

STATISTICAL ANALYSIS OF
LOW-FREQUENCY INTERNAL
DENSITY/TEMPERATURE FLUCTUATIONS
IN THE EASTERN NORTH PACIFIC

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Abstract

About 20 years of internal density and temperature fluctuations in the North Eastern Pacific have been analyzed with respect to interannual variations, with emphasis on Rossby waves. These density and temperature fluctuations are in phase throughout the entire water column and are dominated by interannual variations. Approximately 40 % of the observed variance can be explained by first shear mode baroclinic Rossby waves. A teleconnection to the El Nino Southern Oscillation phenomenon is possible.