CHIEF SCIENTIST LOG
R/V ARGO MAINE

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-9
(Approved December 1941)

6-15 MAY '92

ARMN-92-1

92005chi
#105112 ARMN 92-1
ARGO MAINE 92005
Massachusetts Bay
May 6-14, 1992
R. Circe
CHIEF SCIENTIST'S LOG
(May 6-14, 1992)

Mike Bothner's sites

PROPOSED SAMPLING LOCATIONS FOR THE ARGO-MAINE LEG 2 (NAD83)

Sta#	AREA	LATITUDE DEG-MIN	LONGITUDE DEG-MIN	WATER DEPTH M
Old stations, these need not be surveyed with sidescan sonar:				
WH3	Near MWRA outfall	42 23.3961	70 49.8341	≈ 4.5 nm
WH2	Near MWRA outfall	42 22.8740	70 48.8965	≈ 3.5 nm
1	N.E. Mass Bay	42 20.843	70 48.945	31 ≈ 5 nm
New stations:				
2	W. Stellwagen Basin	42 23.67 (24.67)	70 39.72 (.68)	70 INSIDE
3	Stellwagen Bank U3 (Sandy, grab only)	42 22.17 (25.67)	70 20.93 (.80)	30 ≈ 6.5 nm
4	S. Stellwagen Basin	42 17.3	70 25.5	87 CLOSE ≈ 2.5 nm
5	between MB and CCB (old station OC234-2A)	42 08.00	70 25.35	62 CLOSE ≈ 3.5 nm
6	Western CC Bay	41 53.9	70 24.2	34
7	Eastern CC Bay	41 57.5	70 16.0	38
8	East of Stell. Bank	42 25.8	70 00.0	180
9	SW Mass Bay	42 18.75 (17.75, 19.75)	70 39.4 (.35, .45)	50 INSIDE
10	S. Stellwagen Bank (Sandy, Grab only)	42 15.6	70 13.4	34 ≈ 12.5 nm
11	N. of Stell. Bank	42 31.2	70 22.0	145 ≈ 5 nm

w/in 500 m - 2 // swaths

☆ priority

24 samples

- Mike - prefer // lines over site

ED STATES
OF THE INTERIOR

6 MAY 92

1330 EDT left dock in Castine -
on board: RON CIRCÉ - Chief Scientist
DAVE NICHOLS - SEISMIC Specialist
CHRIS Schneider - NAVIGATOR
BARB SEEKINS
NANCY SODERBURG
NICOLE MOSER
CAROL PARMENTER
DANN BLACKWOOD
me - Dr. Rendiga Sir! CASH AWARD
Al - cook

Chief Mate
VID - 4-8
John - 12-4
Kevin 8-12

ACCESS#
617-571-7626
207-745-9195

R/V ARGO MAINE CREW
DON BRADFORD - CAPT
DAVID WHITNEY - 1ST OFFICER
JOHN STEER - 2ND OFFICER
KEVIN LAPHAM - RELIEF MATE
ALAN STERNS - Cook

7 May 82

0595 EDT - @ WP 1 42° 38'
70° 30'

ODUM & sub-bottom in water @
0615 - firing up to check out systems
weather nice - cool - slight rollers ≈ 1m

0655 EDT SSS in WATER

sub bottom @ 280j 1/2 sec fire, 1/4 sec swp
500-2kHz filter
50 msec delay

SOL 1 @ 1115Z - SPD ≈ 5kt - slow as boat goes

1138Z switching receivers on subbottom
attempting to eliminate 60 cycle noise

1221Z Geopulse down - overvoltage alarm
change to 175j

1348 42 20.34 Bringing sidescan up - crashed at bottom
1349 - Shut all systems off
lost fins & cone holding fins of SSS fish - replaced - hdg
for 42° 20.4' 70° 30.00' to cont Line 1
using bathy / fishing map for plotting location
every 15 min - nav chart not accurate
enough to fly fish -
will fly fish 15 m off bottom

1524 Z SSS in H_2O hdg for restart of Line 1 @ sea mount

1550 Z bringing fish on ~~board~~ board - not working - cone filled w/ mud broke down entire fish - cleaned, tightened, etc.

1810 Z fish back in H_2O - hdg again down line 1 - in fathom 70°30' lin

little, if any, return on SSS - mud bottom

1855 Z - all off - gill nets ahead - pulled SSS on board - will run to S side of line @ 42°15' & 70°30'

1923 42°13.76' restart Line 1
70°29.98'

2058 Z shut down SSS - not tuggering ~~office~~ s Twig called O'Brien, he suggested getting EG & G up & running
finished (somewhat) line 1 & 2 - milling about - will probably about line 3 & 4
hdg to S then 6 - long steam back north

Klein fish down - apparent short in connector @ fish - good signal return when on deck but lose it when in H_2O - recorder probs w/ it changing gain on its own -

will head for Boston CG station - Twin called O'Brien - he will meet us at CG on Fri AM (early) to pick-up Klein system - ~~will also~~

Capt & Twin set up ship's EG&G system -

termination on ship's winch had been wired wrong -

line

Capt & Twin - rewired and remolded connector - Twin setting up EG&G to connect to Q-MIPS - O'Brien will help tune up EG&G to Q-MIPS on Fri AM

called Harley (2115 EDT 7 May) - FYI of plans

8 May '92

0730 EDT - O'Brien on board - working w/ Twin to tune-up EG&G to Q-MIPS

Twin said Harley called @ 0700 EDT - I called Harley @ 0800 EDT - left message for him to call me on ship.

ed

0730 EDT - weather report not the best - winds 10-20 kt from SE building to 20-30 kt - seas 3-6' building to 6-12' - possible T-showers later this pm

~~1310Z~~ 2370 O'Brien left w/ Klein SSS fish & recorder called Aldrich - requested paper for EG&G recorder - after several calls to WH - J. Newell ~~to~~ will pick up 3 cs paper @ $790/cs and pair of tail fins for EG&G fish

1310Z J. Newell arrives w/ paper (3 cases) and 1 fin (not 1 pr - but 1 fin) - ridiculous that only 1 fin was sent - rather to have 1 or 2 less rolls of paper - but someone should have worked something out

will head for line 3 - @ 42° 22.83'
70° 44.07

will try to run lines ~~in~~ from SW → NE - line 3
NE → SW - line 4
SW → NE line 5

1951Z SOL 3 - EG&G working ok - Q-MIPS down
OPUM wire got clipped when main winch pumps were turned on - capstan where OPUM cable was hanging started turning & cable got caught under hydraulic connector - Rick & Chris repaired cable
OPUM on @ 2043 Z

Cool Award!

2058Z fish on deck - sporadic signal
2059Z fish back in

2100 Z fish on deck - looked ok

~~2110~~ Z fish in water - Twig discovered short in trigger cable for EG&G. -

2107 Z all equip off - making slow circles @
42° 24.30'
70° 39.50'

since cruise began, 1 component of each major system (except nav) have broken -

1. GEOPULSE RECEIVER
2. KLEIN - fish & recorder
3. OBEM CABLE
4. Q-MIPS
5. EG&G

2121 Z - EG&G ~~cables~~ recorder seems OK
fish on deck - possible short in trigger @ fish

2152 Z - approx. rigging 100 m EG&G cable to deploy fish by hand - Twig checking long cable - splice they did last night - to see if short in there - short in potting on long winch cable - most wires fried - will deploy fish by hand on 100 m cable and ~~rem~~ reterminate winch cable

2240 - Butt head goes eats!

0235Z EOL 3

1130 EDT Little Ricky eat cheese & pepper ~~sub~~ on toast w/ pepsi - we all suffer

0245Z SSS cable stuck in sheave all systems down - gear on board heading for end of line 9- following seas will wait til daylight to get sheave off frame and replace - long SSS cable should be ready

5/9

0600 EDT

Mot the packerheads up for de-
tube locking da wire.

0615 EDT Barb says we'll have a good day -

1221 Z All gear in water

1230 Z SOL 4

≈115 m SSS cable out

NOTE SIDE SCAN CABLE MARKED every 5m w/ TOP
Banana Yellow Paint - every 25 m - cable ~~mark~~ marked
w/ gray tape (1 wrap/10 m) & black tape (1 wrap
indicating 5 m

25 m - 2 gr - 1 blck
50 m 5 gr

75 m
100 m large gray & yellow
125 large gray, black, yellow

EOL 4

1250 Z SSS went out - why? I don't know - lost signal
shut all systems down - bringing fish in
fish snagged on lobster pot - safety cable system
tripped but caught on plug - plug didn't pull out
as like suppose to - sheared off plug -

1403 Z - hand-deployed fish w/
100 m cable - ≈ 80-85m cable
out - spd ≈ 3.5 kt

1416 Z SOL 5 - getting ≈ 30 m swath w/
100 m cable - spd is dead slow ≈ 3.5 kt

1455 Z EOL 5
lots of manuvering avoiding lobster pots
and gill-nets

1603 Z SOL 6

1707 Z EOL 6

1744 Z change SSS cable
1836 Z fish back in H_2O
1847 Z SOL 7 - ~~sta~~ scavenging inside tie
along 70°40' - winds N ≈ 5 kt - seas calm
lots fishing gear to west of ~~west~~ us
will try to pick up cross line when we get
~~sou~~ @ EOL

2151 Z EOL 7
steaming to WP "L" to begin a SW → NE line

2233Z SOL 8 - starting a bit N of line (≈ 500 m) but fishing gear & fog thick - coming to line quickly - started because we were already 250 m past plotted SOL

10 MAY

JD 131

0032Z EOL 8 - so far so good - all systems appear to be working well -
- good steak dinner the evening -
- Bert was kidnapped by the Sidescan Freedom Fighters left note - more to come

0111Z SOL 9 - SO FAR SO GOOD
TOTALLY UNEVENTFUL LINE - HOORAY

Barb was right!

0243Z EOL 9

0305Z boomer sled caught a buoy - stopped to disengage -
fuses (10A & 1/16A) both blew on EG&G - don't know why? changed fuses - all seems ok -
1st mate said lots of gear in water - we pulled sled, fish & hydrophone on deck - steaming to WP "P" - will then put gear in H_2O

Had a I wish

0913 Z SOL 10 - Q-Mips had been down
but up again

0520 EOL 10 - hdg for WP S to begin
last NE-SW line before 70°35'
center tie line

0603 Z SOL 11

0640 Z EOL 11 - aborted due to lots & lots
of fishing gear in water -
pulled fish on deck - big loose
loops in cable on drum
hdg for WP "Q" to run N on
long parallel - 70°35'

I want a beer

0730 Z SOL 12 - got 1 of several loops
loops on ship SSS winch → out of cable - surveying on
70°35' hdg N

0842 Z Odd signals from fish. ~~St~~

0845 Z Pulling fish in - All signals lost

0848 Z Fish dead. Hit some fishing gear. Damaged
connector. Fish upside down.

0932 Z Using handheld wire system. Letting fish
back in water to resume line 12.

0938 Z Testing fish. Only getting narrow band of data on
sidescan. Also diverting for line.

0949 ODEM fathometer back on, Q-MIPS on

0950 Z Restart Line 12

1015 BAD SIGNALS. EOL 12.

1017 Everything shut down & hauled up.

1423 Z SOL 13.

1516 Z EOL 13

1555 Z SOL 14

1608 Z fish caught in ~~the~~ gill net - broke connector - going to ~~Gloucester~~ Gloucester CG to await spares

WHY ME LORD !!

1320 EDT ~~decided~~ in Gloucester Harbor - 10 MAY

decided to drop all lines north of 42°30' and attempt to fill in all lines south of that point - too much fishing gear in water north of this area (i.e. 42°30')

1330Z Tom O'Brien called - will send
Wes to Gloucester CG on Monday
w/ spares -
no earlier than 1200 Monday
scientist released on their own
recognizance

11 May 92

0850 EDT - Capt moved ship over 2 piers to boat yard -
leak in sea water intake pipe - welder on board
attempting a repair
called Harley Sunday pm - FYI call - told him
about ~~gear~~ fishing gear problems and plan to
not run north of ~~41~~ 41° 30' lat. most fishing
gear is north of this line and ~~west~~ west of
long. 70°40' - we will try to complete the
center tie line (N to S) of 70°35' then begin
filling in the SW→NE cross line - we have
111 nm (approx) of data to date -
we currently have lines south of 41°30'
at 4 km spacing - will try to fill in
pattern and pick-up lines so we have 2 km
spacing
note: → suggested to Harley that he talk to Mike
B. ~~and~~ about running sidescan - all prob
we've had - and use only camera for documentary

Harley 508-548-5469

~~USGS~~ 508-457-2269 - Harley

Need: CASH AWARD
Chemwipes/paper towels - 6 rolls
4-5 boxes disk - HD 5 1/4
rubber bands

his sample sites -
- K. Paplaski in Gloucester w/ spare fish connectors
Harley talked to Mike - station on GB cannot

1600 EDT left Gloucester - hdg for long fix line
70° 35' - re-spliced fish cable

1630 EDT - outside Gloucester Harbor - seas
running 6-8' ~~sw~~ from NE supposed to
lay to 4-6' - changed line to a NE-SW
cross-line - WPU-G.

2125 Z on-line - Odum in H_2O, SSS in H_2O
~~seas~~ running w/ following seas - not to
bad - no signal from port side of fish -
bringing up on deck - gentle roll - some folks
not exactly bright & cheery

16 2130Z fish on board - will check out -
fish prob. riding strange -
appears connected -
in water - signal is garbage -
high rolling seas

22057Z SOC 15 - 555 - fair - rough seas
putting noise in H2O - not running
sub-bottom - too rough - will run this
line for awhile and make a call
later - pretty noisy signal

22592Z EOC 15 - lost signal on port side of
fish - fish on deck - very discouraging

23592Z - after really good supper of spaghetti w/
Italian sausage - started work on fish
- began re-rigging ~~pulled~~ tow wire -
Twig feels that splice may be faulty
in that signal may not be getting to or from
fish - cut cable and re-splicing fish cable
this makes splice # 7 - time will tell -

this has been the most discouraging cruise -
the equipment problems have been so high -
its incredible that so much could happen
in so short a time - science crew in fairly good
spirits - depressed when no work can be
done - Twig's done excellent job in maintaining

overall coolness when things go down.
I'm sure he's more frustrated than any of us
Ship's crew helpful - bridge crew has some difficulty in understanding ~~an~~ nav monitor - impression I get is that don't - or haven't - run many ~~seismic~~ geophysical surveys - they are not quite ~~sh~~ sure what to do about SOL & EOL - even after being told several times by me - ~~this is not th~~ they also seem to ~~have a~~ not fully realize what they are towing in that they don't watch for fishing gear like I feel they should be doing - They almost never listen to weather unless I ask - they are not really curious or concerned about the marine forecast and when they do listen to weather - it's mainly ~~o~~ weather for the ~~m~~ shore - they've been very accomodating when asked to do something, but seem to take little initiative in so far as how the gear is towed, wanting to know when things are deployed or brought in,

0034Z Twig & Capt. working on new splice -
more to come -
more news later - on the late edition

0100 Z splice #7 ~~haw~~ had apparent short - little, if any signal or port - Twig resplicing - #8 -
weather not good

2100 EDT NE 20-30 kt seas 4-8 ft
Tues. winds E 10-20 kt seas 4-8 ft

0150Z Twig finishing splice #8 - good signal from port side in rub test - sealing splice now milling about WP "X" - will attempt ~~#~~ SW→NE line - seas still running 4-8ft mostly about ~6'

0251Z SOL 16 - SSS looking Damn Good

0341Z - R^3 predicts new splice (#69) w/in 6 hrs (pers. comm. 1992)

0400 - "We've gone through all the bullshit - where the hell are we?" (so says Barb)

0420 Pulling Fish - Snagged more gee-ah.

0421 Lost signal

0424 - Fish on Deck, Connection pulled out but connector is O.K.

0529Z - boomer had caught lobster bouy about time that freed up - ~~to~~ lobster line got caught on SSS fish - ~~to~~ fish tripped - ~~sly~~ spliced held - connector parted like suppose to brought fish on deck - R^3 & Chi Sci. repaired and got no response from rubbing (she screamed!)

CRUISE JARGON

~~coopla ours least~~ (couple of hours at least)

NOOR LILAFTER (NOON OR A LITTLE AFTER)

GA-WHEAT (GO EAT)

DAJEET (DID YOU EAT)

N.E. VERSION ODUMOUTTAWATAH (ODUM OUT OF THE WATER)

SOUTHERN VERSION " " " WADAH

GREED **GO READ**

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decided to let Twig sleep - he'd been up looong (or loon) time - we will attempt repair in Am of Tues probably work only in daylight hrs

- receiving subliminal suggestion of CASH AWARD it seems to be heard lowly at all hours but especially during the wee hours of the AM

R^3 predictions ~~of~~ of 0341Z have apparently come true - he was "told" to write ~~hoo~~ horoscopes he said he "heard" this while in the shower - there are skeptics on board, however, who believe it is only a remanent of the swiss cheese, horseradish and bell pepper sandwich consumed by R^3 several days earlier - ~~son~~ one camp believes it loos the socks affecting his frontal lobe

B. Seekins - enjoying a great watch - she stated that Zen sidescan is the only way to go.

C. Schnieder has shot a 10 under par on the Pebble Beach course and is ~~the current cham~~ this weeks Jeopardy Champion on the computer

2100 NOAA WX REPORT
11 MAY

TONIGHT: WINDS: NE 20-30 kts - diminishing
SEAS: 4-8 ft.

TUESDAY: WINDS: E 10-20
SEAS: 4-8 ft

sunny - then clouds moving in

TUE. NIGHT: chance lgt. rain, fog, drizzle
WINDS SE 10-15
SEAS: 3-6

WED: chance of showers - party sunny

Th-Fri extended: Chance of showers

turbulent events can be described by non-linear equations - this is the Chaos Theory - this can go along way in describing this cruise

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we've come such a short distance and still have so far to go -
well, as we say in Texas -

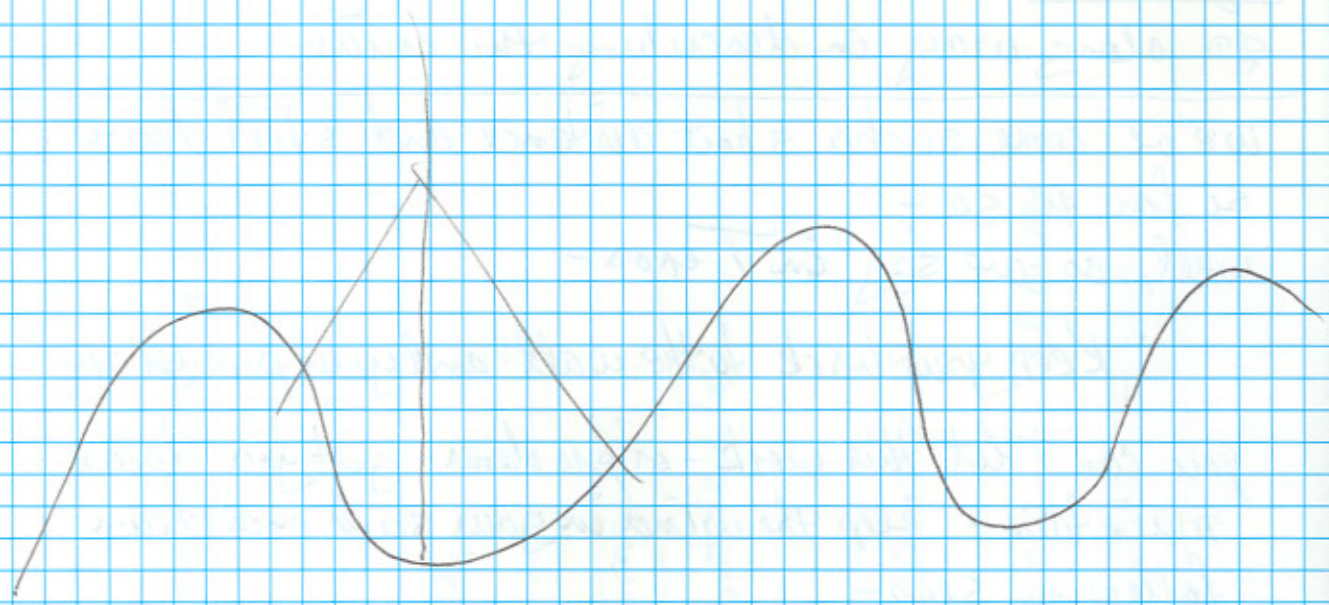
"Keep your back to the wall and your powder dry"

you can't let this work - or problems - get you down - maintain - keep the wind in your sails and have following seas -
enough waxing poetic - Beunos nochos!! 0215EDT
RBB

Tuesday - 12 May

0910z: hdg for WP "14" ⇒ Fwig + R^3 (cook award) re-terminated cable splice #9 - will be working daylight only

Send Chier - .5 & .7 mech. pencils + CASH AWARD



Sampling scheme at ea. location as designated by Mr. Peckerhead:

out of 1 grab comes da following

- grain size + Tm (0-2 cm) - into 1 pt. container
- 1 water content - into small glass jars
- 1 Hydrocarbon - into 16 oz glass jar
- 1 push core
- 1 clostridium into whirlpack from well mixed size/Tm smpl.

12 MAY

Design/System/Weak-links w/SSS

- plug: EO connector does not always pull out when fish trips -
- splice is a weak link
- shear pin - better to have a straight (non-threaded) pin - threaded pin to difficult to remove when sheared
- chief scientist is a butt head

CASH AWARD

1702Z SOL 18 - hoy fog rolling in
picked some sample sites (see pg 25

1330Z talked to Mike -
→ sidescan sites 4 & 5

per request from M. Bothner

Twig don't tear all SSS gear down for contingency 508 457-2240

bring extra refer - call
apt refer 24x24
prefer ship's refer - 2 milk crates floor space
38" high

1800 EDT talked to Mike - said prob. best to bring own refer

SAMPLE LOCATIONS

noted on chart by X_A

✓A:	42° 18.10'	70 39.30'
✓B:	42° 18.90'	70° 37.10'
✓C:	42° 20.25'	70° 33.25'
✓D:	42° 20.50'	70° 32.30'
✓E:	42° 21.00'	70° 30.80'
✓F:	42° 22.00'	70° 30.8'
✓G:	42° 21.45'	70° 32.75'
✓H:	42° 20.65'	70° 35.70'
✓I:	42° 19.75'	70° 37.75'
✓J:	42° 20.75'	70° 38.60'
✓K:	42° 21.75'	70° 35.80'
✓L:	42° 22.45'	70° 33.50
✓m:	42° 23.35'	70° 30.85'

CASH AWARD

TUESDAY 12 MAY

0028Z JD 134 EOL 20

steaming to 1st grab site - M

2125EDT - sta. M - these grabs are incredibly complicated by the fact the M. Bothma wants such varied subsamples - we will grab til ≈ 1000 hrs - R3 & C. Parmenter (CASH AWARD) are only ones who really know how to do all the necessities for Mike's samples - I just want grain size.

STA M - W487 - water content

42° 23.2854 70° 30.9412

134: 0125: 002

STA L - W510 - H_2O content sample

42° 22.4441 70° 33.5149

134: 0153: 10 Z

STA K W527 - H_2O content sample

42° 21.7497' 70° 35.8080'

134: 0225 - NO sample - redo } no sample - re-try

42° 21.7413 70° 35.8060

134: 0239: 11

STA J

42° 20.7650' 70° 38.5915

134: 0312 - No sample - redo

42° 20.7530' 70° 38.6109'

134/ 0321

STA I #W573

42° 19.7473

70° 35.7556

134/0338

STA H #W535

42° 20.6370'

70° 35.7073'

135/0052

Supposed 2B sandy bottom according to NOAA Fishing Ch
- 0-2cm sample felt ~~like~~ silty - no grit

STA G #W524

42° 21.4519'

70° 32.7500'

135/0120

STA F #W503

42° 21.9800'

70° 30.8206'

135/0155

See page 32 for continuation of sample stations

Wed - 13 May

CASH AWARD!

~~no cash awar~~

0015 EDT stuck on Sta. H - main winch thru a loop - delicious cookies served by mon sewer Blackwood baked by mrs Blackwood - everyone enjoying and having wonderful time aboard

0730 EDT put SSS gear in - 2// lines @ Bothner's Sta. 5 - lines 2 nm long & 0.15 nm apart
nice geology along these lines - especially toward western end
200 m wire out
calm seas - very foggy - cold ≈ 40's

Proposed Sequence for Today's events
- Bothner's site 5
- Bothner's site 4
- Ron's line (≈8 nm) across .5 x 2 nm disposal area
- Bothner's site 9
- Bothner's site 2

Capt working on hawl winch -

1228 Z SOL 22
1328 Z EOL 22

during golf balls off backdeck - what a wonderful experience - should have been doing that for years

JD134
1345Z SOL 23 E→W line to cross ~~at~~ over Bothner site #5 & tie into line 21

≈ 1346Z passed #5 42° 08.08
70° 25.32

≈ 1349Z passed #5 42° 08.148
70° 25.347

~~1st~~

1135 EDT - on location @ BOTHNER site #4
setting positioned for 2 N-S parallel lines
≈ 300 m wire out

this is a test
this is a test

SOL 24 @ 1545Z : sidescan of Bothner site #4

1603Z EOL 24

CASH AWARD

1651Z EOL 25

HELP, I've fallen and I CAN'T REACH MY BEER!!

CASH AWARD

303-236-5717

13 May

207 745-9195

~~2025z~~ JD 134 2027 SOL 28

running S to N on 70°35' central tie line
all systems in H_2O
SSS @ 100kHz & 100 m
hardcopy on EG&G & EPC
sub-bottom @ 175; 1/2 sec fire, 1/4 sec swp
50 msec delay

2231 z JD 134 w/ 3.5 nm left on S-N center tie line (70°35') fish caught something and got cut at top of connector - down time has been roughly 36-40 hrs due to splicing, and port call for getting spares

hdg now for sample station "H" - will sample as many of remaining 8 station as possible - will let all go hit rack & start survey lines over Bothner's sites 2 & 9 on Thursday AM

CASH AWARD

Twin working on splice #10

have Memo for Mike

CASH AWARD

STA E #W533

42° 20.9975

-70 30.8029

135/0221

STA D #W556

42° 20.4951'

-70° 32.3030

135/0246

STA C #W486

42° 20.2448'

-70° 33.2436

135/0303

see page 36 for last 2 stations

JD 135 0302Z will finish sample sites 'A' & 'B'
on Thurs. - replotted Bothner sta. 2 - off by ≈ .75 nm

2330 EDT sampler on board - 2 samples left - sites 'A' & 'B'
will attempt to survey Bothner sites '2' & '9'
on Thur. AM about 0800 hrs

END OF DAY

5/14/92

8:10

Harassement of Babs by R^3

~~Wed~~ witnesses: R^3 - harasser - R^3
Babs - harassee -
(aka Barbara Seekins)
B.L.
witnesses:
C. Schneider
(Twig - Where can I get Sexually Harassed?)

14 MAY - JD 135

0825 EDT fish in H_2O - running 2-1.5 nm parallel lines over Bothner site #2 - lines run N to S

1355Z 1232Z SOL 29 - S to N line paralleling Bothner site "2"

1255Z EOL 29 due to LARGE AMTS of fishing gear in H_2O

1347Z ~~1404~~ Z SOL 30 slight deviation in CTS due to
1412Z EOL 30 fish gear - not much - ± 300 m

1420Z SOL 31 } lines for Bothner's
1446Z EOL 31 } site #9

Is this the last line?

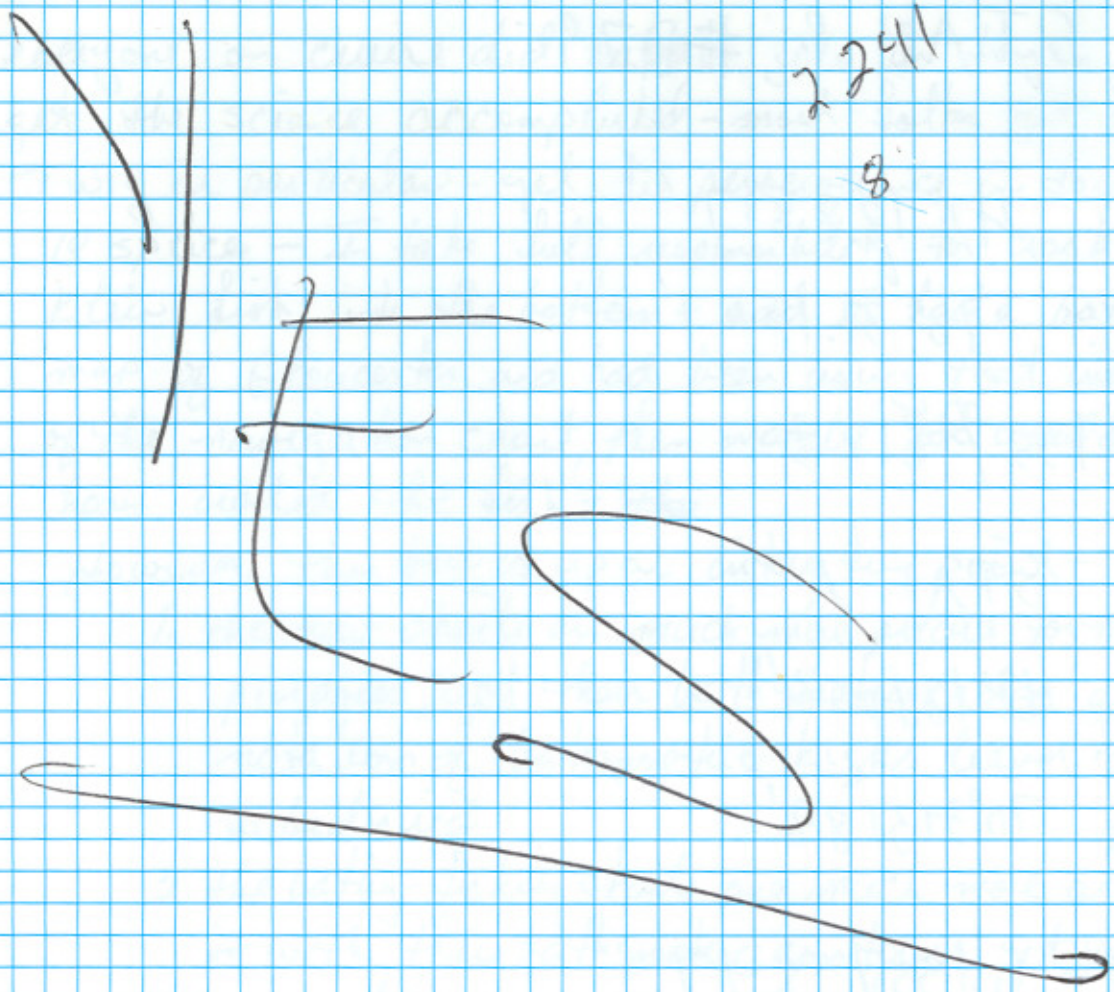
We

Hope

so!

2241

8



1552Z MR "MeFirst" Rendigs

135/1652 Z EOL 32

may 14

14 May 1400 EDT - began breaking down deck gear i.e. boomer, hydrophone, SSS, bathymetry - began breaking down electronics.

1700 EDT - (approx). arrived main CG base - Boston

STA B #D79

Lat: 42° 18.8897'

Lon: 70° 37.1507'

Time: 135/1812 Z

STA A

Lat 42° 18.1088'

Lon 70° 39.3188'

Time 135/1847

everyone on cruise did superb job in trying to get the science accomplished - most folks got frustrated Twig in particular - yet his perseverence in doing 10 splices - I take full responsibility for crashing the Klein fish into the bottom - had I had a bathy-fishing map of Gloucester and had been using that instead of the navigation chart, then maybe ~~we~~ I would not have crashed the fish - ~~the~~

However, this brings up an interesting point -

1. the nav charts are much more precise for navigation purposes, yet their bathymetric ridgs and their notation of bathymetric highs leaves <u>much</u> to be desired
2. the bathy-fishing charts are much more accurate ~~in~~ with their bathymetric contours yet their LORAN lines are not as accurate - it even states on the bottom of the chart - NOT FOR NAVIGATIONAL USE - this put the coastal scientist in an interesting conflict.

I must write a memo to each supervisor concerning the performance of each scientist, w/ CC to Batman & Knebel

NICHOLS - O'BRIEN

RENDIGS } BOTHNER
PALMENTER }

SEEKINS - NORTH

SCHNIEDER - RUTGERS

SODERBERG - KNEBEL?

BLACKWOOD - ZWINAKIS

- try to get Dawn to put out OFR on cruise using video - good for presentation to city & state folks and possibly even as a show & tell when selling coastal programs to Congress

- Memo to Phil Harman - MMA - RE crew of ARGO MAINE
  excellent job by Capt/Eng. in assisting TWIG in splicing efforts of EG&G SSS fish
  Al's excellent cooking
  outstanding bridge crew (DAVID, JOHN, Kevin) in doing their absolute best in avoiding all types of fishing gear, following lines in 0 visibility fog and steering & maintaining ~~station~~ sampling stations and learning the intricacies of following GPS navigation