

Ice-Tethered Profiler: ITP 4 Overview

Deployment Location: 9/3/2006, 00:00 UTC at 78° 7.6'N, 148° 59.2'W

Recovery Location: 8/17/2007, 21:00 UTC at 78° 30' N, 139° 34' W

Duration: 349 days

Distance Travelled: 2485 km

Number of profiles: 698 in 349 days

Other instruments: none

ITP4 was deployed on a 3.5 m thick ice floe (with 30 cm of freeboard) in the Beaufort Sea as part of the [Beaufort Gyre Observing System \(BGOS\)](#) during the JWACS 2006 cruise on the CCGS Louis S. St. Laurent. The unit operated on a standard schedule of 2 one-way profiles between 7 and 760 m depth each day, but the inductive modem link between the underwater profiler and surface buoy did not function, so the profiler data (698 casts) were not recovered until the ITP was retrieved the following summer during the JOIS 2007 cruise.

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From up close ITP 4 seems to dwarf CCGS Louis S. St Laurent after deployment on September 3, 2006. (Rick Krishfield)