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Ice-Tethered Profiler: ITP 13 Overview

Deployment Location: 8/13/2007, 02:00 UTC at 78° 01'N, 149° 12'W

Last Location: 9/7/2008, 23:00 UTC at 72° 54.7' N, 135° 47.9' W

Duration: 391 days

Distance Travelled: 2790 km

Number of profiles: 876 in 391 days

Other instruments: IMB 30197, AOFB 12, 3 UAF

ITP13 was deployed as part of an Ice-Based Observatory (IBO) in the Beaufort Sea as part of the Beaufort Gyre Observing System (BGOS) during the summer 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 30197) and a Naval Postgraduate School Arctic Ocean Flux Buoy (AOFB) were also installed. The ITP included a dissolved oxygen sensor and operated on a standard sampling schedule of 2 one-way profiles between 7 and 760 m depth each day.

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An Ice-Based Observatory consisting of an Ice-Mass Balance Buoy, Ice-Tethered Profiler, and Arctic Ocean Flux Buoy shortly after deployment in August 2007. (Rick Krishfield)

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