

Deep NINJA, Abyssal Ocean Profiling Float

We, TSK (The Tsurumi-Seiki Co., Ltd.) has successfully brought a float for abyssal oceans called "Deep NINJA" (Fig.1) to completion. This float was developed jointly with JAMSTEC (Japan Agency for Marine-Earth Science and Technology).

At present, 4 Deep NINJA floats were launched in the Antarctic Ocean by JAMSTEC as shown in Fig.2 and are devoting to a long-term task.

Deep NINJA is capable of diving down to a depth of 4000m. It obtains data while it travels back and forth between the sea surface and 4000m deep. When Deep NINJA reaches the sea surface, it transmits data.

TSK started the studies of development of new technology necessary for Deep NINJA in 2007. In 2010, this technology was recognized and embraced by JAMSTEC for a project devised by them, so we got to work on the development of Deep NINJA.

TSK began to put Deep NINJA on the market since 2013.



Fig.1 Deep NINJA

C.T.D sensors, GPS system, and system for data transmission are embedded.

A part of buoyance control mechanism is covered with white protector on the bottom of the float.

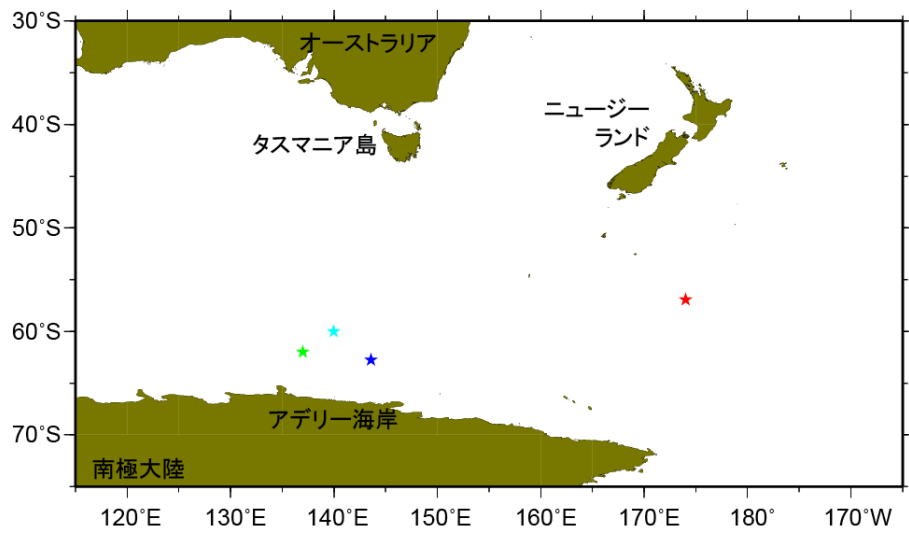


Fig.2 Launch positions of 4 Deep NINJA floats.
(Supplied by JAMSTEC)

Apr. 18, 2013