Geophysical Research Abstracts, Vol. 8, 05738, 2006 SRef-ID: 1607-7962/gra/EGU06-A-05738 © European Geosciences Union 2006



Progress and Plans for Probabilistic Climate Prediction at the Hadley Centre

Mat Collins, B. Bhaskaran, Ben Booth, Glen Harris, James Murphy, David Sexton and Mark Webb, Chris Brierley

Hadley Centre, Met Office, Exeter, UK (matthew.collins@metoffice.gov.uk)

The Hadley Centre has adopted the "perturbed physics" method as one approach to ensemble and probabilistic climate prediction. Recent progress in this area has included; new ensembles of atmosphere-slab models with simultaneous atmospheric parameter perturbations, comparisons of cloud feedbacks in perturbed physics and multi-model ensembles, small ensembles of fully coupled models in which both atmospheric and ocean-model parameters have been perturbed and the development of techniques to turn these ensembles into probabilities. These will be reviewed. In addition, an ambitious plan to generate probabilistic assessments of future change at the regional UK scale will be presented.