

2009年7月22日の日食時における電離圏全電子数変動

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Variations of the ionospheric total electron content during the solar eclipse on July 22, 2009

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Variations of the ionosphere during the solar eclipse on July 22, 2009 were observed with GPS receivers in the total solar eclipse zone. Total electron content (TEC) in the ionosphere and the plasmasphere was measured in Nakano-shima (29.8N, 129.9E) with 20 Hz sampling rate. Associating with the GPS data of Suwanose-jima (29.6N, 129.7E), the temporal variation of the ionized atmosphere during the solar eclipse was studied using these high sampling rate data. The spatial structure and its change were detected by the GPS receiver network, GEONET, operated by Geographical Survey Institute. The observed TEC data will be compared with the ionosonde observation in Yamagawa (31.2N, 130.6E) and Okinawa (26.7N, 128.2E).