



Instability wave advection of SST anomalies at the southern boundary of the Tropical North Atlantic

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Temperature, salinity, ocean current and meteorological observations are examined at two moored buoy sites on 23W, one on the equator and the other, a new site, at 4N. The processes are determined which govern boreal late summer through winter evolution of the mixed layer heat budgets during the southward migration of the ITCZ. At 4N, on the southern edge of the Tropical North Atlantic (TNA) region, large fluxes (of order 400 W/m^2) are associated with instability wave advection of cold anomalies from the equatorial cold tongue which dominate fluctuations in mixed layer heat at intraseasonal time scales.