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Volume 17, Issue 12 (December 1987)

Journal of Physical Oceanography

Article: pp. 2273–2279 | Abstract | PDF (615K)

Observation of Long Equatorial Waves in the Pacific Ocean by Seasat Altimetry

Jean-Pierre Malardé and Claire Perigaud

Laboratorie de Physique et Chimie de l'Hydrosphére (LA196), 4 Place Jussieu, Paris, France;

Pierre De Mey and Jean-Francois Minster

Groupe de Recherches de Géodésie Spatiale (UM39) 18 Avenue Edouard Belin, Toulouse, France

(Manuscript received August 1, 1985, in final form April 29, 1987) DOI: 10.1175/1520-0485(1987)017<2273:OOLEWI>2.0.CO;2

ABSTRACT

Synoptic maps of the mesoscale dynamic topography in a band between 7.5°N and 7.5°S in the Pacific Ocean are drawn from Seasat altimeter data. They show a set of eddies 600 km in diameter and 15-20 cm in amplitude moving westward with a velocity of about 40 km day⁻¹ along 4.5°N. Their occurrence is consistent with the surface temperature front undulations observed by Legeckis. South of the equator the signal is less coherent, but a significant degree of symmetry with the north is evidenced. The dynamics of the wave system might also present some degree of nonlinearity, as some water seems to be carried along with the wave.

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