

## 中緯度と低緯度における大気光画像と熱圏風の南北共役点観測

### Geomagnetic conjugate observations of airglow images and neutral winds in the low and middle latitude thermosphere

塩川 和夫<sup>1\*</sup>, 福島 大祐<sup>1</sup>, 大塚 雄一<sup>1</sup>, 西岡 未知<sup>2</sup>, 久保田 実<sup>2</sup>, 津川 卓也<sup>2</sup>, 長妻 努<sup>2</sup>, フィル・ウィルキンソン<sup>3</sup>  
SHIOKAWA, Kazuo<sup>1\*</sup>, FUKUSHIMA, Daisuke<sup>1</sup>, OTSUKA, Yuichi<sup>1</sup>, NISHIOKA, Michi<sup>2</sup>, KUBOTA, Minoru<sup>2</sup>, TSUGAWA, Takuya<sup>2</sup>, NAGATSUMA, Tsutomu<sup>2</sup>, Phil Wilkinson<sup>3</sup>

<sup>1</sup> 名古屋大学太陽地球環境研究所, <sup>2</sup> 情報通信研究機構, <sup>3</sup> IPS Radio and Space Services

<sup>1</sup> Solar-Terrestrial Environment Laboratory, Nagoya University, <sup>2</sup> National Institute of Information and Communications Technology, <sup>3</sup> IPS Radio and Space Services

In 2010-2011, we have installed four Fabry-Perot interferometers and four all-sky cooled-CCD airglow imagers at two pairs of geomagnetic conjugate stations at low and middle latitudes. The pairs are Kototabang, Indonesia (0.2S, 100.3E, magnetic latitude (MLAT): 10.6S) and Chiang Mai, Thailand (18.8N, 98.9E, MLAT: 8.9N) at low latitudes, and Darwin, Australia (12.4S, 131.0E, MLAT: 22.1S), and Sata/Shigaraki, Japan (Sata: 31.0N, 130.7E, MLAT: 21.2N, and Shigaraki: 34.8N, 136.1E, MLAT: 25.4N) at middle latitudes. These pairs are suitable for investigation of hemispheric coupling of ionospheric structures. In this presentation, we show some initial results of conjugate observations of plasma bubbles and medium-scale traveling ionospheric disturbances and associated neutral winds at these two pairs of conjugate stations.

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