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# LGM sensitivity experiments, existing, in progress and planned

LGMGHG = Pre-industrial conditions with LGM greenhouse gases imposed

LGMICE = Pre-industrial conditions with LGM ice sheet imposed

Flat = LGM with “flat ice sheet” - ice sheet extent but no change in altitude

Brown = LGM with “brown ice sheet” - ice sheet height but no change in ice sheet extent

(\*) - Green Laurentide topography, ( no sea level, GHG, orbit); White Laurentide topography (no sea level, GHG, orbit); White Northern Hemisphere Ice extent (no topography, sea level, GHG, orbit)

Model version	LGM protocol	LGM	LGMGHG	LGMICE	Others	Control	Increased CO2	Contact
CCSM4	PMIP3? ☐	☐	yes ( <a href="#">Brady et al, 2012</a> )	not yet	☐	☐		Bette Otto-Bliesner
CESM1.2	PMIP3?	in progress		yes	GHG + Orbital + changes in geography of Maritime Continent (DiNezio, in progress)	☐	☐	Pedro DiNezio
CESM	possible future experiments							Lev Tarasov
CAM3 with slab ocean	has done “a whole lot of these kinds of sensitivity studies” <a href="#">Löfverström et al 2014.</a>							Roberto Caballero
COSMOS	PMIP3		LGMGHG	LGMICE	Flat, Brown(planned)			Gerrit Lohmann, Xu Zhang
CSIRO-Mk3-1-2	?	not likely (spectral ringing)	LGMGHG		Flat, others possible in future			Steven Phipps
GFDL CM2.1	PMIP2			no LGMICE (Erb et al in review, data not yet made available)	no			run: Tony Broccoli, Bryan Raney. Analysis: Michael Erb
HadCM3 or FAMOUS		possible future experiments		different ice sheets vaguely planned				Lauren Gregoire, Ruza Ivanovic, Paul Valdes
HadCM3	ICE5G			yes	HadCM3 others(*)			Will Roberts
IPSL_CM4	PMIP2		yes, but used LGM land-sea mask	yes	Flat, Brown			Masa Kageyama ( <a href="#">Pausata et al 2011</a> )
iLOVECLIM T21	PMIP2?		yes	yes	Flat, Brown			Didier Roche
LOVECLIM+GSM ice sheet	possible future experiments							Lev Tarasov

Model version	LGM protocol	LGM	LGMGHG	LGMICE	Others	Control	Increased CO2	Contact
KCM1.4 (ECHAM5-T42/NEMO-ORCA2)	?		LGMGHG+orbital	no	adding land orthography, ocean topography planned, poss. diff. version.	yes		Wonsun Park
MIROC3.2 T42 slab	PMIP2?		default model (Yoshimori et al 2009)					Ayako Abe-Ouchi, Masa Yoshimori
MIROC3.2 T21 slab	PMIP2?		ensemble (Yoshimori et al, 2011)	ensemble (Yoshimori et al, 2011)				Ayako Abe-Ouchi, Masa Yoshimori, Julia Hargreaves
MIROC3.2.2 coupled T42	PMIP3?		yes	no				Ayako Abe-Ouchi
OSUVic			no	yes	ice+CO2, ice+CO2+orbit			Andreas Schmittner
UVIC with isotopes	?	yes (Brennan et al 2012, 2013)	no	no				Katrin Meissner

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