

Precise seasonal EIA structures in Southeast Asia

Kornyanat Watthanasangmechai[1]; Mamoru Yamamoto[2]; Akinori Saito[3]; Takashi Maruyama[4]; Tatsuhiro Yokoyama[4];
Michi Nishioka[4]; Mamoru Ishii[4]

[1] RISH, Kyoto Univ.; [2] RISH, Kyoto Univ.; [3] Dept. of Geophysics, Kyoto Univ.; [4] NICT

To reveal the precise seasonal EIA structures in Southeast Asia, the TEC from GNU radio beacon receiver (GRBR) are investigated. Thanks to a fast scanning of the beacon receivers, the EIA structures captured by the beacon network are considered static. Regarding to the high spatial resolution of the beacon network, EIA crests are precisely revealed. During equinox, EIA tends to be fairly symmetric. The rapid evolution of EIA appears during geomagnetic disturbances. Most of the ripples in TEC during equinox are regarding to plasma bubble occurrence. During solstice, EIA is quite asymmetric. Most of the ripples in TEC are presumed to be due to MSTID that is under investigation. The precise structures of EIA in both equinox and solstice will be presented in this presentation.