

Ice-Tethered Profiler: ITP 7 Overview

Deployment Location: 4/28/2007, 12:00 UTC at 88° 48.6'N, 12° 30.8'W

Last Location: 2/7/2008, 22:00 UTC at 59° 9.2' N, 41° 50.2' W

Duration: 285 days

Distance Travelled: 4876 km

Number of profiles: 746 in 186 days

Other instruments: IMB ARC5756, AOFB, Weatherex

ITP 7 was deployed on a 2.5 m thick icefloe in the Transpolar Drift as part of the [North Pole Environmental Observatory \(NPEO\)](#). On the same icefloe, a [Naval Postgraduate School Arctic Ocean Flux Buoy \(AOFB\)](#) and [Climate Change College](#) meteorological mast were also installed. On a separate icefloe approximately 1 km away, a [US Army Cold Regions Research and Engineering Laboratory \(CRREL\) Ice Mass Balance Buoy \(ARC 5756\)](#) and [NOAA/PMEL Weatherex station](#) were deployed. The ITP operated on a fast sampling schedule of 4 one-way profiles between 7 and 760 m depth each day, obtaining 746 profiles until the profiler dragged over the East Greenland shelf. The surface package continued to transmit GPS locations for another 100 days.



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Only 70 miles from the North Pole, ITP 7 as deployed in April 2007. The ITP was one component of an IBO installed as a component of the NPEO.

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