

Ice-Tethered Profiler: ITP 1 Overview

Deployment Location: 8/15/2005, 18:50 UTC at 78° 51.1'N, 150° 15.4'W

Recovery Location: 8/8/2007, 19:00 UTC at 74° 40.3' N, 151° 21.2' W

Duration: 723 days

Distance Travelled: 4990 km

Number of profiles: 2043 in 511 days

Other instruments: IMB 07949

The second ITP that was fielded was ITP1, which was deployed in the Beaufort Sea as part of the [Beaufort Gyre Observing System \(BGOS\)](#) during the JWACS 2005 cruise on the CCGS Louis S. St. Laurent. ITP 1 and an [US Army Cold Regions Research and Engineering Laboratory \(CRREL\) Ice Mass Balance Buoy](#) were deployed on a 4.6 m thick multiyear ice floe in a location designed to drift through the BGOS array over the following year. The profiler unit operated until it exhausted its memory on 8 January 2007, but the surface unit continued to provide status enabling the system to be recovered the following summer during the JOIS 2007 cruise.

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ITP1 and IMB 0749 as deployed on August 15, 2008, with CCGS Louis St. Laurent in background. Photo by Chris Linder.