Observation of the OH rotational temperature at Sao Martinho observatory

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The ground-based measurement of the OH rotational temperature has been started from 1999 at Brazilian observatory of San Martinho (29.5S, 53.8W) and Cashoeira Paulista (22.7S, 45.0W). The OH(3-1) 2P1, 4P1 and O2(0-0) airglow radiations are measured by using the filter radiometer as well as the background component.

The monthly averaged temperature were 207.1K in Aug., 213K in Sep., 210.3K in Oct., 221.0K in Nov. and 216.5K in Dec. There was no clear seasonal variation that were seen in the data obtained at Ikebukuro (36N).