

Received 8/3/84
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84008

Cruise Report: Gulf of Maine, 1984

1. Ship's Name: R.V. Johnson and Johnson-Sea-Link submersible;
Harbor Branch Foundation, Ft. Pierce, Florida.
2. Project: Assessment of Distribution, Abundance and Habitat
Ecology of Lobsters in the Offshore Gulf of Maine.
3. Funding Agency: NOAA
4. Area: Northern Gulf of Maine
5. Dates: July 14-26, 1984; Woods Hole to Woods Hole.
6. Chief Scientist: P.C. Valentine, USGS.
7. Scientific Party: P.C. Valentine, U.S.G.S
T. Meyer, NOAA
R. Clifford, NMFS
R. Langton, Maine DMR
J. Kronse, Maine DMR
8. Ships Captain: William Abney
9. Purpose of Cruise: (1) Determine abundance of lobsters and lobster
shelters in selected areas of the northwest region
of the Gulf of Maine along two transects
originating in commercially productive areas
inshore (Boothbay Harbor and Stonington, Maine) and
ranging offshore to Cashes Ledge and Jordan Basin,
respectively.
(2) Describe and record the geological and
sedimentary features of the sea floor at all dive
locations throughout the programmed transect;
collect sediment samples for grain size analysis
and qualitative infaunal samples.
10. Navigation: Loran-C (Northstar 7000)
11. Scientific Equipment: Submersible with film and video cameras; faunal and
sediment samplers; lobster pots.
12. Days at Sea: 13
Stations occupied: 23
Submersible dives: 26 (JSL2-875 to JSL2-900)
(film and video employed on all dives).

<u>a No.</u>	<u>Date</u>	<u>L/L</u>	<u>Depth (m)</u>	<u>Sampling Device</u>	<u>Samples</u>
1	7-15-84	43°37.88' 69°29.33'	132	submersible	2 sed. samples
2	7-15-84	43°28.81 69°22.83'	149	"	2 " "
3	7-16-84	43°20.18' 69°16.34'	155	"	1 " "
4	7-16-84	43°11.25' 69°09.48'	201	"	3 " "
5	7-17-84	43°02.41' 69°02.83'	147	"	4 " "
6	7-17-84	42°51.53 68°54.08'	144	"	2 " "
7	7-18-84	42°58.18' 68°44.41'	205	"	3 " "
8	7-18-84	43°03.26' 68°32.72'	181	"	3 " "
17	7-19-84	43°48.51' 67°54.37'	174	"	1 " "
17	7-19-84	43°48.33' 67°54.15'	177	"	1 " "
10	7-19-84	43°20.91' 68°24.76'	194	"	3 " "
9	7-20-84	43°07.92' 68°20.21'	199	"	3 " "
11	7-20-84	43°17.75' 67°55.74'	231	"	3 " "
12	7-20-84	43°22.53' 67°43.86'	270	"	3 " "
18	7-21-84	43°54.01' 68°05.53'	180	"	2 " "
16	7-21-84	43°43.02' 67°43.10'	236	"	2 " "
15	7-21-84	43°37.44' 67°31.48'	227	"	2 " "

<u>Sta No.</u>	<u>Date</u>	<u>L/L</u>	<u>Depth (m)</u>	<u>Sampling Device</u>	<u>Samples</u>
13	7-22-84	43°27.32' 67°31.80'	224	submersible	2 sed. samples
14	7-22-84	43°30.69' 67°18.67'	220	"	2 " "
Boothbay Harbor Region:					
Outer Heron Is.	7-24-84	43°45.46' 69°33.25'	70	"	1 " "
Damariscove Is.	7-24-84	43°46.80' 69°35.48'	33	"	none
Pemaquid Pt.	7-24-84	43°49.58' 69°39.26'	34	"	none
Pemaquid Pt.	7-24-84	43°49.48' 69°31.18'	25	"	none
Sheepscot R.	7-25-84	43°47.76' 69°41.44'	41	"	1 sed. sample
Seguin Is.	7-25-84	43°41.40' 69°45.28'	39	"	none
Seguin Is.	7-25-84	43°41.19' 69°45.03'	38	"	none

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U.S.G.S., Woods Hole, MA

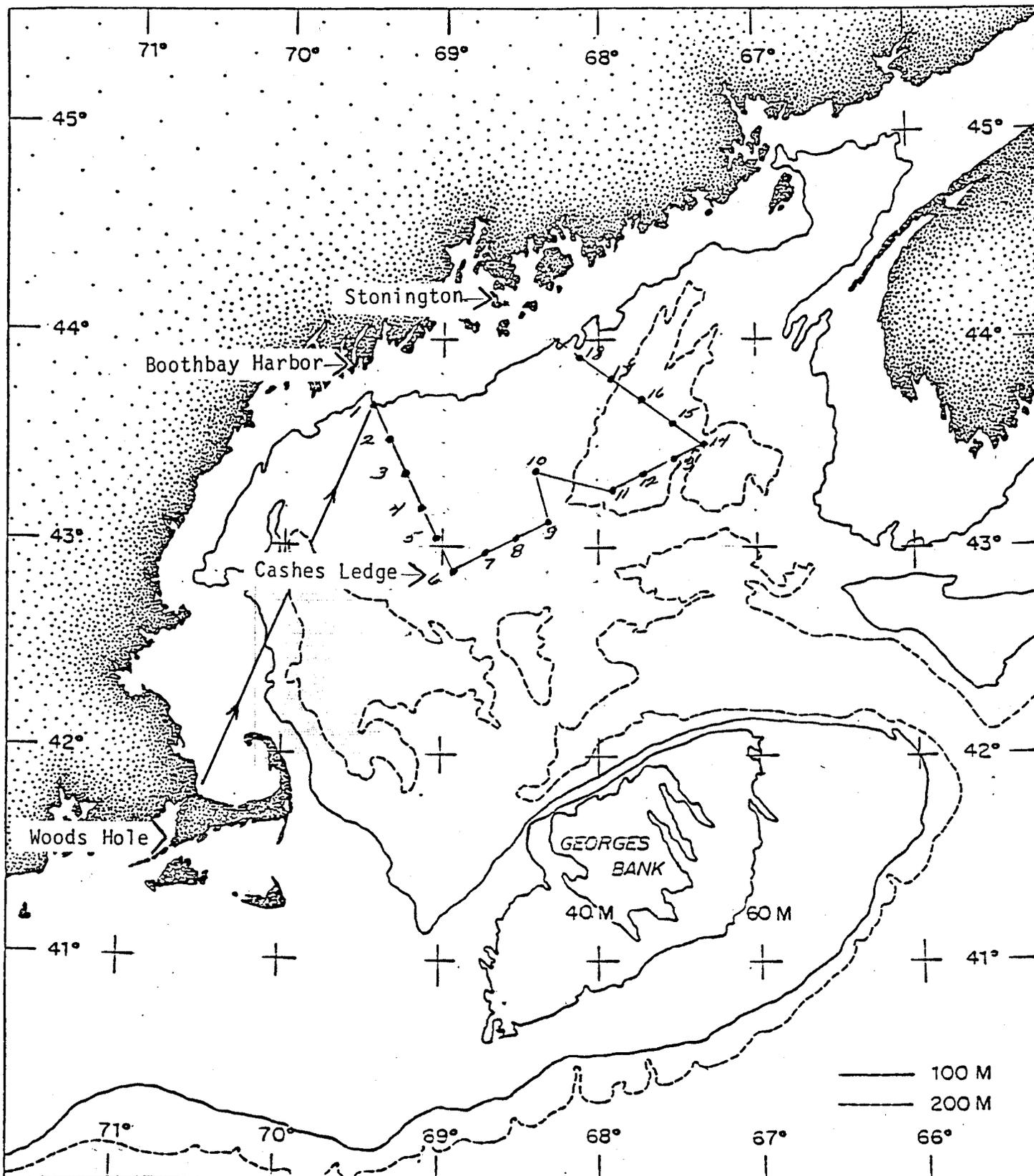


Figure 1.
 Dive station locations for Johnson
 Sea-Link submersible operations,
 Leg III, July 15-26, 1984