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## Seismic reflection profiling in McMurdo Sound, 1983–1984

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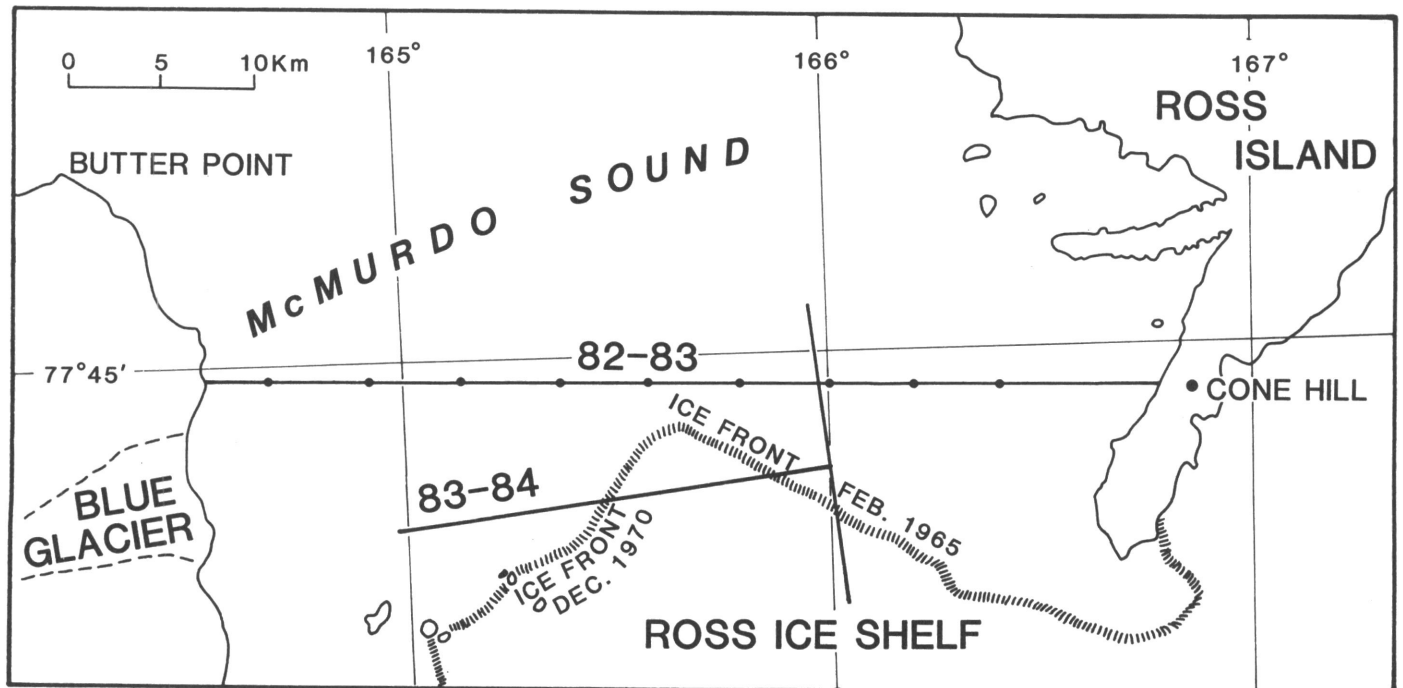
A second full season of reflection seismic profiling on the sea ice of McMurdo Sound was completed in December 1983. Profiles shot during the 1983–1984 field season included one 12 kilometers long, which was perpendicular to a profile shot in

1982–1983, and another 24 kilometers long, which was shot 10 kilometers south. The 1983–1984 study was the first shot from relatively thin sea ice onto 300-meter thick ice of the McMurdo Ice Shelf. Location of the lines of reflection profiling are shown in the figure.

Instrumentation and data acquisition parameters used during the 1983–1984 season were the same as those used during the previous field season except for two changes: (1) the shot position for the south line was 3 kilometers west of the first geophone group and (2) the shot size was doubled to 20 pounds and placed at a depth of 30 meters.

Field personnel for the 1983–1984 season were Rick Bowen, Yeadong Kim, Dean Mento, Doug Layman, Jon Isbell, Stuart Wolf, Bryant Hinton, and Lyle McGinnis.

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Location map of seismic reflection traverses in McMurdo Sound ("km" denotes kilometer.)