

RADIOWAVE ABSORPTION MEASUREMENT NEAR GEOMAGNETIC ANOMALY REGION
DURING A MAGNETIC STORM

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Radiowave absorption measurement in HF and MF bands are being conducted at Gaspar, SC, near Geomagnetic Anomaly Region since May 1986. In September 1987, a fluxgate magnetometer has been installed in this region. The radiowave absorption was measured during two magnetic storms in September 1987. The magnetic and radio data are compared and discussed here. The radiowave absorption is also compared with a model calculation.

MEDIUM FREQUENCY RADIOWAVE ABSORPTION AT SUNRISE AND SUNSET TIMES
IN THE GEOMAGNETIC ANOMALY REGION

The absorption of radiowaves in the ionosphere at sunrise and pre-sunrise times is affected by the ionizing processes in different parts of the D region and lower E region at these times. By monitoring a medium frequency constant wave transmitter at Gaspar, SC, in the Brazilian Geomagnetic Anomaly Region, the absorption effects are studied during the pre-sunrise and post-sunset periods in order to understand the ionizing processes at these times in the D region. The results are also compared with CCIR model calculations.