92016 OCN'S 251 104945 92016109

OCEANUS 251 EVENT LOG

20-29 JULY 1992

7530 - 00 - 286 - 6952
FEDERAL SUPPLY SERVICE

EVENT LOG OCEANUS 251

20 JULY 1991 DEPART WOODS HOLE 1400

21 JULY 1991 (Julian Day 203)

0530 Arrive control site 39°25 70°40'
Prepare for AMS 120 deployment.

0650 Prepare to drop AMS 120
3.5 KHZ on but unclear

0710 Fish and chump weight in water
Headed down

0739- LOGGING SLANT-RANGE (STILL GOING DOWN).

0940 approach bottom ~240 m above bottom

400Z ⇐ 1000 acquiring bottom data - diddling with gains, timing. (not logging yet)

1500Z working on sub-bottom gains - record shows interference or at least, no sub bottom

1513Z Begin turn onto line, North across control site

(203) 1606Z START LINE 1 39°15.4'N 70°40'W course 000°
problems with fish kiting - difficult to stabilize alt.

1740Z targets on sonar boulders, mounds?

1743-1750 navigation poor

1800Z Crook calculates 2050 m aft for sled position.

2112Z Crook calculates 1560 m aft of ship
Aft of ship's bow chamber when transducer is
Possibly for accuracy we should calculate
offset masthead to bow chamber to compare
positions SATNAV LORANC etc to fish positions

Line 1 000° - shows westerly trending features.

2115 On 2600 m contour - depth increasing!
at ~39°21.7'N 70°40'W considering offset & tow length.

2230 END LINE 1 turn left, come around
toward start of line 2 heading SE.

JD 204 0036 START LINE 2 L2F1.DAT.

JD 204 – 0231 END LINE 2 AT CONTROL SITE
pull AMS,

waypoint for lineup & drop equip line 3
39-01.8, 71-49.0

204 0300 retrieving AMS.

JD 204 – 1128 FISH DEPLOYED - SHIP ON HEADING FOR LINE 3.
(*) NOTICED WHEN PROCESSING LINE 1 THAT WE LOSE THE FAR-RANGE DATA IF THE ALTITUDE DROPS BELOW ~80m. WILL ATTEMPT TO RUN ALL FUTURE LINES >100m ALTITUDE.

JD 204 – 1404Z line of depressions across data swath

1445Z request speed increase to 1.6 or 1.7 hoping to get 1.5 kn.

1617 feature on QMips = feature on 3.5kHz @ 1545 ?

1700 request speed increase by 0.1 knot.

2007 moated ~~bol~~ boulder ? stbd.

JD 205 0047 End line ~~4~~ 3
turn right, to north, to return along parallel line

(205) 0220 START LINE ~~4~~ 060°

JD(205) ~0500 HAVING ALL KINDS OF PROBS STABILIZING THE FISH ALTITUDE --- SHIP HEADING INTO WIND AND LIKELY A CURRENT (SPEED LOG INDICATES ~2.2kts WHILE GPS SPEED ~1.7kts).

0634Z → 3.5 kHz PAPER CHANGE
ROLL 2 0741Z – 3.5 kHz BACK ON LINE

JD(205) 0750Z – SEEING CROSSTALK IN FAR RANGE

~1800m

JD 205 0931Z - FISH IS 45 MIN BEHIND SHIP. @ 1.5 kts
1120Z - EXTENDING LINE 30 MIN PAST END POINT, THEN START PULLING IN FISH TO PREPARE FOR TURN.

1140 - END OF LINE 4
- SHORT HAUL FISH, TURN, PAY OUT
JD 205 1148 - START LINE 5
1258 - FISH ~1400 m BEHIND SHIP

23 JULY
(205) 2155 end line 5

(205) 2320 START LINE 6
2339 navigation glitch.

(206) 0111Z (@ M.ips) contact

(206) 0530Z BRIDGE IS HAVING PROBS MAINTAINING CRS & SPEED = FISH "PLUMETS" TOWARD THE BOTTOM @ 0550.

(206) 0700Z - LINE 6 - WE ARE GOING OVER "SLIDE DEPOSIT" AS INTERPRETED FROM GLORIA [AREA OF LOW B.S]. HOWEVER, AMS-120 SHOWS REAL LOW B.S. MUD & 3.5 kHz SHOWS >SUM OF SUBBOTTOM PENETRATION ... DON'T LOOK LIKE A MASS MOVEMENT DEPOSIT TO ME.

(206) ~0835Z ... GPS GETTING FLAKEY ... ONLY 2 GOOD SATELLITES WITH A THIRD @ LOW ELEVATION.

(206) 1000 - END OF LINE 6 - SHORTHAUL FISH FOR TURN.

(206) 1115 - START LINE 7
(206) 1141 - GPS GETTING FLAKEY AGAIN.
(206) 1525 - AMS-120 VOLTAGE VARIATION PROBLEM
BAD DATA ON FILE L7F4.DAT
1529 - QUIT Q-MIPS

24 July 92

Retrieving fish for repair
JD 206 1600 shut down 3.5kHz during retrieve

206-2046 Back on line AMS repaired -
connect/terminal was broken in clump weight.
Resume work at
Line 8: bag the rest of line 7

206-2200 start line 8: fish near bottom: record data

207-0018 file change. possible data loss
when I noticed that write light didn't blink.
Restart QMIPS (TOB)

207-0045 cross contact: rough to smoother bottom

58 at 1.5 87 hrs + 4 turns = 91 hrs.

START LINE 9 0402Z JD 207
START LINE 10 0542 JD 207
END LINE 10 0757 JD 207
HARDTIME WITH THE TURN
START LINE 11 0952 JD 207 CRS~090
TRACING JASON LINE

LINE 11 1205 JD 207
PREDOMINANT "STREAKING" TRENDS RUNNING
NW-SE SINCE THE START OF LINE.
WITH LITTLE/NO RELIEF.

1217 JD 207 - "STREAKS GETTING PROGRESSIVELY COARSER
& SEEING BLOCKS (BOULDERS?, CRUST).

1235 JD207 SEEING SOME MINOR RELIEF ON THE
STREAKS &
NOTED A DIFF. OF ~18m
BETWEEN WATER DEPTH MEASURED
ON 3.5kHz & SIDESCAN ---- VERY WIERD

@ 1249 JD 207, CROSSED LOW ON SS.... CORRELATES TO LOW ON 3.5 kHz ~ 50 MIN EARLIER

d (ss) = 2658 m
d (3.5 kHz) 2640 m

18 m DIFFERENCE IN 3.5 kHz & PRESSURE DEPTH.

i.e. *FISH COULD BE OFF TO STARBOARD SIDE OF SHIP ??? FEW 10's OF METERS.
ALSO WIRE ∡ TO STARBOARD.

1650 Z end line 11.
207 ~~1650 Z~~ START ~~TURN~~ Line 11 to LINE 12
& Hauling wire for turn

207 1734 START TURN
207 1825 START LINE 12
2211 a look at the 4.5 kHz subbottom profiler shows no truncations as cause of surface bed forms — level discontinuous reflectors near surface and a 70-m deep reflector — all level.

208 0000 —
38° 41.8 72° 06.3 fish appears by wire angle to be off to starboard side of track

0043 measure boulder 9.4 m wide
16.1 m long ← 183.9 m to side of track
4.55 m high
36 pings on target

numbers of holes ~~of~~ bright dark

(208) 0054 trench ?

0155 77 pings on target
37.7 m wide
54.5 m long 337 m to left of track
11.3 m high

25 JULY 1992 10:24 p

(208) 0224 Z Angular debris on QMIPS screen line 14
- w 41.3
l 177.6 364 m left 0220.8
h 15.7 177 pings on tgt.

0237 2 more objects - photo

0233 - target w 43.7
l 38.1 209 to right
h 16.5 62 pings on target

(208) 0306 w 17.7
l 31.9 198 m right
h 7.0 50 pings

0309 w 20.5
l 15.25 321. m right
h. 5.39 36 pings photo targets measure screen

(208) 0305 nose of debris [illegible] (?) on 3.5 kHz
[illegible] relief

(208) 0338 boulder 23.6 w 25.5 m to left
29.9 l 50 pings
13.5 h

(208) 0352 FISH IS ~45 MIN. BEHIND SHIP ~2600 m
@ 1.8 KTS

208-0445 small scale crag & tail - sw currents

(208) 0618 EOL 14
(208) 0807 SOL 15
RUNNING LINE 15 @ 1.8 KNOTS
(208) 0948 Z FISH FOLLOWING @ 3070 m
(208) 1235 Z END LINE 15
START TURN TO LINE 16 @ 1325

(208) 1440 S.O.L. 16

(208) 1629 target 37 [illegible]
497 long 342 to left
[illegible] high 894 [illegible]

(208) 2019 c/cse 260° to 264°

(208) 2110 END LINE 16 ; START LINE 17

(208) 2124 left side has flat-floored, straight edged area like channel 140 m across by QMips measure

does not appear to go into right side.
✓ small edges relief on 1st arrival

(208) 2149 flat-floored channel(?) across display
~~or if not channel~~

(208) 2305 ~~37~~ 4.98 sec slant range 3735 m. to fish

(208) 2355 TURN, END LINE 17
4.8 sec slant range:

~~208~~ 209 0045 start line 18 - survey at site 26-2600

very large, very many boulders?
0154 piles of v. large rocks 60 m across isolated targets.

0159 20 m deep hole ; valley?
0205 OUTCROPS ? or rills?

0230 level wind problem:

0249 isolated rock? target
0250 sled is 1700 m aft (: calc'ted)

(209) 0308 Z END LINE 18
(209) 0442 Z S.O.L. 19
(209) 0653 Z E.O.L. 19

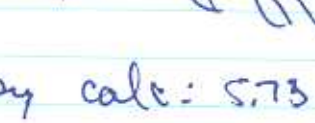
LINE 19 > PROBLEMS WITH WINCH --- EXTEND LINE TO CORRECT (FILE L19F3.DAT)

(209) 1100 Z S.O.L. 20
- NAVIGATION PROBS BEGIN ~1000 Z ---- LOSING DIFF. GPS. CONTROL STATION
- SWITCH TO LORAN C @ 1444 Z

[SUGGEST THAT LINE 20 NOT BE PROCESSED UNTIL END OF CRUISE (WITH EXCEPTION OF FILE L20 F4.DAT UNTIL E.O.L.]

(209) 2001 suggestions of "draping" crup

← 2024 these look more like 'bar-forms'



current formed ?

2010 fish 3008 m aft by calc: 5.73 sec

2049 seifs and barchans

(209) 2100 End line 21 turn
2358 2.36 km behind

(210) 0116 Z end line 22 Bring AMS aboard
3.5 KHz operating

(210) 0130 Z fish aboard N/W site 50-2100
(1134 local, 27 July)

(210) 0008 FISH IN WATER @ 50-2600
(210) 0807 Z S.O.L. 23

AT START OF LINE FISH APPROX 2100M BEHIND SHIP.

(210) 0917 FISH ~2700m BEHIND SHIP.

(210) 0942 EOL 23
~~(210) 0944 EOL 23~~
(210) 1111Z SOL 24 LAYBACK ≈3000m
(210) 1421Z EOL 24

1626 Fish aboard w/w Woods Hole
Running 3.5 KHz.

(210) 1630 Z maintaining 3.5 kHz watch
1230 local for knowing lcs.

— Navigation watch and data processing continue

	START	END	
L3F1 FL3F1 nave	12:58:40 13:01	15:12:01 15:13:09	
L3F2 FL3F2	15:12:50 15:13:09	17:27:04 17:27:16	
L3F3 FL3F3	17:27:10 17:27:16	19:41:28 19:41:24	
L3F4 FL4F4	19:41:40 19:41:24	21:55:51 21:56:29	
L3F5	21:56:00 21:56:29	00:10:15 00:03:28	
L4F1 fish	02:20:10 02:20:48	04:34:23 04:35:00	lulsa loopbacks
L4F2	04:34:30 04:35:00	06:48:45 06:49:08	~~one loop~~
L4F3	06:48:50 06:49:08	09:03:09 09:03:08	
L4F4	09:04:00 09:03:08	11:17:31 11:18:00	
L4F5	11:18:01	11:40:00	blowing off
L5F1 fish	12:48:10 12:54:09 → 12:48:09	15:02:27 15:02:01	
L5F2 fish	15:02:30 15:02:01	17:16:51 17:16:41	
L5F3	17:18:01 17:18:13	19:31:14 19:32:01	
L5F4	19:32:00 19:32:01	21:45:37 21:46:19	
L5F5	21:46:01 21:46:19	21:55:53 21:54:09	skip

sr p.os.linux.help

Coleman customer service

	START	END
L6F1 fresh	23:22:00 23:22:29	01:35:20 01:35:15
L6F2 fresh	01:36:00 01:35:15	03:49:43 03:49:34
L6F3	03:50:01 03:50:14	06:04:00 06:04:14
L6F4	06:04:20 06:04:14	08:18:30 08:18:54
L6F5	08:18:40 08:18:54	10:00:00 09:58:54
L7F1	11:16:00 11:16:41	12:45:08 12:45:21
L7F2	12:46:00 12:46:01	14:59:32 14:59:21
L7F3	15:00:01 15:00:21	15:26:51 15:25:41
L8F1	22:02:50 22:03:52	00:16:50 16:11
L8F3	00:28:11 00:27:31	02:42:39 02:43:31
L8F4	02:42:50 02:43:31	03:27:14 3:23:51 fix → 03:26:51
L9F1.nav	04:12:21 04:13:31 fix 04:12:31	05:42:24 05:41:51
L10F1.nav	05:42:30 05:42:51	07:56:48 ~~fix~~ 07:53:51 fix 07:56:11
L11F1.nav	09:52:00 9:53:31	12:06:22 12:06:31
L11F2	12:06:30 12:06:31	14:20:45 14:20:11
L11F3	14:20:50 14:21:11	16:35:08 16:35:31
L11F4	16:36:01 16:35:31	16:49:56 16:48:11 fix 16:49:31

id␣ hr␣ mn␣ sec␣ lat␣ lat␣ long␣ long

hr 2,2
min 9,2
sec 12,2
long 19,8
lat 30,7
depth 38,6
alt 46,5