Oceanography Seminar

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"Mesoscale Biogeochemical Variability North of Hawaii"

Mesoscale motions in the ocean influence the structure and function of pelagic ecosystems through different mechanisms, but a comprehensive understanding of their ecological impact is still missing. In this talk, I will describe the mesoscale biogeochemical variability observed north of the Hawaiian archipelago from 1) a retrospective analyses of the Hawaii Ocean Time-series, and 2) preliminary analyses on targeted observations from mesoscale eddies of different polarity.

The comparison of twenty-three years of satellite observations and biogeochemical measurements from Station ALOHA shows that sea surface height controls the depth of isopycnal surfaces and is associated with numerous biogeochemical changes in different layers of the water column. In waters below ~100 m depth, increases in sea surface height are as()-ffer()-

<u>Thursday November 16, 2017 3:00p.m. MSB 114</u>