

Improvement in the Prediction of Intraseasonal Oscillations through ARGO data Assimilation in Coupled GCMs

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Abstract

This study shows preliminary results from a suite of four global coupled models for the forecasts of the Madden Julian Oscillation (MJO). The advent of ARGO (Array for Real-time Geostrophic Oceanography), a major new observing system over the global oceans, has provided an unprecedented data coverage and impact. Assimilation and season long forecasts have shown the passage of this wave in the observations and in the model in the atmosphere and in the subsurface levels of the global oceans. These improved forecasts hold the promise for improved seasonal outlook projections for the dry and wet spells of the monsoon.