

HGM005-05

Room: Exhibition hall 7 subroom 3

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Experimental nondestructive imaging of sedimentary structures under the marshland using Ground-Penetrating Radar

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Ground penetrating radar (GPR) is a geophysical profiling method based on propagation and reflection of electromagnetic waves. This method is recently used for geomorphological and geological survey under the alluvial lowland, because it is effective for the imaging of the shallow underground less than 10 m depth. In our presentation, we show experimental imaging of sedimentary facies under the marshland in Nemuro and Kiritappu, eastern Hokkaido using our GPR method, and also we show GPR imaging is a good method to identify tsunami traces in the peat bed.

Keywords: Ground-Penetrating Radar, marshland, peat, nondestructive, experimental imaging, east Hokkaido