7903/

CRUISE REPORT

R/V NEECHO NE-06

27 Sept. - 3 Oct. 1979

David Twichell
U.S.G.S.
Woods Hole, MA 02543

Vessel: R/V NEECHO

Cruise Number: NE-06

Project: Nauset Inlet Survey - Small Boat Project

Area of Operations: Nearshore zone off eastern Cape Cod from Chatham Inlet to Coast Guard Beach with the most extensive coverage being off Coast Guard Beach and Nauset Inlet.

Dates: 27 and 28 Sept. and 2 and 3 Oct., 1979.
Returned each night to Chatham, Mass.

Scientific Party:

David Twichell,	U.S.G.S.,	Chief Scientist
David Aubrey,	WHOI,	Chief Scientist
John Trobridge,	WHOI,	Scientist
Paul Speer,	WHOI,	Scientist
Frank Jennings,	U.S.G.S.,	Technician
Paul Loud,	U.S.G.S.,	Skipper

Purpose of Cruise:

Side-scan sonar and high-resolution seismic profiling were done in the nearshore zone (3-30m water depth) off of Nauset Inlet and Coast Guard Beach to map the types and extent of nearshore bedforms and to define the late Pleistocene and Holocene history of the area.

Navigation Techniques:

Northstar Loran C
Motarolla Miniranger with the two shore stations set at Fort Hill and Nauset Heights

Scientific Equipment:

EG&G Uniboom

EDO Western Side-scan sonar

Raytheon Echo-sounder

Underway grab sampler

Tabulated Information:

Days at Sea: 4

Amounts of Data Acquired:

Seismic
Uniboom - 153 km
Side-scan sonar- 153 km
Echo-sounder - 153 km

Grab samples - 27

Cruise Narrative

27 Sept., 1979

0830 EDT - Depart Chatham for Nauset Inlet area

1108 EDT - Deploy seismic gear-Uniboom and side-scan

1125 EDT - Commence surveying-Start line 1

1600 EDT - End line 8 - Haul seismic gear

1730 EDT - Dock at Chatham

28 Sept., 1979

0800 EDT - Depart Chatham for Nauset Inlet area

0930 EDT - Deploy seismic gear

0950 EDT - Commence surveying-Start line 9

1505 EDT - End line 18 - Haul seismic gear

1 Oct., 1979

1210 EDT - Depart Chatham

1400 EDT - Return Chatham- weather to rough and foggy for working

2 Oct., 1979

0845 EDT - Depart Chatham for Nauset Inlet area

1025 EDT - Stream seismic gear-Start line 19

1528 EDT - End line 31- Haul gear

1620 EDT - Arrive Chatham

3 Oct., 1979

0820 EDT - Depart Chatham to survey from Chatham Inlet to Nauset Inlet

0934 EDT - Stream gear off Chatham Inlet- Start line 32

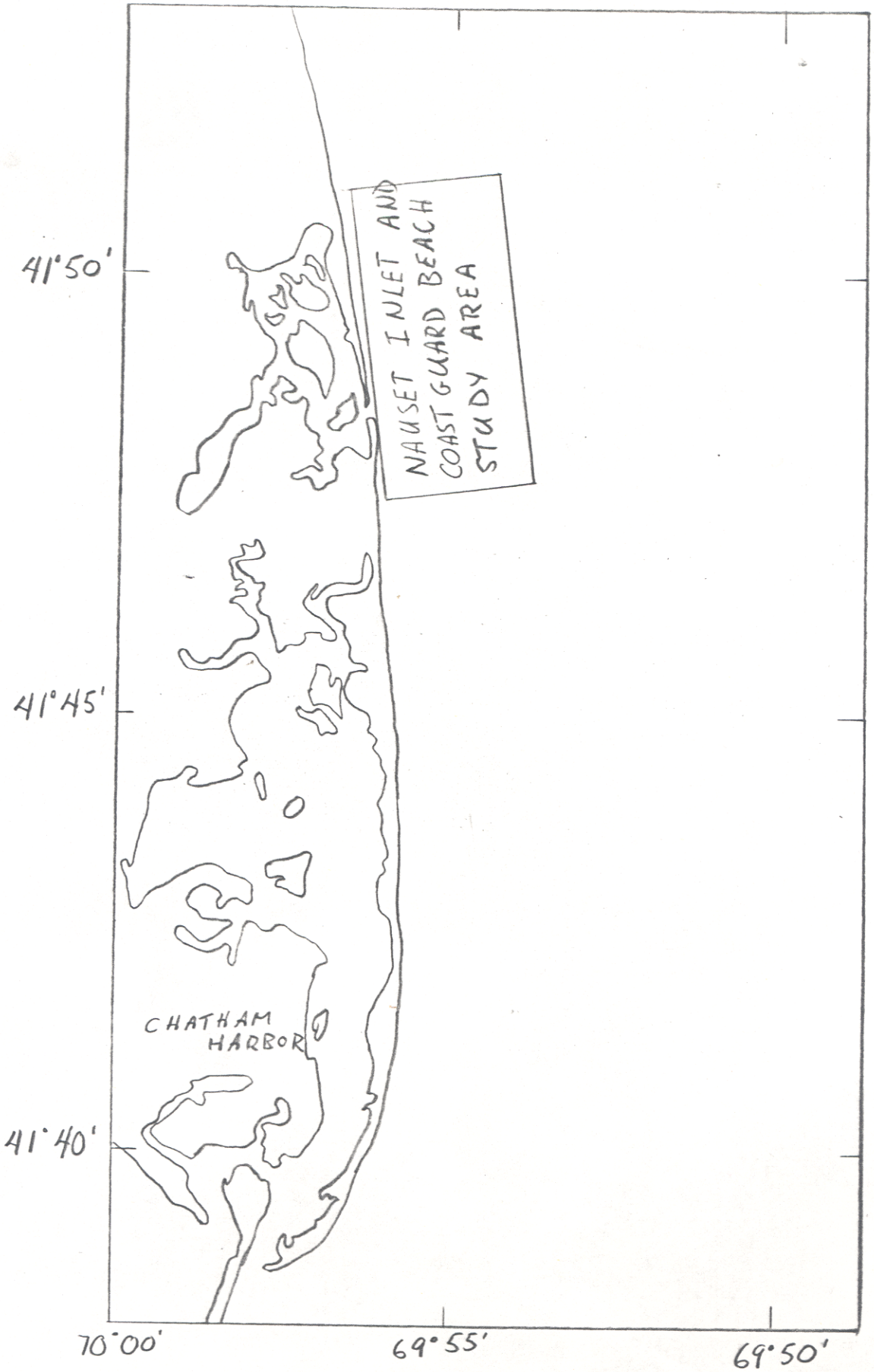
1113 EDT - Haul gear - weather getting too rough - end line 32

1230 EDT - Arrive Chatham

NE06-79 GRAB SAMPLES COLLECTED
DURING NAUSET INLET SURVEY

SAMPLE #	DATE	TIME	LAT.	LONG.	DEPTH (M)
GS-1	27 Sept.	1212	41^0 50.33	69^0 53,61	34
GS-2		1250	49.71	54.66	24
GS-3		1421	49.50	56.15	7
GS-4		1427	48.98	56.02	5
GS-5		1433	48.46	56.01	8
GS-6		1505	49.85	56.11	8
GS-7		1518	50.36	56.03	11
GS-8		1521	50.15	55.69	11
GS-9		1531	49.21	55.59	12
GS-10	28 Sept.	1046	50.34	55.54	14
GS-11		1105	48.97	55.09	16
GS-12		1108	48.74	55.14	17
GS-13		1115	48.29	55.09	16
GS-14		1206	51.21	56.16	14
GS-15		1335	50.81	55.58	18
GS-16		1344	50.85	54.74	28
GS-17		1414	49.46	54.79	22
GS-18	2 Oct.	1332	48.11	55.81	5
GS-19		1339	48.74	55.98	5
GS-20		1350	48.67	55.31	16
GS-21		1412	48.73	55.34	16
GS-22		1417	49.09	55.45	14
GS-23		1423	49.53	55.63	14
GS-24		1433	49.81	55.74	12
GS-25		1440	49.23	55.34	17

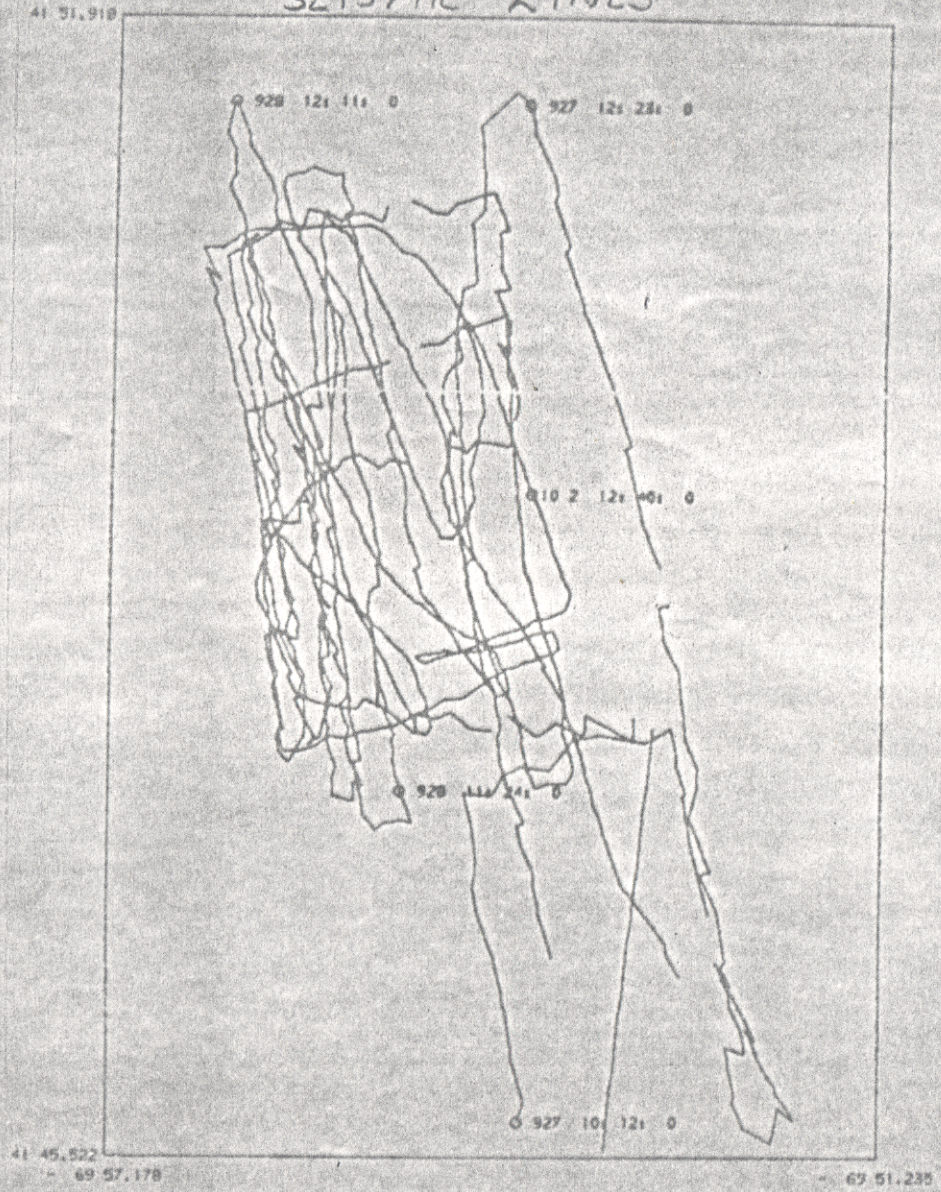
SAMPLE #	DATE	TIME	LAT.	LONG.	DEPTH (M)
GS-26	2 Oct.	1449	48.62	54.71	20
GS-27		1528	50.33	55.56	20


NAUSET INLET AND
COAST GUARD BEACH
STUDY AREA
CHATHAM
HARBOR
41°50'
41°45'
41°40'
70°00'
69°55'
69°50'

NAUSET INLET AND COAST GUARD BEACH STUDY AREA

SEISMIC LINES

- ☐ GRID
- ☐ TRACK
- ☐ INTERP
- ☐ DELETE
- ☐ LATLON
- ☐ TIME
- ☐ EXCHNG
- ☐ WINDOW
- ☐ FIRSTW
- ☐ NEWFW
- ☐ SENSOR
- ☐ MERGE
- ☐ HELP
- ☐ LIST
- ☐ EXIT

SENSOR # 2500

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