OBSERVED CHARACTERISTICS OF 4 DAY AND 15 DAY WAVE MODES DURING AUTUMN EQUINOX OVER INDIA

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Cross spectral method using FFT applied to daily radiosonde wind data, collected at ten stations over India, to investigate the direction and phase speed of dominant wave mode of synoptic scale at different altitude of troposphere and lower stratosphere. Prominent period of 4 day and 15 day have been identified showing, lator one, westward direction of propagation of phase speed 10-15 m/s preferably in upper troosphere, where as the direction revesed to eastward below 10 km. The rate of equatorward shift of 15 day wave was found to be 5 degree/day.