

## The new designed wide penetrator and their sampling experiments at coastal marsh and lagoon, eastern Hokkaido

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We tried to make a new designed wide penetrator for our field survey in coastal marsh and lagoon areas. It has four characteristics further than the conventional thing marketed such as samplers, extensional lodes, handles and the index of inserted depth. Using this penetrator, we tried sampling experiments and got many tsunami deposits and volcanic ash layers due to large tsunamis at coastal marsh, Kirittapu marsh and lagoon, Tokotan-numa lagoon around the eastern Hokkaido facing the Pacific Ocean. We would like to describe a part of these results.