

Ground based all sky imager to study large-scale wave features

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The ground based all sky imager is a very effective technique for the study of large scale irregularities. Such all sky imagers have been widely used for the study of acoustic gravity waves, which cause turbulence in the upper atmosphere, deposit energy and momentum and in that process, modify the temperature and affect the circulations. Another field of application of such imagers are in the study of large scale plasma depletions, often associated with the equatorial spread-F (ESF) irregularities. The scope such upper atmospheric studies are extended to mid-latitudes with the recent reports of mid-latitude spread-F. This paper is to introduce the all sky imaging technique and demonstrate its capabilities, showing some of the experimental results.

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