
Interactive
comment

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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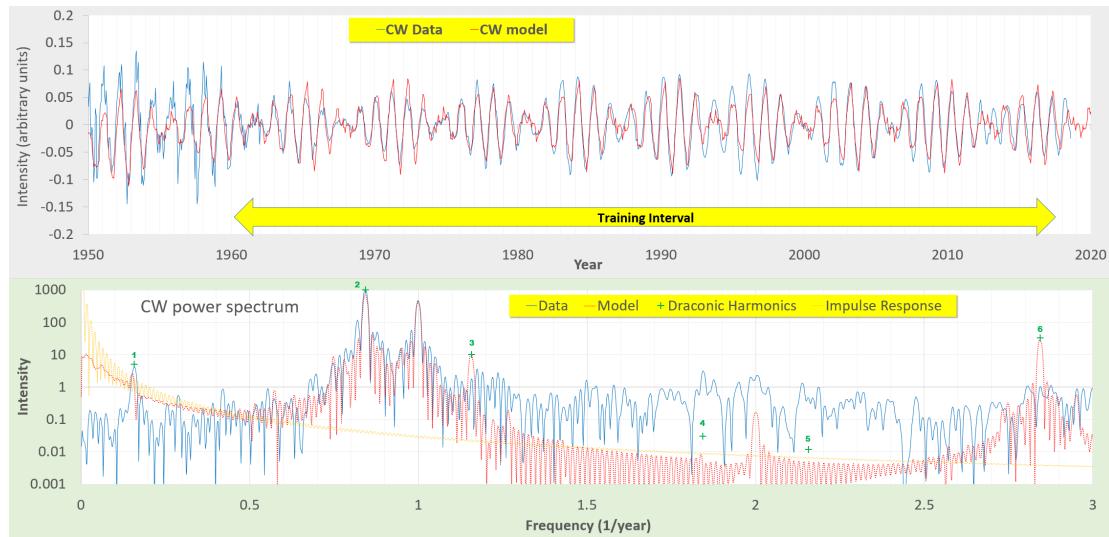
Received and published: 6 January 2021

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 $\sim 0.843/\text{yr} = 365.242/(27.2122/2)$ - 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.

Interactive comment on Earth Syst. Dynam. Discuss., <https://doi.org/10.5194/esd-2020-74>, 2020.



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**Fig. 1.**[Printer-friendly version](#)[Discussion paper](#)