

Provisional Programme

Workshop on Representation of sub-grid processes using stochastic-dynamic models, 6 to 8 June 2005

Monday 6 June 2005

- 09.30-09.45 *Registration*
- 09.45-09.55 Philippe Bougeault: Welcome
- 09.55-10.20 Tim Palmer: Introduction
- 10.20-10.50 Prashant Sardeshmukh: Issues in stochastic parametrisation
- 10.50-11.10 *Coffee*
- 11.10-11.40 Glenn Shutts: Kinetic energy backscatter for NWP models and its calibration
- 11.40-12.10 Harm Jonker: Spectral transfer of TKE and scalar variance in the meso- and micro-scale range: direction of the average flow and the significance of backscatter
- 12.10-12.40 Steve Thomas: Stochastic sub-grid scale processes and the spectral kink
- 12.40-14.00 *Lunch*
- 14.00-14.30 Pavel Berloff: Stochastic modelling of the oceanic eddies
- 14.30-15.00 Adam Monahan: Stochastic dynamics of sea-surface winds
- 15.00-15.20 *Tea*
- 15.20-15.50 Cecile Penland: Sensitivity of an ocean model to details of stochastic forcing
- 15.50-16.20 Klaus Fraedrich: Noise observed, computed and applied: Tropical atmosphere & simple GCMs
- 16.20-16.50 Michael Ghil: A lattice model of interactions between clouds, radiation, and large-scale dynamics
- 17.00 *Cocktail Party*

Tuesday 7 June 2005

- 9.15-9.45 Mitch Moncrieff: Convective dynamics issues at ~10 km grid-resolution
- 9.45-10.15 George Craig: Statistical mechanics and stochastic cumulus parameterisation
- 10.15-10.35 *Coffee*
- 10.35-11.05 Adrian Tompkins: Stochastic convective input based on sub-grid temperature and humidity distributions
- 11.05-11.35 Judith Berner: A multi-scale cellular automata for parametrising aspects of organised tropical convection
- 11.35-12.05 Johnny Lin: Toward stochastic deep convective parameterization in general circulation models
- 12.05-12.35 Boualem Khouider: Coarse grained stochastic models for tropical convection and climate
- 12.35-14.00 *Lunch*

Continued

- 14.00-17.30 Working group Discussions:
- Issues for convection
 - Evidence from observations and Direct Numerical Simulations
 - The parametrization problem in weather and climate models

18.00 *Informal buffet in the ECMWF Restaurant*

Wednesday 8 June 2005

09.30-12.15 **Working group discussions and drafting of recommendations**

12.15-13.45 *Lunch*

13:45-15:30 **Plenary session**