Papers using the GFDL CM2.6 climate model
and its ocean/sea-ice configuration
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Atmosphere/Ocean
1. Simulated climate and climate change in the GFDL CM2.5 high-resolution coupled climate model: Delworth et al. (2012)
2. Analysis of the characteristics and mechanisms of the Pacific Decadal Oscillation in a suite of coupled models from the Geophysical Fluid Dynamics Laboratory: Zhang and Delworth (2015)
3. The impact of horizontal resolution on North American monsoon Gulf of California moisture surges in a suite of high-resolution coupled models: Pascale et al. (2016)

Ocean Physics
1. Has coarse ocean resolution biased simulations of transient climate sensitivity: Winton et al. (2014)
2. Climate modeling with an energetic ocean mesoscale: Griffies (2014)
3. Impacts on ocean heat from transient mesoscale eddies in a hierarchy of climate models: Griffies et al. (2015)
5. An extreme event of sea-level rise along the northeast coast of North America in 2009-2010: Goddard et al. (2015)
8. Preconditioning of the Weddell Sea polynya by the ocean mesoscale and dense water overflows: Dufour et al. (2017)
10. CO$_2$-induced ocean warming of the Antarctic continental shelf in an eddying global climate model: Goddard et al. (2017)
11. Frequency-domain analysis of atmospherically forced versus intrinsic ocean surface kinetic energy variability in GFDL's CM2-O model hierarchy: O'Rourke et al. (2018)
13. Identifying Lagrangian coherent vortices in a mesoscale ocean model: Tarshish et al. (2018)

Ocean Biogeochemistry/Physics
1. The Southern Ocean Carbon and Climate Observations and Modeling Program (SOCCOM): Russell et al. (2014)
4. Multidecadal wind-driven shifts in northwest Pacific temperature, salinity, O$_2$, and PO$_4$: Kwon et al. (2016)
5. Observing System simulation experiments for an array of autonomous biogeochemical profiling floats in the Southern Ocean: Kamenkovich et al. (2017)

7. Roles of the ocean mesoscale in the lateral supply of mass, heat, carbon and nutrients to the Northern Hemisphere subtropical gyres: Yamamoto et al. (2018)

8. Response of O2 and pH to ENSO in the California Current System in a high resolution global climate model: Turi et al. (2017)

9. Biogeochemical role of subsurface coherent eddies in the ocean: tracer cannonballs, hypoxic storms, and microbial stewpots?: Frenger et al. (2017)


Ocean Ecosystem/Fisheries

1. Diversity in thermal affinity among key piscivores buffers impacts of ocean warming on predator-prey interactions: Selden et al. (2017)

2. Projecting the effects of climate change on Calanus finnarchicus distribution within the U.S. Northeast Continental Shelf: Grieve et al. (2017)


4. The growth of finfish in global open-ocean aquaculture under climate change: Klinger et al. (2017)

5. Reconciling fisheries catch and ocean productivity: Stock et al. (2017)


7. Projected asymmetric response of Adélie penguins to Antarctic climate change: Cimino et al. (2016)

Ocean/sea-ice

1. Localized rapid warming of West Antarctic subsurface waters by remote winds: Spence et al. (2017)

2. Vertical resolution of baroclinic modes in global ocean models: Stewart et al. (2017)

Computational

1. NOAA holistic climate and earth system model strategy phase I: current state: DeWitt et al. (2015)

2. CPMIP: measurements of real computational performance of Earth system models in CMIP6: Balaji et al. (2017)

3. Prospects for improving the representation of coastal and shelf seas in global ocean models: Holt et al. (2017)

References


Grieve, B., J. Hare, and V. Saba, Projecting the effects of climate change on Calanus Finnmarchicus distribution within the U.S. Northeast Continental Shelf, *Scientific Reports*, 7, doi:10.1038/s41598-017-06524-1, 2017.


