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Research Interests: Polar oceanography, Arctic climate change, Arctic Ocean circulation, modeling of sea ice and water dynamics, Arctic Ocean tides, storm surges, regional oceanography of the arctic seas, polar meteorology.

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Lique C., J. D. Guthrie, M. Steele, A. Proshutinsky, J. H. Morison and R. Krishfield (2013)Diffusive vertical heat flux in the Canada Basin of the Arctic Ocean inferred from moored instruments, JGR (submitted)

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Research Cruises

1976–1979: Airborne research polar expedition "SEVER" (March–June).

1981–1982: Sea ice observations co-leader in 27th Soviet Antarctic expedition aboard R/V *Mikhail Somov*.

1981–1991: 12 cruises on the Arctic and Antarctic Research Institute research vessels and Norwegian vessels to the Norwegian, Greenland, Kara, Chukchi and Bering Seas as a cruise leader or senior scientist.

2003: Beaufort Gyre freshwater experiment – 30 day cruise on icebreaker, "*Louis St. Laurent*" to the Beaufort Sea, project principal investigator.