

Detection of VHF scattering waves before the Hidaka Mountain earthquakes.

Takeo Moriya[1]; Isao Yamamoto[2]; Toru Mogi[3]; Masamitsu Takada[4]

[1] ISV., Hokkaido Univ.; [2] ice.ous; [3] Inst. Seismol. Volcanol., Hokkaido Univ.; [4] Inst. Seismology and Volvanology, Hokkaido Univ.

Seismic activity in the southern Hidaka Mountains of Hokkaido has been monitored by observation of the VHF scattering waves. Before more than 40 earthquakes, scattering waves from NHK-Hiroo were observed at Erimo observatory. Total duration times of the scattering waves are clearly related to magnitude, maximum seismic intensity and depth of the hypocenter. We show not only quantitative relation between VHF anomalies and earthquake parameters but also polarization characteristics of the scattering waves converted from broadcasting waves.