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Title:	The study of equatorial plasma bubble during January to April 2012 over Kolhapur (India)
Authors:	Narayanan, V.L. (/jspui/browse?type=author&value=Narayanan%2C+V.L.)
Keywords:	Airglow All-sky imager Equatorial plasma bubbles Zonal wind velocity
Issue Date:	2016
Publisher:	Editrice Compositori s.r.l.
Citation:	Annals of Geophysics, 59(2)
Abstract:	Over 53 nights of all sky airglow imager data collected during January- April 2012 from the low latitude station Kolhapur (16.68°N, 74.26°E; 10.6°N dip latitude) have been analyzed to study the F-region dynamics through the imaging of OI 630 nm emission line. The observed night airglow data were supported by the ionosonde measurements from Tirunelveli (8.7°N, 77.8°E; 0.51°N dip latitude). Well defined magnetic field aligned depletions were observed during the observation period. Out of 53 nights, 40 nights exhibited the occurrence of north-south aligned equatorial plasma bubbles. These plasma bubbles were found moving towards east with drift speed in range between 70 to 200 m s-1. We have analyzed the zonal drift velocity variation and relation of bubble occurrence with the base height of the ionosphere together with the effects of the geomagnetic Ap and solar flux F10.7 cm index in its first appearance.
Description:	Only IISERM authors are available in the record.
URI:	https://www.semanticscholar.org/paper/The-study-of-equatorial-plasma-bubble-during-to-Patil-Ghodpage/7a46e37254daa68722e13c6181fa7198ca4d2e8d (https://www.semanticscholar.org/paper/The-study-of-equatorial-plasma-bubble-during-to-Patil-Ghodpage/7a46e37254daa68722e13c6181fa7198ca4d2e8d) http://hdl.handle.net/123456789/2566 (http://hdl.handle.net/123456789/2566)
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