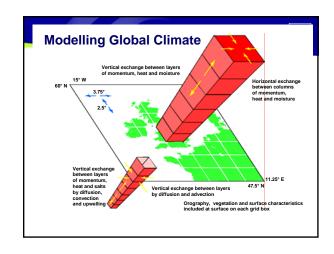
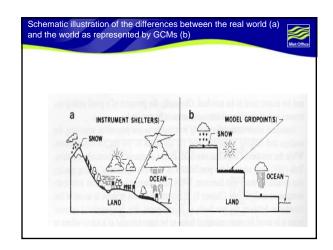
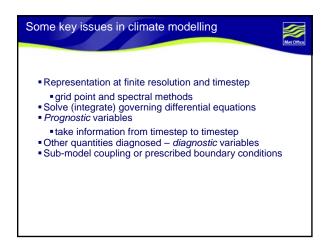
Statistical and dynamical downscaling of climate model projections Erasmo Buonomo Hadley Centre for Climate Change, Met Office, Exeter, UK

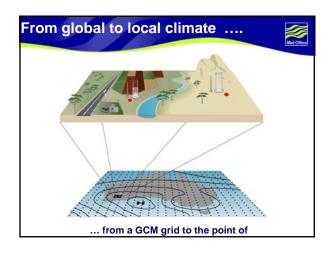
■The RCM tool ■UKCIP and QUMP ensembles ■GCM -> RCM downscaling

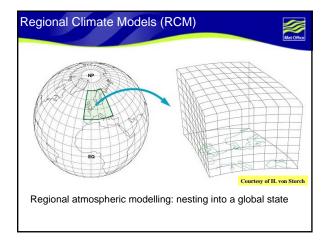
What are regionalization techniques and why are they developed? Impact assessors need regional detail to assess vulnerability and possible adaptation strategies AOGCM projections lack that regional detail due to coarse spatial resolution Regionalization techniques are developed to allow fine scale information to be derived from GCM output.

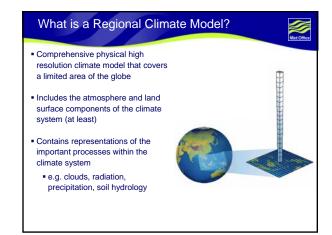


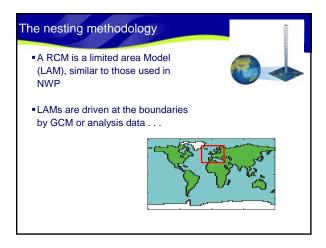


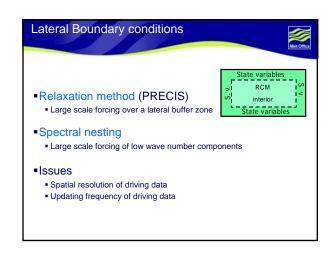


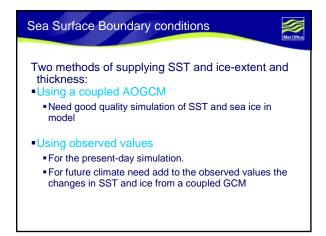


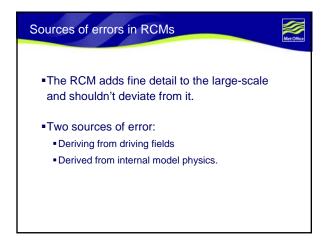


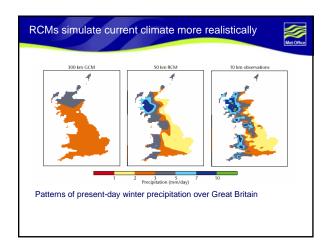


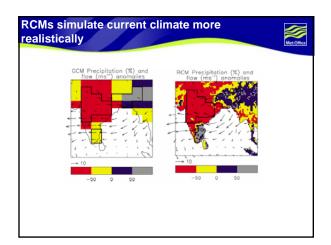


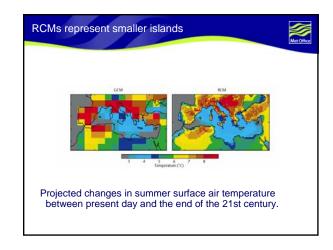


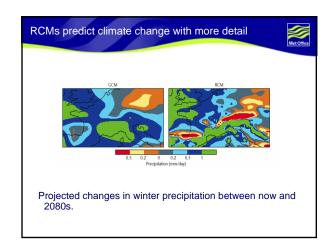


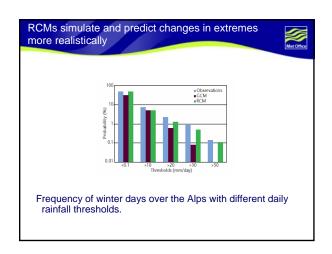


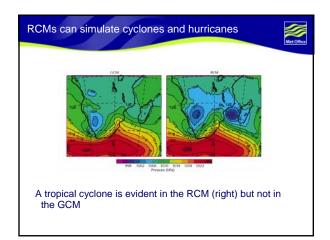


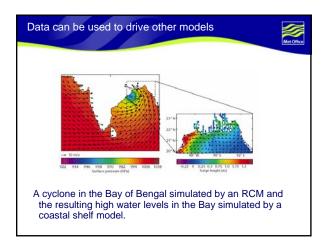


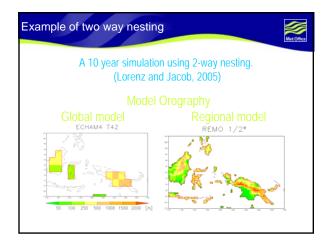


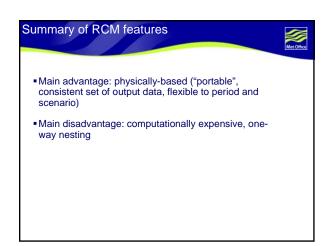


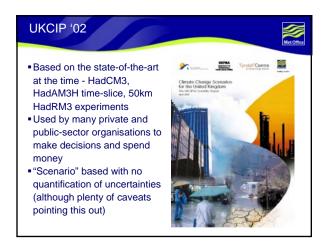


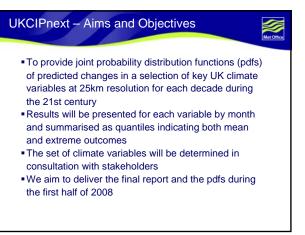


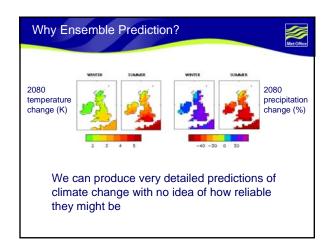


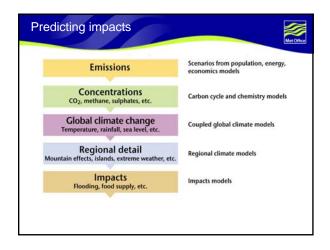












Probabilities used to Quantify Uncertainties Future levels of greenhouse gases and other forcing agents (boundary conditions) Natural unforced climate variations (initial conditions) Uncertainty in representing physical and biological processes in climate models Uncertainties in key parameters in models Uncertainties due to different representations of processes (structural) Omitted processes

