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Contact — *Julia Hargreaves* *2013/04/26 06:53* to contribute to this page, or leave a comment in the discussion box.

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 Laturentide 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 (Brady et al, 2012)	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” Löfverström et al 2014.							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 (Pausata et al 2011)
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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