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Geographic whistler distributions derived from the RNF experiment onboard DEMETER

J.-L. Pinçon (1), M. Parrot (1)

(1) LPCE/CNRS - University of Orléans, France (Email: jlpincon@cirs-orleans.fr)

The RNF experiment onboard DEMETER is a neural network system dedicated to automatic identification and classification of the whistlers encountered by the satellite. Using the data coming from the RNF experiment, it is possible to obtain the geographic whistler distributions at the altitude of the satellite for different ranges of dispersion parameters and for both night time and day time conditions. The obtained maps are presented. Unexpected relationship between powerful VLF transmitters and whistler intensification areas are evidenced and discussed.