

## Characteristics of Pi 2 pulsations around the dawn and dusk terminator

IMAJO, Shun<sup>1\*</sup> ; YOSHIKAWA, Akimasa<sup>2</sup> ; UOZUMI, Teiji<sup>2</sup> ; OHTANI, Shinichi<sup>3</sup> ; NAKAMIZO, Aoi<sup>4</sup> ; MARSHALL, Richard<sup>5</sup> ; SHEVTSOV, Boris M.<sup>6</sup> ; AKULICHEV, Victor A.<sup>7</sup> ; SUKHBAATAR, Usnikh<sup>8</sup> ; YUMOTO, Kiyohumi<sup>2</sup>

<sup>1</sup>Dept. Earth Planet. Sci., Kyushu Univ., <sup>2</sup>ICSWSE, Kyushu Univ., <sup>3</sup>APL, Johns Hopkins Univ., <sup>4</sup>FMI, Arctic Research Unit, <sup>5</sup>IPS Radio and Space Services, Bureau of Meteorology, Australia, <sup>6</sup>Institute of Cosmophysical Researches and Radio Wave Propagation, <sup>7</sup>Pacific Oceanological Insititute, FEB RAS, <sup>8</sup>The Research Center of Astronomy and Geophysics of Mongolian Academy of Sciences

We statistically investigate low-latitude Pi 2 pulsations observed around the dawn and dusk terminator. The main observational results of this study are: (1) Pi 2 pulsations tended to have east-west polarity in the sunlit side of the dawn terminator, while these in the sunlit side of the dusk terminator tended to have north-south polarity. (2) Phase reversals of D-component oscillations occurred near the dawn terminator and 2-3 hours before the dusk terminator. (3) Peaks of D/H (maximum amplitude ratio between D and H component) appear 3 hours after the dawn terminator and near the dusk terminator.

We suggest that there is the dawn-dusk asymmetry of meridional ionospheric currents connecting between equatorial Cowling current and oscillating nightside FACs; meridional currents around dawn is more intense than around dusk. This asymmetry current system can be qualitatively explained by the deformation of potential pattern caused by polarization charges at the terminator.

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