Variable modes of tropical convection modulated by trends in lower stratospheric temperature.

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A comparative analysis is made of the anomalous variations of the intensity of convective systems in the tropical west Pacific in response to altered conditions of lower stratospheric temperature/height/stability; the latter including variable forcing associated with the annual cycle versus that forced by effects of the QBO, volcanoes, and the solar cycle. Results suggest that the amplitude of the seasonally stratified amplitude of 30-60 day variability is sensitive to each and all the latter during specific portions of the annual cycle.