

A note on high-frequency precipitation variance (Light et al. 2022)

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- As shown in Covey et al. (2018), most precipitation variance in observations is in high (sub-daily) frequencies
- Low-resolution climate models do not come close to capturing this
- High-resolution coupled ocean-atmosphere models have begun to capture some of this high-frequency precipitation variance, but not all of them save output often enough to examine sub-daily frequencies
- Ocean resolution also matters, especially if the atmospheric model has relatively high resolution ($\sim 1/4$ degree or finer)

Frequency spectra for Atlantic coast region

