

Compilation of the Network-MT responses all over the Japan and a strategy for their 3-D interpretation

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In order to determine nation-wide deep electromagnetic conductivity structure down to upper mantle, the Network-MT observation technique was developed. Since 1989, the observation has been performed all over the Japan. Now, geo-electric potential difference datasets on more than 1000 dipoles have been accumulated. The observation area includes, the central and eastern part of Hokkaido, Tohoku, the southern part of Ibaragi, the eastern part of Shikoku and Chugoku districts and Kyushu. There prevail a variety of tectonic activities in those observation regions. We first present the spatial distribution of the Network-MT responses compiled all over the Japan. Then a strategy for the 3-D modeling of these datasets is discussed.