Global Ocean Dynamics in eddying-regime

Iovino, Dorotea; Masina, Simona; Pier Giuseppe, Fogli

euro-mediterranean center on climate change (cmcc), Italy
GLOBAL OCEAN DYNAMICS IN EDDYING-REGIME

Dorotea Iovino, P.G. Fogli, S. Masina

GLOB16: global ocean-sea ice configuration at 1/16 of horizontal resolution (6.9 km at the equator, ~3 at polar regions)

215-year hindcast simulation following OMIP protocol, forced by JRA55-do atmospheric reanalysis

Validations of high-res 3D ocean

Difference of model and two different obs-based estimates of surface EKE (in cm$^2$ s$^{-2}$) averaged over the 2013-2017 period

EKE/MKE (m$^2$ s$^{-2}$) at 2000-m depth from the 2013–2017 period (in log scale)