

DeepNINJA has succeeded in observation in the Antarctic iced deep sea in the winter for the first time in the world.

DeepNINJA is the deep sea observation profiling float developed jointly by TSK(The Trurumi-Seiki Co.,Ltd.) and JAMSTEC(Japan Agency for Marine-Earth Science and Technology)

DeepNINJA has successfully operated for collecting data of temperature and salinity in the winter deep sea in the Antarctic where the surface is covered by the thick ice since December 2012. This instrument can automatically repeat ups and downs in the sea and while appearing on the sea surface, transmit data by satellite communications. It can also recognize the ice on the sea. When there is ice on the surface of the sea, it stops a rise up and descends down into the water again.

Before DeepNINJA developed, observing the consecutive data of through one year in Antarctic ocean was impracticable because of the ice on the sea.

We believe this achievement can considerably contribute to the study of the climate change on the earth.