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CRUISE REPORT

Vessel: R/V Gyre 85G-07-3

Area of Operations: Gulf of Maine

Ports: Boothbay Harbor, Maine to Woods Hole, Massachusetts

<u>Personnel:</u>	Brad Butman	USGS, Chief Scientist
	Mike Bothner	USGS
	John Moody	USGS
	Carol Parmenter	USGS
	John Larson	USGS
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Objectives:

The purpose of this cruise was to deploy a single current meter mooring in Rogers Pass, in the sill between Georges Basin and Wilkinson Basin. The mooring will monitor the seasonal flow of slope water between these two basins and will complement measurements by D. Brooks (TAMU) in Wilkinson Basin.

Narrative:

July 24	2100	Depart Boothbay Harbor.
July 25	0545	Arrive study site. Start XBT and bathymetric survey.
	1130	Complete survey.
	1200	Start mooring launch.
	1500	Complete deployment, mooring 301. Underway to Woods Hole.
July 26	0600	Arrive Woods Hole.

Tabulated information:

Days at sea:	1.5
XBT stations	20
Moorings deployed:	1
Mooring location:	40°34.9'N., 68°44.9'W., 190 m

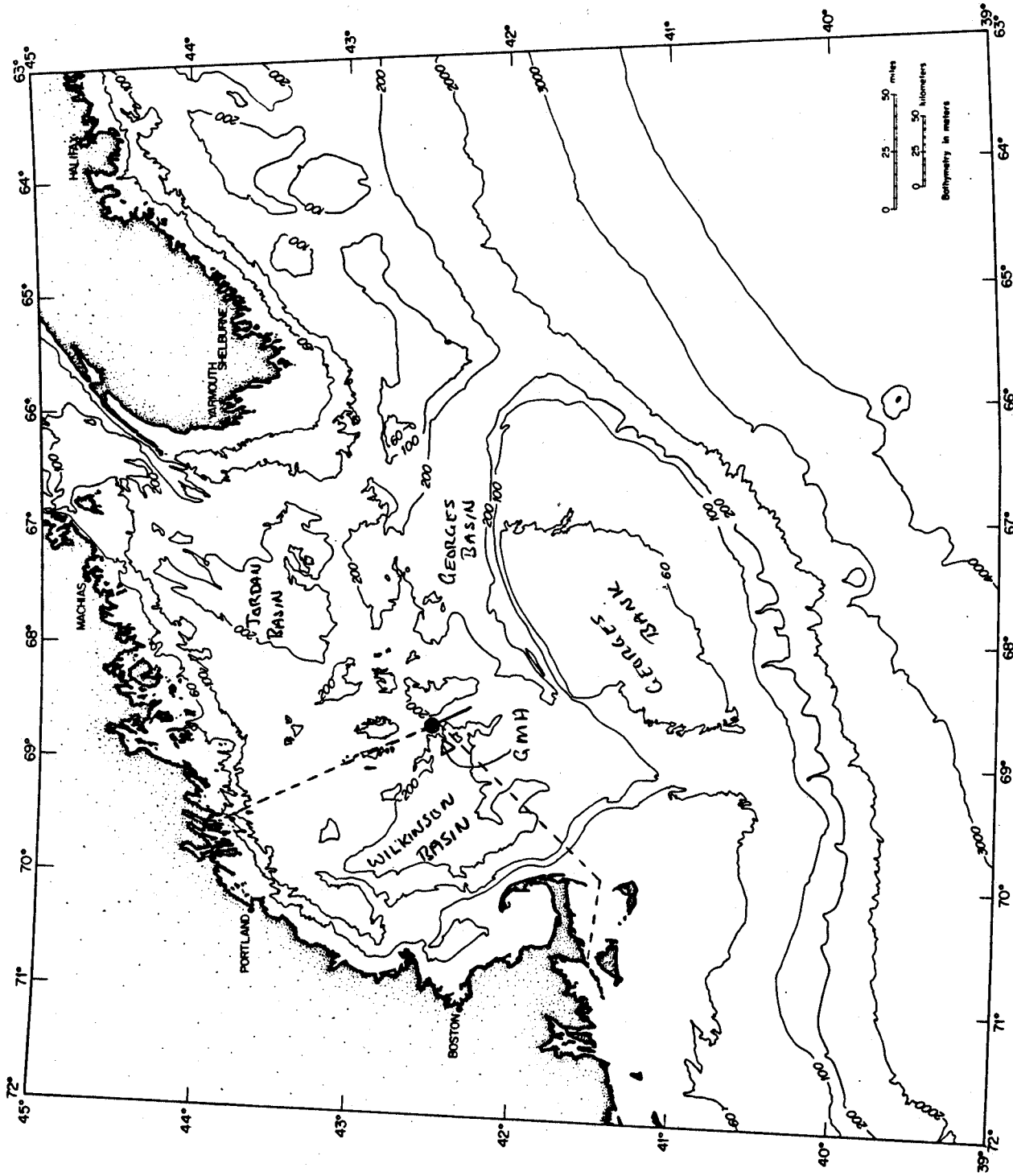
## XBT STATIONS

GYRE 85G-07-3

July 25, 1985

Station	Time HHMM (GMT)	Type	Water depth (m)	Latitude* (N.)	Longitude* (W.)	LORAN TD's	
1	0949	T6	128	42°40.00'	68°50.00'	-	-
2	1000	T6	164	42°37.83'	68°47.84'	-	-
3	1010	T6	168	42°36.51'	68°46.59'	-	-
4	1038	T6	192	42°34.78'	68°44.54'	-	-
5	1101	T6	194	42°33.69'	68°43.40'	-	-
6	1106	T5	192	42°33.25'	68°42.88'	-	-
7	1119	T6	185	42°32.25'	68°41.85'	13167.9	25336.0
8	1134	T6	183	42°30.26'	68°39.91'	13169.3	25322.3
9	1149	T6	179	42°28.25'	68°37.87'	13170.4	25308.4
10	1200	T6	194	42°27.01'	68°36.69'	13171.2	25299.9
11	1216	T7	182	42°24.19'	68°34.63'	13173.6	25285.0
12	1230	T7	168	42°23.01'	68°33.04'	13174.9	25274.1
13	1306	T7	176	42°19.48'	68°31.07'	13184.9	25254.1
14	1343	T7	194	42°23.50'	68°36.83'	13191.0	25282.7
15	1409	T7	194	42°27.00'	68°40.19'	13188.7	25306.1
16	1425	T7	165	42°29.05'	68°42.27'	13188.0	25320.6
17	1439	T7	180	42°31.00'	68°44.26'	13187.3	25334.8
18	1455	T7	194	42°33.04'	68°46.45'	13187.0	25350.2
19	1516	T7	157	42°36.00'	68°49.21'	13184.5	25372.4
20	1944	T7	186	42°30.55'	68°49.17'	13215.6	25341.3

\*Latitude and longitude were computed using micrologic algorithm.



Cruise track for RV GYRE 85G-07-3 showing location of current meter mooring in Rogers Pass (Station GMA), and XBT transect (solid line).