

# **SEASONAL VARIABILITY AND DISSIPATION OF TIDES IN THE MESOPAUSE REGION OVER MAUI, HAWAII**

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Seven-year (2002-2008) meteor radar horizontal wind measurement between 80 and 100 km at Maui, Hawaii (21N, 156W) were used to investigate the variability of the diurnal and semidiurnal tides. The dominant variability of the diurnal tide is the strong semi-annual variation as common observed. On average, the tidal amplitudes increase with altitude below 92 km without much dissipation, and decrease with altitude above, indicating strong dissipation. Variation of gravity wave activity is also examined by using the meteor radar wind variance and correlate with the tidal variability to examine their relationships.

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