



COST

# A European Brewer Network - EUBREWNET ES1207

Start date: 29/04/2013

End date: 29/04/2017

Year: ***Starting***

**John Rimmer**

Chair

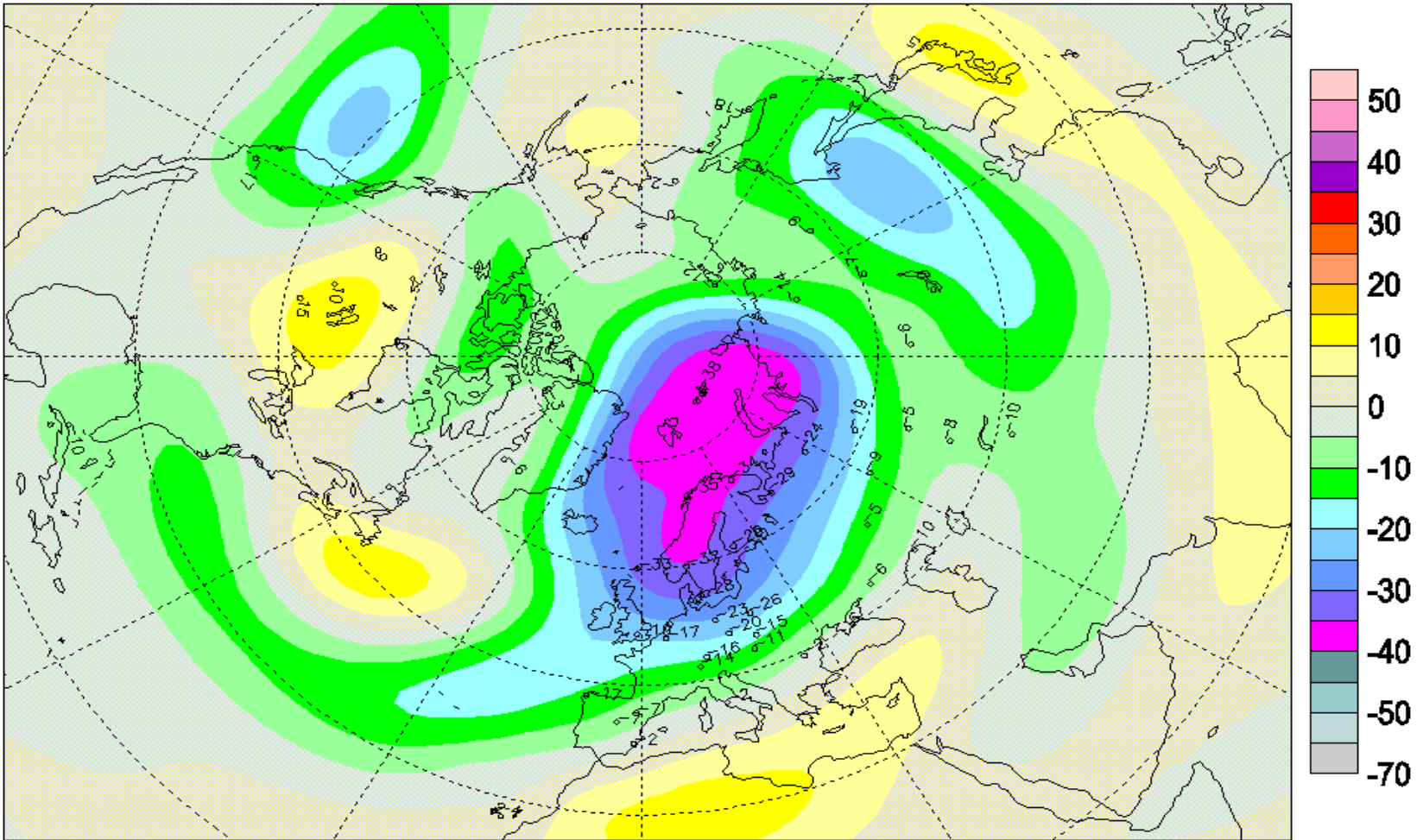
University of Manchester, UK

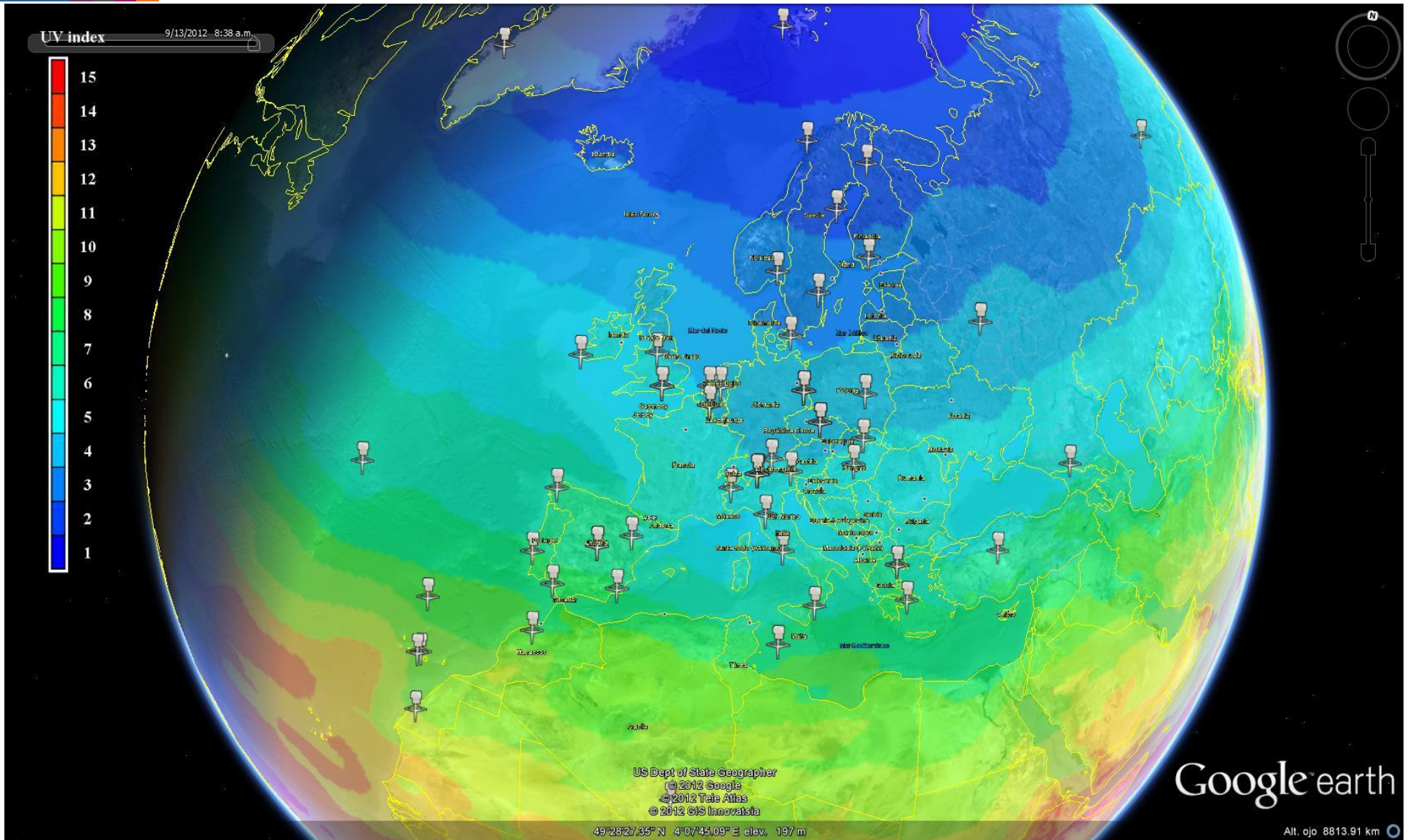


# Scientific context and objectives (1/2)

- **Background:** Although our understanding of the processes that affect ozone concentrations in the stratosphere have grown significantly in recent years, there are still uncertainties in the predictions of future trends and the quantification of the effects of policy measures to protect the Ozone Layer.
- **Brief reminder of MoU objectives:** To establish a coherent network of European Brewer Spectrophotometer stations to harmonise and achieve consistency in QC, QA and coordinated operations for ozone, UV and AOD.

## Deviations (%) / Ecart (%) , 2011/03/30







## Scientific context and objectives (2/2)

- **Research directions:**
- Instrument characterisation. Standardisation of calibration protocols. Standard data processing algorithms. Effective QA/QC systems linked to satellite data. Understanding of uncertainties.
- Co location of ozone, UV and AOD(UV) measurements with spatial consistency for feedback into model predictions from satellite data.



# Working groups

1. Working group 1: Characterisation and calibration. **(Julian Groebner)**
2. Working group 2: Algorithm development **(Tomi Karppinen)**
3. Working group 3: Network governance and data management. **(Veerle De Bock)**
4. Working group 4: Users, public outreach and application. **(Alkis Bais)**



# Future Plan and Challenges

- Site characterisations.
- Instrument characterisation methods (e.g. stray light, filters, field of view).
- Calibration methods for AOD.
- Data processing algorithms.
- Error budgets.
- Database development.



# Who can join

- COST countries.
- COST near neighbour countries.
- Institutes from non-COST countries.
- International organisations.
- Info at [www.cost.eu](http://www.cost.eu)





# Short Term Scientific Missions

- Mainly for, but not restricted to, ESR
- Carry out research project in a different COST country institution.
- Minimum period 1 week.
- Up to 3 months max grant EUR 2500
- Over 3 months max grant EUR 3500
- Apply <https://eservices.cost.eu/stsm>



**Thank You**