

Ice-Tethered Profiler: ITP 15 Overview

Deployment Location: 9/11/2007, 00:00 UTC at 86° 39'N, 177° 19'E

Last Location: 8/14/2010, 13:58 UTC at 72° 12.9' N, 72° 33.2' W

Duration: 1068 days

Distance Travelled: 3819 km

Number of profiles: 1305 in 434 days

Other instruments: Ice Beacon (Meteorological)

ITP15 was deployed on a 2.5-3.0 m thick icefloe in the Transpolar Drift from the German icebreaker "Polarstern" as part of the European Union [DAMOCLES](#) Program. The ITP operated on a rapid sampling schedule of 3 one-way profiles between 7 and 760 m depth each day, even while the surface buoy was pushed beneath the ice after the first two months of drift. Over 2.5 years later the surface package (with tether but not profiler) resurfaced south of Nares Strait and was retrieved by the *CCGS Des Groseilliers*. Upon surfacing, data from an additional 1140 profile attempts buffered in the surface package were transmitted, including when the profiler fatally dragged over shallow bathymetry north of Nares Strait.



[Enlarge Image](#)

A meteorological Ice Beacon and ITP 15 shortly after deployment during the ARKXXII-2 expedition in 2007. (Photo by Ben Rabe)

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