

ON RELATION CONNECTING TIDAL COMPONENTS OF MESOSPHERIC WINDS AND DEL Y OF GEOMAGNETIC FIELD AT INDIAN LOW LATITUDES.

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The relationship between tidal amplitudes in mesospheric wind obtained by MF radar at Tirunelveli (8.7° N, 77.8° E) and the variation in Y components was investigated on selected days of low sunspot year 1995 and 1996 over Indian Region. A reduction in the diurnal and/or an enhancement of semi-diurnal tide amplitude on most of these days, which are close to each other, is observed. An anticorrelation is observed between Del Y and amplitude of the diurnal tide. The reason for these is analyzed giving importance to semi-diurnal tide.

Del Y, EEJ strength, CEJ, Autocorrelation

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