

## WHISTLER-TRIGGERED EMISSIONS OBSERVED AT HIGH LATITUDES (L=6)

M.Goncharova (*Polar Geophysical Institute, Apatity, 184200, Russia*),  
J.Manninen, A.Oikarinen, J.Kangas (*University of Oulu, FIN-90570 Oulu, Finland*),  
T. Turunen (*Sodankyla Geophysical Observatory, Sodankyla, Finland*)

VLF observations during the Auroral campagne of January 1993 have revealed whistler-triggered emissions (WTE) can be frequent at high latitudes ( $l=6$ ) and thus would be adopted as an important source for electron precipitations in auroral and subauroral zones. 55 of 329 VLF emissions series (banded noise & chorus) detected during one day 15.01.93 were clearly triggered by whistlers. Examination of causative whistlers' characteristics show that in spite of they might be tangent to 4th L-shell near the equatorial plane they could deviate from field-aligned trajectory poleward. This result give an evidence that emissions series can be successfully triggered by nonducted natural signal. During time interval of maximum WTE occurrence (10 - 18 LT) joint variations in causative whistler noise frequency and lower bound frequency of emissions has been noted; for example, the detection of additional emission bands near the noon followed the appearance of new whistler active components.