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Ice-Tethered Profiler: ITP24 Overview

Deployment Location: 10/3/2008, 03:00 UTC at 81° 14.5'N, 121° 17.3'E

Last Location: 1/30/2010, 12:00 UTC at 73° 29.6' N, 15° 6.6' W

Duration: 484 days

Distance Travelled: 5264 km

Number of profiles: 718 in 357 days

Other instruments: PAWS

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Two years after being deployed north of the Laptev Sea in the Eurasian Basin of the Arctic Ocean, ITP 24 surface package, supplementary foam and a portion of the tether was found floating in the Greenland Sea and recovered by an Icelandic fishing vessel. (Marvin Ingolfsson)

ITP24 was deployed on a 1.5 m thick ice floe in the Transpolar Drift from the German Research Vessel *Polarstern* as part of the European Union DAMOCLES Program. On the same ice floe, an University of Hamburg (ZMAW) PAWS meteorological station was also installed. The ITP operated on a typical sampling schedule of 2 one-way profiles between 7 and 760 m depth each day. In August 2010, twenty-two months after deployment north of the Laptev Sea and 13 months after the surface unit ceased transmitting, an Icelandic fishing vessel found the buoy (with torn tether and no profiler) drifting north of Iceland. With the help of the Icelandic Coast Guard and Marine Research Institute in Rekjavik, the surface package was eventually returned and an additional 3 months of profiler data (179 profiles) and 7 months of GPS locations were retrieved from the internal memory.

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