

UGAMP CONFERENCE 8-10th September, 2004
Oxford University.
 (Version dated: 01/09/04)

Wednesday 8th September

10:00-10:45 Coffee and registration

10:45-11:00 Julia, Kathy, Paul Welcome and Introductions

11:00-13:00 African Meteorology and Climate I
 Chair: C. Taylor

11:00	A. Slingo	Comparisons between the Met Office NWP model and Meteosat 8
11:15	G. Kay	Climate variability over the Indian Ocean and southern Africa in HadCM3
11:30	M. Todd	Climate variability in Central Equatorial Africa: Influence from the Atlantic sector
11:45	G. Lizcano	Tropical Atlantic control on Southern Africa rainfall variability
12:00	C. Williams	Rainfall variability and climate change over southwest Africa
12:15	D. Kniveton	Variation of daily precipitation over southern Africa
12:30	A. Preston	Controls on southern African Rainfall
12:45	J. Slingo	Influence of the East African Highlands on the climate of Africa and the Indian Ocean region

13:00-14:00 Lunch

14:00-15:45 African Meteorology and Climate II
 Chair: M. Todd

14:00	C. Taylor	AMMA: African Monsoon Multidisciplinary Analyses
14:15	R. Ellis	Interaction of the West African monsoon with the land surface
14:30	E. Black	A seasonal forecasting model for Kenyan rainfall
14:45	A. Morse	Weather driven malaria modelling: integration of a dynamic transmission model within a probabilistic multi-model forecast system
15:00	M. Bithell	Adaptive strategies, Forecasting and Climate Change: A Study of Market Gardeners in South Africa
15:15	R. Washington	Controls on North African dust transport and emission
15:30	S. Engelstaedter	Variability and controls of North African dust emissions

15:45-16:15 Coffee

16:15-18:30 Atmospheric Composition and Transport
 Chair: R. Mackenzie

16:15	I. Mackenzie	Chemical Transport Modelling in Support of EOS MLS
16:30	D. Lowe	Liquid Particle Composition and Heterogeneous Reactions in a Mountain Wave Polar Stratospheric Cloud
16:45	S. Davies	3D CTM Studies of Arctic Denitrification
17:00	W. Feng	Three-Dimensional Chemical Transport Model Studies of Arctic Ozone Depletion
17:15	X. Yang	A 3D model study of tropospheric Bromine chemistry and bromine-related ozone loss
17:30	M. Köhler	The influence of operational changes to global air traffic on ozone levels in the UTLS region
17:45	J. Methven	Forecasting for a Lagrangian experiment - measuring chemical transformation as polluted air crosses the Atlantic
18:00	P. Cook	p-TOMCAT model results and aircraft measurements
18:15	D. Spracklen	How well do we understand global marine aerosol? Insights from a global model of aerosol processes

Thursday 9th September

08:45-10:45 Climate Sensitivity and Ensemble Predictions I
Chair: A. Slingo

08:45	T. Johns	HadGEM1 - analysis of control climate and climate sensitivity
09:00	J. Gregory	A new method for diagnosing radiative forcing and climate sensitivity
09:15	S. Keeley	Regime behaviour in a perturbed physics ensemble of climate change experiments
09:30	D. Stainforth	Climateprediction.net: Early Results from a Multi-Thousand Member Grand Ensemble
09:45	C. Piani	Objective constraints on the upper bound of climate sensitivity from the climateprediction.net grand ensemble
10:00	H. Walker	Studying climate feedbacks with climateprediction.net
10:15	N. Faull	Coupled models and climate drift

10:30-11:15 Coffee, Poster Session I and Computer Demonstration

11:15-11:45 Climate Sensitivity and Ensemble Predictions II
Chair: A. Slingo

11:15	P. Pall	Probabilistic attribution of the UK autumn 2000 floods
11:30	A. Hannachi	A new look at trends in gridded climate data

11:45-13:15 Coupled Climate Processes
Chair: P. Inness

11:45	S. George	Multi-Season Memory in the Atlantic Ocean, and related Climate Impacts, as simulated by the ECMWF Coupled Ocean/Atmosphere System
12:00	D. Hodson	Climate impacts of a warming of the North Atlantic Ocean
12:15	R. Sutton	Mechanism of decadal Thermohaline Circulation variability in a coupled ocean-atmosphere GCM
12:30	H. Snaith	COAPEC: Improved Understanding of the Coupled Climate System
12:45	L. Shaffrey	Bjerknes Compensation and the Decadal Variability of Energy Transports in a Coupled Climate Model
13:00	E. Shuckburgh	Quantifying Eddy Diffusivities in the Southern Ocean

13:15-14:15 Lunch

14:15-15:45 Tropical Meteorology and Climate
Chair: J. Slingo

14:15	S. Woolnough	The role of the ocean mixed layer in tropical climate variability
14:30	D. Bernie	The impact of an explicit diurnal cycle on the tropical upper ocean
14:45	P. Inness	Modelling the Madden-Julian Oscillation in the vicinity of the Maritime Continent
15:00	M. Lengaigne	Triggering of El Niño by Westerly Wind Events in a Coupled General Circulation Model
15:15	J. Brown	A combined modelling and coral-proxy study of El Niño
15:30	N. Chappell	Evaluation of riverflow predictions by AMIP2 GCMs for two contrasting hydroclimatic regions in humid SE Asia

15:45-16:15 Coffee

16:15-17:30	Tropical Dynamics Chair: A. Challinor	
16:15	G. Yang	The structure of convectively coupled equatorial waves
16:30	Y. Liu	Impacts of the Tibetan topography and thermal forcing over Asia in summer
16:45	A. Turner	Use of an AGCM with simplified physical parametrizations (SPEEDY) to study ENSO teleconnections with the Asian Summer Monsoon
17:00	P. Cau	Dry intrusions in the Tropical atmosphere
17:15	J. Levine	Transport to and from the tropical tropopause layer
17:30-18:15	The Future Chair: J. Haigh	
17:30	A. Thorpe	Climate Science in the context of NCAS
17:45	J. Slingo	Current and future developments in CGAM of interest to the UGAMP community
18:00	L. Steenman-Clark	High Performance Computing (HPC)

Friday 10th September

08:45-10:30 Dynamical Processes and Variability
Chair: P. Braesicke

08:45	L. Gray	Climate variability associated with the solar cycle and quasi biennial oscillation
09:00	J. Haigh	Stratosphere-troposphere coupling
09:15	E. Tyrlis	The relationship between atmospheric blocking and North Atlantic Oscillation
09:30	P. Berrisford	Blocking in The Southern Hemisphere
09:45	K. Hodges	A New Perspective on the Southern Hemisphere Storm-Tracks
10:00	M. Blackburn	Factors Contributing to the Summer 2003 European Heatwave
10:15	A. Orr	Coriolis effects on wind jets and cloudiness along UK's coasts

10:30-11:00 *Coffee and Poster Session II*

11:00-13:00 Advances in Numerical Modelling
Chair: J. Thuburn

11:00	M. Jukes	Data Assimilation: a leap beyond 4D-VAR
11:15	W. Norton	The HiGEM Project
11:30	G. Robinson	The CLAUS Dataset: a satellite-based resource for evaluating HiGEM and other Atmospheric GCMs
11:45	J. Flowerdew	Evaluating model cloud through nudging and composition
12:00	N. Nikiforakis	Resolving small-scale processes in global atmospheric models
12:15	S. Osprey	Model and Observational Representations of Inertial Instabilities: HIRDLS and the New Dynamics UM
12:30	J. Shipton	Shallow Water Turbulence on a Sphere
12:45	L. Steenman-Clark	Metadata for Models

13:00-14:00 *Lunch*

14:00-14:30 Crop Modelling
Chair: A. Hannachi

14:00	A. Challinor	Predicting the response of tropical crop yields to climate on seasonal to multi-decadal time scales
14:15	T. Osborne	Investigating crop-climate interactions within a General Circulation Model

14:30-16:15 Chemistry and Climate
Chair: L. Gray

14:30	O. Morgenstern	Atmospheric chemistry modelling within the UKCA project
14:45	W. Tian	Future O ₃ -Climate Studies Using Coupled Chemistry Climate Model
15:00	N. Savage	Validation of Tropospheric Chemistry model simulations forced with ERA-40 data
15:15	P. Hadjinicolaou	Dynamical contributions to decadal ozone changes in the stratosphere
15:30	P. Braesicke	Relationship between ozone variability in high and low latitudes in the Unified Model: How important is the QBO?
15:45	G. Zeng	Influence of El Niño Southern Oscillation on the global tropospheric ozone budget
16:00	P. Valdes	Climate-Chemistry Feedbacks in the Past

16:15 *Conference End*

Poster Presentations

M. Felton	UM case study of AEW development over West Africa
E. Black	The potential predictability of the hot summer of 2003
J. Strachan	Understanding and Modelling the Climate of the Maritime Continent
T. Toniazzo	ENSO sensitivity to climate change in HadCM3
D. Copsey	Linearities and nonlinearities in the atmospheric response to changing SST forcing in an aquaplanet model
P. Williams	A coupled GCM study of the evolution of the ocean circulation, following a suppression of the exchange of freshwater with the atmosphere
H. Graf	Stratospheric polar vortex and tropospheric teleconnections
L. Froude	Distributed system diagnostics for weather and climate
A. Hannachi	In search of simple structures in climate data
F. Mager	Planetary waves in model and reanalysis
O. Dessens	Impact studies on atmospheric chemistry of future supersonic aircraft fleet: SCENIC program
P. Young	Implementation of a reduced isoprene oxidation mechanism into atmospheric model chemical schemes
M. Sanchez-Reyna	Trends in particulate matter in urban and rural areas of the UK
M. Parrington	Chemical data assimilation in the Unified Model
G. Millard	Capturing 'Match' diagnosed ozone loss rates from the 1990s to 2003 with SLIMCAT and a boxmodel
M. Harfoot	Geological and biogeochemical influences on the chemistry of the ancient atmosphere
P. Hammer	Photochemistry of the Antarctic boundary layer
J. Thuburn	Middle atmosphere gravity wave drag diagnosed using a variational method
F. Nober	A convection parameterisation based on population dynamics
L. Hermanson	PDFs of the subgridscale tendencies in the ECMWF model
W. Garland	The British Atmospheric Data Centre
S. Knight	Schools resources based on climateprediction.net

Computer Demonstration

A. Heaps	Climateprediction.net - the student interface
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