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Solar-cycle variations of the high-latitude solar inertial mode

We analyze series of Dopplergrams from MWO (1967-2012), GONG (2001-2022), and SDO/HMI (2010-2022) to characterize the temporal variations of the high-latitude solar inertial mode with azimuthal order $m = 1$. This mode has an amplitude of 10-20 m/s, making it the strongest among all the observed modes in the inertial frequency range. We will present measurements of the mode's power and frequency in sliding time windows of three years.

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