

# Simulation of tropical Indian Ocean surface circulation using a free surface Sigma coordinate model

## Indian Institute of Tropical Meteorology - Evaluation of Interannual Simulations and Indian Ocean Dipole Events During 2000

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Contribution from IITM -- research report no. RR-106 Simulation of tropical Indian Ocean surface circulation using a free surface Sigma coordinate model

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These surface variations provide a significant source of fluxes of momentum and heat into the ocean e.

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Variability of upper-ocean characteristics and tropical cyclones in the South West Indian Ocean. Part II: The two-moment scheme. Geophys Res Lett 30 22 :1—4.

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A comparison of model results for the two ocean-only simulations with observations of sea surface temperature SST and salinity SSS are shown in and ; average temperature and salinity profiles of the 4-month period are shown in. The variability in the solar radiation flux is a result of differences in mid- and low-level cloud amounts between the two simulations. Q J R Meteorol Soc 123 540 :919—928.

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Satellite data Several different satellite datasets are available for evaluation of the model results, including surface temperature, rainfall, surface

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The spatial variation of wind speed is quite similar to that of the diurnal warming, and thus extremely weak winds during the suppressed phase of the MJO are mostly responsible for the large diurnal SST variations. J Clim 31 6 :2377—2388. Surface temperature, fluxes, and cloud properties are evaluated using analyses determined from satellite data.

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