

Full name and source	Model name	Ocean resolution	Atmospheric resolution	Nutrients	Sea ice model	Veridical coordinate & levels	Ocean biology	Reference
Canadian Centre for Climate Modelling and Analysis, Canada	CanESM2	CanOM4 $0.9^\circ \times 1.4^\circ$	$2.8125^\circ \times 2.8125^\circ$	N (accounts for Fe limitation)	CanSIM1	z 40 levels	NPZD	Zahariev et al. (2008)
Centro Euro-Mediterraneo Sui Cambiamenti Climatici, Italy	CMCC-CESM	OPA8.2 $0.5 - 2^\circ \times 2^\circ$	$3.8^\circ \times 3.7^\circ$	P, N, Fe, Si	CICE4	z 21 levels	PELAGOS	Vichi et al. (2007)
Centre National de Recherches Météorologiques-Centre Européen de Recherche et de Formation Avancée en Calcul Scientifique, France	CNRM-CM5	NEMOv3.3 1°	1.4°	P, N, Fe, Si	GELATO5	z 42 levels	PISCES	Séférian et al. (2013)
Institut Pierre-Simon Laplace, France	IPSL-CM5A-MR	NEMO2.3 $0.5 - 2^\circ \times 2^\circ$	$2.58^\circ \times 1.25^\circ$	P, N, Fe, Si	LIM2	z 31 levels	PISCES	Séférian et al. (2013)
Max Plank Institute for Meteorology, Germany	MPI-ESM-MR	MPIOM $1.41^\circ \times 0.89^\circ$	$1.875^\circ \times 1.875^\circ$	P, N, Fe, Si	MPIOM	z 40 levels	HAMOCC5.2	Ilyina et al. (2013)
Community Earth System Model, USA	CESM1-BGC	$0.3^\circ \times 1^\circ$	$0.9^\circ \times 1.25^\circ$	(P), N, Fe, Si		z 60 levels	BEC	Moore et al. (2004)
Norwegian Earth System Model, Norway	NorESM1-ME	MICOM $0.5^\circ \times 0.9^\circ$	$2.5^\circ \times 1.9^\circ$	P, N, Fe, Si	CICE4.1	ρ 53 levels	HAMOCC	Tjiputra et al. (2013)
Geophysical Fluid Dynamics Laboratory Earth System Model, USA	GFDL-ESM2M	$0.3^\circ \times 1^\circ$	$2.5^\circ \times 2.0^\circ$	N, P, SiO ₄ , Fe	SISp2	z 50 levels	TOPAZ2	Dunne et al. (2013)
Meteorological Research Institute-Earth System Model Version 1, Japan	MRI-ESM	$0.5^\circ \times 1^\circ$		P, N	MRI.COM3	$\sigma - z$ 51 levels	NPZD	Adachi et al. (2013)
Hadley Global Environment Model 2 – Earth System, UK	HadGEM-ES	$0.3^\circ \times 1^\circ$	$2.5^\circ \times 2.0^\circ$	N, Fe, S		40 levels	Diat-HadOCC	Palmer and Totterdell (2001)