#9503 6

To: nsoderberg
Subject: cruise report for Anderson cruise ANDR9503
Date: Tue, 17 Oct 95 16:37:28 -0400
From: pv
X-Mts: smtp

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

CRUISE REPORT: Permit No. SBNMS-06-95

October 17, 1995

Ship name: OSV P.W. Anderson

Cruise no: 9503

Project: Stellwagen Bank NMS Mapping Project 9470-31442

Funding agency:
USGS, EPA

Areas of operations:
Stellwagen Bank

Cruise dates: September 15-20, 1995
Boston, MA to Woods Hole, MA

Chief scientist:
Page Valentine

Scientific party:
Page Valentine, USGS
Dann Blackwood, USGS
Nancy Soderberg, USGS
Brent Taylor, USGS
Barbara Seekins, USGS
Ed Roworth, USGS
Joe Newell, USGS

Cruise purposes:
Acquire sediment samples and video and photographic images of the seabed that will be used to interpret sidescan sonar imagery and compile maps of Stellwagen Bank.

Navigation: GPS, and differential GPS

Scientific equipment:
Video and still photographic cameras
Van Veen sediment sampler

Days at sea: 6

Stations occupied: (see attached sheets)
Total stations: 163
Bottom video/still camera footage: 40
Sediment samples collected: 131

Sample processing and archival:

Sediment grab samples, photographs, and video tapes will be processed and archived by the USGS, Woods Hole, MA.

CRUISE LOG:

Thursday, September 14, 1995

Mobilized vessel in afternoon and evening at USCG base, Boston, MA.

Friday, September 15, 1995

Departed Boston 0600 hours and proceeded to Massachusetts Bay Disposal Site to conduct video and still camera and sampling of disposal site deposits. Completed 6 stations which confirmed presence of rock debris from Boston Third Harbor Tunnel construction within the Sanctuary boundaries. Short circuit in potted connector of video system at 1100 hours. Connector repaired during remainder of the day.

Saturday, September 16, 1995

Resumed video/still and sampling work in Mass Bay Disposal Site; completed at 1900 hours and moved to southern part of Stellwagen Bank. Began sampling at 2200 hours and continued to end of day.

Sunday, September 17, 1995

During sampling operations early in the morning, the sampler and its two cameras were lost when the main cable termination

failed upon recovery. Vessel proceeded to Provincetown to clear propellers of of lobster trap lines. Departed Provincetown at 1000 hours and started grappling for lost sampler at 1200 hours. After several attempts the weather became too rough to continue, and the ship went to Provinctown for the night.

Monday, September 18, 1995

Departed Provincetown at 0900 hours and attempted to recover lost sampler with grappling hooks during daylight hours. Conducted short sidescan survey that confirmed position of the sampler. Resumed sampling with Anderson's van Veen grab at 2000 hours and continued through the day.

Tuesday, September 19, 1995

Continued sampling on southern, middle, and northeastern part of the bank all day.

Wednesday, September 20, 1995

Continued sampling until 0230 hours and proceeded to Woods Hole. Arrived in Woods Hole at 0830 hours and demobilized the ship.

Submitted by Page Valentine, October 17, 1995

Friday, May 5, 1995

•STELLWAGEN BANK NMS AND MASSACHUSETTS BAY DISPOSAL SITE REGION
PETER ANDERSON CRUISE 9503, SEPT. 15-20, 1995

STA	LON W	LAT N	JD	TIME (UTC)	DEPTH, m	VIDEO/SAMPLE
1096	-70 33.9104	42 26.4282	258	12:41:00	54-51	X/O
1097	-70 33.6496	42 26.4070	258	13:02:30	53-54	X/O
1098	-70 34.0046	42 26.4952	258	13:25:40	56-52	X/O
1099	-70 33.7747	42 26.3968	258	13:44:20	53-54	X/X
1100	-70 33.7788	42 26.3971	258	14:11:00	52-54	X/X
1101	-70 34.5767	42 26.2722	258	14:37:50	87	X/O
1102	-70 33.9204	42 26.4759	259	12:57:50	50	X/O
1103	-70 33.5485	42 26.9301	259	13:19:40	50	X/O
1104	-70 33.1464	42 27.2088	259	13:48:50	49-50	X/O
1105	-70 33.4268	42 26.7432	259	14:07:20	50-49	X/O

1106	-70 33.0709	42 26.6385	259:14:24:20	49	X/O
1107	-70 33.7643	42 26.5919	259:14:42:00	49	X/O
1108	-70 33.3090	42 26.6599	259:14:56:50	49	X/O
1109	-70 33.0631	42 26.4942	259:15:16:50	49	X/O
1110	-70 33.5738	42 26.1380	259:15:33:40	50-57	X/O
1111	-70 33.4110	42 26.2854	259:16:30:20	50	X/O
1112	-70 33.6310	42 26.3063	259:16:48:50	50-51	X/O
1113	-70 33.9672	42 26.7958	259:17:05:40	49-50	X/X
1114	-70 33.4008	42 25.8714	259:17:36:50	89-72	X/O
1115	-70 34.7634	42 26.8337	259:18:01:50	87	X/O
1116	-70 34.3610	42 26.4828	259:18:27:10	86-83	X/O
1117	-70 34.4412	42 26.3943	259:18:45:20	79-86	X/O
1118	-70 34.1812	42 26.4527	259:18:59:30	80-56	X/O
1119	-70 33.1708	42 24.7355	259:19:28:00	93	X/O
1120	-70 34.5512	42 25.1247	259:19:46:10	84-90	X/O
1121	-70 33.2217	42 25.8345	259:20:10:00	88-62	X/O
1122	-70 33.2367	42 26.3831	259:20:47:20	51	X/O
1123	-70 33.6207	42 26.3146	259:21:08:00	53-50	X/O
1124	-70 33.0747	42 25.8174	259:22:07:50	86-56	X/O
1125	-70 33.6547	42 26.2366	259:22:26:10	58-53	X/O
1126	-70 32.9986	42 26.2875	259:22:43:40	51	X/O
1127	-70 32.9284	42 26.6501	259:23:05:50	51-50	X/O
1128	-70 10.4691	42 13.1157	260:02:23:00	41-42	X/O
1128A	-70 10.4200	42 13.1302	260:02:36:10	42	X/X
1129	-70 9.8851	42 13.1329	260:02:50:20	44	X/X
1130	-70 9.3626	42 13.1183	260:03:04:30	45-46	X/X
1131	-70 8.8142	42 13.1339	260:03:18:10	47	X/X
1132	-70 8.2917	42 13.1213	260:03:33:00	48-49	X/X
1133	-70 7.6412	42 13.1124	260:03:50:20	57-59	X/X
1134	-70 7.8833	42 13.6191	260:04:15:10	58-57	X/O

NOTE:
Lat/Lon coordinates represent sample site and end of video transect.
Depth (meters) values represent start of transect and end of transect (sample depth).
X = video observations made; sample collected, or notes taken on poor sample.
O = no video observations; no sample data.

1134A	-70 7.8984	42 13.5915	262:00:43:40	59	O/X

1135	-70	8.4852	42	13.6072	262:00:59:30	54	O/X
1136	-70	8.9704	42	13.5991	262:01:09:40	52	O/X
1136A	-70	9.0073	42	13.5968	262:01:14:40	51	O/X
1137	-70	9.5494	42	13.6021	262:01:25:00	48	O/X
1138	-70	10.0845	42	13.6022	262:01:33:20	46	O/X
1139	-70	10.6831	42	13.6013	262:01:41:50	43	O/X
1139A	-70	10.7064	42	13.5985	262:01:46:00	43	O/X
1140	-70	13.2686	42	14.0033	262:02:02:40	33	O/X
1141	-70	12.6411	42	13.9868	262:02:11:30	36	O/X
1142	-70	12.1582	42	14.0044	262:02:19:40	38	O/X
1142A	-70	12.1587	42	14.0016	262:02:25:50	38	O/X
1143	-70	11.6388	42	14.0077	262:02:33:40	40	O/X
1144	-70	11.0763	42	14.0005	262:02:41:50	42	O/X
1144A	-70	11.0289	42	13.9981	262:02:45:20	42	O/X
1145	-70	10.5861	42	13.9987	262:02:53:50	43	O/X
1146	-70	9.9956	42	13.9964	262:03:01:50	46	O/X
1147	-70	9.4937	42	13.9942	262:03:10:40	49	O/X
1148	-70	8.9858	42	13.9916	262:03:19:20	51	O/X
1149	-70	8.3488	42	14.0020	262:03:37:30	59	O/X
1150	-70.	7.8442	42	13.9943	262:03:49:00	63	O/X
1200	-70	7.2505	42	13.9851	262:04:02:40	79	O/X
1151	-70	8.1618	42	14.5924	262:04:24:10	60	O/X
1152	-70	8.6365	42	14.5839	262:04:38:10	55	O/X
1153	-70	9.2784	42	14.5818	262:04:50:50	52	O/X
1154	-70	9.7911	42	14.5792	262:05:02:50	48	O/X
1155	-70	10.4134	42	14.5817	262:05:13:30	44	O/X
1155A	-70	10.4091	42	14.5756	262:05:24:40	44	O/X
1156	-70	10.9103	42	14.5541	262:05:34:40	42	O/X
1157	-70	11.4089	42	14.5859	262:05:44:40	40	O/X
1158	-70	8.3110	42	15.1613	262:06:18:30	62	O/X
1159	-70	8.8497	42	15.1745	262:06:29:30	58	O/X
1160	-70	9.4607	42	15.1990	262:06:42:00	52	O/X
1161	-70	9.9541	42	15.1817	262:06:51:40	49	O/X
1162	-70	10.4974	42	15.1757	262:07:01:00	46	O/X
1162A	-70	10.3784	42	15.1833	262:07:13:10	48	O/X
1163	-70	10.9644	42	15.1683	262:07:27:20	43	O/X
1164	-70	11.5547	42	15.1324	262:07:42:40	41	O/X
1165	-70	12.0613	42	15.1756	262:07:52:10	39	O/X
1166	-70	12.5488	42	15.1701	262:08:01:10	37	O/X

1167	-70 13.2121	42 15.1470	262:08:11:30	34	O/X
1167A	-70 13.1088	42 15.1870	262:08:21:50	35	O/X
1168	-70 13.6776	42 15.1763	262:08:31:00	34	O/X
1169A	-70 14.1105	42 15.1756	262:08:50:20	32	O/X
1170	-70 14.7801	42 15.1926	262:09:01:30	31	O/X
1171A	-70 15.2308	42 15.1534	262:09:19:50	31	O/X
1172	-70 15.9130	42 15.1759	262:09:31:10	30	O/X
1173A	-70 16.2812	42 15.2097	262:09:48:40	30	O/X
1174	-70 16.9515	42 15.1913	262:10:00:20	29	O/X
1174A	-70 16.9337	42 15.1703	262:10:06:40	29	O/X
1175	-70 17.4687	42 15.1855	262:10:15:40	31	O/X
1176	-70 18.1024	42 15.1495	262:10:24:30	37	O/X
1177	-70 20.0975	42 15.7224	262:10:40:20	62	O/X
1178	-70 19.4941	42 15.6549	262:10:53:20	52	O/X
1178A	-70 19.6109	42 15.7005	262:11:02:00	54	O/X
1179	-70 18.9424	42 15.7194	262:11:47:20	47	O/X
1180	-70 18.4051	42 15.6882	262:11:58:30	39	O/X
1181	-70 17.8529	42 15.7185	262:12:06:20	33	O/X
1182	-70 17.2751	42 15.6776	262:12:15:00	30	O/X
1183	-70 16.6861	42 15.6770	262:12:27:00	30	O/X
1184	-70 16.1586	42 15.7417	262:12:36:20	31	O/X
1185	-70 15.6298	42 15.7332	262:12:44:00	33	O/X
1186	-70 15.1072	42 15.7051	262:12:51:30	33	O/X
1187	-70 14.5695	42 15.7035	262:13:01:00	33	O/X
1188	-70 13.9045	42 15.7071	262:13:11:00	35	O/X
1189	-70 13.5323	42 15.6762	262:13:20:00	36	O/X
1190	-70 12.9824	42 15.7082	262:13:27:30	38	O/X
1191	-70 12.3633	42 15.7176	262:13:37:00	40	O/X
1192	-70 11.8593	42 15.7132	262:13:45:40	42	O/X
1192A	-70 11.8155	42 15.7127	262:13:52:40	42	O/X
1193	-70 15.2630	42 14.6759	262:14:18:10	30	O/X
1194	-70 15.2995	42 13.6891	262:14:31:10	27	O/X
1195	-70 18.7850	42 13.5040	262:14:54:10	39	O/X
1206	-70 18.9483	42 14.0337	262:15:04:30	43	O/X
1196	-70 18.8575	42 14.4596	262:15:16:10	42	O/X
1197	-70 18.6148	42 15.2142	262:15:33:50	41	O/X
1198	-70 19.0671	42 15.6197	262:16:08:00	47	O/X
1199	-70 18.9465	42 16.2744	262:16:22:40	46	O/X

1201	-70 18.9356 42 16.7184 262:16:54:00	45	O/X
1202	-70 19.0116 42 17.3929 262:17:15:00	44	O/X
1203	-70 19.1558 42 18.1069 262:17:28:20	44	O/X
1204	-70 19.3174 42 18.6926 262:17:40:50	47	O/X
1205	-70 19.4241 42 19.4693 262:18:03:10	46	O/X
1221	-70 20.2924 42 18.6414 262:18:30:30	58	O/X
1218	-70 14.9968 42 21.6650 262:19:10:10	47	O/X
1219	-70 14.3109 42 22.4663 262:19:26:00	56	O/X
1207	-70 13.3522 42 23.7996 262:19:56:00	65	O/X
1208	-70 12.5496 42 24.2898 262:20:10:00	67	O/X
1209	-70 12.0402 42 24.9186 262:20:35:50	69	O/X
1210	-70 11.8487 42 25.3139 262:21:02:50	71	O/X
1211	-70 11.5596 42 25.6453 262:21:46:40	70	O/X
1212	-70 10.9802 42 26.4096 262:22:01:10	76	O/X
1213	-70 10.4890 42 27.1105 262:22:14:40	79	O/X
1214	-70 10.3324 42 27.6268 262:22:27:30	79	O/X
1215	-70 10.3263 42 28.2022 262:22:41:30	83	O/X
1216	-70 9.5040 42 28.6967 262:22:59:00	99	O/X
1217	-70 9.4378 42 29.3717 262:23:16:30	110	O/X
1231	-70 10.6165 42 28.6481 262:23:36:10	81	O/X
1232	-70 11.1190 42 27.7588 262:23:52:10	79	O/X
1233	-70 11.7295 42 27.0017 263:00:08:40	78	O/X
1234	-70 11.7778 42 26.3590 263:00:22:40	81	O/X
1235	-70 12.7682 42 25.9154 263:00:37:50	78	O/X
1236	-70 12.7288 42 25.4802 263:00:52:10	75	O/X
1237	-70 10.5185 42 25.7049 263:01:12:00	81	O/X
1238	-70 11.7893 42 24.2415 263:01:32:40	78	O/X
1239	-70 12.3014 42 23.8492 263:01:45:20	72	O/X
1222	-70 20.1043 42 17.9153 263:02:34:50	64	O/X
1223	-70 19.7058 42 17.4173 263:02:48:30	60	O/X
1224	-70 19.1906 42 16.9253 263:02:59:50	51	O/X
1225	-70 19.5487 42 16.5646 263:03:11:10	57	O/X
1226	-70 19.6024 42 16.1230 263:03:23:20	55	O/X
1227	-70 19.6892 42 15.4983 263:03:34:40	54	O/X
1228	-70 19.8078 42 14.8648 263:03:48:40	55	O/X
1230	-70 19.4616 42 14.7207 263:04:02:00	48	O/X
1229	-70 19.8987 42 14.1890 263:04:16:40	53	O/X

1240	-70 15.8176	42 9.7228	263:05:06:10	44	O/X
1241	-70 15.7087	42 9.4096	263:05:15:30	45	O/X
1242	-70 15.4984	42 9.0705	263:05:25:40	51	O/X
1243	-70 15.5357	42 8.7825	263:05:35:30	56	O/X
1244	-70 19.4280	42 8.4199	263:06:05:20	53	O/X
1245	-70 19.6336	42 7.9769	263:06:18:00	54	O/X
1246	-70 19.6160	42 7.7957	263:06:26:10	57	O/X
1247	-70 19.7001	42 7.5198	263:06:41:00	60	O/X