTemp website](#).

## EarthTemp Network People

### **Chris Merchant (Principal Investigator)**

University of Edinburgh

### **Nick Rayner (Co-Principal Investigator)**

Hadley Centre (UK Met Office)

### **John Remedios (Co-Principal Investigator)**

University of Leicester

### **Stephan Matthiesen (Project manager)**

University of Edinburgh

## Steering group

### **Phil Jones**

University of East Anglia (UEA)

### **Jacob L. Høyer**

Danish Meteorological Institute (DMI)

### **Folke Olesen**

Karlsruhe Institute of technology (KIT)

### **Hervé Roquet**

Centre de Météorologie Spatiale, Meteo-France

### **José Sobrino**

University of Valencia

### **Peter Thorne**

National Oceanic and Atmospheric Administration (NOAA)