78002

Cruise Report

RV Oceanus 39, Leg I

2 - 6 Feb. 1978

B. Butman
USGS
Woods Hole, Mass.

Ship: RV Oceanus
Cruise: 39 Leg I
Area: South Atlantic Bight
Dates: Depart Woods Hole 1700 2 Feb. 1978
Arrive Savannah, Ga. 1600 6 Feb. 1978

Objectives

The purpose of the cruise was to deploy two tripod moorings on the Georgia Shelf, and to conduct CTD and XBT observations as weather and time permitted. The cruise was part of a continuing study of currents and sediment transport on the U.S. east coast continental shelf.

Personnel

Paul Howland	Master
Brad Butman	Chief Scientist
John West	USGS
Gary Prisby	USGS
Stephanie Pfirman	USGS
Betsy Coward	USGS
Nick Lefteriou	USGS
Charles Deadmon	USGS
Frank Jennings	USGS
Al Goodman	USGS
Pete Popenoe	USGS
Andy Eliason	Eliason Data Services

Narrative

2 Feb.	1600	Depart Woods Hole CTD and XBT Stations
3 Feb.	0200	Check USGS Mooring 141 Tripod Upright
	1000	Check USGS Moorings 140,146 Both Upright. Deployed surface marker buoy
4 Feb.		Underway along 60 m isobath XBT and CTD observations
5 Feb.	0700	Deploy USGS Mooring 142 Surface marker and tripod Surface grab sample
	1800	Deploy USGS Mooring 143 Surface marker and tripod Surface grab sample XBT and CTD transect.
6 Feb.	1200	Arrive Savannah Light Tower
	1500	Dock Savannah

Instrumentation Deployed

1. USGS Mooring 142 (Tripod)
   32° 33.7' N 78° 39.5' W
   44 M

2. USGS Mooring 143 (Tripod)
   31° 6.8' N 80° 10.6' W
   47 M

Stations

XBT	80
CTD	15
Surface Grab	3

Attachments

Cruise Track
Station Location List

Oceanus 39 (Feb. 2 - 6,1978) Station List

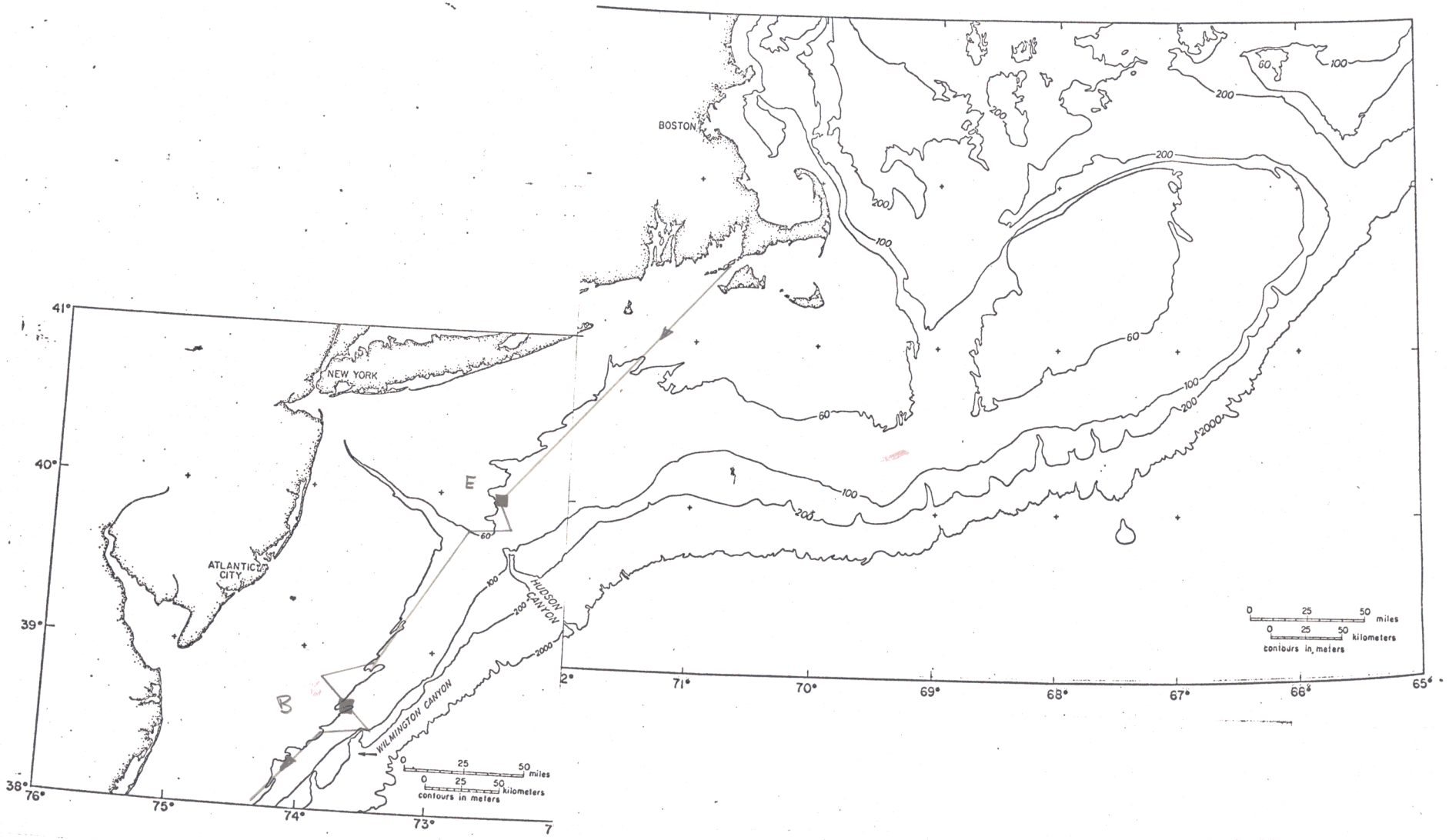
Sta.#	Date	Lat.	Long.	Depth	XBT	CTD
1	2/2	41 17.1	70 56.5	40	X	
2		41 08.8	71 04.5	33	X	
3		40 56.8	71 15.8	51	X	
4		40 45.2	71 25.9	64	X	
5		40 35.8	71 35.9	74	X	
6		40 26.2	71 51.9	68	X	
7		40 17.5	72 06.2	62	X	
8		40 06.4	72 21.5	72	X	
9		39 57.2	72 35.7	59		X
10		39 47.1	72 29.0	74	X	
11		39 41.6	72 47.8	72	X	
12		39 29.9	72 56.0	58	X	
13		39 14.7	73 06.5	70	X	
14		38 58.4	73 22.1	67	X	
15		38 49.4	73 45.8	48	X	
16		38 46.5	73 41.6	55	X	
17		38 43.2	73 37.2	64		X
18		38 38.9	73 32.5	62	X	
19		38 34.1	73 27.0	82	X	
20		38 29.5	73 45.9	62	X	
21		38 18.3	73 59.5	70	X	
22		38 04.4	74 08.6	74	X	
23		37 52.5	74 17.9	74	X	
24		37 38.8	74 29.6	65	X	
25		37 30.0	74 36.4	65		X
26		37 16.8	74 43.1	63	X	
27		37 06.5	73 47.1	64	X	
28		36 50.5	74 48.5	53	X	
29		36 30.0	74 49.0	64		X
30		36 13.5	74 52.5	81	X	
31	2/4	35 59.6	74 56.7	78	X	
32		35 40.7	74 57.4	57		X
33		35 32.7	74 53.5	50	X	
34		35 19.5	75 01.4	44	X	
35		35 08.6	75 13.0	58	X	
36		35 00.5	75 21.9	69	X	
37		34 52.2	73 30.0	55		X
38		34 41.6	75 41.9	73	X	
39		34 29.2	75 53.6	64	X	
40		34 17.7	76 06.7	61	X	
41		34 07.7	76 18.0	43	X	
42		33 57.0	76 31.2	45	X	
43		33 46.1	76 42.7	47	X	
44		33 34.8	76 54.4	77	X	
45		33 25.8	77 09.2	44	X	
46		33 13.3	77 24.0	40	X	
47		33 10.1	77 38.5	47	X	
48		32 59.4	78 00.0	67	X	
49		32 51.4	78 13.8	104	X	
50		32 47.4	78 25.4	104		

Oc 39 LI
Station List

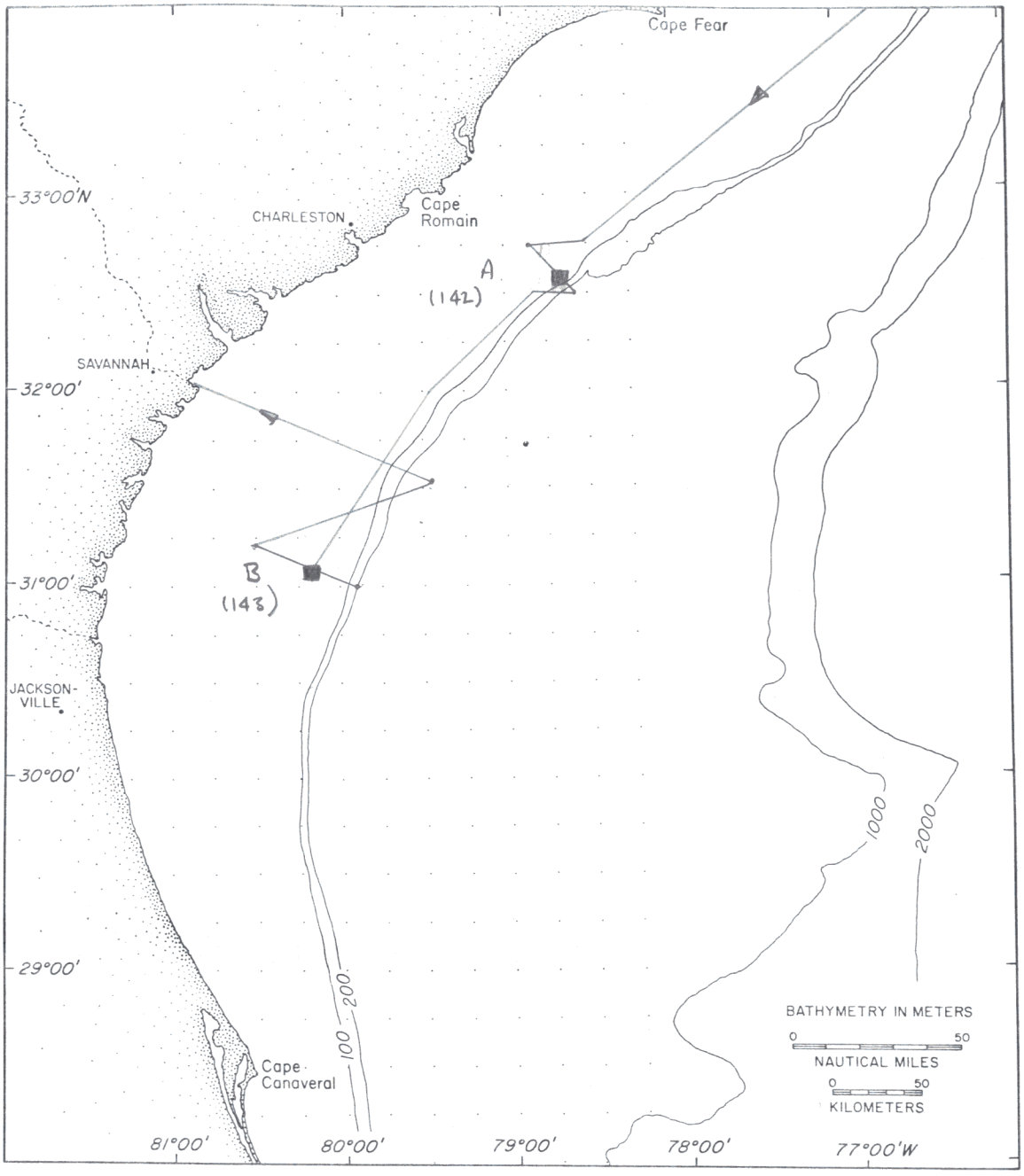
Sta.#	Date	Lat.	Long.	Depth	XBT	CTD
51	2/5	32 43.7	78 51.1	32		X
52		32 40.5	78 48.0	39	X	
53		32 37.0	78 42.6	41	X	
54		32 34.5	78 41.0	45	XX	X
55		32 32.5	78 39.0	57	X	
56		32 31.2	78 36.9	150	X	
57		32 30.8	78 35.8	225	X	X
58		32 29.9	78 47.6	56	X	
59		32 26.1	78 57.5	50	X	
60		32 16.4	79 10.2	50	X	
61		32 06.8	79 23.2	40	X	
62		31 59.0	79 32.6	43	X	
63		31 44.6	79 45.5	49	X	
64		31 31.0	79 54.4	47	X	
65		31 18.0	80 01.4	48	X	
66		31 00.5	79 53.9	145		X
67		31 02.9	79 55.9	65	X	
68		31 01.5	79 58.1	52		X
69		31 03.6	80 02.6	48	X	
70		31 05.5	80 08.0	47		X
71		31 06.7	80 10.5	46		X
72		31 08.5	80 15.5	38	X	
73	2/6	31 10.4	80 21.1	36	X	
74		31 13.0	80 27.8	29		X
75		31 17.4	80 12.4	43	X	
76		31 22.2	79 58.3	44	X	
77		31 26.4	79 44.4	75	X	
78		31 27.9	79 40.8	119	X	
79		31 29.8	79 37.0	160	X	
80		31 31.2	79 33.0	225	X	
81		31 31.0	79 28.5	260	X	
82		31 31.2	79 22.9		X	X
83		31 35.4	79 28.1		X	
84		31 36.4	79 30.5		X	
85		31 38.0	79 33.4		X	
86		31 38.9	79 36.0		X	
87		31 39.9	79 40.9	57	X	
88		31 41.7	79 49.5	40	X	
89		31 44.7	80 01.8	39	X	
90		31 48.4	80 14.0	48	X	
91		31 48.5	80 24.8	30	X	
92		31 54.9	80 35.8	20	X	

Bottom Grab Stations

4706	2/4	32 34.4	78 40.0		
4707	2/5	31 6.6	80 10.5		
4708	2/6	31 13.0	80 27.8		



Cruise Track, OCEANUS 39, Leg I 2 - 6 February, 1978



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