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8, C150–C151, 2012

Interactive Comment

## Interactive comment on "Early and mid-Holocene climate in the tropical Pacific: seasonal cycle and interannual variability induced by insolation changes" by Y. Luan et al.

## Anonymous Referee #1

Received and published: 20 March 2012

This paper is an in depth analysis of the impact of mid- and early Holocene insolation on the tropical Pacific climate. It will help the community to understand better how the tropical Pacific climate responds to the changes in obliquity and precession. I recommend it to be published in Climate of the Past with only a few remarks:

1. In addition to the impact of local insolation which is analyzed in the paper, any discussion or analysis on the possible impact from extra-tropics on the tropical Pacific climate will be welcome.

2. Page 520, lines 12-15: The statement that cooling in the eastern Pacific and warming in the western Pacific cause easterly wind anomalies and anticylone wind stress





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anomalies outside the tropics needs more explanation, because the co-existence of

4. Page 524, lines18-20: I suggest adding a line after '..... high latitudes.': This is due to the in-phase relationship between annual solar irradiation and obliguity in high

latitudes and anti-phase between them in low latitudes (Berger et al 2010, Quaternary

these features does not necessarily mean they have causal-effect relationship.

Table 1: cold tongue; the line of Brown's conclusion is not completed

3. Page 524, line 3: change 'strengthens' to 'weakens'

Interactive comment on Clim. Past Discuss., 8, 505, 2012.

Science Reviews 29,1968-1982).

**Discussion Paper** 

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