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The Annual Cycle of Sea Level in the Eastern Tropical Pacific

G.R. Bigg

Hooke Institute for Atmospheric Research, University of Oxford, Clarendon Laboratory, Oxford OX1 3PU, U.K.

A.E. Gill

Meteorological Office Research Unit, University of Oxford, Clarendon Laboratory, Oxford OX1 3PU, U.K.

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ABSTRACT

The long period response of sea level on the eastern boundary of the Pacific separates, for linear dynamics, into a remotely forced part mainly due to zonal winds along the equator to the west and a locally driven part where sea level slopes to balance the alongshore wind. Examination of the annual component of sea level on the eastern boundary indicates that the locally forced part dominates, whereas the remotely forced part plays a major role at semiannual and interannual periods.

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Headquarters: 45 Beacon Street Boston, MA 02108-3693

DC Office: 1120 G Street, NW, Suite 800 Washington DC, 20005-3826

amsinfo@ametsoc.org Phone: 617-227-2425 Fax: 617-742-8718

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