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BRANCH OF ATLANTIC MARINE GEOLOGY
U.S. GEOLOGICAL SURVEY
Woods Hole, MA 02543

CRUISE REPORT

10-16-92

Ship name: NOAA Ship Delaware II

Cruise No.: 92-10, Leg 2

Project: EEZ shelf mapping - Eastern Georges Bank

Funding agency: USGS, NMFS

Area of operations: Northern Edge of Georges Bank

Cruise dates: Sept. 28 - Oct. 6 1992

Chief Scientist: Page Valentine, USGS

Scientific Party:
Eric Schmuck, USGS
Nancy Soderberg, USGS
Barbara Seekins, USGS
Jim Vaughn, USGS
Elizabeth Gier,USGS

Ship's captain: Gunnar Gudmundsson

Cruise purpose: Collaborative research with USGS and NMFS; echo sounding, side scan sonar surveys, video, and bottom sampling of selected areas on the northern edge of Georges Bank to map sedimentary environments and biological habitats.

Navigation: GPS, Loran-C; recorded on 3.5 diskettes.

Scientific equipment: Klein 100 kHz sidescan sonar; digital collection of sonar data with Q-MIPS system; Simrad EC-810 echo sounder, 38 kHz; Osprey color video system; Van Veen grab.

Days at sea: 9 (7days in study area).

Continuous data collected: 856 line km of side scan sonar data in 3 areas comprising 139 sq km of continuous coverage (see attached trackline map).

Stations occupied: color video camera (mounted on Van Veen grab) deployed at 31 sites, and 8 sediment samples taken, in the 3 sidescan areas; locations listed below.

Sidescan area 5:

Sta. 1:	41° 52.88′ N,	67° 27.09′ W	
Sta. 2:	41 53.20	67 27.75	
Sta. 3:	41 53.60	67 28.16	
Sta. 4:	41 54.23	67 28.67	
Sta. 5:	41 55.04	67 29.22	(sediment sample at 41 54.96, 67 29.31)
Sta. 6:	41 56.10	67 30.30	
Sta. 7:	41 56.80	67 30.70	
Sta. 8:	41 58.27	67 32.53	
Sta. 9:	41 59.37	67 32.80	
Sta. 10:	42 00.27	67 33.98	
Sta. 11:	42 00.97	67 34.63	(sediment sample at 42 01.02, 67 34.77)
Sta. 12:	42 00.65	67 35.01	(sediment sample at 42 00.76, 67 35.34)
Sta. 13:	42 01.82	67 35.30	(sediment sample at 42 01.91, 67 35.46)

Sidescan area 4:

Sta. 14:	42 06.44	67 20.46	(sediment sample at 42 06.35, 67 20.48)
Sta. 15:	42 06.33	67 19.29	
Sta. 16:	42 05.86	67 20.21	
Sta. 17:	42 05.71	67 19.47	
Sta. 18:	42 05.72	67 18.96	
Sta. 19:	42 04.95	67 19.72	
Sta. 20:	42 03.92	67 19.76	
Sta. 21:	42 03.29	67 20.14	
Sta. 22:	42 02.57	67 19.93	
Sta 22A:	42 02.55	67 20.19	
Sta. 23:	42 02.00	67 19.42	
Sta. 24:	42 01.14	67 19.77	(sediment sample at 41 59.85, 67 19.77)
Sta. 25:	41 59.06	67 20.15	(sediment sample at 41 58.85, 67 20.24)
Sta. 26:	41 57.95	67 20.68	
Sta. 27:	41 56.82	67 20.68	
Sta. 28:	41 55.79	67 20.46	(sediment sample at 41 55.68, 67 20.53)

Sidescan area 3:

Sta. 29:	42 04.35	67 18.51
Sta. 30:	42 05.26	67 17.21

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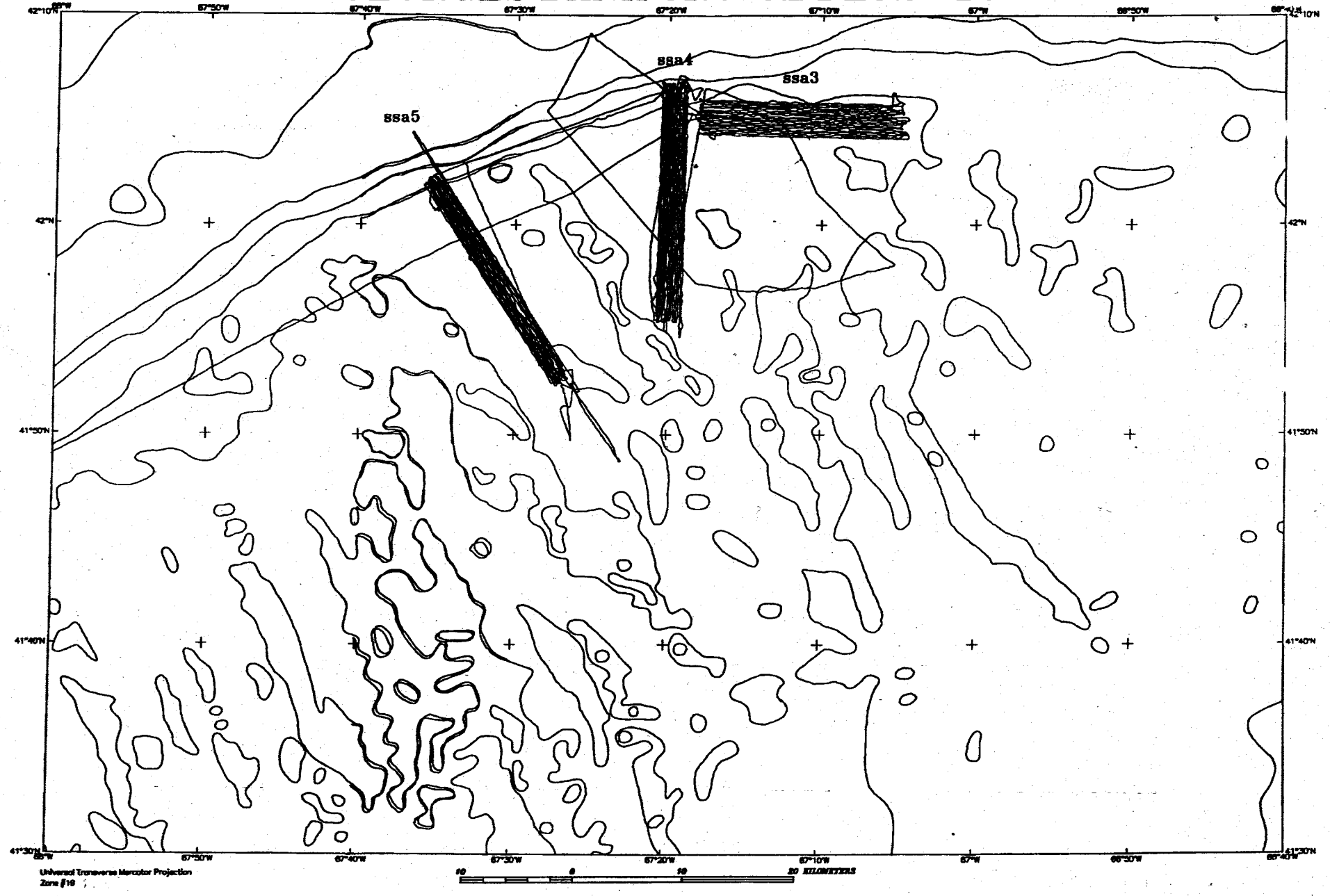
GEORGES BANK CRUISE DE92-10