

Progress with Convective Parameterization for Improved Simulation of the MJO at ECMWF

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Abstract

Analysis is provided on the impact of changes in physical parametrizations in the ECMWF-Integrated Forecast System (in particular convection and radiation) on the model climate and tropical and extratropical wave activity. The model data set consists of 20-years of seasonal forecasts at resolution T159 (125 km) and the operational T799 (25 km) dataset including all tendencies as provided for the YOTC. Some preliminary results will also be presented from ongoing very-high resolution climate simulations at T1259 (15 km) and T2000 (10 km).