

Ice-Tethered Profiler: ITP 12 Overview

Deployment Location: 9/14/2007, 15:00 UTC at 86° 37.9'N, 134° 37.8'E

Last Location: 9/22/2009, 12:23 UTC at 62° 31.0' N, 20° 5.5' W

Duration: 739 days

Distance Travelled: 13,630 km

Number of profiles: 321 in 106 days

Other instruments: IMB 23676, AOFB 14, ITAC, NOAA Webcam



[Enlarge Image](#)

Ben Rabe stands behind ITP 12 shortly after deployment as part of a DAMOCLES "Super Buoy Array" over the Lomonsov Ridge in 2007. Photo by Patrick Laan.

ITP12 was deployed on a 2.2 m thick icefloe in the Transpolar Drift from the German icebreaker "Polarstern" as part of the European Union [DAMOCLES](#) Program in 2007.

On the same icefloe, a [US Army Cold Regions Research and Engineering Laboratory \(CRREL\) Ice Mass Balance Buoy \(IMB\)](#), a [Naval Postgraduate School Arctic Ocean Flux Buoy \(AOFB\)](#), [OPTIMARE Ice-Tethered Acoustic Profiler \(ITAC\)](#), and NOAA webcam were also installed. The ITP operated on a rapid sampling schedule of 3 one-way profiles between 7 and 760 m depth each day until the end of December 2007 when all of the instruments in the "Super Buoy Array" appear to have been swallowed by ice ridging just south of 87° N latitude. The ITP surface package resurfaced in the Denmark Strait between Iceland and Greenland at 66° N eleven months later and continued to send locations as it drifted in the open ocean for another 11 months before ceasing to operate on the south coast of Iceland.

Last updated: October 23, 2014

Copyright ©2007 Woods Hole Oceanographic Institution, All Rights Reserved.

Mail: Woods Hole Oceanographic Institution, 266 Woods Hole Road, Woods Hole, MA 02543, USA.

E-Contact: info@whoi.edu; press relations: media@whoi.edu, tel. (508) 457-2000

Problems or questions about the site, please contact webdev@whoi.edu