

Ice-Tethered Profiler: ITP18 Overview

Deployment Location: 8/16/2007, 21:00 UTC at 78° 56'N, 139° 58'W

Last Location: 10/21/2008, 17:01 UTC at 74° 8.1' N, 143° 20.1' W

Duration: 432 days

Distance Travelled: 3907 km

Number of profiles: 914 in 419 days

Other instruments: AOFB 13, IMB 2007-E

ITP18 was deployed on a 3.3 m thick ice floe in the Beaufort Sea as part of the [Beaufort Gyre Observing System \(BGOS\)](#) during the JOIS 2007 cruise on the CCGS Louis S. St. Laurent. On the same icefloe, a [US Army Cold Regions Research and Engineering Laboratory \(CRREL\) Ice Mass Balance Buoy \(IMB\)](#) and a [Naval Postgraduate School Arctic Ocean Flux Buoy \(AOFB\)](#) were also installed. The ITP operated on a standard sampling schedule of 2 one-way profiles between 7 and 760 m depth each day while drifting south from 78 to 74° N over a 14 month period and spent the last 6 weeks in the MIZ or open water.

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The second and final ice based observatory of the JOIS 2007 cruise consisting of IMB, ITP 18, and AOFB shortly after deployment on a sunny August day with the CCGS *Louis S. St. Laurent* in the distance. (Photo by Rick Krishfield)