

Title: Equatorial Spread F Occurrence during Summer Solstice over Tirunelveli Region.

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Abstract:

A study carried out on the occurrence of pre-midnight and midnight spread F events at an equatorial station Tirunelveli (8.7°N , 77.7°E) equipped with Digital ionosonde (CADI). The ionogram data obtained from the ionosonde has been used for identifying the midnight spread F events and also associated temporal variation of virtual height and frequency during the summer solstice. The percentage occurrence of May solstice is analyzed and more ESF occurrences are observed between 12:00 IST – 01.30 IST, unlike equinox where ESF is seen predominately in the post-sunset. The observations are discussed on the midnight occurrence F region irregularities in the summer of solar minimum condition.