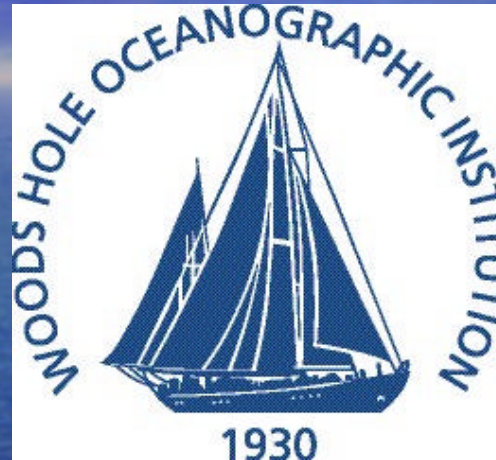


SW06 OPERATIONS AND LOGISTICS





Study of Internal Waves

Experiment PI's

Jim Lynch – WHOI

DJ Tang – APL / UW

Shallow Water 06 Project Overview

Research Vessels Knorr, Oceanus,
Endeavor, Tioga and the Canadian
Research Ship *Quest*.

-177 Total Ship days

-118 Scientific Participants

-62 Moorings Deployed

-200,000 lbs Mooring Equipment

SW06 CRUISE SCHEDULES AND LOGISTIC INFORMATION - Revision 19



Other Critical Notes:

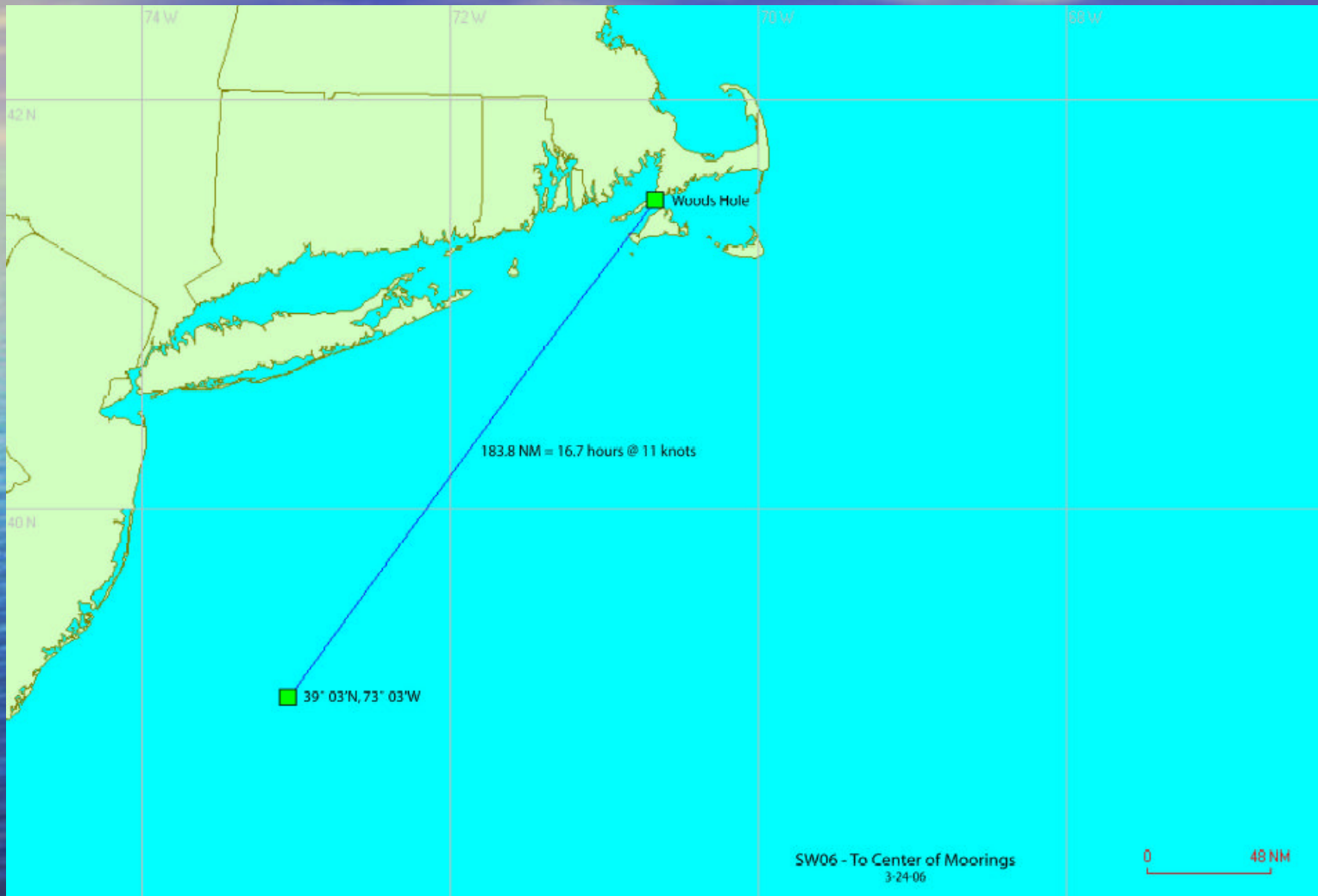
Sailing times for all ships are best estimates

MSM Dock test 7-19

See Lab Space for detailed arrival information

TIOGA
15 Operation Days
Arrive WHOI - 1000

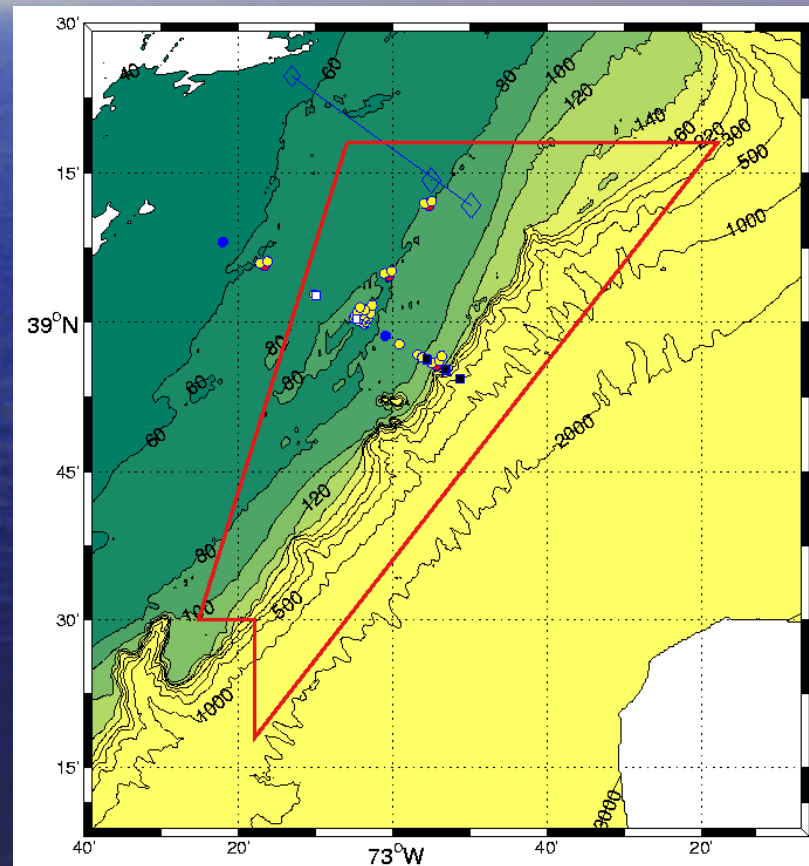
SCIENTIFIC STUDY AREA



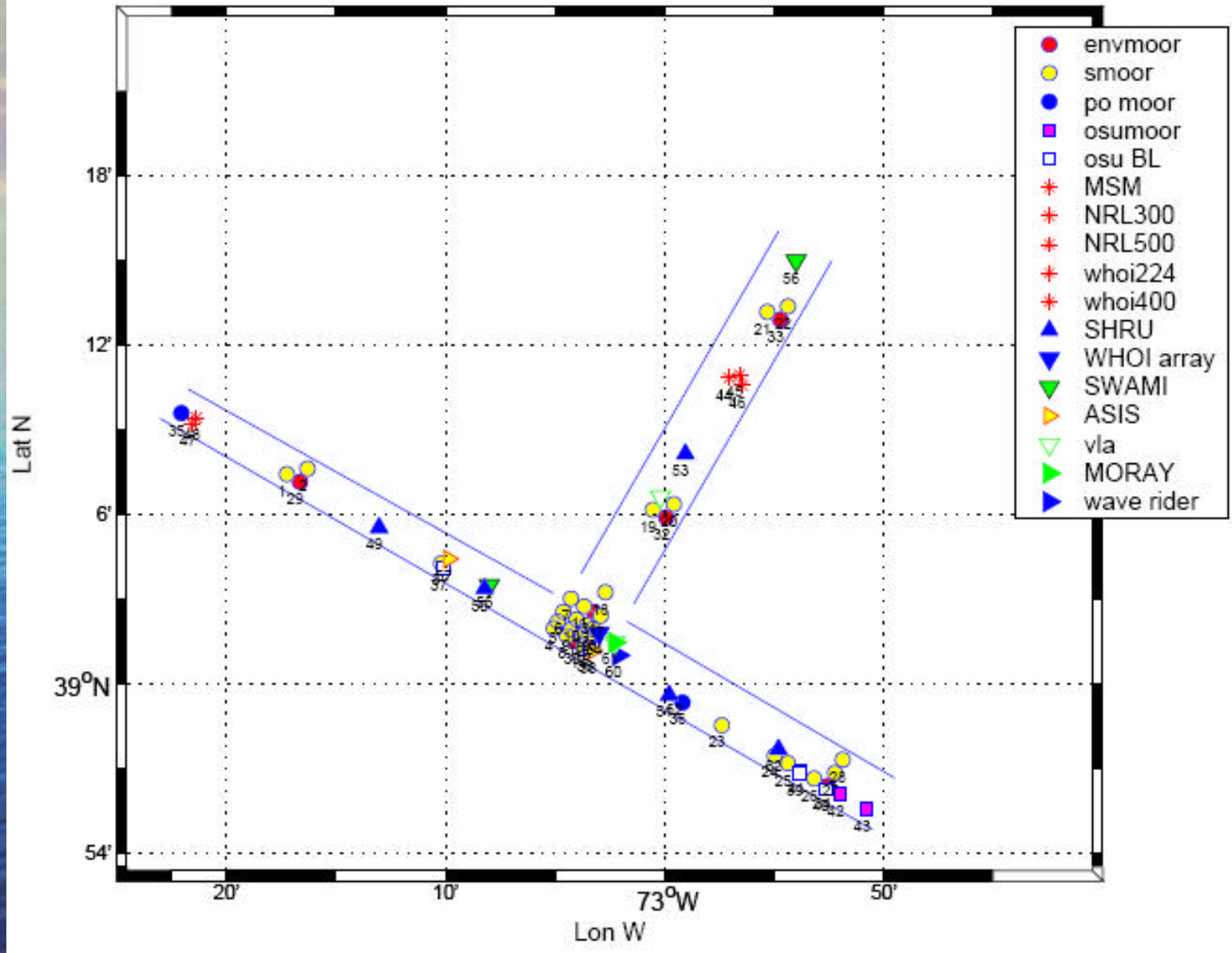
Transit time to Mooring site

FISHING ACTIVITY

- Scalping: 100 - 200 meters
- Trawling for Squid
- Lobster gear out to 400 meters
- Gillnet (monkfish)
- Tuna
- Swordfish
- 75% of all fishing activity will be scalping
- **How best to notify the fishing fleet**
 - Notice to Mariners , USCG
 - Boatracs



SW06



BOATRACS



Maritime Satellite Communication

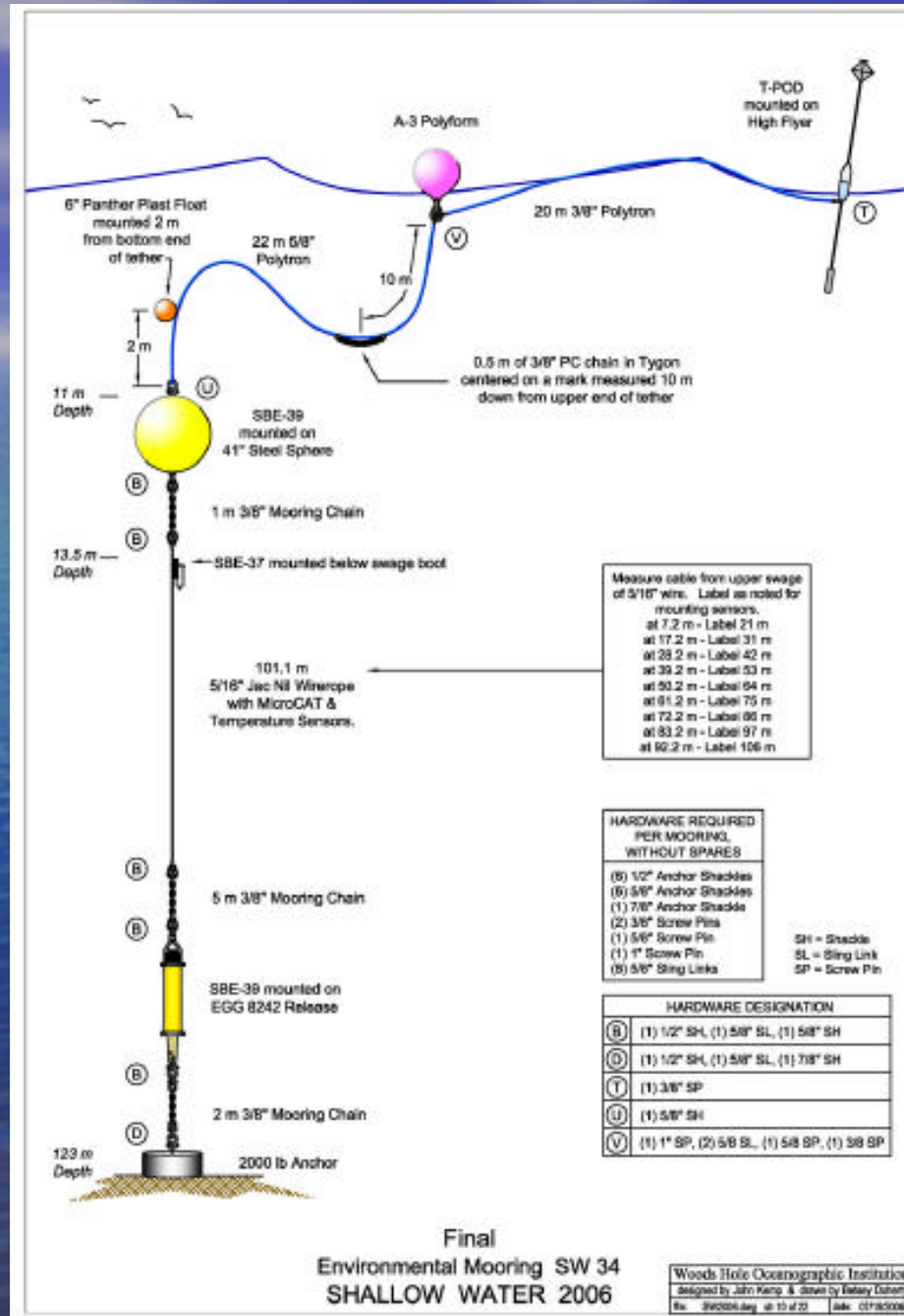
Wireless Solutions for Managing Maritime Logistics

- **Boatracs** (shore to fishing vessels)
 - Required to be all fishing vessels that scallop or swordfish
 - Informs NJ fishing fleet of scientific activities
 - Daily reminders of mooring locations/ship's position
 - Cost will be around \$100.00 per month

SHIP TO SHIP SHIP TO SHORE

Communication and Data Exchange

<http://sealion.whoi.edu/sw06-bin/logistics>



Measure cable from upper swage of 5/16\"/>

- at 7.2 m - Label 21 m
- at 17.2 m - Label 31 m
- at 28.2 m - Label 42 m
- at 39.2 m - Label 53 m
- at 50.2 m - Label 64 m
- at 61.2 m - Label 75 m
- at 72.2 m - Label 86 m
- at 83.2 m - Label 97 m
- at 92.2 m - Label 106 m

HARDWARE REQUIRED PER MOORING, WITHOUT SPARES

- (6) 1/2\"/>
- (6) 5/8\"/>
- (1) 7/8\"/>
- (2) 3/8\"/>
- (1) 5/8\"/>
- (1) 1\"/>
- (6) 5/8\"/>

SH = Shackles
 SL = Sling Link
 SP = Screw Pin

HARDWARE DESIGNATION	
(B)	(1) 1/2\"/>
(D)	(1) 1/2\"/>
(T)	(1) 3/8\"/>
(U)	(1) 5/8\"/>
(V)	(1) 1\"/>

Final
 Environmental Mooring SW 34
 SHALLOW WATER 2006

Woods Hole Oceanographic Institution
 designed by John Kemp & drawn by Melissa Dahary
 file: SW2006.dwg at 11/11/05 date: 01/18/2006

SW Master Mooring Sheet 1

Mooring Name	P.I.	Surface Marker	Position Latitude (N)	Position Longitude (W)	Water Depth	
<u>Subsurface Moorings</u>						
SW01 Structure Mooring	J. Lynch	Polyform Highlighter	26 07.4026	73 17.2416	66	
SW02 Structure Mooring	J. Lynch	Polyform Highlighter	26 07.5365	73 18.392	66	
SW03 Structure Mooring	J. Lynch	Polyform Highlighter	26 04.278	73 18.200	72	
SW04 Structure Mooring	J. Lynch	Polyform Highlighter	26 01.877	73 07.666	83	
SW05 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.313	73 04.876	82	
SW06 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.872	73 04.812	82	
SW07 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.834	73 04.312	82	
SW08 Structure Mooring	J. Lynch	Polyform Highlighter	26 01.704	73 04.462	82	
SW09 Structure Mooring	J. Lynch	(2) Polyforms	26 01.840	73 04.291	82	
SW10 Structure Mooring	J. Lynch	(2) Polyforms	26 03.330	73 04.233	82	
SW11 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.757	73 03.671	82	
SW12 Structure Mooring	J. Lynch	No Surface Markings	26 01.734	73 03.828	83	
SW13 Structure Mooring	J. Lynch	(2) Polyforms	26 03.830	73 03.834	82	
SW14 Structure Mooring	J. Lynch	Polyform Highlighter	26 01.871	73 03.632	79	
SW15 Structure Mooring	J. Lynch	Polyform Highlighter	26 01.804	73 03.628	78	
SW16 Structure Mooring	J. Lynch	Polyform Highlighter	26 01.830	73 03.234	81	
SW17 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.433	73 03.612	80	
SW18 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.551	73 03.771	81	
SW19 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.170	73 03.227	73	Note "A"
SW20 Structure Mooring	J. Lynch	Polyform Highlighter	26 06.387	72 58.873	73	Note "A"
SW21 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.134	72 55.813	77	
SW22 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.397	72 54.958	79	
SW23 Structure Mooring	J. Lynch	Polyform Highlighter	26 03.813	72 57.388	87	Note "A"
SW24 Structure Mooring	J. Lynch	Polyform Highlighter	26 07.858	72 54.680	109	
SW25 Structure Mooring	J. Lynch	Polyform Highlighter	26 07.197	73 04.389	110	
SW26 Structure Mooring	J. Lynch	Polyform Highlighter	26 08.810	72 53.483	113	
SW27 Structure Mooring	J. Lynch	Polyform Highlighter	26 08.058	72 53.285	124	
SW28 Structure Mooring	J. Lynch	Polyform Highlighter	26 07.304	73 01.630	122	

SW Master Mooring Sheet 2

SW29 Environmental Mooring	J. Lynch	Random/Regular	29 01 184	72 18 633	56
SW30 Environmental Mooring	J. Lynch	Random/Regular	29 01 801	72 18 607	52
SW31 Environmental Mooring	J. Lynch	Random/Regular	29 02 849	72 18 214	52
SW32 Environmental Mooring	J. Lynch	Random/Regular	29 08 804	72 18 122	50
SW33 Environmental Mooring	J. Lynch	Random/Regular	29 12 838	72 18 706	78
SW34 Environmental Mooring	J. Lynch	Random/Regular	29 24 878	72 18 884	129
SW35 Y-HOI PIR Mooring	H. Grawinkel	Random/Regular	29 01 808	72 18 626	52
SW36 Y-HOI PIR Mooring	H. Grawinkel	Random/Regular	29 09 828	72 18 626	52
SW37 CBL, Bottom ADCP	J. Lynch	No Surface Markings	29 04 128	72 18 884	71
SW38 CBL, Bottom ADCP	J. Lynch	No Surface Markings	29 01 222	72 18 524	71
SW39 CBL, Bottom ADCP	J. Lynch	No Surface Markings	29 08 808	72 18 884	118
SW40 CBL, Bottom ADCP	J. Lynch	No Surface Markings	29 08 188	72 18 884	128
SW41 CBL Mooring	J. Lynch	Random/Regular	29 08 888	72 18 744	118
SW42 CBL Mooring	J. Lynch	Random/Regular	29 08 127	72 18 884	117
SW43 CBL Mooring	J. Lynch	Random/Regular	29 06 852	72 18 884	128
SW44 Ocean Sound Machine	H. Grawinkel	Random/Regular	29 01 828	72 18 626	52
SW45 NRL 300 Hz Source	J. Lynch	Random/Regular	29 12 882	72 18 884	128
SW46 NRL 300 Hz Source	J. Lynch	Random/Regular	29 12 882	72 18 426	52
SW47 Y-HOI 304 Hz Source	J. Lynch	Random/Regular	29 04 128	72 18 426	52
SW48 Y-HOI 300 Hz Source	J. Lynch	Random/Regular	29 09 822	72 18 546	52
SW49 Y-HOI SHRD Hydrophone	J. Lynch	No Surface Markings	29 04 648	72 18 022	62
SW50 Y-HOI SHRD Hydrophone	J. Lynch	No Surface Markings	29 04 881	72 18 024	62
SW51 Y-HOI SHRD Hydrophone	J. Lynch	No Surface Markings	29 08 888	72 18 884	128
SW52 Y-HOI SHRD Hydrophone	J. Lynch	No Surface Markings	29 01 021	72 18 614	62
SW53 Y-HOI SHRD Hydrophone	J. Lynch	No Surface Markings	29 08 282	72 18 788	78
SW54 Y-HOI SHARD VLS THL4	J. Lynch	Random/Regular	29 01 821	72 18 626	52
Repeater SSP-1P 2.1m		Random/Regular	29 01 822	72 18 626	52
SW57 Ocean Buoy Mooring #1	H. Grawinkel	Tether Buoy	29 01 168	72 18 214	71
SW58 Ocean Buoy Mooring #2	H. Grawinkel	Tether Buoy	29 04 854	72 18 124	71
SW59 ADCP Array Mooring	J. Lynch	Random/Regular	29 08 128	72 18 744	118
SW62 Ocean ADCP Trawl	H. Grawinkel	No Surface Markings	29 08 127	72 18 744	118

Note:
 Readings from Ocean
 Buoy Log

Note "A"
 Readings from ATT cable
 into Ocean Buoy

