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Ice-Tethered Profiler: ITP11 Overview

Deployment Location: 9/9/2007, 11:00 UTC at *83° 17.7'N, 127° 37.9'W*>

Last Location: 10/22/2009, 15:00 UTC at 74° 35.4' N, 161° 34.3' W

Duration: 774 days

Distance Travelled: 5039 km

Number of profiles: 1690 in 776 days

Other instruments: IMB 30306

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The first Ice-Based Observatory deployed from the Russian research vessel "Akademik Federov" in September 2007 consisted of ITP 11 and IMB on a 2.8 m thick icefloe. (Photo by John Kemp)

ITP11 was deployed on a 2.8 m thick icefloe from the Russian icebreaker "Akademik Federov" as part of the European Union DAMOCLES Program. On the same icefloe, a US Army Cold Regions Research and Engineering Laboratory (CRREL) Ice Mass Balance Buoy (IMB 30306) was also installed. The ITP operated on a typical sampling schedule of 2 one-way profiles between 7 and 760 m depth each day. An attempt was being made in September 2009 to find and recover the ITP (as the profiler was nearing the end of its battery life) when the top float disappeared (presumably beneath the decaying ice ruble). Days later it reappeared and sent updated locations for a brief period, but by then it was too far away to be recovered.

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