

GEOMAGNETIC MICROPULSATIONS AT COMANDANTE FERRAZ*

by

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ABSTRACT

Geomagnetic and geoelectric pulsations in the range from 10 to 500 seconds are recorded at the Brazilian station Comandante Ferraz in the Antarctic peninsula. The characteristics of the PC3 and PC4 micropulsations are studied and discussed in terms of hydromagnetic waves generated at the sunward side of the earth's magnetosphere. Besides, the same measurements are utilized to obtain a local conductivity profile of the earth's crust and upper mantle at the station region using principles of electromagnetic induction.

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