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Design for monitoring network system of UHF electromagnetic wave propagation using FM broadcasting in Hokkaido.

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We have been building a network system for monitoring UHF electromagnetic wave propagation using FM broadcasting in Hokkaido. FM broadcasting station, Sapporo-Teine, Nakasibetsu, Sirikoma, and Akita, are used for as emitter stations of electromagnetic wave. As receiver stations, seismic observation sites, Misumai(HSS), Erimo(ERM), Nemuro(NMR), Nakagawa(TNG), and Kaminokuni(KKJ), operated by Hokkaido University, were selected. FM radios (Panasonic) are used for receiver instruments. Rectified voltage from intermediate frequency transformer of radio is monitored as a strength of electromagnetic wave amplitude. The signals are telemetered to Hokkaido University, Sapporo.