

Experiment	Official Short Name of Experiment	Description	Experiment number	CMIP5 designated tier	Years requested per run	Ensemble size requested	Status of the simulation	Number of run	Wiki	AtmDaMin	AtmDa	Atm6h	Atm3h
pre-industrial control	piControl	coupled atmosphere/ocean control run	3,1	core	≥500	1		1		X	100 à 200 ans	100 à 200 ans	100 à 200 ans
historical AMIP	historical amip	simulation of recent past (1850-2005) AMIP (1979-2008)	3,2 3,3	core	156 ≥30	1		1		X	1950-2005	1950-2005	1950-2005
historical AMIP	historical amip	increase ensemble size of expt. 3.2	3.2-E	tier 1	156	≥2				X	1950-2005	1950-2005	1950-2005
historical AMIP	historical amip	increase ensemble size of expt. 3.3	3.3-E	tier 1	≥30	≥2				X	X	X	X
mid-Holocene	midHolocene	consistent with PMIP, impose Mid-Holocene conditions	3,4	tier 1	≥100	1				X		Last 30 yr	
last glacial maximum	lgm	consistent with PMIP, impose last glacial maximum conditions	3,5	tier 1	≥100	1				X		Last 30 yr	
last millennium	past1000	consistent with PMIP, impose forcing for 850-1850	3,6	tier 2	1000	1				X		Last 30 yr	
RCP4.5	rcp45	future projection (2006-2100) forced by RCP4.5	4,1	core	95	1				X	X	X	X
RCP8.5	rcp85	future projection (2006-2100) forced by RCP8.5	4,2	core	95	1				X	X	X	X
RCP2.6	rcp26	future projection (2006-2100) forced by RCP2.6	4,3	tier 1	95	1				X	X	X	X
RCP6	rcp60	future projection (2006-2100) forced by RCP6	4,4	tier 1	95	1				X	X	X	X
RCP4.5	rcp45	extension of expt. 4.1 through 2300	4.1-L	tier 1	200	1				X	X		X
RCP8.5	rcp85	extension of expt. 4.2 through 2300	4.2-L	tier 2	200	1				X	X		X
RCP2.6	rcp26	extension of expt. 4.3 through 2300	4.3-L	tier 2	200	1				X	X		X
ESM pre-industrial control	esmControl	as in expt. 3.1, but atmospheric CO2 determined by model	5,1	core	≥251	1				X			
Emission-driven historical	esmHistorical	as in expt. 3.2, but with atmospheric CO2 determined by model	5,2	core	156	1				X	1950-2005	1950-2005	1950-2005
emission-driven RCP8.5	esmRcp85	as in expt. 4.2, but with atmospheric CO2 determined by model	5,3	core	95	1				X	X	X	X
ESM fixed climate 1	esmFixClim1	radiation code "sees" control CO2, but carbon cycle sees 1%/yr rise	5.4-1	tier 1	140	1				X			
ESM fixed climate 2	esmFixClim2	radiation code "sees" control CO2, but carbon cycle sees historical followed by RCP4.5 rise in CO2	5.4-2	tier 1	251	1				X			
ESM feedback 1	esmFdbk1	carbon cycle "sees" control CO2, but radiation sees 1%/yr rise	5.5-1	tier 2	140	1				X			
ESM feedback 2	esmFdbk2	carbon cycle "sees" control CO2, but radiation sees historical followed by RCP4.5 rise in CO2	5.5-2	tier 2	251	1				X			
1 percent per year CO2	1pctCo2	imposed 1%/yr increase in CO2 to quadrupling	6,1	core	140	1		1		X	X		
control SST climatology	sstClim	An atmosphere-only run driven by prescribed climatological SST and sea ice.	6.2a	core	≥30	1				X	X		
CO2 forcing	sstClim4xco2	as in expt. 6.2a, but with 4XCO2 imposed	6.2b	core	≥30	1				X	X		
abrupt 4XCO2	abrupt4xco2	impose an instantaneous quadrupling of CO2, then hold fixed	6,3	core	150	1				X	X		
abrupt 4XCO2	abrupt4xco2	generate an ensemble of runs like expt. 6.3, initialized in different months, and terminated after 5 years	6.3-E	tier 1	5	11				X	X		
anthropogenic aerosol forcing	sstClimAerosol	as in expt. 6.2a, but with anthropogenic aerosols from year 2000 of expt. 3.2	6.4a	tier 1	≥30	1				X	X		

sulfate aerosol forcing	sstClimSulfate	as in expt. 6.2a, but with sulfate aerosols from year 2000 of expt. 3.2	6.4b	tier 1	≥30	1				X	X		
Cloud response to imposed 4xCO2	amip4xco2	consistent with CFMIP, impose AMIP (1979-2008) conditions (expt. 3.3) but with 4xCO2	6,5	tier 1	30	1				X	X		
Cloud response to an imposed change in SST pattern	amipFuture	consistent with CFMIP, add a patterned SST perturbation to AMIP SSTs of expt. 3.3.	6,6	tier 1	30	1				X	X		
aqua planet: control run	aquaControl	consistent with CFMIP, impose zonally uniform SSTs on a planet without continents	6.7a	tier 1	5	1				X	X		
aqua planet: cloud response to imposed 4xCO2	aqua4xco2	Consistent with CFMIP requirements, impose 4xCO <sub>2</sub> on the zonally uniform SSTs of expt. 6.7a	6.7b	tier 1	5	1				X	X		
Aqua-planet: cloud response to an imposed uniform change in SST.	aqua4K	Consistent with CFMIP requirements, add a uniform +4K to the zonally uniform SSTs of expt. 6.7a (which is the control for this run).	6.7c	tier 1	5	1				X	X		
Cloud response to an imposed uniform change in SST	amip4K	Consistent with CFMIP requirements, add a uniform +4 K SST to the AMIP SSTs of expt. 3.3 (which is the "control" for this run).	6,8	tier 2	30	1				X	X		
natural-only	historicalNat	historical simulation but with natural forcing only	7,1	tier 1	156	1				X	1950-2005	1950-2005	1950-2005
GHG-only	historicalGhg	historical simulation but with greenhouse gas forcing only	7,2	tier 1	156	1				X	1950-2005	1950-2005	1950-2005
other-only	historical???	historical simulation but with other individual forcing agents	7,3	tier 2	156	≥1				X	1950-2005	1950-2005	1950-2005
natural-only	historicalNat	increase ensemble size of expt. 7.1	7.1-E	tier 2	156	≥2				X	1950-2005	1950-2005	1950-2005
GHG-only	historicalGhg	increase ensemble size of expt. 7.2	7.2-E	tier 2	156	≥2				X	1950-2005	1950-2005	1950-2005
other-only	historical???	increase ensemble size of expt. 7.3	7.3-E	tier 2	156	≥2				X	1950-2005	1950-2005	1950-2005

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- To be started (1)
- To be started (2)
- Running
- Finished