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REMOTE SENSING OF OCEAN CURRENT BOUNDARY LAYER

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MONTHLY REPORT



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL RESEARCH LABORATORIES

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This is the eighteenth report on project EREP 108, which covers the month of December 1974.

Ground truth profiles from the 8 January 1974 sub-orbital track have been mailed to coinvestigators who need the data. The profile shows that at this time of the year there is no optical signature of the Loop Current, in agreement with winter 1973 data. The infrared signature is clear and is associated with the 22°C isotherm at 100 meters depth. There is a good optical change in the water properties from the shelf water to the deeper water, and this is observed in the SKYLAB data.

The P. I. finally received the doctorate degree in physical oceanography from the University of Miami. Title of the dissertation is "An Evaluation of the Earth Resources Technology Satellite for Observing Ocean Current Boundaries", which will be published as a NOAA Technical Report. SKYLAB photography was used in the work to compare spatial scales needed for ocean physics.

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