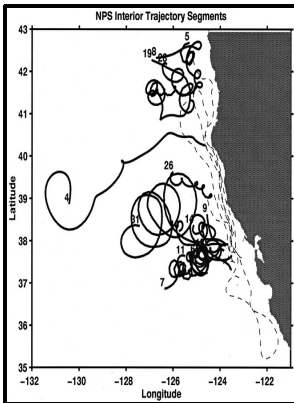


Measurements of subsurface currents off the Oregon Coast made by tracking of parachute drogues

Dept. of Oceanography, School of Science, Oregon State University - Drifters, Drogues, and Circulation

Description: -



- Curriculum planning -- United States
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Chapter I Observations and Methods of Current Measurements

An autocorrelation method was used to identify the dominant periodic oscillation.

Drifters, Drogues, and Circulation

Journal of Geophysical Research 106:22,067—22,093.

Measurements of subsurface currents off the Oregon Coast made by tracking of parachute drogues

A double cell type of cross-shelf circulation pattern was found. Eddy kinetic energy in the North Atlantic from surface drifters.

Vertical and cross

Very good agreement was found in direction, but the geostrophic speed calculated from a weak gradient over a short distance cannot give... This chapter presents the observations and methods of current measurements.

Measurements of subsurface currents off the Oregon Coast made by tracking of parachute drogues

Variability of speed and direction of ocean currents is one of their most outstanding characteristics. Maughan participated in the earlier half of the work and wrote his master's thesis on part of the results Maughan, 1963.

Chapter I Observations and Methods of Current Measurements

The recent developments in deep-sea instrumentation and their use in exploring the deeper strata of the oceans are the result of modern technical

achievement. The direction of ocean currents is given as the direction toward which the current flows, whereas wind directions are recorded as the direction from which the wind comes. The kind of method or technique that is to be employed in the most economic and efficient way depends on the problem at hand.

Subsurface currents off the Oregon coast as measured by parachute drogues

Measurements of ocean currents following the Eulerian method are obtained by a variety of current meters with reference to a fixed point. Hydrodynamic corrections amounting to about ten per cent of the shear have been computed and other refinements incorporated which make this a feasible method for measuring the main structure of the major ocean currents down to depths where the...

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