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The objectives of this project included study of transient behavior of western boundary currents and associated eddy structures, frontal processes, and their response to atmospheric forcing as observed by satellite remote sensing techniques. Attainment of these objectives required development of quantitative assimilation methods for satellite data on both large and small scales supported by suitable tools which yield timely access to calibrated, navigated satellite observations. Efforts were focused on obtaining a multi-year time series of high resolution NOAA AVHRR retrievals for the Brazil Current/Malvinas (Falklands) Confluence, analysis of these data, implementation of a GEOSAT altimetric measurement processing and analysis system and preliminary analysis of a year time series for the South Atlantic and Western Indian oceans, and implementation of remote AVHRR LAC collection for the Western Indian Ocean region and operation of the global retrieval capability using the DOD/ONR furnished satellite receiving system.

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