

## ***Interactive comment on “ESD Ideas: Long-period tidal forcing in geophysics – application to ENSO, QBO, and Chandler wobble” by Paul R. Pukite***

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Similar to the QBO, specific aliased harmonics should be observed in the power spectrum of the Chandler wobble if it is forced by impulse modulated tidal period. Because the  $\sim 0.843/\text{yr} = 365.242/(27.2122/2) - \text{integer}(365.242/(27.2122/2))$  main frequency is identified, the other sideband at  $0.157 = 1 - 0.843$  should also exist. It does appear as highlighted in Figure 1 below, both in the model and in the spectrum of the Chandler wobble time series data. A natural resonance would not produce these frequencies, only a forced behavior could plausibly match so closely.

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Discussion paper





Fig. 1.

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