In situ Burning in Arctic and Ice-Covered Waters: Tests of Fire-Resistant Boom in Low Concentrations of Drift Ice

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Abstract
A two-day test program was performed in the Barents Sea in May 2009 to perform experiments related to in situ burning of oil in open drift ice. The tests were part of a broader program performed over a two-week period that included tests with skimmers, dispersants, and remote sensing systems, and studies of oil-in-ice behaviour. Preliminary tests were performed with the boom in 2008: these tests did not involve oil, but proved the feasibility of several operational aspects of fire-boom use in ice. In the 2009 test program, oil was collected in ice-affected waters and subsequently burned in situ with a high degree of effectiveness.