

National Centre for Earth Observation

Exposing how the Earth system works

NCEO Annual Science Meeting 2009

The html file linking directly to these presentations can also be found at :
http://www.nceo.ac.uk/science2009_presentations/nceo_science_2009.html

Wednesday 02 September

Inaugural Lecture

[1.ppt](#) Inaugural Lecture Jose Achache Director of GEO Secretariat (36Mb)

Ancillary files

[Airs Carbon Dioxide MaunaLoaOverlay.wmv](#) (1.6Mb)

[GEOAFRICA CRISIS 26_03_2008cc.avi](#) (16Mb)

[Iridium All 2ndary Missions Movie HD.wmv](#) (22Mb)

Thursday 03 September

Session 1a

[2.ppt](#) Introductions and welcome - Alan O'Neill - Science Director NCEO (1.3Mb)

[3.ppt](#) High resolution radar for volcano risk management - Geoff Wadge - U of Reading (35Mb)

[4.pdf](#) Rapid response to the Chaitén eruption provides once in a decade opportunity to refine models of ash dispersal - David Pyle - U of Oxford (4.4Mb)

[5.ppt](#) Estimating burnt biomass and carbon emissions from large wildfires - Martin Wooster King's College (13Mb)

Ancillary files

[FinalFires2sm_just%20rotating.mpg](#) (2.1Mb)

[MIR_rapid.mpg](#) (4.8Mb)

[mirchan1_greekfires.avi](#) (25Mb)

[6.ppt](#) How well can we measure greenhouse gases from space? - Paul Monks - U of Leicester (15Mb)

Session 1b

[7.ppt](#) Reducing the huge uncertainties in carbon emissions from tropical deforestation - Shaun Quegan - U of Sheffield (6.6Mb)

[8.ppt](#) Phytoplankton types from satellite measurements: towards estimation of the ocean carbon cycle from EO - Takafumi Hirata - Plymouth Marine Laboratory (4.2Mb)

Ancillary files

[PFT2004_new_model1.wmv](#) (647kb)

[xi2004.wmv](#) (886kb)

[9.ppt](#) Oceans in the climate system - Keith Haines - U of Reading (20Mb)

[10.pptx](#) Including vertical light attenuation in EO assessments of phytoplankton types - Bob Brewin - U of Plymouth (2.0Mb)

Ancillary files

[NCEO Oxford video FINAL.wmv](#) (32Mb)

[11.ppt](#) Direct observations of air/sea exchange of CO₂ in coastal seas - Emmer Litt - PML/Bangor (3.4Mb)

[12.ppt](#) National scale estimates of GHGs from tall towers - James Howie - U of Edinburgh (6.0Mb)

Session 2

[13.pdf](#) Measuring Essential Climate Variables - Chris Merchant - U of Edinburgh (3.7Mb)

[14.ppt](#) Trends in Arctic sea ice thickness - Seymour Laxon - UCL (26Mb)

[15.ppt](#) Ice sheet modelling - Tony Payne - U of Bristol (15Mb)

[16.ppt](#) Surface radar measurements on Antarctic sea ice in support of satellite thickness estimates - Rosemary Willatt - UCL (12Mb)

[17.pdf](#) Snow: an essential climate variable - Debbie Clifford - U of Reading (1.1Mb)

Friday 04 September

Session 3a

[18.ppt](#) High-resolution probabilistic weather forecasting for the UK - Stefano Migliorini - U of Reading (5.3Mb)

[19.ppt](#) A breakthrough in high-dimensional highly nonlinear data assimilation - Peter Jan van Leeuwen - U of Reading (1.9Mb)

[20.ppt](#) Potential for improved rainfall forecasts for the African monsoon - Chris Taylor - CEH (7.5Mb)

[21.ppt](#) Improved understanding of how rainfall responds to a warming world - Richard Allan - U of Reading (3.2Mb)

[22.ppt](#) Satellite data provides new insight into model ice cloud distributions - Julien Delanoe - U of Reading (4.7Mb)

Session 3b

[23.pptx](#) New insight into clouds, aerosols and climate - Andy Sayer - U of Oxford (36Mb)

[24.pptx](#) Spectral signatures, climate change detection, and CLARREO - John Harries - Imperial College (5.8Mb)

[25.pdf](#) New mission to understanding processes controlling atmospheric composition - Brian Kerridge - RAL (4.4Mb)

[26.ppt](#) MIPAS observations of organic tracers for biomass burning and intercontinental transport - Rob Parker - U of Leicester (19Mb)

[27.ppt](#) Large-scale controls of methanogenesis inferred from methane and gravity spaceborne data - Anthony Bloom - U of Edinburgh (15Mb)

Session 4

[29.ppt](#) Curating and providing access to EO data - Victoria Bennett - RAL (5.5Mb)

30 Continuous recording GPS measurements suggest large earthquakes probable along the Hellenic Arc - Barry Parsons - U of Oxford

[31.ppt](#) Geodetic observations of the Dabbahu rifting episode, Afar, Ethiopia: new dyking between 2006 and 2009 - Ian Hamling - U of Leeds (38Mb)

[32.ppt](#) L'Aquila Earthquake - John Elliott - U of Oxford (28Mb)