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CAMBRIDGE SOCIETY FOR THE APPLICATION OF
RESEARCH

Taking the Long View

Professor John Taylor

Professor of Land Resources Monitoring and Remote Sensing
National Soil Resources Institute, Cranfield

Monday 3rd February 2003: 7.30 p.m. - 9.00 p.m.

The Wolfson Lecture Theatre, Churchill College, Cambridge

Chair: Dr B J Devereux, Director of Committee for Aerial Photography, University of Cambridge

Vote of Thanks: Brian Ford, CSAR Member of Council

Professor John Taylor will talk about his work at the National Soil Resources Institute at Silsoe, University of Cranfield. His speciality is in the design and the implementation of land resource surveys using sensing and GIS techniques. Work at his Department includes:

- Preparing agricultural inventories
- monitoring agricultural production
- monitoring natural land cover and landscape change
- assessment of primary production and land degradation in rangelands
- monitoring within-field variation of crops for precision farming

His background includes soil and water conservation engineering, hydrology, soil physics, and practical agriculture (cereal crops, grassland and cattle). He works all over the world, (and has just returned from Africa); his main interests lie in surveys involving Western Europe, South America, Semi-arid Africa and Indonesia.

The techniques used include

- Satellite and aerial photograph remote sensing incorporating visual interpretation, digital image processing and GIS
- Statistical design and analysis of resource surveys
- Organisation and implementation of resource surveys
- Land classification and vegetation assessment

Here are some images to be going on with!

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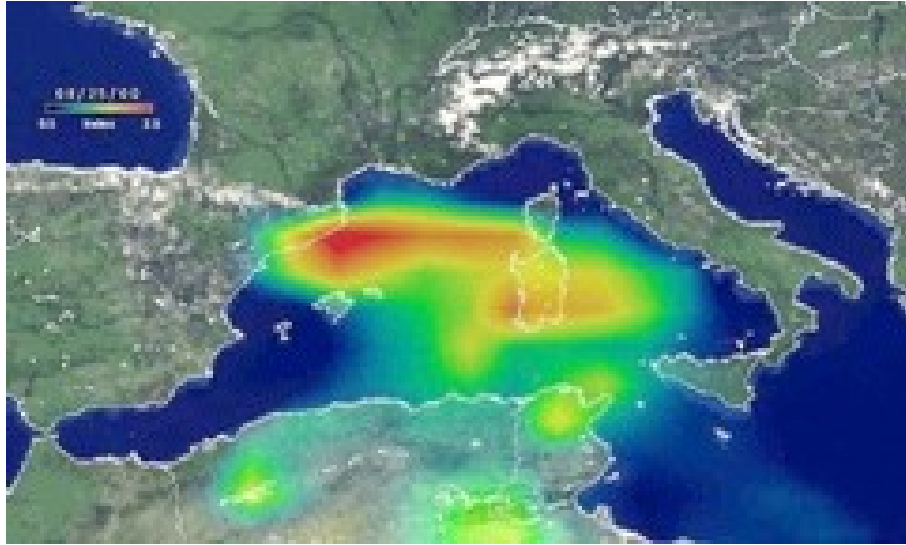
Richard Freeman

CSAR Organising Secretary

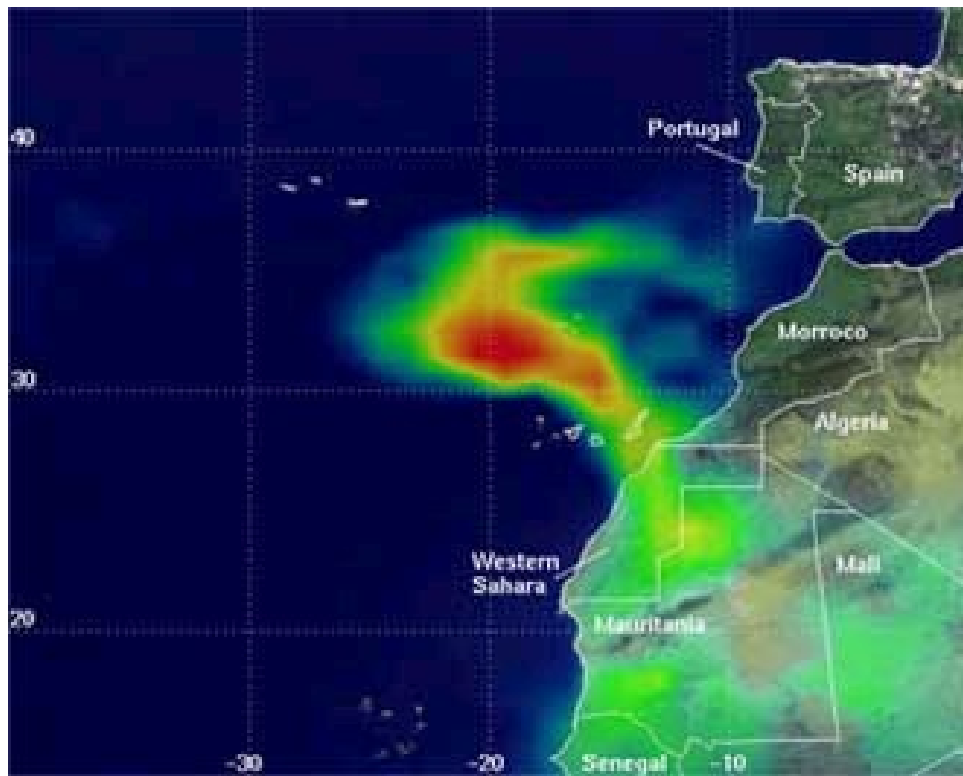
Weather systems over Southern Europe and North Africa



Dust plumes over the Mediterranean



Dust plumes off the Atlantic coast of North Africa





Weather system over the Bay of Biscay