Abstract Details

AOGS 1st Annual Meeting > Interdisciplinary Working Groups > Observation of ULF emissi associated with earthquakes by means of a ULF network. >

Corresponding Author : Prof. Masashi Hayakawa (hayakawa@whistler.ee.uec.ac.jp)

Organization: University of Electro-Communications

Category: Interdisciplinary Working Groups

Paper ID: 57-IWG-A742

Title: Observation of ULF emissions associated with earthquakes by means ULF network.

Abstract:

Short-term prediction of earthquakes is still an urgent and important for seismo-active countries like Japan. There have been recently foun of convincing evidences on the presence of electromagnetic phenome associated with earthquakes. One of the most promising condidates f short-term earthquake prediction is ultra-low-frequency (frequency le 10Hz)(abbreviated as ULF) electromagnetic emission. This paper deal ULF electromagnetic emissions associated with earthquakes. We know seismogenic electromagnetic emissions take place in a wide frequenc but we believe that ULF emission is the most promising candidate for seismogenic studies because this ULF emission is definite to come fro lithospheric source unlike the higher frequency emissions whose gene mechanism is still quite difficult to understand because of the extrem enhanced propagation loss in the ground. Furthermore, there have be accumulated a lot of convincing evidence on the presence of seismo-U emissions before large earthquakes (Spitak, Loma Prieta, Guam etc.) intend to first review the earlier convincing experimental results on th seimogenic ULF emissions, then show our latest results in Japan on th of our sophisticated signal processing. Then, we discuss the mechanis their generation and subsequent propagation. Finally, we propose wha in future in this subject.

Presentation Mode: Oral

Keywords:

Status: Pending.

Co-Authors

No.	Title	First Name	Family Name	Organization
1	Prof.	Masashi	Hayakawa	University of Electro-Communications