

# Supporting Information for “Semidiurnal Internal Tide Incoherence in the Equatorial Pacific”

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## Contents of this file

### Additional Supporting Information (Files uploaded separately)

1. Captions for Movies S1

**Introduction** The supplemental material is a gif file that contains 12 frames, each frame is one month. The gif movie shows the absolute baroclinic semidiurnal energy fluxes that are based on the 10 to 14 hour band-passed three-dimensional fields from the  $1/12.5^\circ$  HYCOM simulations.

The gif file is based on 12 png images that were saved at 200 dpi. They were combined using the following LINUX command: “convert -delay 60 -loop 0 FA\_\*\_logv5.png FA\_eq\_v6.gif”.

**Movie S1.** The movie shows the evolution of the monthly-mean semidiurnal baroclinic energy fluxes for one year from September 2011 to August 2012. The fluxes are based on the 10 to 14 hour band-passed three-dimensional fields. The fluxes that radiate poleward and equatorward from the French Polynesian Islands remain largely coherent south of the equator. South of the equator, the main horizontal flux beams (dark red colors) are fixed in place and demonstrate little temporal variability. However, the flux beams become strongly time variable north of the equator. Here, the beams oscillate laterally like “branches in the wind”. In the months of September 2011 to January 2012 the flux beams from the French Polynesian Islands become more diffuse or “washed out” north of the equator (e.g. at  $218^\circ\text{E}$  and  $0^\circ\text{N}$ ). In contrast, in the subsequent months of February 2012 to August 2012, the flux beams are more coherent and radiate as far north as  $15^\circ\text{N}$ .