

Wave signatures observed in OI 557.7 nm nightglow at Kolhapur (16.8° N, 74.2° E), India.

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Gravity waves and tides are important drivers of the dynamics of mesosphere-lower thermosphere system (MLT region). OI 557.7 nm airglow emission, originating from MLT region, strongly carry signature of these processes. The nighttime measurements of OI 557.7 nm emission have been carried out at Kolhapur (16.8° N, 74.2° E), India since November 2003 using an all sky scanning photometer. Small as well as long period (hours to days) wave-like variations are observed in intensity variations of OI emission. Preliminary results of investigation of wave signatures for the periods ranging from 0.5 - 8 hours have been presented.