



A new slab ocean model definition in the GLOBO AGCM

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Monthly forecast is intermediate between medium range forecast, an initial value problem, and seasonal forecast, a boundary value problem. Therefore, there are different approaches in modelling the ocean in order to simulate the contribute of sea surface temperature (SST) to the atmosphere in the time range of 10-40 days. At ISAC-CNR in Bologna a monthly forecasting system is run experimentally once a month through the GLOBO model. It includes a simple slab ocean model based on surface flux balance with a relaxation term to SST climatology in order to avoid model drift. In this study a new definition of the slab ocean model which includes a flux correction term has been implemented. It has been tested for some months and preliminary results show an improvement in the simulation of SST and in the forecast of monthly atmospheric anomalies.