

## Supplementary Material

Table S1. Inventory of CMIP5 models used to characterise the change in 2-metre moist enthalpy between 2081-2100 and 1986-2005 under RCP 8.5. Note that just a single (the first) ensemble member was used for each model. All data were extracted from the archives held at the British Atmospheric Data Centre (see <http://badc.nerc.ac.uk/home/>).

<b>Model</b>
CCSM4
MIROC5
MIROC-ESM
MIROC-ESM-CHEM
CanESM2
CGCM3
NorESM1-M
bcc-csm1-1
NorESM1-ME
MIROC-ESM
HadGEM2-CC
HadGEM2-ES
IPSL-CM5A-LR
IPSL-CM5A-MR
IPSL-CM5B-LR
GFDL-CM3
ACCESS1-0
FGOALS-g2
MIROC-ESM-CHEM
GFDL-ESM2G

GFDL-ESM2M
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CNRM-CM5
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CESM1-BGC
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CESM1-CAM5
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CSIRO-Mk3-6-0
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