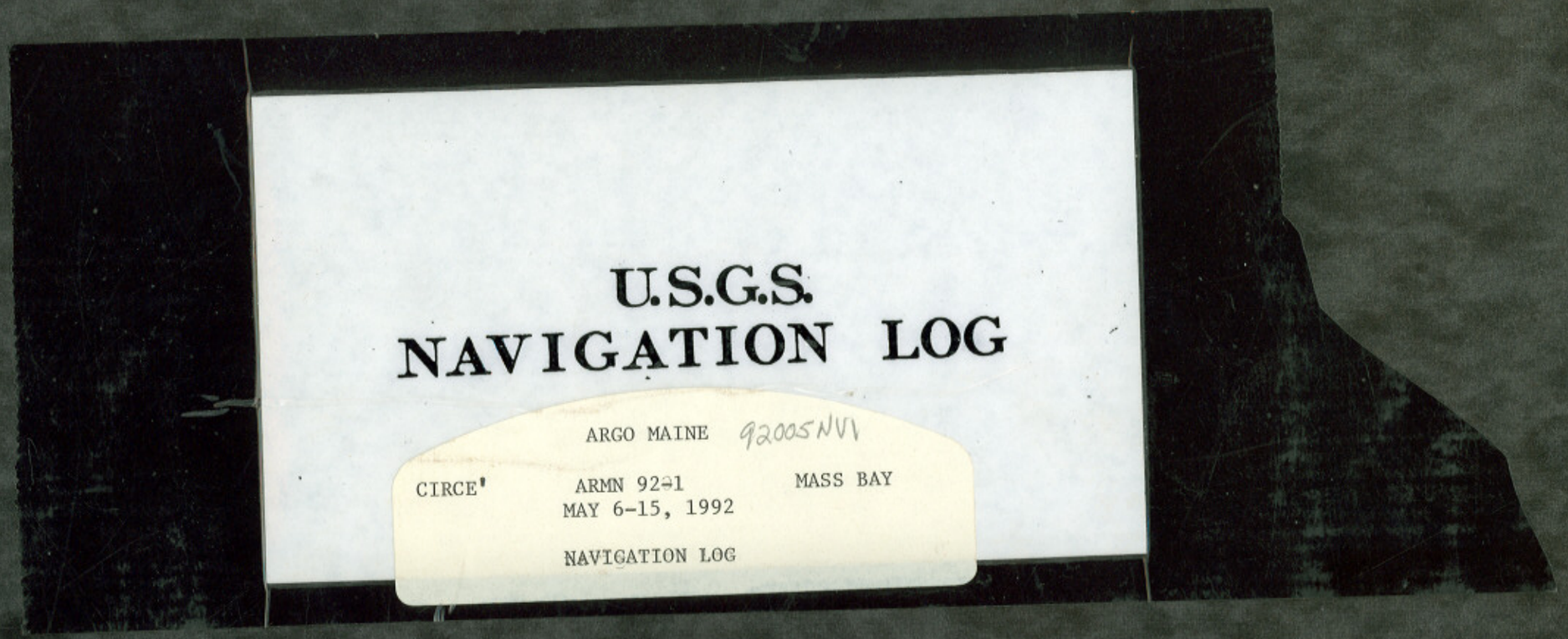

U.S.G.S.
NAVIGATION LOG

ARGO MAINE 92005NVI

CIRCE' ARMN 92-1 MASS BAY
MAY 6-15, 1992

NAVIGATION LOG

92-
ARMN 104834
92005

U.S.G.S.
NAVIGATION LOG

SHIP: ARGO MAINE

CRUISE: ARMN 92-1

DATES: MAY 6-15, 1992

AREA: MASS BAY

CHIEF SCIENTIST: C. Knebel

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	LATITUDE ± DEGREES ± MINUTES	LONGITUDE ± DEGREES ± MINUTES	TYPE (D = Diff GPS)	QUAL.	DISC TAPE #	START	END	COMMENTS AND OBSERVATIONS
92	05	06	17 15									1			Underway
92	05	06	21 58	—	234	8	21.58	43 47.3	69 25.0			1			Changed disks → Disk 1 1375 records
SD	1	27													Ashtech, Magnavox Diff. GPS
															Megapulse Loran C chain 9960 W, X
92	05	06	22 50	—			2250	43 43.1	69 35.1	D		2			changed ast corrections w=0.7, x=3.1
92	05	06	61 45	—			0146	43 29.5	70 06.1	D		2			changed ast corrections w=1.0 x=3.1
92	05	07	02 32	—	192	8.7	0233	43 22.6	70 08.7	D		2			ended disk 2, started disk 3
92	05	07	09 10		58	5.7	0913	42 35.6	70 30.6	D		3			restarted nav on same disc after restarting
	05	07	09 15	—								3			Loran receiver. Lost nav at
JD	128			—								3			128:05:15, in transit, no watch renamed file on disc to correspond
92	05	07	09 33		296		0938	42 37.3	70 30.3			3			restarted nav computer, set ashtech alt 1020
			09 37									4			set ast corrections w=1.7, x=3.4
			10 30												Gear in water Sidescan record Recon ongoing - testing + tweaking
			10 58		179	4.8	1100	42 32.8	70 30.0			4			QMIPS on → Testing
			11 15		178	4.3	1115	42 31.6	70 30.0			4			SGL 7
			11 46				1145	42 29.4	70 30.6			4			switched to magnavox - loran problem
			11 48									4			changed ast to 1.0, 2.7
			12 19									5			Lost Loran / GPS down and Disk / start disk
			12 17									5			NAV BACK ON LINE
			13 10									5			Nav down - renamed old file data1a
			13 14									5			Nav back up - writes to file data1
			13 48									5			BLEW SIDESCAN UP CRASHED AT BOTTOM 42 20.3+
			13 51									5			Recorder off - all systems down exc. NAV
			14 27		180	4.8	1425	42 17.4	70 30.0			5			starting turn to 42°20.4'

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	NAVIGATION LATITUDE ± DEGREES ± MINUTES	NAVIGATION LONGITUDE ± DEGREES ± MINUTES	NAVIGATION TYPE (D=DGPS L=Loran)	NAVIGATION QUAL	TAPE #	TAPE START	TAPE END	COMMENTS AND OBSERVATIONS
92	05	07	1519	1											Starting turn back on to line where we left off.
JD	128		1524		188	4.0	1525	42 20.4	70 30.0		D				gear deployed - Loran X-Sec still bad
92	05	07	1606												SS fish back on deck
92	05	07	1629		173	4.5	1630	42 15.8	70 30.0	DL		5/6			END DISC 5, START DISC 6 - Loran Good
			1636									6			Changed asf corr 1.3, 3.0 (w, x)
			1703									6			reset ashtech to alt known = y elv = 15m
			1745									6			MAKING TURN TO RESUME S. COURSE ON LL
			1810									6			FISH STILL ON DECK starting to stream gear out L
			1850									6			STILL CAN'T GET DECENT RECORD ON SS.-
			1855									6			BOOMER OFF - GILL NETS AHEAD - PREPARE TO HAUL FISH
			1955	1				42 11.36	70 29.9	DL		6			EOL 1
			1956									6			Began turn.
			2018									6			:
			2033	2	068	4.6	2035	42 11.3	70 31.5	DL		6			SOLN 2
			2056					42 11.8	70 29.6	DL		6			EOL 2
			2058	2	046	4.1		[illegible]	[illegible]			6			Pulling in fish
			2216									7			SWAP DISCS EOD 6 SOD 7
			0131	2	284	9.3	0130	42 15.1	70 27.9	DL		7			Heading for Boston - USCG
			0326		283	9.3		42 19.0	70 50.9			7			Shut down nav equiptment end of dish 7
92	05	08	0[illegible]2												AR BOSTON CG Base
JD	129		1728									8			DEP Boston w/replacement gear
			1959									8			ODOM in water
			1930									8			Huntec in water

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	NAVIGATION LATITUDE ± DEGREES ± MINUTES	NAVIGATION LONGITUDE ± DEGREES ± MINUTES	NAVIGATION TYPE	NAVIGATION QUAL.	TAPE # Disc	TAPE START	TAPE END	COMMENTS AND OBSERVATIONS
92	05	08	1933	3											ODOM ON
JD	129		1933												RECORDER ON
			1937												LOST NAV, † ODOM WINCH PULLED LORAN † ODOM CABLE
			1940									8			NAV BACK UP
			1938									8			EG+G in water
			1951	3	063	2.1		42 02 3.1	70 43.3			8			SOL 3
			2107	3	089	2.5		42 24.2	70 39.5			8			breaking off line to work on Q-H,ps
			2308									8			streaming gear by hand
			2303									8/9			END DISK #8 / START DISK #9
			2320	3	068	2.5		42 23.9	70 40.8			9			Resume line 3
JD	130		0235	3	071	2.10		42 27.5	70 30.1			9			EOL 3
MAY	9		0400									9			Break off survey - EG+G cable in shive
												9			~1000# - waiting for daylight to resolve this.
			0437									9			End Disc #9, Had Trouble ending this disc + getting next one started.
			0457									10			Start Disc #10
			1032									10			End Disc #10
			1033									11			Start Disc #11
			1040									11			Got wire out from between shive + block.
			1202	4								11			Put fish in water
			1230									11			SOL 4 @ fish @ 115m cable.
			1250	4	246	3.8	1250	42 28.0	70 34.4	D	L	11			Lost signal from fish EOL 4
			1258									11			Pulling in fish - SS on deck
			1401	—	229	4.0	1400	42 26.2	70 40.2	D	L	11			Deploying fish on hand line
			1416	5	245	4.0	1416	42 25.6	70 41.3						SOL 5 - Continuation of Line 4

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	LATITUDE ± DEGREES	LATITUDE ± MINUTES	LONGITUDE ± DEGREES	LONGITUDE ± MINUTES	TYPE	QUAL.	TAPE # Disc	START	END	COMMENTS AND OBSERVATIONS
JD	13	0	1454	5				42	24.6	70	44.3			11			EOL 5 (continuation of Line 4)
MAY	9		1601														END DISC #11/START DISC #12
			1603	6	062	4.6		42	27.6	70	42.8			12			SOL 6
			1636											12			Lost EG&G signal - bottom too deep/short cable
			1645	6	070	3.4	1645	42	28.7	70	38.9	DL		12			SS fish back in water
			1707	6	057	3.0		42	29.2	70	37.4			12			EOL 6
			1744	6										12			Pull EG&G to change cable - Everything on STNDBY
			1836	6										12			EG&G in water
			1846	6										12			Recording boomer -
			1847	7	195	4.4	1847	42	31.9	70	40.1			12			SOL 7
			2135											12/13			END DISC #12/START DISC #13
			2151	7	180	4.9	2151	42	17.95	70	39.92			13			EOL 7 215'
			2233	8	102	4.7		42	20.16	70	41.10			13			SOL 8 (Somewhat N of line - Gear avoidance
			2323											13			Veering off course ≅ 260 m off line To starboard Bearing 64.5
JD	13	1	0032	8	68	4.9	0032	42	23.57	70	29.95			13			EOL 8
MAY	10		0111	9	95	4.8	0111	42	21.20	70	30.08			13			SOL 9
	13	1	0243	9	244	5.1	0243	42	17.97	70	40.04			13			EOL 9
			0318	—										13/14			EOD 13 / SOD 14
			0413	10				42	17.22	70	35.08			14			Had trouble getting QMIPS up after turn. SOL 10, QMIPS up + Running again,
			0520	↓				42	18.81	70	29.98			14			EOL 10
			0603	11	257	3.6		42	16.41	70	30.24			14			SOL 11
			0648	11	248	3.7		42	15.33	70	33.67			14			EOL 11 - Ending Line early due to avoiding fishing gear
			0657														Avoiding Fishing Gear - Hauled fish in.
			0715														Putting Fish Back In - Fish sitting at surface

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	NAVIGATION LATITUDE ± DEGREES ± MINUTES	NAVIGATION LONGITUDE ± DEGREES ± MINUTES	NAVIGATION TYPE	NAVIGATION QUAL.	Disc TAPE #	START	END	COMMENTS AND OBSERVATIONS
JD	13	1	0726									14			Lost signal from fish. Still avoiding gear.
MAY	10		0730	12		4.0		42 16.23	70 35.00						SOL 12, Letting fish down
			0757												Letting fish down a bit more
			0806												Picking speed up to let fish out to straighten wire
			0842												Lost signal completely, pulling fish in, Hooked on to gear?
			0845												Hauled fish in on deck.
			0848												Fish dead. Upside down, connector stowed!
			0859												End Disc #14
			0901									15			Start Disc #15
			0925												Putting fish back in water on surface. Hand held Unit testing signal.
			0932												Paying fish out
			0938												Testing Diverting for long line Getting only very narrow band of data on side scan.
			0949												ODEM Fathometer Back ON, QMIPS ON
			0950	12		3 3.6		42 20.73	70 34.99						Restart Line 12
			1015	12358		3.4		42 22.23	70 35.03						EOL 12
			1017												ALL EQUIPMENT SHUT DOWN, PULLING EVERYTHING UP
															Putting fish w/ new splice back in water
			1334												ODEM & FATHOMETER BACK ON
			1344												Paying out wire to eliminate loops on winch
			1405												Recorder back on
			1410												Fish in water. Manuvering to get on to next line
			1417												PAYING FISH OUT
			1423	13		5 8 4.6		42 36.38	70 34.17			15			SOL 13
			1435									15/16			EOD 15 / SOD 16

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	NAVIGATION LATITUDE ± DEGREES ± MINUTES	NAVIGATION LONGITUDE ± DEGREES ± MINUTES	NAVIGATION TYPE	NAVIGATION QUAL.	DISC TAPE #	START	END	COMMENTS AND OBSERVATIONS
JD	13	1	1449	13								16			shutting down Q-MIPS
MAY	10		1511												Q-MIPS BACK ON
			1516					42 37.95	70 29.89						EOL 13
			1541												BRINGING UP LINE & IT
			1555	14				42 35.32	70 30.32						SOL 14.
			1608					42 35.31	70 31.44						caught net - sheared cable - pulled all gear
			1630												Broke off survey - Transit to Gloucester for parts
			1733									16			AR Gloucester CG Base
JD	132		1848	—	—	—	1850	42 36.6	70 39.5	DL		17			SOD 17 - In Gloucester
MAY	11		1951												Underway
	132		2205	15	253	3.6		42 23.8	70 34.9						SOL 15 DGPS fading
			2217												DGPS good — switched few times bet. GPS DGPS
			2228												LOST DGPS then restored
			2259		318	6.3		42 32.1	70 39.6						EOL 15 - bringing 55 fish on deck
	133		0103									18			END DISC #17/START DISC #18
	133		0251	16	59	3.7		42 26.0	70 43.64						SOL #16
MAY	12		0420	16?				42 28.4	70 36.8						Pulling fish in, Snagged more gear? EOL16?
			0424												Fish on Deck, Shut off VHS tape. Recorders shut off.
			0452												DGPS Again
			0501												Adj 13, 30
			0523												Pulled in boomer,
			0637									18/19			End Disc #18, Start Disc #19
			1214									20			End Disc # 19, Start Disc # 20
			1223												Paying wire out to get rid of loops on winch

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	NAVIGATION LATITUDE ± DEGREES ± MINUTES	NAVIGATION LONGITUDE ± DEGREES ± MINUTES	NAVIGATION TYPE	NAVIGATION QUAL.	DISC TAPE #	START	END	COMMENTS AND OBSERVATIONS
JD	133		1234									20			ODEM Fathometer Back on
MAY	12		1241												Putting in Streamer + sled
			1246												Recorder back on.
			1400.	17	243	5.9		42 27.6	70 31.7						SOL 17 - offset from line - port side
			1404												Turning back onto line
			1408		244	5.8									Turning to starboard, avoiding fishing gear?
			1415		244	6.1									Turning towards line.
			1422		246	6.0									Back straight on line
			1424												Slowing down to 4 knots
			1447												Big shipwreck on record ≅ 40 m long.
			1552												Turning to starboard - avoiding gear?
			1600												Deviating to avoid pots again
			1623		235	4.6	1623	42 23.49	70 45.05			V			EOL 17
			1702	18	090	3.8	1702	42 22.5	70 43.3			20			SOL 18
			1732									20			Altering course to avoid pots
			1739									20			Turning back toward line
			1844									20/21			SOD 21
			2018	18	069	3.7		42 26.86	70 29.97			21			EOL 18
			2039	19	248	5.7		42 25.82	70 30.32			21			SOL 19
			2245	19	252	4.1		42 21.72	70 42.73			21			EOL 19
			2305	20	064	4.9		42 20.91	70 41.70			21			SOL 20
JD	134		0023					4				21/22			EOD 21
MAY	13		0026												Starting to turn to avoid gear
			0028	20				42 23.33	70 34.31			↓			EOL 20

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	LATITUDE ± DEGREES ± MINUTES	LONGITUDE ± DEGREES ± MINUTES	TYPE	QUAL.	~~TAPE~~ DISC #	START	END	COMMENTS AND OBSERVATIONS
JD	13	4	0125					.	.			22			Hit sample location M
MAY	13		0153					.	.			2			L
			0239					.	.						K
			0312					.	.						J
			0338					.	.						I
			0447					.	.						Heading for sample location 5
			[illegible]					.	.			22			winch busted
			0450					.	.			22/23			EOD 22, start Disc #23
			1036					.	.			↓			End Disc #23,
			1037					.	.			24			Start Disc #24
			1119					.	.						ODEM Fathometer on
			1130	21	260	4.7		42 07	.98 70 27	.10					SOL 21 - Both nets line site 5
			1140					.	.						Bringing up fish a bit
			1202					.	.						Bringing up fish a bit
			1208					.	.						EOL 21
			1228	22	087	5.0	1228	42 08	.14 70 31	.22					SOL 22
			1328					42 08	.16 70 24	.40					EOL 22
			1342					.	.						Lost Nav., lost differential GPS.
			1343					.	.						Moved to GPS
			1343					.	.						back to DGPS
			1345	23	265	5.7		42 08	.08 70 25	.07					SOL 23 - extension of line 21
			1405					42 07	.96 70 27	.23					EOL 23
			1406					.	.						QMIPS + ODEM Shut off
			1409					.	.						Fish on Deck

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	LATITUDE ± DEGREES ± MINUTES	LONGITUDE ± DEGREES ± MINUTES	TYPE	QUAL.	DISC #	START	END	COMMENTS AND OBSERVATIONS
JD	134		1532									24			Putting ODEM in water - Nav down (ODEM) EOD 24
MAY	13		1534												ODEM recorder on
			1535									25			Fish in water - Nav up SOD 25
			1545	24	173	5.9		42 17.57	70 28.66						SOL 24 SITE 4A
			1603					42 15.98	70 28.65						EOL 24
			1612	25	274.0			42 16.22	70 28.78						SOL 25
			1627												SITE 4A 42.2886 70.4791
			1651	25				42 19.1	70 28.7						EOL 25
			1736	26	157	3.9		42 18.48	70 25.41						SOL 26
			1753		177	3.9		42 17.27	70 25.44						East of Site 4
			1805		170	4.2		42 16.51	70 25.40						EOL 26
			1814	27	030	4.8		42 16.70	70 25.64						SOL 27
			1836	27	028	5.0		42 18.53	70 25.64						EOL 27
			1839												Q-MIPS EGG off - pull fish - transit to line 28
			1846												ODOM off - pulled in
			1941									25			Nav crash + reboot EOD DISC 25
			1944									26			START DISC #26
			1955					42 50.42	70 34.99						
			2027	28	002	4.5		42 17.92	70 35.80						SOL 28
			2056												Deviating to avoid pots/nets
			2102												Turning back onto line
			2231	28	357	3.5		42 26.46	70 35.01						Caught pot EOL 28
			0151									27			END DISC #26 / START DISC #27
			0315												Finished grab sampling

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	NAVIGATION LATITUDE ± DEGREES	NAVIGATION LATITUDE ± MINUTES	NAVIGATION LONGITUDE ± DEGREES	NAVIGATION LONGITUDE ± MINUTES	NAVIGATION TYPE	NAVIGATION QUAL.	TAPE #	START	END	COMMENTS AND OBSERVATIONS
JO	1	35	0320											27			EOD 27 - Started writing to Hard disk
MAY	1	4	1047											C:\			Copied to 3½" disk #28 - EOD 28
			1049											29			SOD 29
			1115														Switching generators - shut down nav
			1134														Nav on again
			1217														Putting Ash in Water
			1232	29	360	4.8		42	22.73	70	39.93						SOL 29
			1245	29	18	4.9		42	23.49	70	39.10						EOL 29 - Too far off course - due to fishing gear END SITE 2
			1250														Bagging work on Site 2 Lines, Too much fishing gear in water
			1255														Transiting to Site 9 Lines
			1338														Fish Back in water
			1342	30	180	4.6		42	20.04	70	39.47						SOL 30
			1350														Speeding up to try and avoid fishing gear
			1412	30	180	4.7		42	17.68	70	39.44						EOL 30
			1420	31				42	17.71	70	39.33						SOL 31
			1432														Approximate Sta #9
			1446		359	5.3		42	19.87	70	39.34						EOL 31
			1516	32	80	5.1		42	19.02	70	39.96						SOL 32
			1652	32													EOL 32
			1735														END DISK 29
			1738											30			SOD 30
			1834											31			EOD 30 / SOD 31
			2117											31			EOD 31
SD	13	5	2117														AR BOSTON CG Base 05:30 EDT