

## High top models participating to CMIP5 so far:

Institute / Group	Model	Atmospheric Resolution	Scenario	Contact
CMCC	CMCC-CMS	T63xL95 top=0.01hPa	RCP4.5	<a href="mailto:chiara.cagnazzo@cmcc.it">chiara.cagnazzo@cmcc.it</a> <a href="mailto:piergiuseppe.fogli@cmcc.it">piergiuseppe.fogli@cmcc.it</a> <a href="mailto:silvio.qualdi@bo.ingv.it">silvio.qualdi@bo.ingv.it</a>
	CMCC-CESM	T31xL39 top=0.01hPa	RCP8.5	
DMI	EC-EARTH	T159xL91 top=0.01hPa	RCP4.5	<a href="mailto:shuting@dm.dk">shuting@dm.dk</a> <a href="mailto:boc@dm.dk">boc@dm.dk</a>
		T159xL61 top=5hPa		
GEOS	GEOS-5	1°x1.25°xL72 top=0.01hPa	Decadal prediction runs	<a href="mailto:Steven.Pawson-1@nasa.gov">Steven.Pawson-1@nasa.gov</a>
GFDL	CM3	~200kmxL48 top=0.017hPa	All 4 RCPs	<a href="mailto:john.austin@noaa.gov">john.austin@noaa.gov</a> <a href="mailto:leo.i.donner@noaa.gov">leo.i.donner@noaa.gov</a> <a href="mailto:larry.horowitz@noaa.gov">larry.horowitz@noaa.gov</a>
GISS	GISS-E	90x144xL40 top=0.1hPa	All 4 RCPs	<a href="mailto:dshindell@giss.nasa.gov">dshindell@giss.nasa.gov</a>
IPSL	IPSL-CM5	144x143xL39 top=65km	RCP4.5	<a href="mailto:Francois.lott@lmd.jussieu.fr">Francois.lott@lmd.jussieu.fr</a>
Met Office Hadley Center / NCAS	HadGEM2	192x145xL60 top=84km	RCP4.5, RCP8.5	<a href="mailto:neal.butchart@metoffice.gov.uk">neal.butchart@metoffice.gov.uk</a> <a href="mailto:steven.hardiman@metoffice.gov.uk">steven.hardiman@metoffice.gov.uk</a> <a href="mailto:s.osprey@physics.ox.ac.uk">s.osprey@physics.ox.ac.uk</a> <a href="mailto:gray@atm.ox.ac.uk">gray@atm.ox.ac.uk</a>
MPI-M	MPI-ESM	~360x180xL95 top=0.01hPa	All 4 RCPs	<a href="mailto:marco.giorgetta@zmaw.de">marco.giorgetta@zmaw.de</a>
MIROC	MIROC-ESM	T42xL80 Top=85km	All 4 RCPs	<a href="mailto:wnabe@jamstec.go.jp">wnabe@jamstec.go.jp</a> <a href="mailto:kawamiya@jamstec.go.jp">kawamiya@jamstec.go.jp</a> <a href="mailto:nozawa@nies.go.jp">nozawa@nies.go.jp</a>
	MIROC-ESM-CHEM			
MRI	MRI-ESM1	TL95xL48 (320x160) top=0.01hPa	RCP4.5, RCP8.5 RCP8.5	<a href="mailto:kshibata@mri-jma.go.jp">kshibata@mri-jma.go.jp</a>
NCAR	WACCM4	144x96xL66 top=6x10 <sup>-6</sup> hPa~135km	RCP4.5 (RCP8.5, RCP2.6)	<a href="mailto:aksmith@ucar.edu">aksmith@ucar.edu</a> <a href="mailto:rgarcia@ucar.edu">rgarcia@ucar.edu</a> <a href="mailto:marsh@ucar.edu">marsh@ucar.edu</a>