ABSTRACT: Satellite sea-surface salinity (SSS) observations provide a new means for constraining an important state parameter in numerical ocean models. The benefits of assimilating satellite SSS observations include improved model surface density, near-surface convection, and thermohaline circulation. NOAA’s Real Time Ocean Forecast System (RTOFS) in the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. In the coupled Ocean-Atmosphere model, HYCOM. 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