R/V Ronald Brown 2002 (#02050)
105189

27 Aug - 15 Sep 2002

#105189 RONB HC02/RB0207
RONALD BROWN (#02050)
Hudson Canyon
Aug 27-Sep 15, 2002
J.Robb/P.Rona-Rutgers
EVENT LOG

Hudson Canyon Exploration
Cruise (HC Ø2)

RECORD

SCIENTIFIC
WATCH
EVENT LOG

7530-00-286-8363
FEDERAL SUPPLY SERVICE
(GPO)

Event log

ZULU TIME

WATCH CHANGES

TIME — WATCHSTANDER'S NAME/INITIALS

SEABEAM AND 3.5 kHz EVENTS

LINE START
LINE END
STATION START
STATION END

3.5 KHZ paper changes

ENTER EVERY 15 minutes

SEABEAM STATUS OPERATING
3.5 Hz STATUS NOT OPERATING

3.5 KHZ PAPER OK/not ok
3.5 KHZ image on screen ok?

ENTER ANY EVENT TIME/DESCRIPTION

ENTER

← SEABEAM MONITOR ok?
SEA VIEW IMAGE ok?

Model / Template Watchstander log.

TIME	EVENT
241/1428	new watch JR & TB
	SB ok
	3.5 ok
	paper ok
241/1520	SB not working, call Jonathon
241/1525	SB ok Jonathon turned it on

Initials:

Peter Rona = PAR	Rutgers University
James Robb = JR	U.S. Geological Survey
Tammy Middleton = TM	U.S. Geological Survey
Tom Bolmer = STB	Woods Hole Oceanographic Institution
Laura Cottrell = LDC	State University of New York/Stony Brook
Lisa Weiss = LW	Rutgers University

Time:
Log should be in GMT (Z) time which is local time (Q) + 4 hours

Mapping priority:
Strike lines 46 (deep water, middle of continental rise at about 3700m) to 5 (shallower water; upper continental slope at at water depth of about 500m)

Two types of data are recorded in this record book:
1) SeaBeam 2112 system
2) ODEC Bathy 2000 3.5 kHz subbottom profiling system
ODEC = Ocean Data Equipment Corp.

NOAA Ship RON BROWN
. Draft: 5.60 meters

Sea Beam:
Monitor: Bottom profile performance parameters
SeaView: Map of seafloor relief

JD Date/Time (GMT)	SeaBeam	Monitor/SeaView/Rack			3.5kHz	Monitor/Recorder		Initials
		LOG BEGINS 30 Aug 2002 (FRIDAY) (JD 242)						
~~8/30/02 = JD 242~~								
242/1152	off				off			JR
242/0805L = 1205Z								
1500Z								STB
1501Z								STB
1528Z								
1532Z		✓	✓	✓		✓	No signal	PAR
1600Z								KEK
1617								KEK
1630	✓	✓	✓	✓	✓	✓		KEK
1639								STB
1707	✓	✓	✓	✓	✓	✓	✓	KEK
1723Z	✓	✓	✓	✓	✓	✓	✓	KEK
1744Z	✓	✓	✓	✓	✓	✓	✓	KEK
17:56	✓	✓	✓	✓	✓	✓	✓	[illegible]
1812	✓	✓	✓	✓	✓	✓	✓	KEK
1827	✓	✓	✓	✓	✓	✓	✓	[illegible]
1844	✓	✓	✓	✓	✓	✓	✓	KEK
1900	✓	✓	✓	✓	✓	✓	✓	KEK
19:19	✓	✓	✓	✓	✓	✓	✓	[illegible]
19:37	✓	✓	✓	✓	✓	✓	✓	[illegible]
242/1949	✓	✓	✓	✓	✓	✓	✓	JR
242/2007	✓	✓	✓	✓	✓	✓	✓	JR
242/2015	✓	✓	✓	✓	✓	✓	✓	LMW
242/2031	✓	✓	✓	✓	✓	✓	✓	JR
242/2045	✓	✓	✓	✓	✓	✓	✓	JR
242/2057	✓	✓	✓	✓	✓	✓	✓	LMW
242/2118	✓	✓	✓	✓	✓	✓	✓	JR
242/2136	✓	✓	✓	✓	✓	✓	✓	LMW
242/2146	✓	✓	✓	✓	✓	✓	needs tune	JR
242/2151								
242/2155								
242/2200	✓	✓	✓	✓	✓	✓	Larry working on it	JR
242/2217	✓	✓	✓	✓	✓	✓	"	JR
242/2225								JR
242/2230	✓	✓	✓	✓	✓	✓	✓	JR

Comment (SeaBeam, 3.5kHz, ship, etc.) Initials

on station CTD-Rosette - Raining Water depth 3851m PAR
CTD/rosette HCO2-01 in water 37°41.41'N 70°57.36'W currents 3kts due E.
lost pinger (Datasonics) signal at about 1000m; using pressure depth; max depth 3860m
ctd at surface
ctd on board 37°40.9'N, 70°51.7'W
Start SeaBeam + ODEC BATHY 2000 (3.5kHz) line at 37°40.688'N 70°53.012'W
Start Logging SeaBeam; 3.5kHz on; heading for starting point of grid PAR
ON watch, ~~45 minutes to start of first line~~ Bathy file HCO2 Disk 1
started 8mm tape logging, ½ mile to start of first line Line 46
Apparently on line, 8mm tape 0% full 1621 on track line
1046.0 for 3.5 recording at start of writing
to Disk HCO2 disk 1 Jazz disk for
SEDY files 3knot ESE current
70°43.9148'W 37°52.7035'N
Passed over Canyon - SW wall 3975m
Out of Canyon 70°39.4081'W, 37°56.4547'N 3647m
Swathwidth 11.2km - bridge called to confirm
Dolphins off portside?
Crossing minor canyon: 70°32.1187'W, 38°2.5250'N ~3755m
70 40.2515W 37 53.7624N
Seafloor is shallowing gradually
WATCH CHANGE

Jonathon & Tom looking at seaview window for possible redraws.
TSD data show surface temp changes along this line
thermosalinograph
Bridge called to tell us about an upcoming turn
Larry working on 3.5 paper display
SHIP IN TURN
"
Ship lined up on next line turn complete 3.5 digital data are
Larry says he couldn't identify a specific problem: ~~data are~~ ok
Begin Line 45

2002

Date(JD) Time(Z)	SeaBeam Monitor	Da View	Rack	3.5kHz Monitor	Recorder	Initials
242/2245	ok	ok	ok	✓	✓	LR
242/2304	✓	✓	✓	✓	✓	"
242/2330	✓	✓	✓	✓	✓	"
242/2345	✓	✓	✓	✓	✓	LMW
242/2357						
243/0010	✓	✓	✓	✓	✓	LDC
243/0029	✓	✓	✓	✓	✓	LDC
243/0031	✓	✓	✓	✓	✓	LDC
243/0045	✓	✓	✓	✓	✓	LDC
243/0102	✓	✓	✓	✓	✓	LDC
243/0114	✓	✓	✓	✓	✓	LDC
243/0130	✓	✓	✓	✓	Gaps	PAR
243/0149	✓	✓	✓	✓	gaps	PAR
243/0200	✓	✓	✓	✓	gaps	PAR
243/0216	✓	✓	✓	✓	✓	LDC
243/0230	✓	✓	✓	✓	✓	LDC
243/0247	✓	✓	✓	✓	✓	LDC
243/0300	✓	✓	✓	✓	✓	LDC
243/0313	✓	✓	✓	✓	✓	LDC
243/0338	✓	✓	✓	✓	✓	LDC
243/0400	✓	✓	✓	✓	✓	LDC
243/0415	✓	✓	✓	✓	✓	KEK
243/0430	✓	✓	✓	✓	✓	KEK
243/0445	✓	✓	✓	✓	✓	KEK
243/0500	✓	✓	✓	✓	✓	KEK
243/0515	✓	✓	✓	✓	✓	KEK
243/0530	✓	✓	✓	✓	✓	KEK
243/0545	✓	✓	✓	✓	✓	KEK
243/0600	✓	✓	✓	✓	✓	KEK
243/0615	✓	✓	✓	✓	✓	DM
243/0630	✓	✓	✓	✓	✓	KEK
0650	✓	✓	✓	✓	✓	[illegible]
0705	✓	✓	✓	✓	✓	KEK
0715	✓	✓	✓	✓	✓	KEK
0730	✓	✓	✓	✓	✓	KEK
0740	✓	✓	✓	✓	✓	KEK
0800	✓	✓	✓	✓	✓	KEK
0815	✓	✓	✓	✓	✓	LMW
0829	✓	✓	✓	✓	✓	LMW
0846	✓	✓	✓	✓	✓	LMW
0900	✓	✓	✓	✓	✓	LMW

Comments Initials

online c/w sw. Line 45

SEABEAM TAPE 4% FULL ← MESSAGE
WATCH HANDED OVER - RONA / COTTRELL

WARNING: Tape is 4% Full ; STATUS: Archiving to tape has begun

Change Watch
coming to the end of the line
mid-way through turn
lined up for next line #44

70° 57.2413 W , 37° 51.2413 N

at edge of canyon
moving out of canyon
WARNING: TAPE IS 8% full

Archiving to tape is complete
70° 29.6496' W 38° 14.2159' N 12.0 Knts
Watch Handed over ✓

2002 Date (JD) Time (Z)	Seabeam Monitor	Sea View	Rack	3.5 kHz Monitor	Recorder	Initials
243/0912	✓	✓	✓	✓	✓	AMW
0920						
0926	✓	✓	✓	✓	✓	AMW
243/0945	✓	✓	✓	✓	✓	JR
0947	✓	✓	✓	✓	✓	JR
243/1000	✓	✓	✓	✓	✓	JR
1018	✓	✓	✓	✓	✓	JR
1035	✓	✓	✓	✓	✓	JR
1050	✓	✓	✓	✓	✓	AMW
1108	✓	✓	✓	✓	✓	JR
1126	✓	✓	✓	✓	✓	JR
1139	✓	✓	✓	✓	✓	AMW
1150	✓	✓	✓	✓	✓	AMW
243/1204	✓	✓	✓	✓	✓	LDC
243/1227	✓	✓	✓	✓	✓	LDC
243/1243	✓	✓	✓	✓	✓	PAR
243/1300	✓	✓	✓	✓	✓	LDC
243/1315	✓	✓	✓	✓	✓	LDC
243/1332	✓	✓	✓	✓	✓	PAR
243/1358	✓	✓	✓	✓	✓	PAR
243/1406	✓	✓	✓	✓	✓	PAR
243/1438	✓	✓	✓	✓	✓	PAR
243/1510	✓	✓	✓	✓	✓	PAR
243/1517	✓	✓	✓	✓	✓	PAR on line 42
243/1532	✓	✓	✓	✓	✓	PAR
243/1545	✓	✓	✓	✓	✓	KEK
243/1600	✓	✓	✓	✓	✓	KEK
1615	✓	✓	✓	✓	✓	KEK
1630	✓	✓	✓	✓	✓	KEK
1645	✓	✓	✓	✓	✓	KEK
1700	✓	✓	✓	✓	✓	KEK
1715	✓	✓	✓	✓	✓	KEK
1730	✓	✓	✓	✓	✓	KEK
1745	✓	✓	✓	✓	✓	[illegible]
1800	✓	✓	✓	✓	✓	KEK
1815	✓	✓	✓	✓	✓	KEK
1830	✓	✓	✓	✓	✓	KEK

Comments Initials

BRIDGE CALLED TO REPORT TURN End line 44 RMW
SHIP BEGINNING TURN ON SEAVIEW MONITOR RMW
Begin Line 43
Following Rea
ship on line for next

10:41: WARNING + TAPE IS 10% FULL
10:32 archiving to tape is complete

1150 APPROACHING EDGE OF SMALL CANYON
Change Shift

Crossing Hudson Canyon PAR

End line 43 and turn toward line 42 PAR
~~At~~ start of line 42 with increase in line spacing from 6 to 7 km PAR
· change ODEC BATHY 2000 3.5 kHz recorder from 30 min. to 1 hr. time marks
· heading into sea; ~~drop~~ reduce speed from 15 kts to 12 knots to maintain sampling density; heading into sea (sea coming from NE) and current going to NE.
change in watch

Warning: Tape is 13% Full 1633: Archiving to tape is complete
Bridge called to confirm that ~~to~~ new line 36 overlaps with old line 35 so, they took out line 35 in line #ing lines will go from 34 to 36 to reflect this.
over Hudson Canyon, CTD projected for 19:00 KEK
Warning: Tape is 14% Full 1733: Archiving to tape is complete

Crossing minor canyon
Warning: Tape is 14% Full Archiving to Tape has begun KEK

DATE(JD)/TIME(Z) YEAR 2002 = GMT	SeaBeam	Monitor	SeaVIEW	Rack	ODEC BATHY 2000 3.5kHz 3.5kHz Monitor	Recorder	Initial
243/1845	✓	✓	✓	✓	✓	✓	KEK
1855	stopped	stopped	stopped	stopped	stopped	stopped	KEK
1945	stopped	stopped	stopped	stp.	stopped	stopped	KEK
2000	"	"	"	"	"	"	KEK
2010							
2030							
2101							
2101	ON	ON	~~off~~ ~~on~~	ok	on	on	JR
2114							
2145	✓	✓	✓	✓	✓	✓	AMW
2200	✓	✓	✓	✓	✓	✓	AMW
2212	✓	✓	✓	✓	✓	✓	AMW
2225	✓	✓	✓		✓	✓	AMW
2241	✓	✓	✓		✓	✓	AMW
243/2245	✓	✓	✓	✓	✓	✓	JR
2305	✓	✓		✓	✓	✓	AMW
2319	✓	✓		✓	✓	✓	AMW
2338	✓	✓		✓	✓	✓	AMW
244/0012	✓	✓	✓	✓	✓	✓	LDC
244/0034	✓	✓	✓	✓	✓	✓	LDC
244/0054	✓	✓	✓	✓	✓	✓	LDC
244/0107	✓	✓	✓	✓	✓	✓	PAR
244/0128	✓	✓	✓	✓	✓	✓	LDC
244/0145	✓	✓	✓	✓	✓	✓	PAR
244/0155	✓	✓	✓	✓	✓	✓	PAR
244/214	✓	✓	✓	✓	✓	✓	LDC
244/1246	✓	✓	✓	✓	✓	✓	LDC
244/02:49	✓	✓	✓	✓	✓	✓	PAR

Comments | Initials

1833 Archiving to Tape complete KEK
Survey Halted For CTD, Tape is 15% full, Archiving Complete KEK
Lat 38.20.25 deg.min.sec. Long: -70:34:41 deg.min.sec KEK
CTD HC022 in water, currents 0.0332 E
heading 68.5 degrees CTD only, no rosette
Lat = 38.3428 N Long = -70.5782
CTD in water = 38° 20.51' N, 70° 34.62' W
Change in watch KEK
Retrieving CTD - on station. LR
still on sta LR
2101 Seabeam & main tape 15% full LR
complete CTD station -- returning to survey line.
Start Bathy - ~~Start~~ Su - 2114 AMW
Start SEABEAM - 2114 AMW

↳ Slowed ship down to 6 knots @ 2100 due to lost ping... running into high seas AMW
Heading into northeastern storm most of today; getting worse.

↳ Lost many beams over the last few minutes... 2147 AMW
- 2200 - SeaBeam View still a bit patchy → moving ~ 4-5 knots currently. AMW
2208 - TAPE IS 15% FULL - AMW
2209 - ARCHIVING TO TAPE COMPLETE AMW

Sounding data degrading under poor weather conditions. Ship speed ~ 4 kts

Continue to head into Northeastern storm with Vessel 4 seas running NE to SW along this track line (course 045°) at 3 knots to reduce quenching of transducers. PAR

End line 42 which turned NE into rough seas at about 3 kts with deterioration of data 38°33.4'N, 70°19.0'W

"SCSI detected parity error" - message from Seabeam, clicked "OK"
beginning turn
Successful turn, new line 41 begun 38°36.185'N, 70°22.482'W 231° 10 kts. PAR

ODEC BATHY 2000 System

DATE(JD)/TIME(Z) YEAR 2002 = GMT	SeaBeam	Monitor	Sea View	Rack	3.5kHz Monitor	Recorder	Initials
244/03:30		✓	✓	✓	Gap in record	Gap in record	PAR
244/0400	✓	✓	✓	✓	✓	Good	KEK
0420	✓	✓	✓	✓	✓	Bad	KEK
0430	✓	✓	✓	✓	✓	Nothing	KEK
0445	✓	✓	✓	✓	✓	Bad	KEK
0500	✓	✓	✓	✓	✓	Good	KEK
0515	✓	✓	✓	✓	✓	Good	KEK
0530	✓	✓	✓	✓	✓	✓	KEK
0546	✓	✓	✓	✓	✓	✓	TJM
0600	✓	✓	✓	✓	✓	✓	KEK
0615	✓	✓	✓	✓	✓	✓	KEK
0630	✓	✓	✓	✓	✓	✓	[illegible]
0648	✓	✓	✓	✓	✓	✓	[illegible]
0700	✓	✓	✓	✓	✓	✓	KEK
0715	✓	✓	✓	✓	✓	✓	[illegible]
0730	✓	✓	✓	✓	✓	✓	KEK
0746	✓	✓	✓	✓	✓	✓	[illegible]
0800	✓	✓	✓	✓	✓	✓	KEK
0815	ok	✓	✓	✓	✓	✓	JR
244/0830	✓	✓	✓	✓	✓	✓	JR
0849					✓	✓	
0900	✓	✓	✓	✓	✓	✓	JR
0915	✓	✓	✓	✓	✓	✓	JR
0930	✓	✓	✓	✓	✓	✓	JR
0950	✓	✓	✓	✓	✓	✓	JR
~~07~~ 1001 ~~0~~01	✓	✓	✓	✓	✓	✓	
~~0621~~ ~~0124~~ 1024	✓	✓	✓	✓	✓	✓	AMW
~~06470~~ 1047	✓	✓	✓	✓	✓	✓	JR
1100	✓	✓	✓	✓	✓	✓	[illegible]
1103							
1119	✓	✓	✓	✓	✓		AMW
1138	✓	✓	✓	✓	✓	✓	[illegible]
1156							
1158	SHUT DOWN	OFF	OFF	OFF	OFF	OFF	PAR
1159:36"	seabeam tape is 23% full"						
244/1436							
244/1948	off ⇒ Restarting						

Comment Initials

Right 10° to avoid NOAA weather buoy; will return to course when passed PAR

3.5K recorder printing out nothing KEK
"
3.5 recorder printing again KEK

3.5 K recorder working perfectly KEK

Watch handed over KEK
6.8 kts gently rolling occasionall beam losses
~~5. kts~~
Requested bridge slow ship - losing pings. +R
6.5 kts showing on nav screen : 5.9 to 7 show on seabeam
rolling, noisy

bridge call - end line 41 start rounding to line 40 +R

Bridge call prepare to start line 40.
Data poor
call bridge request slow ship : heading 357° track 40°

cease data collection, heave to, weather: JR.
shut down seabeam - 3.5 ~~shut~~ shut down / 1005:03 time left on bathytape (3.5) / Jaz drive.
Sea State 7, wind 30 kts from NE; seas to 17 feet from NE
Heave to into wind & sea
8mm tape 23% full
U/W North to reaccupy SW end line
will start seabeam and 3.5 as we transit.

ODEC Bathy 2002 3.5kHz System

DATE(JD)/ TIME(Z=GMT) YEAR 2002	SeaBeam	Monitor	SeaNav	Rack	3.5kHz Monitor	Recorder	Initials
244/1954	START	START	START	ON	START	START	JR
244/2000	ON	ON	ON	ON	ON	ON	JR
2015	✓	✓	✓	✓	✓	✓	JR
2030	✓	✓	✓	✓	✓	✓	"
2050	✓	✓	✓	✓	✓	✓	"
2130	✓	✓	✓	✓	✓	✓	JR
2151	✓	✓	✓	✓	✓	✓	JR
2207	✓	✓	✓	✓	✓	✓	JR
2219	✓	✓	✓	✓	✓	✓	AMW
2232	✓	✓	✓	✓	✓	✓	AMW
2259	✓	✓	✓	✓	✓	✓	AMW
2313	✓	✓	✓	✓	✓	✓	AMW
2334	✓	✓	✓	✓	✓	✓	AMW
2354	✓	✓	✓	✓	✓	✓	AMW
09/02/02 245 0015	✓	✓	✓	✓	✓	✓	PAR
245 0020	✓	✓	✓	✓	✓	✓	PAR
245/0105	✓	✓	✓	✓	✓	✓	PAR
245/0133	✓	✓	✓	✓	✓	✓	LDC
245/0140	✓	✓	✓	✓	✓	✓	PAR
245/0200	✓	✓	✓	✓	✓	✓	PAR
245/0222	✓	✓	✓	✓	✓	✓	PAR
245/0251	✓	✓	✓	✓	✓	✓	PAR
245/0305	✓	✓	✓	✓	✓	✓	PAR
245/0315	✓	✓	✓	✓	✓	✓	PAR
245/0333	✓	✓	✓	✓	✓	✓	PAR
245/0357	✓	✓	✓	✓	✓	✓	PAR
0410	✓	✓	✓	✓	✓	✓	KEK
0425	✓	✓	✓	✓	✓	✓	[illegible]
245/0429	error						LDC
0430							
0437							
04:49	✓	✓	✓	✓	✓	✓	[illegible]
0505	✓	✓	✓	✓	✓	✓	[illegible]
0523	✓	✓	✓	✓	✓	✓	[illegible]

Comment | Initials

Restart survey gear to run during transit north end line 40
BATHY "TAPE" HAS 1005hours, 1 min time left

TAPE IS 25% FULL - 2257 AMW

SHIP IS DELAYING TURN UNTIL OTHER VESSEL IS NO LONGER PRESENT. → 2338 AMW

ON TRACKLINE #40 → 2354 AMW

Begin trackline #40; run @ 10 kt pass NE to SW cr 220°
Good data
Good data
Good data

Good data
Good data: TAPE is 27% full
Good data
Good data: Northernmost tributary dead closes and ends
Good data: Starting over Hudson canyon
Good data: Hudson canyon crossing; both Hudson Canyons tributary are running north
Good data:
Good data

dks2d7vh [Alert] Aborted command: Initiator detected error (asc = 0x48, asq = 0x0)
Called Jonathan, he came down to check it out, it was an internal computer error, Jonathan asked us to call him when it happened. AM
Bridge called warning of bad weather, turn approaching in 2 hrs.
Data is degrading again, boat beginning to crab, keep losing beams down to less than 20. A
Jonathan asked us to call him when we get to the turn
Weather is degrading, boat speed 7 knots
boat speed is 6 knots
3.5 data is degrading too.

DATE (JD)/ TIME (Z=GMT) Year 2002	SeaBeam	Monitor	SeaView	Rack	3.5 kHz Monitor	Recorder	Initial
245/0530	✓	✓	✓	✓	Degraded	✓	KEK
0545	✓	✓	✓	✓	Degraded	✓	[illegible]
0600	✓	✓	✓	✓	Continued degradation	✓	[illegible]
0615	✓	✓	✓	✓	✓	✓	[illegible]
0630	✓	✓	✓	✓	same	✓	KEK
0645	✓	✓	✓	✓	degraded	✓	KEK
0658	✓	✓	✓	✓	✓	✓	KEK
0715	✓	✓	✓	✓	✓	✓	KEK
0730	✓	✓	✓	✓	improved	✓	KEK
0750	Marginal	✓	✓	✓	✓	✓	KEK
0755	shutdown	shutdown	sd.	sd.	shutdown	shutdown	KEK
245/0800	off	off			off	off	[illegible]
245/1404							LDC
245/1413	✓	✓	✓	✓	✓	✓	PAR
245/1430	✓	✓	✓	✓	✓	✓	PAR
245/1445	✓	✓	✓	✓	✓	✓	PAR
245/1500	✓	✓	✓	✓	✓	✓	PAR
245/1519	✓	✓	✓	✓	✓	✓	PAR
245/1531	✓	✓	✓	✓	✓	✓	PAR
1545	✓	✓	✓	✓	✓	✓	KEK
1608	✓	✓	✓	✓	✓	✓	KEK
1616	✓	✓	✓	✓	✓	✓	KEK
1628	✓	✓	✓	✓	✓	✓	LDC
1646	✓	✓	✓	✓	✓	✓	LDC
1702	✓	✓	✓	✓	✓	✓	KEK
1719	✓	✓	✓	✓	✓	✓	KEK
1732	✓	✓	✓	✓	✓	✓	KEK
1745	✓	✓	✓	✓	✓	✓	KEK
1803	✓	✓	✓	✓	✓	✓	KEK
1816	✓	✓	✓	✓	✓	✓	KEK
1830	✓	✓	✓	✓	✓	✓	KEK
1845	✓	✓	✓	✓	✓	✓	KEK
1900	✓	✓	✓	✓	✓	✓	KEK
1915	✓	✓	✓	✓	✓	✓	KEK
1930	✓	✓	✓	✓	✓	✓	KEK
1946	✓	✓	✓	✓	✓	✓	KEK
2000	✓	✓	✓	✓	✓	✓	[illegible]
2023	✓	✓	✓	✓	✓	✓	[illegible]
2045	✓	✓	✓	✓	✓	✓	AMW

Comment | Initial

Seas Building, ship crabbing

Ship still crabbing, speed 5.6 knots

Approaching turn in 5 Km
Bridge called, winds at 30kts from 150° SE, turning now
Tape is 30% full

Bridge called, almost out of turn
Bad data ~50%, seas getting rough
Shutting down due to rough seas & bad data. All stopped * KEK
Bathy storage shut down – bathy pinger remaining operating
Bridge called to say we are turning back on to line 39. Turning Sea beam on to see if we can get data

245 Tape 31% full. Bathy: 993 hrs 020 min left
1413 Start line 39 from SW end, c. ~045°; Edward, low PAR
that started off Jacksonville, is moving NNE along E. coast of Georgia
Start at 10 knots; reduce speed to 8 kts to reduce degradation 245/1429Z
245/1434Z Ship wallowing, speed reduced from 10 → 8 kts; ship
crabbing (decreased cross-track beamwidth)
Crabbing decreasing. KEK

Tape is 31% full, Archiving to tape is complete
Crabbing

Passing over Hudson Canyon

Blue Sky!
No more Blue sky, Tape is 33% full, archiving to tape is complete

over Hudson Canyon minor

new watch JR & LW on duty fog

DATE(JD)/ TIME (Z=GMT) YEAR 2002	JD 245 SeaBeam	Monitor	Sea View	Rack	3.5 kHz Monitor	Recording	Initial
2123	✓	✓	✓	✓	✓	✓	AMW
2139	✓	✓	✓	✓	✓	✓	AMW
2159	✓	✓	✓	✓	✓	✓	AMW
2206	✓	✓	✓	✓	✓	✓	AMW
2232	✓	✓	✓	✓	✓	✓	AMW
2246	✓	✓	✓	✓	✓	NOT OK	AMW
2304	✓	✓	✓	✓	✓	✓	AMW
2332	✓	✓	✓	✓	✓	✓	AMW
~~23~~							
245/ ~~2351~~	✓	✓	✓	✓	✓	✓	LR
246/ ~~0004~~	✓	✓	✓	✓	✓	✓	LDC
246/0028	✓	✓	✓	✓	✓	✓	LDC
246/0044	✓	✓	✓	✓	✓	✓	LDC
246/0059	✓	✓	✓	✓	✓	✓	LDC
246/0113	✓	✓	✓	✓	✓	✓	LDC
246/0135	✓	✓	✓	✓	✓	✓	PAR
246/0152	✓	✓	✓	✓	✓	✓	PAR
246/0216	✓	✓	✓	✓	✓	✓	PAR
246/0232	✓	✓	✓	✓	✓	✓	PAR
246/0245	✓	✓	✓	✓	✓	✓	PAR
246/0302	✓	✓	✓	✓	✓	✓	PAR
246/0317	✓	✓	✓	✓	✓	✓	PAR
246/0330	✓	✓	✓	✓	✓	✓	PAR
246/0343	✓	✓	✓	✓	✓	✓	LDC
246/0355	✓	✓	✓	✓	✓	✓	LDC
0419	✓	✓	✓	✓	✓	✓	GMM
0445	✓	✓	✓	✓	✓	✓	KEK
0452							KEK
0515	✓	✓	✓	✓	✓	✓	KEK
0530	✓	✓	✓	✓	✓	✓	KEK
0540							KEK
0600	✓	✓	✓	✓	✓	✓	KEK
0620	✓	✓	✓	✓	✓	✓	KEK
0636	✓	✓	✓	✓	✓	✓	KEK
0647	✓	✓	✓	✓	✓	✓	KEK
0700	✓	✓	✓	✓	✓	✓	KEK
0715	✓	✓	✓	✓	✓	✓	KEK
0736	✓	✓	✓	✓	✓	✓	GMM

Comment: Initial

Complete line 39 B 2139 dmw
↳ turning
2206 - Tape is 35% Full

Starting 38A (line) - 2219Z dmw VD 245 C ~ 225°

· Noticed printer error @ 2250 for Recorder
↳ had gone offline and now is set back OK.
(Spoke w/ Larry) dmw

2307 - Shawn @ bridge called. Holding @ 9 knots,
data looks good

Crossing Hudson Canyon 9 kts.
Good data
Good data
Good data
Good data
Good data 9 kts
Good data
Good data 9 kts.

Change Shift

Coming to the end of the line (38)

Bridge called, on line ~~38~~ 37 now

great data @ 9 kts,

Data coming in is really good

JD 246 = 3 September 2002

DATE(JD)/ TIME (Z=GMT) Year 2002	SeaBeam	Monitor	SeaView	Rack	3.5 kHz Monitor	Recorder	Initials
246/0800	✓	✓	✓	✓	✓	✓	JR
/0818	✓	✓	✓	✓	✓	✓	AMW
0831	✓	✓	✓	✓	✓	✓	AMW
0857	✓	✓	✓	✓	✓	✓	AMW
0919	✓	✓	✓	✓	✓	✓	AMW
0933	✓	✓	✓	✓	✓	✓	AMW
1003	✓	✓	✓	✓	✓	✓	AMW
1015	✓	✓	✓	✓	✓	✓	JR
1033	✓	✓	✓	✓	✓	✓	JR
1057	✓	✓	✓	✓	✓	✓	AMW
1111	✓	✓	✓	✓	✓	✓	AMW
1130	✓	✓	✓	✓	✓	✓	AMW
1156	✓	✓	✓	✓	✓	✓	AMW
1223	✓	✓	✓	✓	✓	✓	PAR
246/1233	✓	✓	✓	✓	✓	✓	PAR
246/1250	✓	✓	✓	✓	✓	✓	LDC
246/1300	✓	✓	✓	✓	✓	✓	PAR
246/1308	✓	✓	✓	✓	✓	✓	LDC
246/1327	✓	✓	✓	✓	✓	✓	PAR
246/1355	✓	✓	✓	✓	✓	✓	PAR
246/1410	✓	✓	✓	✓	✓	✓	LDC
246/1422	✓	✓	✓	✓	✓	✓	PAR
246/1445	✓	✓	✓	✓	✓	✓	PAR 10 bts
246/1518	✓	✓	✓	✓	✓	✓	LDC
246/1542	✓	✓	✓	✓	✓	✓	PAR
1600	✓	✓	✓	✓	✓	✓	KEK
1610	✓	✓	✓	✓	✓	✓	KEK
1611	IDLE	✓	IDLE	✓	Shutdown	Shutdown	KEK
246/1823	✓	✓	✓	✓	✓	✓	KEK
1827							KEK
1828							KEK
1844	✓	✓	✓	✓	✓	✓	[illegible]

Comment Initials

0807 - TAPE 41% FULL LMW
0900 - CROSSING ONTO HUDSON CANYON - LMW

1042 - Shawn called and said they picked up a current and sped up... still getting quality data. LMW

1107 - TAPE IS 42% FULL LMW

1201 - WATCH HANDED TO RONA LMW

Good data; running this line at 9 kts.
246/1233 End line 37 (run SW-NE c.~045°)

On turn ~~between~~ from line 37 to line 36 (c.220°)
Tape 44% full
246/1327 Starting line 36 NE end and will run c. 220°
Relief of Hudson Canyon is about 710 m at this water depth.
246/1354: 8.7 kts speed over ground; waiting for small generator to come onto line to increase to 10 kts. ≤ 10 kts necessary for 50m gridding intervals (i.e., ping spacing distance covered on seafloor).
Time: to reduce turn time ship will change from running 10 minutes beyond line and squaring off turns (10 min) to 5 minutes beyond lines and making triangular turns (5 minutes); watch data to see if roll/pitch/heave (RPH) sensors stabilize
ADCP sensor indicates no surface current here (versus prior lines with surface current 3 kts to east in Gulf Stream)
Tape is 45% full.
Shutdown & IDLE for CTD 38° 32.9460N Lat; 071 00.6178W Long

CTD in water Cast HC023 LM
CTD depth 2950 2999-bottom Start 38°33.94'N
CTD at bottom 38.5489, -71.0125 71°00.76'W
CTD only; no rosette
17:19 46% of tape is full.
CTD at surface 18:05 38.5488 -71.0125
Seabeam started with new velocity profile
96 hr, 06 min of recording time remaining KEK
Tape is 46% full, Archiving to tape is complete
Incoming data is good

DATE(JD) SeaBeam 2112 3.5 kHz ODEC Bath 2000

TIME(Z=GMT+4) Year 2002	Monitor	SeaView	Rack	Monitor	Recorder	Initials
246/1900	✓	✓	✓	✓	✓	KEK
246/1915	✓	✓	✓	✓	✓	KEK
1932	✓	✓	✓	✓	✓	KEK
1945	✓	✓	✓	✓	✓	KEK
46/2000	✓	✓	✓	✓	✓	KEK
2104	✓	✓	✓	✓	✓	AMW
2124						
2126						
2130	✓	✓	✓	✓	✓	JR
2136	✓	✓	✓	✓	✓	JR
2155	✓	✓	✓	✓	✓	AMW
2213	✓	✓	✓	✓	✓	JR
2242	✓	✓	✓	✓	✓	AMW
2320	✓	✓	✓	✓	✓	JR
2351	✓	✓	✓	✓	✓	AMW
247/0002	✓	✓	✓	✓	✓	PAR
247/0021	✓	✓	✓	✓	✓	PAR
247/0037	✓	✓	✓	✓	✓	LOC
247/0146	✓	✓	✓	✓	✓	PAR
247/0105	✓	✓	✓	✓	✓	LOC
247/0136	✓	✓	✓	✓	✓	LOC
247/0205	✓	✓	✓	✓	✓	PAR
247/0219	✓	✓	✓	✓	✓	LOC
247/0230	✓	✓	✓	✓	✓	PAR
247/0300	✓	✓	✓	✓	✓	PAR
247/0319	✓	✓	✓	✓	✓	PAR
247/0330	✓	✓	✓	✓	✓	PAR
247/0341	✓	✓	✓	✓	✓	
0416	✓	✓	✓	✓	✓	[illegible]
0422	✓	✓	✓	✓	✓	KEK
0441	✓	✓	✓	✓	✓	KEK
0452	✓	✓	✓	✓	✓	KEK
0515	✓	✓	✓	✓	✓	KEK
0538	✓	✓	✓	✓	✓	KEK

Comment | Initials

watch handed over KEK

tape is 47% full JR
Archiving to tape is complete JR

bridge call - end ~~of~~ line turn to next

line 34B starts (to NE)

~10kts; requested 11 knots - bringing another small generator on line in PAR
about 30 minutes; will try speeding at 100m grid (presently 50m
grid) to check for stretch marks.
247/0046 increase speed from 10kts to 11 kts.
Note: today ~~and~~ yesterday JD 245 and 246 we observed
an increase in rib pattern on ~~processed~~ ~~real~~ Sea Beam
records attributed to lack of stabilization of the roll-pitch-heave
(RPH) sensor (washboard pattern) = HIPPY: suspect
HIPPY malfunction; T. Bolmer message to T. Stepka.

247/0341 End Line 34
247/0410 Start line 33
* Good data until 0800Z shutdown; restart at 1400Z, Mon. 245 JD.
Bad data masked by rough seas making more bad data, also large change in contour
interval masked problem. Problem in data ~12.5m deviation. Possible cause: Hippy,
check VRU in the Sea Beam 2100 Maintenance Manual, possible VRU problem or
Backplane voltage problem caused during idle mode. (see 7-34, in maintenance manual)
KEK

Tape is 52% full, Archiving to tape complete. KEK

DATE(JD) TIME(Z=GMT) Year 2002	Sea Beam 2112 Monitor	SeaView	Rack	3.5kHz Monitor	ODEC Recorder	Battery 2000 Initials
247/0555	✓	✓	✓	✓	✓	KEK
247/0610	✓	✓	✓	✓	✓	KEK
0630	✓	✓	✓	✓	✓	KEK
0650	✓	✓	✓	✓	✓	KEK
0700	✓	✓	✓	✓	✓	KEK
0715	✓	✓	✓	✓	✓	KEK
0730	✓	✓	✓	✓	✓	KEK
0745	✓	✓	✓	✓	✓	KEK
0755	✓	✓	✓	✓	✓	KEK
247/0815	✓	✓	✓	✓	✓	JR
0906	✓	✓	✓	✓	✓	JR
0936	✓	✓	✓	✓	✓	JR
0938						JR
~~1005~~ 1005	✓	✓	✓	✓	✓	JR
1016	✓	✓	✓	✓	✓	AMW
1034	✓	✓	✓	✓	✓	AMW
247/1119	✓	✓	✓	✓	✓	JR
1140	✓	✓	✓	✓	✓	AMW
247/1159	✓	✓	✓	✓	✓	LOC
247/1215	✓	✓	✓	✓	✓	PAR
247/1305	✓	✓	✓	✓	✓	LOC
247/1324	✓	✓	✓	✓	✓	PAR
247/1337	✓	✓	✓	✓	✓	LOC
247/1355	✓	✓	✓	✓	✓	PAR
247/1416	✓	✓	✓	✓	✓	LOC
247/1449	✓	✓	✓	✓	✓	PAR
1515	started	✓	✓	✓	✓	KEK
1605						
1623	✓	✓	✓	✓	✓	KEK
1630	✓	✓	✓	✓	✓	KEK
1638						KEKEK
1648	✓	✓	✓	✓	✓	KEKJT
1703	✓	✓	✓	✓	✓	KEK
1719	✓	✓	✓	✓	✓	[illegible]

Comments | Initials

Tape is 52% full, Archiving to tape complete

Tape is 53% full, Archiving to tape is complete KEK

finish line 33 (c.220°) start turn 0938
on line start line 32 in 4 mile 1005
(c.045°)

TAPE IS 55% FULL RMW 1025

Noticed that time on SeaBeam tape archive is different than other time - 1025 RMW
↳ Going to speak to Larry about it
Time among computers is not synched to Z. However
ODE 35 time & Lat-lon come from seabeam processor ...
On some washboard condition of SeaBeam record; likely cause is faulty HIPPY (per Larry Loewen) HIPPY = heave-pitch-roll compensator; cannot be repaired at sea Tom Bower running various tests; washboard pattern remains. Awaiting response to e-mail to Tom Stephens at 1400Z e-mail exchange. PAOR

Continued 11kts in smooth water

1450Z Shut system to dead; save survey screen; reboot; save point in Varian & receiver line.
1456Z Actual shutdown.
1515 System Restarted and back running
Changing Tape
1 minute to turn ; end of line 32

Tape is 0% Full
start of line 31 KEK

DATE (JD) TIME (Z=GMT) YEAR 2002	SeaBeam 2112 Monitor	SeaView	Rack	3.5kHz ODEC Bathy Monitor	Recorder	Initials
247/1730	✓	✓	✓	✓	✓	KEK
1756	✓	✓	✓	✓	✓	[illegible]
1814	✓	✓	✓	✓	✓	KEK
1854	✓	✓	✓	✓	✓	[illegible]
1859	✓	✓	✓	✓	✓	KEK
1934	✓	✓	✓	✓	✓	KEK
2029	✓	✓	✓	✓	✓	KMW
247/2048	✓	✓	✓	✓	✓	JR
2058	* note	✓	✓	✓	✓	✓
208	✓	✓	✓	✓	✓	KMW
2123	✓	✓	✓	✓	✓	KMW
2151	✓	✓	✓	✓	✓	KMW
2200	✓	✓	✓	✓	✓	JR
2310	STARTING SEABEAM			3.5 operating ok		
~~2314~~	~~START on line 30~~					
2315	seabeam rebooting					
2336	seabeam still down					
248/0016	seabeam back up and running. begin line 30				seabeam version 1.2.5	
248/0029	✓	✓	✓	✓	✓	✓
248/0048	✓	✓	✓	✓	✓	✓
248/0108	✓	✓	✓	✓	✓	✓
248/0119	✓	✓	✓	✓	✓	✓
248/0149	✓	✓	✓	✓	✓	✓ PAR
248/0200	✓	✓	✓	✓	✓	PAR
248/0220	✓	✓	✓	✓	✓	PAR
248/0250	✓	✓	✓	✓	✓	PAR
248/0300	✓	✓	✓	✓	✓	PAR

Comment | Initials

Fire drill & Abandon Ship drill @ ~~1830~~ 1830 z
1859 Pulse width changed to 10 milliseconds, ping number 1343. KEK

19:44 - Marking spot, short down of Sea Beam system to swap operating systems and then restart.

20:11 SEABEAM SYSTEM STARTED UP AGAIN - PINGING BUT NOT SURVEYING
(1.2.7 ~~old~~ former version)

20:12 SURVEY STARTED / 1.2.5 new version

skimmer ~~message~~
software error 16; but still writing pings

OBLAN - No carrier / transciever carrier problem 2130 AMW

Shawn getting ready to cross over 31A and beginning turn - 2243 AMW

Shutting down SEABEAM - 2252 → old operating system
↳ John called bridge to tell them (1.2.5 system)

2309
start new line 5 minutes.
2310 start Seabeam with v 1.2.7.5: clean install. This is program that ran good data for most recent few hours.
ship turning to re-start line 30.

248/0016 Begin line 30 using Sea View software version 1.2.5
248/0021 knots. 248/0025 On line 30; run course ~045°

11 knots: good data

DATE (JD) TIME (Z=GMT) 2002	SeaBeam 2112				3.5 kHz ODEC Bathy 2000		
		Monitor	Sea View	Rack	Monitor	Recorder	Initials
248/0321		✓	✓	✓	✓	✓	PAR
248/0337	✓	✓	✓	✓	✓	✓	LDC
248/0351Z		✓	✓	✓	✓	✓	PAR
0408	✓	✓	✓	✓	✓	✓	[illegible]
0426	✓	✓	✓	✓	✓	✓	KEK
0447	✓	✓	✓	✓	✓	✓	KEK
0457	✓	✓	✓	✓	✓	✓	KEK
0515	✓	✓	✓	✓	✓	✓	[illegible]
0530	✓	✓	✓	✓	✓	✓	KEK
0547	✓	✓	✓	✓	✓	✓	[illegible]
0600	✓	✓	✓	✓	✓	✓	[illegible]
0606							KEK
0625	✓	✓	✓	✓	✓	✓	[illegible]
0641	✓	✓	✓	✓	✓	✓	KEK
0700	✓	✓	✓	✓	✓	✓	KEK
0715	✓	✓	✓	✓	✓	✓	KEK
0734	✓	✓	✓	✓	✓	✓	[illegible]
0747	✓	✓	✓	✓	✓	✓	[illegible]
0800	✓	✓	✓	✓	✓	✓	KEK
0821	✓	✓	✓	✓	✓	✓	JR
0844	✓	✓	✓	✓	✓	✓	JR
0900	✓	✓	✓	✓	✓	✓	dMW
0921	✓	✓	✓	✓	✓	✓	dMW
0935	✓	✓	✓	✓	✓	✓	JR
0958	✓	✓	✓	✓	✓	✓	dMW
1048	✓	✓	✓	✓	✓	✓	dMW
1100	✓	✓	✓	✓	✓	✓	dMW
1107	✓	✓	✓	✓	✓	✓	JR
1130	✓	✓	✓	✓	✓	✓	dMW
248/1200	✓	✓	✓	✓	✓	✓	JR
248/1224	✓	✓	✓	✓	✓	✓	LDC
248/1256	✓	✓	✓	✓	✓	✓	LDC
248/1309	✓	✓	✓	✓	✓	✓	LDC
248/1348	✓	✓	✓	✓	✓	✓	LDC
248/1438	✓	✓	✓	✓	✓	✓	LDC
248/1505	✓	✓	✓	✓	✓	✓	PAR
1540	✓	✓	✓	✓	✓	✓	KEK
1600	✓	✓	✓	✓	✓	✓	KEK
1619	✓	✓	✓	✓	✓	✓	KEK
1630	✓	✓	✓	✓	✓	✓	KEK
1645	✓	✓	✓	✓	✓	✓	KEK

Comment | Initials

11 knots.

11 knots Bridge called 0536, 5 minutes to the end of the line line 30

Bridge called, 5 minutes 'til we get back on line 29 0606 KEK

Watch handed over

1107 bridge call: end 29A: turning

1131 CROSSING ONTO LINE 28 - LMW 124-125 beams reported

Continue at 11 kts., smooth seas; crossing Hudson Canyon
Watch handed over

Bridge called, end of line 28

DATE(JD) TIME(Z=GMT) YEAR 2002	SeaBeam 2112 Monitor	SeaView	Rack	3.5 kHz DEEP BATHY 2000 Monitor	Recorder	Initials
248/1700 09/05/02	✓	✓	✓	✓	✓	✓	KEK
248/1722	✓	✓	✓	✓	✓	✓	KEK
1723							KEK
1724							
248/1930		✓	✓	✓	✓	✓	PAR
248/2000	✓	✓	✓	✓	✓	✓	JR
2050	✓	✓	✓	✓	✓	✓	AMW
~~2115~~							
2115							[illegible]
2207	✓	✓	✓	✓	✓	✓	JR
2238	✓	✓	✓	✓	✓	✓	AMW
2330	✓	✓	✓	✓	✓	✓	JR
2335	✓	✓	✓	✓	✓	✓	
2345							
248/ 09/06/02 0002	✓	✓	✓	✓	✓	✓	[illegible]
249/0013	✓	✓	✓	✓	✓	✓	LDC
249/0030	✓	✓	✓	✓	✓	✓	[illegible]
249/0058	✓	✓	✓	✓	✓	✓	LDC
249/~~100~~ 0105Z	✓	✓	✓	✓	✓	✓	PAR
249/0124	✓	✓	✓	✓	✓	✓	LDC
249/0150	✓	✓	✓	✓	✓	✓	LDC
249/0212Z	✓	✓	✓	✓	✓	✓	PAR
249/0235	✓	✓	✓	✓	✓	✓	PAR
249/0259	✓	✓	✓	✓	✓	✓	LDC
249/0326	✓	✓	✓	✓	✓	✓	PAR
249/0340	✓	✓	✓	✓	✓	✓	LDC
0400	✓	✓	✓	✓	✓	✓	KEK
0415	✓	✓	✓	✓	✓	✓	KEK

Comment | Initials

248/1700, In turn to line 27 — KEK

248/1709, Bridge called, we are 5 minutes from line 27, ~~the CTD~~ time to CTD is 30 min.

~~19~~ 920 hr 21 min left Tape is 11% full

Fatal Software error 16 Archiving to tape is complete

CTD HC02-4, 2734 m water depth, rosette taken N. side of Hudson Canyon.

CTD out of water start:

39° 10.0'N 71° 00.0'W

Restart 3.5 19:24 HC02 Disk1

RB0207

Time left: 920:19 Header = 32

Restart SeaBeam 19:27 - Tape 11% full

Continue on line 27 c ~ 220° ~~Hts~~. 11.4 knots

Note: Vertical sounding velocity updated to CTD HC02-4

Vertical sounding velocity has been updated after PAR each of the 4 CTDs to date.

- Currently exceeding 11 knots - we are going to plot out data and see if we can maintain this speed.

tape 22% full

speed ~ 11.4

Fatal Software Error - 16 - 2300

11.3 knots

Black box switched off accidently, sea view comp. screen froze until it was turned back on

End of Line 27 (c.220); turning round line 26 (c.045)

- 249/0105Z ~~on~~ begin line 26, c.~045°, speed 11.3 knots

249/0212Z ~~on line~~ 11.2 kts. c. 043° smooth seas 121-125 beams receiving

3.5 kHz shifted scale & reduced output; Chief ET Larry Loewen consulted - O.K. PAR Auto power at 0 dB indicating no attenuation. chirp becomes audible in Pelagic Lab.

Change in watch 0343 KEK

Warning: Tape is 14% full ; FATAL Software Error 16 [10] KEK

DATE (J.D.)
TIME (Z=GMT)
YEAR 2002

Sea Beam 2112 — 3.5 kHz ODEC BATHY 2000

	Monitor	Sea View	Rack	Monitor	Recorder	Initials
249/0438	✓	✓	✓	✓	✓	KEK
0459	✓	✓	✓	✓	✓	[illegible]
0520	✓	✓	✓	✓	✓	KEK
0545	✓	✓	✓	✓	✓	KEK
0604	✓	✓	✓	✓	✓	KEK
0620	✓	✓	✓	✓	✓	KEK
0630	✓	✓	✓	✓	✓	KEK
0650	✓	✓	✓	✓	✓	KEK
0702	✓	✓	✓	✓	✓	KEK
0720	✓	✓	✓	✓	✓	KEK
0740	✓	✓	✓	✓	✓	KEK
0758	✓	✓	✓	✓	✓	[illegible]
249/0815	✓	✓	✓	✓	✓	JR
0845	✓	✓	✓	✓	✓	JR

6 September 2002

249/0907 on station ctd/samples.

249/1135 station complete: bringing up seabeam; re-join line

	Monitor	Sea View	Rack	Monitor	Recorder	Initials
1139	✓	✓	✓	✓	✓	✓
249/1200Z	✓	✓	✓	✓	✓	✓	PAR
1230Z	✓	✓	✓	✓	✓	✓	PAR
1300Z		✓	✓	✓	✓	✓	PAR
249/1330Z		✓	✓	✓	✓	✓	PAR
249/1402		✓	✓	✓	✓	✓	PAR
249/1430		✓	✓	✓	✓	✓	PAR
249/1445	✓	✓	✓	✓	✓	✓	LDL
249/1502		✓	✓	✓	✓	✓	PAR
249/1513	✓	✓	✓	✓	✓	✓	LDL

Comment Initials

0607 Bridge called, 5 minutes to the turn.

Bridge called 0634, 5 minutes til line 25
Warning: Tape is 19% full ; FATAL Software error 16, Archiving to tape complete KEK

Axis of Hudson Canyon CTD/rosette
ship slowed; approaching CTD/sampler station in HC axis
0847Z Maximum depth 2870m over axis 39°02.26'N 071 21.94'W
will hold with auto pilot during CTD HC02-5
Bathy has 902.20 hours of storage on 0 DEC Bathy 2000
3.5 kHz.

error message sequence
skimmer monitor: 0902:27 warning [4] Tape is 20% full
0902:27 STATUS [1] archiving to tape has begun
red → 0902:27 FATAL [10] software error 16.
0903:11 STATUS [3] archiving to tape is complete

0902 - TAPE IS 20% FULL
↳ FATAL SOFTWARE ERROR

systems operating: ship maneuvering to line 25 ne of canyon.
JD 249
1200Z Underway after CTD/rosette HC02-5; backup ~1 nm NE of Hudson Canyon and rerun trackline over canyon (see note at 249/1139)
1205Z c. 225° 11 knots Continue SW along line 25

1300Z 11 knots

11 knots, smooth seas; on trackline 25 c 225°

249/1502 ~~HC~~ 11.4 kts, smooth seas, trackline 25, c. 225°
call from bridge - 0.1 mile from end of line 25

DATE (J.D.) TIME (Z=GMT) YEAR 2002	Sea Beam 2112 Monitor	Sea View	Rack	3.5kHz ODEC Battery 2000 Monitor	Recorder	Initials
9/6/02 249/1545	✓	✓	✓	✓	✓	PAR
249/1545	✓	✓	✓	✓	✓	PAR
1604	✓	✓	✓	✓	✓	KEK
1617	✓	✓	✓	✓	✓	KEK
1630	✓	✓	✓	✓	✓	KEK
1650	✓	✓	✓	✓	✓	KEK
1700	✓	✓	✓	✓	✓	KEK
1718	✓	✓	✓	✓	✓	KEK
1732	✓	✓	✓	✓	✓	KEK
1754	✓	✓	✓	✓	✓	KEK
1816	✓	✓	✓	✓	✓	KEK
1830	✓	✓	✓	✓	✓	KEK
1850	✓	✓	✓	✓	✓	KEK
1905	✓	✓	✓	✓	✓	KEK
1928	✓	✓	✓	✓	✓	KEK
1935	✓	✓	✓	✓	✓	KEK
1954	✓	✓	✓	✓	✓	LR
2014	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2104	✓	✓	✓	✓	✓	AMW
2133	✓	✓	✓	✓	✓	AMW
249/2146	✓	✓	✓	✓	✓	LR
2208	✓	✓	✓	✓	✓	AMW
2223	✓	✓	✓	✓	✓	AMW
2242	✓	✓	✓	✓	✓	AMW
2328	✓	✓	✓	✓	✓	AMW
2350	✓	✓	✓	✓	✓	AMW
JD 250 September 7, 2002 0000	✓	✓	✓	✓	✓	PAR
0039	✓	✓	✓	✓	✓	PAR
250/0056	✓	✓	✓	✓	✓	LOC
0031		✓	✓	✓	✓	PAR
250/0200						
250/0207	✓	✓	✓	✓	✓	LOC
250/0233		✓	✓	✓	✓	PAR
250/0254Z		✓	✓	✓	✓	PAR
250/03:23Z		✓	✓	✓	✓	PAR
0415	✓	✓	✓	✓	✓	[illegible]
0446	✓	✓	✓	✓	✓	[illegible]
0501	✓	✓	✓	✓	✓	[illegible]
0515	✓	✓	✓	✓	✓	KEK
0530	✓	✓	✓	✓	✓	KEK
0545	✓	✓	✓	✓	✓	[illegible]

Comment	Initials
249/1515 End line 25 c. 225° 11 kts.	PAR
249/1545 Start line 24 c. 045° 11 kts	PAR
Watch handed over at 1552	KEK

Tape is 20% full

1730	Air Conditioning failure, 1740, crew looked at problem, called Bridge	KEK
1741	Fatal Software Error 16, Tape is 21% full, Archiving to tape complete	KEK

over Hudson Canyon

Tape is 26% full; FATAL Software Error 16 KEK

Finished line 24 - 2115 - BEGINNING TURN AMW

STARTED ON LINE 23 - 2137 - AMW

TAPE IS 28% FULL - 2238 → FATAL SOFTWARE ERROR

← 11 knots, smooth seas, c. 225°

← Continue c. 225°, ~~13~~ 11 knots, smooth seas; recovery on 118-124 beams

250/0254Z at end of line 23

250/0323Z Start line 22 045° 11 knots, smooth seas

Change of watch from Laura & Peter to Jammie and Kyle.

DATE (J.D.) TIME (Z=GMT) YEAR 2002		Sea Beam 2112 Monitor	Sea View	Rack	3.5 kHz ODEC Monitor	Recorder	Bathy 2000 Plotrack
250/0600		✓	✓	✓	✓	✓	KEK
0615		✓	✓	✓	✓	✓	KEK
0632	✓	✓	✓	✓	✓	✓	[illegible]
0651	✓	✓	✓	✓	✓	✓	[illegible]
0707	✓	✓	✓	✓	✓	✓	KEK
0720		✓	✓	✓	✓	✓	KEK
0734		✓	✓	✓	✓	✓	KEK
0748		✓	✓	✓	✓	✓	KEK
250/0800	✓	✓	✓	✓	✓	✓	JR
/0823	✓	✓	✓	✓	✓	✓	AMW
/0920	✓	✓	✓	✓	✓	✓	JR
0931	✓	✓	✓	✓	✓	✓	JR
1000	✓	✓	✓	✓	✓	✓	JR
1030	✓	✓	✓	✓	✓	✓	JR
1100	✓	✓	✓	✓	✓	✓	JR
1145	✓	✓	✓	✓	✓	✓	JR
1200	✓	✓	✓	✓	✓	✓	JR
250/1228	✓	✓	✓	✓	✓	✓	LOC
250/1245	✓	✓	✓	✓	✓	✓	LOC
250/1304	✓	✓	✓	✓	✓	✓	LOC
250/1330	✓	✓	✓	✓	✓	✓	PAR
250/1348	✓	✓	✓	✓	✓	✓	PAR
250/1411	✓	✓	✓	✓	✓	✓	PAR
1552							[illegible]
1628							[illegible]
1640		✓	✓	✓	✓	✓	KEK
1655		✓	✓	✓	✓	✓	KEK
1715		✓	✓	✓	✓	✓	KEK

Comment | Initials

Tape is 35% full, Archiving to Tape complete; FATAL Software Error 16

0833 - BRIDGE CALLED AND ARE TURNING
0855 - CROSSING ON TO LINE 21 c. 225°
- smooth sea!

11 kts, smooth sea

11 kts c. 225, smooth sea; approaching position for PAR
CTD-rosette station HC02-6 ~~at~~ 2700m isobaths
south of Hudson Canyon
250/1411: Close to CTD/rosette HC02-6 position:
38°44.92'N 72°06.37'W
2670m depth on Sea Beam
2680m depth
38°44.976'N
72°06.000'W
250/1433Z CTD HC02-6 in water; start down PAR
Secure Sea Beam during CTD/rosette station
ODEC Bathy 2000 what on, but sounder off.
Change watch CTD still in progress
CTD out of water
38.7496, -72.1000

Tape is 40% full, Bathy is at 425:05
Sea Beam collecting again; proceeding to start of line 20 (c. 045°)
1646 - Bridge called; in turn, forced to stop due to passing vessel
Bridge called, starting line 20 c. 045°

DATE (JD) TIME (GMT) YEAR 2002	Dea Beam 2112				3.5 kHz ODEC BATHY 2000		
		Monitor	Dea View	Rack	Monitor	Recorder	Initials
250/							
1721		✓	✓	✓	✓	✓	KEK
1738	✓	✓	✓	✓	✓	✓	[illegible]
1750		✓	✓	✓	✓	✓	KGK
1800		✓	✓	✓	✓	✓	KGK
1816		✓	✓	✓	✓	✓	KEK
1828		✓	✓	✓	✓	✓	KGK
1857		✓	✓	✓	✓	✓	KGK
1917		✓	✓	✓	✓	✓	KEK
1936	✓	✓	✓	✓	✓	✓	[illegible]
1948	✓	✓	✓	✓	✓	✓	JR
2012	✓	✓	✓	✓	✓	✓	AMW
2040	✓	✓	✓	✓	✓	✓	JR
250/2334	✓	✓	✓	✓	✓	*	JR
~~250/2334~~ September 8, 2001						paper problem No recording	
251/0013	✓	✓	✓	✓	✓	Paper problem	PAR
251/0039		✓	✓	✓	✓	Recording again	PAR
251/0103		✓	✓	✓	✓		
251/0134		✓	✓	✓	✓		
251/0156	✓	✓	✓	✓	✓	Scale problems; not recording	LDC
251/0254	✓	✓	✓	✓	✓	working on 3.5kHz recorder	
251/0325							
251/0400Z		✓	✓	✓	✓	Recorder problems Larry Loewen well broken [illegible] during turn between lines 16 and 17.	
0421		✓	✓	✓	repairs	repairs *	KGK
0436		✓	✓	✓	"	"	KGK

Comment | Initials

Tape is 40% full, Archiving to Tape complete; FATAL Software Error 16 KEK

Tape is 42% full, Archiving complete, FATAL software error 16 KEK

- PASSED OVER LINE 20A → MOVING ONTO LINE 19 IN ABOUT (22:12) 20 MINUTES; first line 30nm long (half 60nm length of other lines up to here)
- BEGINNING LINE 19 → 22:30 c.225°

paper not recording well:
2331 tape is 45% full
JD 251/0013 Z 11.4 knots c. 225°
JD 251/0039Z 11.4 knots c.225° On line 19 (first 30nm-long line) OAK
JD 251/0052Z: ODEC Bathy 2000 3.5 kHz problem: switch scale from 750m to 1000m (2000-3000 m) to stop automatic switch to 375m scale at 2250 m depth; recorder appears to be on 500 m scale 2000-2500m depth
JD 251/0410Z end line 19 (30nm 225°)
JD 251/0413 Z start line 18 (30nm, 045°)
ODEC Bathy 2000 scale shift problem;
0205Z JD 251 ODEC Bathy 2000 3.5 kHz: scale shift problems; not recording hard copy; line 18 (and 19); scale shifts in interval +/- 2250m
JD 251/0236 Turn off ODEC Bathy 2000 (Larry Lowrey & Jonathan) and restart to try to resolve scale shift problem.
Stop 414 hours 58 minutes JD 251/0237 Start 414h. 57 minutes
- Stop JD 251/0236Z Storage 414 hours 58 minutes
- Restart JD 251/0237Z Storage 414 hours 57 minutes

JD 251/0408Z End Line 18: Larry Lowrey is working on scale shift problem of ODEC Bathy 2000 during turn
Recording on SEG-Y on 2 GB jaz disk

0429 at start of line 17, circling around (delay) to accomodate repairs of Bathy.
0436 Tape 50% full, Archiving complete, FATAL software Error 16
0452 Still working on ODEC
Made decision to respace tracklines
Deleted 16, + spaced 18, 17, 15 + 14 4km apart

DATE(JJD) TIME(GMT-Z) YEAR 2002		SeaBeam 2112 Monitor	Sea View	Rack	3.5 kHz ODEC Bathy 2000 Monitor	Recorder	Initials
251/0500							
0509		✓	✓	✓	in repairs	repairs	KEK
0516					"	"	KEK
0530					repairs	repairs	KEK
0550		✓	✓	✓	repairs failed	repairs failed	KEK
0555							KEK
0557		✓	✓	✓	running	new death scaling ✓	KEK
0622		✓	✓	✓	✓	✓	KEK
0640		✓	✓	✓	✓	✓	KEK
0658		✓	✓	✓	✓	✓	KEK
0722					✓	no record	KEK
0738		✓	✓	✓	✓	no print record	KEK
251/0800	✓	✓	✓	✓	✓	"	JR
0812	✓	✓	✓	✓	✓	NOT WORKING ✓	RMW
0838	✓	✓	✓	✓	✓	ok! record on paper	JR
0930	✓	✓	✓	✓	✓	✓	JR
0945	✓	✓	✓	✓	✓	✓	JR
1000	✓	✓	✓	✓	✓	✓	JR
1012	✓	✓	✓	✓	✓	TRAILING TO BOTTOM RMW	RMW
1032	✓	✓	✓	✓	✓	✓ "	JR
1046	✓	✓	✓	✓	✓	✓	JR
1102	✓	✓	✓	✓	✓	✓	JR
1120	✓	✓	✓	✓	✓	✓	JR
09/08/02 1155	✓	✓	✓	✓	✓	✓	RMW
251/1230Z		✓	✓	✓	✓	Broken record; scale first problem persists	PAR
251/1245		✓	✓	✓	✓	still recording problems line 14: 1000-2000 m scale = ok.	LDC
251/1315		✓	✓	✓	✓		LDC
251/1403Z		✓	✓	✓	✓	Recording in 1000 to 2000 m scale	PAR
251/1423		✓	✓	✓	✓		LDC
251/1431		✓	✓	✓	✓	Recording in 1000 to 2000 m scale	PAR
251/1452			✓	✓	✓	" "	PAR
251/1518		✓	✓	✓	✓		LDC
251/1534		✓	✓	✓			
251/1551		✓	✓	✓	✓	rec. 1000-2000 m scale	KEK
1605		✓	✓	✓	✓	✓	KEK

Comment | Initials

still circling for delay while Bathy 2000 undergoes repairs KEK
Tape is 50% full, Archiving complete, FATAL software error 16 KEK
repairs still in progress - Bathy 2000 KEK
replaced remaining paper with new roll in Bathy recorder 0548 KEK
repairs failed, depth window range 2000m, from 1000-3000m, problem not resolved
4min to line 17; 522 hr 34min storage on Disk 2 KEK
8mm tape is 51% full, Archiving complete, FATAL Software error 16 KEK
Bathy Total down time: 1hr, 35min

Northern Lights visible

Recorder still printing out blank. - scaling problems remain.

0838 end line 17 [head for begin 15] (16)
0856 line 15 BEGINNING - NO LINE 16...
line 16 dropped; sufficient overlap without line 15
1135 CROSSING OVER LINE 15 B → MAKING TURN
ONTO LINE 14 dmw

1152 ONTO LINE 14 NOW. dmw

251/1230Z 11kts., c.225, smooth seas

251/1403Z 11.4 kts, c225°, 122 to 125 beams scanning on the beam, PAR
smooth seas

JD251/1431Z End line 14 30nm-long
JD251/1450 Strt line 13 045° 30nm-long
Tape 60% full
JD287/1534 11.8 kts c. 045° 125 beams reported, smooth seas PAR
Tape is 60% full, Archiving complete.

JD F(JD)
F(GMT=Z)
YEAR 2002

Sea Beam 2112 | 3.5kHz ODEC BATHY 200

	Minuta	Sea View	Rack	Minuta	Recorder	Initials
251/1626	✓	✓	✓	✓	scale issues	KEK
251/1651	✓	✓	✓	✓	✓	KEK
1718	✓	✓	✓	✓	✓	KEK
1730	✓	✓	✓	✓	✓	KEK
1744	✓	✓	✓	✓	✓	KEK
1801	✓	✓	✓	✓	✓	KEK
1825	✓	✓	✓	✓	✓	KEK
1844	✓	✓	✓	✓	✓	KEK
1858	✓	✓	✓	✓	✓	KEK
1919	✓	✓	✓	✓	✓	KEK
1933	✓	✓	✓	✓	✓	KEK
1948	✓	✓	✓	adjusted scale	adjusted scale	KEK
251/2025	✓	✓	✓	✓	✓	JR
2040	✓	✓	✓	JIM w/ LADEY	OFF PAGE	AMW
2211	✓	✓	✓	✓	✓	JR
2224	✓	✓	✓	✓	✓	AMW
2319	✓	✓	✓	✓	✓	AMW
2345	✓	✓	✓	✓ ✓	✓ ✓	JR
JD 252 September 9, 2002						
0000	✓	✓	✓	✓	✓	PAR
252/0054	✓	✓	✓	✓	✓	LDC

Comment | Initials

Tape is 61% Full, Archiving Complete KEK
Line 12 to be 60nm long to fill gap between Tuckahoe & Robb
Sea Beam surveys at SW corner of area
2 min to end of line 13 KEK
2 min to the beginning of line 12 [illegible]
Bathy scaling problems persist KEK

Tape is 64% Full, Archiving complete KEK

Adjusted depth scale on Bathy from 1000-3000m to 1000-2000m KEK
1957 - Change watch [illegible]
:2022 tape is 66% full JR
~ 2030 IN CANYON
2044 Bathy monitor set to 1000-3000m phase range
hoping to keep trace on paper (paper shows
1000-2000 m range = ~~that~~ upper half of monitor) JR
WARNING: Tape is 67% full

PASTED OVER 12B 2242
STARTING ON LINE 11 2253

WARNING - TAPE 70% FULL 2319
⟹ Bathy monitor range/phase 0-2000 Changed phase setting
Bathy paper record will show 0-1000 m
122 to 125 beams reported; 11 knots; c. 045°; smooth seas PAR
JD252/0052Z Crossing Hudson Canyon along c. 045°, 7.5 kts
· S. wall: top of S. wall: 925m } relief of wall
· Deepest portion of floor: 1955m } 1030 m
JD252/01:20 Reciprocal course 225° back to deepest portion
(1955m) for CTD/rosette HC02-7. JD252/01:50 CTD in water
JD252/01:40Z on station over canyon axis; secure Sea Beam PAR
SeaBeam 8mm tape is 73% full JD251/0155Z
Holding depth of 1948 m during CTD/rosette HC02-7
Install new SeaBeam 8 mm recording data tape JD252/0303Z
JD252/03:09Z CTD/rosette on surface

0314 restart bathy 409, 209 min at start

JP TE(JD) ME(GMT=Z) YEAR 2002 | Sea Beam 2112 | 3.5 kHz ODEC Bathy 2000

	Monitor	Sea View	Rack	Monitor	Recorder	Initials
252/0316						STB
252/0330	✓	✓	✓	✓		PAR
252/0352	✓	✓	✓	✓	✓	PAR
0415	✓	✓	✓	✓	✓	KEK
0440	✓	✓	✓	✓	✓	KEK
0454	✓	✓	✓	✓	✓	[illegible] TM
0520	✓	✓	✓	✓	✓	KEK
0535	✓	✓	✓	✓	✓	[illegible]
0551	✓	✓	✓	✓	✓	[illegible]
0607	✓	✓	✓	✓	X	[illegible] TM
0627	✓	✓	✓	scaling Issues	No print	KEK
0633	✓	No "P" code	✓	✓	✓	KEK
0636	✓	✓	✓	✓	✓	KEK
0700	✓	✓	✓	✓	poor	KEK
0724	✓	✓	✓	✓	✓	KEK
0743	✓	✓	✓	✓	✓	[illegible]
0800	✓	✓	✓	✓	✓	KEK
0836	✓	✓	✓	✓	✓	JR
0924	✓	✓	✓	✓	✓	JR
0930	✓	✓	✓	✓	✓	JR
0946	✓	✓	✓	✓	✓	JR
252/1000	✓	✓	✓	✓	✓	JR
1100	✓	✓	✓	✓	✓	JR
1133	✓	✓	✓	✓	✓	JR
1145	✓	✓	✓	✓	1000-2000 window	JR
1200	✓	✓	✓	✓	hurry at work!	JR
252/1226	✓	✓	✓	✓	✓	LDC
252/1248	✓	✓	✓	✓	✓	LDC
252/1305	✓	✓	✓	✓	Back on 750m scale	PAR
252/1330	✓	✓	✓	✓	Holding 750m scale	PAR
252/1350	✓	✓	✓	✓	Holding 750m scale	PAR
252/1442	✓	✓	✓	✓	✓	LDC
252/1515	✓	✓	✓	✓	Holding 750m scale	PAR

Comment Initials

start ~~[illegible]~~ seabeam, will go SW 1km & go over CTD site; Tape at 0%, new tape

c. 225° for ~1 mile, ~~then~~ JD 252/03:29; then required course to continue c. 045° on line 11

JD 252/0335 Z Back on c. 045° line 11

JD 252/0352Z Sea Beam 124-125 beams recorded; on line 11 c. 044° 11 knots, smooth seas

252/0646Z end line 11

Called Bridge about new coordinates

252/0656Z start line 10

Ship speed 11.1 knots, 3.5 gets a little weird everytime we go over a channel on the slope, but seems to be keeping track of the bottom

0600 ODEC is off the scale and not printing, still happening at 0608 [initials]

Error: Navigation device timed out. Data failed to appear [S1] KEK

Bridge called, They lost their GPS, No "P" code therefore we lost our "P" code, problem will fix itself, no data lost KEK

P code regained, GPS back online, no more error message KEK

Fatal: Software Error 16, Tape is 4% full, Archiving complete KEK

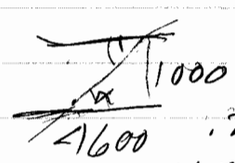
ODEC ~~keeps~~ plotter keeps rescaling itself [initials]

watch handed over KEK

0955 TAPE IS 9% FULL
0955 ARCHIVING TO TAPE HAS BEGUN
0955 FATAL SOFTWARE ERROR 16

0956 ARCHIVING TO TAPE IS COMPLETE

JD 252/12:10 Z end line 10



.22

$\tan\alpha = \frac{1000}{4600} = 12.4°$

= slope of S wall of Hudson Canyon

N wall 6.6°

Fatal Software error 16 12:28 begin Line #9

11 kts c. 045° 125 beams recorded; smooth seas PAR

Fatal software error 16

DATE (JD) TIME (GMT=Z) YEAR 2002		SeaBeam Monitor	2112 SeaView	~~3.~~ Rack	3.5 kHz ODEC Monitor	Bathy 2000 Recorder	Initials
252/1547		✓	✓	✓	✓	✓	KEK
252/1600		✓	✓	✓	✓	✓	KEK
1620		✓	✓	✓	✓	✓	KEK
1639		✓	✓	✓	✓	✓	[illegible]
1655		✓	✓	✓	✓	✓	[illegible]
~~1611~~ 1611		✓	✓	✓	✓	✓	[illegible]
1722		✓	✓	✓	✓	✓	KEK
1733		✓	✓	✓	✓	✓	KEK
1745		✓	✓	✓	✓	✓	[illegible]
1750		✓	✓	✓	✓	✓	KEK
1805		✓	✓	✓	✓	✓	[illegible]
1820		✓	✓	✓	✓	✓	KEK
1840		✓	✓	✓	✓	✓	[illegible]
1856		✓	✓	✓	✓	✓	KEK
1915		✓	✓	✓	✓	✓	KEK
1934		✓	✓	✓	✓	✓	KEK
252/2000		✓	✓	✓	✓	✓	JR
2046		✓	✓	✓	JIM ✓ ind on window fit	✓	[illegible]
2107		✓	✓	✓	✓	✓	JR
2138		✓	✓	✓	✓	✓	[illegible]
2148		✓	✓	✓	✓	✓	[illegible]
2242		✓	✓	✓	✓	✓	JR
2308		✓	✓	✓	✓	✓	JR
2327		✓	✓	✓	✓	✓	JR
JD253 10 September 2002 0005		✓	✓	✓	✓	Holding 750m scale	PAR
JD253/0055		✓	✓	✓	✓	Jumping between 375m & 750m scales	PAR
253/0108		✓	✓	✓	✓	✓	LDC
253/0133		✓	✓	✓	✓		PAR
253/0202		✓	✓	✓	✓	✓	LDC
253/0230		✓	✓	✓	✓	✓	LDC
253/0310		✓	✓	✓	✓	holding 750 m scale	PAR
253/0345		✓	✓	✓	✓		PAR
0407		✓	✓	✓	✓	✓	[illegible]
0435	✓	✓	✓	✓	✓	✓	[illegible]
0450		✓	✓	✓	✓	✓	KEK
507	✓	✓	✓	✓	✓	✓	[illegible]
525		✓	✓	✓	✓	✓	[illegible]

Comment | Initials

change in watch

Ship speed 11.9 knots

1735 1 minute to the end of the line, 9 JM

starting line 8 JD252/1750Z 11 kts 123-125 beams; smooth seas

1821 Pulse width changed to 7 milliseconds, ping # 63185 JM

1908 Fatal Error Software Error 16
Tape is 23% full.

canyon crossing

swell building

Pulse width ing to 7 millimeters 68366 - 22:49

call: End line 8
start line 7

JD253/0005Z 11 kts, on line 7 c. 045°; swell gradually building from south (Tropical storm Gustav), 125 beams reported PAR

pulse width 5×10^{-3} s
swell increasing ship's roll; 125 beams reported; 11 knots

0351 - Change watch.

0447 finish line 7 going into turn for line 6. JM

0502 on line 6 JM

Ship speed 11.0 knots

DATE (JD) TIME (GMT=Z) YEAR 2002	SeaBeam 2112 Monitor	Sea View	Rack	3.5 kHz Monitor	ODEC Bathy 2000 Recorder	Initials
253/ 0540	✓	✓	✓	✓	✓	KEK
0608	✓	✓	✓	✓	✓	KEK
0630	✓	✓	✓	✓	Poor	KEK
0645	✓	✓	✓	✓	same	[illegible]
0700	✓	✓	✓	✓	✓	[illegible]
0715	✓	✓	✓	✓	✓	[illegible]
0730	✓	✓	✓	✓	✓	[illegible]
0745	✓	✓	✓	✓	✓	[illegible]
253/0800	✓	✓	✓	✓	✓	JR
0842	✓	✓	✓	✓	✓	JR
0935	✓	✓	✓	✓	✓	
1010	✓	✓	✓	✓	✓	JR
1016	✓	✓	✓	✓	✓	[illegible]
1020						
1034						
1050	✓	✓	✓	✓	✓	JR
1117	✓	✓	✓	✓	✓	[illegible]
1145	✓	✓	✓	✓	✓	JR
September 10, 2002 253/1203	✓	✓	✓	✓	✓	JR
253/1231	✓	✓	✓	✓	Recording 0-1000m scale	PAR
253/1250	✓	✓	✓	✓	✓	LDC
253/1333	✓	✓	✓	✓	✓	LDC
253/1400	✓	✓	✓	✓	Recording 0-1000m scale	PAR
253/1425	✓	✓	✓	✓	✓	LDC
253/1453	✓	✓	✓	✓	✓	LDC
JD253/1531	✓	✓	✓	✓	✓	PAR
1547	✓	✓	✓	✓	✓	KEK
1553	✓	✓	✓	✓	✓	KEK
1615	✓	✓	✓	✓	✓	KEK
1630	✓	✓	✓	✓	✓	KEK
1645	✓	✓	✓	✓	✓	KEK
1708	✓	✓	✓	✓	✓	KEK
1725	✓	✓	✓	✓	✓	[illegible]
1750	✓	✓	✓	✓	✓	[illegible]
1805	✓	✓	✓	✓	✓	[illegible]
1825	✓	✓	✓	✓	✓	[illegible]
1842	✓	✓	✓	✓	✓	[illegible]

Comment	Initials
Pulse width changed to 5 milliseconds, ping # 76942	KEK
125 Beams reported consistant	KEK
Recorder Printing poorly, scaling issues.	KEK
11.2 knots	
07:21 Tape is 46% full	DM
11:2 knots, ship speed	DM
"125 beams reported" consistently	
125-129 beams	
125 -	
"	
1020 end line 6	
1034 start line 5	
125 beams	
TAPE IS 55% FULL - 11:19:47	DMW
1147 Tape is 56% full -- software error 16	
1146 archiving to tape is complete	
253/1231 On line 5, c. 043°, 11 knots, partly smooth seas, in moderate swell from south, recording 125 beams	
253/1400 On line 5, c. 045°, 11 knots, moderate swell from S (Tropical Storm Gustav), 125 beams reported on Sea Beam	
00253/1535Z Fatal storage error 16; Archiving to tape is complete; 125 beams reported; 11.2 kts; smooth seas.	KEK
Change in watch 1547	
Bridge called, end of line 5	
1605 - start of line 4	
Pilot whales off Port side	

Ship speed 11.3 knots,

Date (JD) Time (GMT) Year 2002	SeaBeam Monitor	SeaView	Rack	3.5 ODEC Bathy 2000 Monitor	Recorder	Initials
	→ Note: SeaBeam failed at 1903 and was off until 253/2156					
253/1905	✓	✓	✓	✓	✓	[illegible]
1928	✓	✓	✓	✓	✓	KEK
1955	✓	✓	✓	✓	✓	[illegible]
2008	✓	✓	✓	✓	✓	JR
2306	✓	✓	✓	✓	✓	[illegible]
254/0026		✓	✓	✓	Second pings; sand waves	PAR
254/0100	90-119 beams reported	✓	✓	✓	✓	PAR
254/0138	105-115 beams reported	✓	✓	✓	✓	PAR
254/0203	104-115 beams reported	✓	✓	✓	✓	PAR
254/0221		✓	✓	✓	✓	LDC
254/0236		✓	✓	✓	✓	LDC
254/0257		✓	✓	✓	✓	LDC
254/0315		✓	✓	✓	✓	LDC
254/0334		✓	✓	✓	✓	PAR

72-32

Comments Initials

Change watch from Tammie + Kyle to Jim + Lisa
2008 asked bridge to stay east of 72-32 on turn so we don't lose seaview map.
Larry checking 3.5 Seabeam ~~[illegible]~~ 611 m ~~Seabeam 314~~ 3.5 314.m
3.5 on multiple?

Bridge ending line 21:25 - LAST BEFORE HEADING INTO NY
↳ SEAVIEW MONITOR AND SEABEAM MONITOR HAVE NOT BEEN RECORDING SINCE 1904.
JOHNATHAN CAME IN - SAID SEABEAM HAD FROZEN SINCE 1904, WE ARE SHUTTING DOWN AND STARTING AGAIN...
dmw

↳ END OF 8MM TAPE, BEGINNING OF ANOTHER

2150 - JOHNATHAN TRYING TO RESTART SEABEAM
↳ SEABEAM RUNNING 2156 → RUNNING INTO NYC DUE TO TROPICAL STORM GUSTUV
FILE:
↳ HC_TRAN → TRANSIT INTO NYC LINE

~2200 - BEGAN TRANSIT INTO NYC FOR SAFE HARBOR
2237 - TAPE 2% FULL Along trackline specified by Brad Butman across Hudson Shelf Valley.
Note: End Line 5 (c. 045°) JD. 253/1553Z
Begin Line 4 (c. 225) JD 253/1608 Z
End Line 4 JD 253/2125 Z
254/0026 Running Hudson Shelf Valley line for Brad Butman 12.8 knots, c. 334°, seas smooth, moderate swell from South. Shallow water ~70m
Fog - fog horn sounding; 10 knots

Hits relatively low (ranging 1-7)

Tap 16% full

254/0334 10.2 knots in patchy fog c. 303; 110-121 beams reported; low number of hits TAPE 20% full

ITE (JD) (IME (GMT)Z) YEAR 2002	Sea Beam 2112 Monitor	Sea View ~~Monitor~~	Rack ~~Sea View~~	ODEC BATHY-2000 3.5kHz Monitor	Recorder	Initials
254/0400	✓	✓	✓	✓	✓	KEK
254/0420	✓	✓	✓	✓	✓	KEK
254/0431	✓	✓	✓	✓	✓	KEK
254/0449	✓	✓	✓	✓	✓	KEK
0502	✓	✓	✓	✓	✓	KEK
0520	✓	✓	✓	✓	✓	[illegible]
0533	✓	✓	✓	✓	✓	KEK
0544	✓	✓	✓	✓	✓	KEK
0555	✓	✓	✓	✓	✓	KEK
0602						
255/2000						JR
2005	✓	✓	✓	✓	✓	JK
2010	✓	✓	✓	✓	✓	✓
2030	✓	✓	✓	✓	✓	✓
2100	✓	✓	✓	✓	✓	✓
2117	✓	✓	✓	✓	✓	✓
2125	✓	✓	✓	✓	✓	✓
2154	✓	✓	✓	✓	✓	✓
2205	✓	✓	✓	✓	✓	✓
2215	✓	✓	✓	✓	✓	✓
2250	✓	✓	✓	✓	[illegible]	[illegible]
2301	✓	✓	✓	✓	✓	✓
2335	✓	✓	✓	✓	✓	[illegible]
255/2345	✓	✓	✓	✓	✓	[illegible]
2400	✓	✓	✓	✓	✓	[illegible]

Comment	Initials
Poor Data	KEK
Tape is 22% full, Archiving complete	
Tape is 23% full, Archiving Complete	KEK
Tape is 24% full, Archiving Complete	KEK
Tape is 25% full, Archiving Complete. - Poor Data Coverage	KEK
Poor data	
Tape is 26% full, Archiving Complete	KEK
Tape is 27% full, Archiving Complete Data terrible	KEK

0602 Johnathan came down to shut down
Shutting ~~bathy down~~ 3.5 bathy down 1st
0603 Shutdown of Sea Beam
JD 254 (11 September, 2002)/0603 — JD 255 (12 September 2002) 1200: at anchor off southern Long Island, Long Beach, New York.

JD 255/1200: Begin transit back to operation area

Begin survey - 10 Kts - initiating 3.5 KHz and Seabeam systems. Approach dip line 1.
Begin dip line 1 Navy Seabeam version 1.2.5
— "TAPE is 0% full; fatal software error 16."
3.5 tape: 105 hrs 54 min recording time remaining (assuming present ping rate; this will extend with lower ping rate)

PULSE WIDTH set to 7 milliseconds; ping # 2362 - 2116

"Bathy" less than perfect.

TE(JD) TIME(GMT=Z) YEAR 2002	Sea Beam 2112 Monitor	Sea View	Rack	ODEC BATHY 2020 3.5kHz Monitor	Responder	Initials
9/12/02 256/0000	✓	✓	✓	200m scale	100m scale	MAR
256/0031	✓	✓	✓	✓	✓	LDC
256/0101	✓	✓	✓	✓	✓	LDC
256/0133	✓	✓	✓	750m scale	375m scale	LDC
256/0212	✓	✓	✓	✓	✓	LDC
256/0244	✓	✓	✓	✓	✓	LDC
256/0305	✓	✓	✓	✓	✓	LDC
256/0322	✓	✓	✓	✓	✓	LDC
256/0328	✓	✓	✓	750m scale	375m scale	MAR
0410	✓	✓	✓	✓	✓	KEK
0425	✓	✓	✓	✓	✓	KEK
0440	✓	✓	✓	✓	✓	KEK
0500	✓	✓	✓	✓	✓	[illegible]
0525	✓	✓	✓	✓	✓	KEK
0540	✓	✓	✓	✓	✓	[illegible]
0608	✓	✓	✓	✓	✓	KEK
0629	✓	✓	✓	✓	✓	KEK
0644	✓	✓	✓	✓	✓	KEK
0707	✓	✓	✓	✓	✓	KEK
0722	✓	✓	✓	✓	✓	KEK
0742	✓	✓	✓	✓	✓	KEK
0755	✓	✓	✓	✓	✓	KEK
0800	✓	✓	✓	✓	✓	JR
0826	✓	✓	✓			
0901	✓	✓	✓	✓	✓	JR
0912	✓	✓	✓	✓	✓	JR
0936	✓	✓	✓	✓	✓	JR
0938						JR
256/1000	✓	✓	✓	✓	✓	JR
1008						
1023	✓	✓	✓	✓	✓	JR
1040	✓	✓	✓	✓	✓	JR
1055	✓	✓	✓	✓	✓	JR
1155	✓	✓	✓	✓	✓	JR
256/1208	✓	✓	✓	✓	✓	LDC
256/1225	✓	✓	✓	✓	✓	LDC
256/1245	✓	✓	✓	✓	✓	LDC

Comment | Initials

256/0010 c. 121°, 9.6 knots, 114-125 beams reported, moderate sensitive PAR

256/0156 c. 122°, 9.3 knots, 122-125 beams reported, moderate sens PAR

2:49:07 software error 16

256/0328Z End Dip line 1 at NE end of line 32; 9 knots along this line; 124-125 beams reported
256/0349Z On line 32, c. 225°, 11-12 knots; using SeaBeam program version 1.2.5
Change in watch

Tape is 9% full, Archiving Complete. FATAL software Error 16 KEK

Speed: 11 knots KEK
Tape is 10% full, Archiving Complete, FATAL Software Error 16

SOG 10.3 okay
END LINE 32 + TAPE 12% FULL : SOFTWARE ERROR 16
still in turn?
approach start line 33 trying to keep Bathy 3.5 on paper!
Ship crabbing along line 33; current to east
1008 SeaBeam is 12% full, archiving begun, error 16
1009 Archiving complete
call bridge - increase speed to 12± kt to decrease crab

1103 - tape 13% full 1104 archiving complete.

change shift

TE (JD) TME (GMT=Z) YEAR 2002	Sea Beam 2112 Monitor	Sea View	Rack	ODEC BATHY 2000 3.5kHz Monitor	Recorder	Initials
JD256/1306	✓	✓	✓	Shall 2625-3375=750m	2625-3000=350m	PAR
256/1320	✓	✓	✓	✓	✓	LDC
256/1341	✓	✓	✓	✓	✓	LDC
256/1413	✓	✓	✓			
256/1434	✓	✓	✓	2625-3375m	2625-3000m	PAR
256/1453	✓	✓	✓	✓	✓	PAR
JD256/1521	✓	✓	✓	✓	✓	PAR
256/1555	✓	✓	✓	✓	✓	KEK
256/1615	✓	✓	✓	✓	✓	KEK
256/1637	✓	✓	✓	✓	✓	KEK
256/1659	✓	✓	✓	✓	✓	[illegible]
256/1715	✓	✓	✓	✓	✓	KEK
256/1730	✓	✓	✓	✓	✓	KEK
256/1747	✓	✓	✓	✓	✓	[illegible]
256/1801	✓	✓	✓	✓	✓	KEK
256/1815	✓	✓	✓	✓	✓	KEK
1830	✓	✓	✓	✓	✓	[illegible]
1847	✓	✓	✓	✓	✓	KEK
1903	✓	✓	✓	✓	poor	[illegible]
256/1923	✓	✓	✓	✓	Bottom multiple	KEK
1940	✓	✓	✓	✓	"	[illegible]
1956	✓	✓	✓	✓	"	[illegible]
2021	✓	✓	✓	✓		JR
256/2050	✓	✓	✓	✓	✓	
2126	✓	✓	✓	✓	✓	[illegible]
2200	✓	✓	✓	✓	✓	JR
2248	end line 3b					

Comment Initials

JD256/1306Z C. 044°, 11 knots, smooth seas, crossing Hudson Canyon (clogged out of eastward current - no crabbing on NE half of line 33 (with debris)

JD256/1415 C. 043°; 11.6 knots, smooth seas, crossing Hudson Canyon, 121-125 beams reported, track line 33 merging with track line 32, correct course to end at NE end with 7.5 km = 4nm spacing; adjust track line 32 for 4nm (7.5 km) spacing.

JD256/1434 C. 048° 11.5 knots, 119-125 beams recorded.

JD256/1453 End Line 33; space 4nm (7.5 km) to line 34; begin turn to line 34.

JD256/1522 On line 34 (at 4nm = 7.5 km spacing from line 33). 11.4 knots C. 224°, smooth seas.

Change in watch JD256/1555 KEK

Tape is 16% Full, Archiving Complete, FATAL Software Error 16 KEK

Crossing Hudson Canyon on line 34 KEK

Tape is 17% full, Archiving Complete: FATAL software Error 16 KEK

256/1826 Bridge called to say that we have plenty of time to do the proposed plan for the day, they will complete this line and turn on to the next one before heading NW

Tape is 18% full

Called Larry about recorder

Bottom multiple at 2925m depth, related to depth vs. sonic velocity KEK

Speed 9.2 knots

Change of watch

(END LINE 34 : 2050)

STARTING LINE 36 - 2126 - AMW

2215 - Tape 20% full - Software error 16

2245 - Another ship is berring down on us. Δed speed and track far a bit to adjust position out of the way.

↓ed to 5 knots

2248 end line 36

E(JD) TIME (GMT=Z) YEAR 2002		Sea Beam 2112 Monitor	Sea View	Rack	ODEC BATHY 2000 Monitor	3.5 & 4.3 Recorder	Initials
256/2252		✓	✓	✓	✓	✓	JR
2318		✓	✓	✓	✓	✓	JR
JD257/00:09	September 14, 2002	121-123 beams reported	✓	✓	Scale 2625-3375m	Scale 2625-3000m	PAR
257/0036		✓	✓	✓	✓	✓	LDC
257/0053		121-125 beams reported ✓	✓	✓	Scale 375m	Scale 750m	PAR
257/0127		✓	✓	✓	✓	✓	LDC
257/0147		✓	✓	✓	✓	✓	LDC
257/0209		✓	✓	✓	Scale 2625-3375m	2625-3000m	LDC
257/0243		✓	✓	✓	✓	✓	LDC
257/03:08		125 beams reported ✓	✓	✓	2250-3000m scale	2250-2625m scale	PAR
257/03:51		125 beams reported ✓	✓	✓	2250-3000m scale	2250-2625m scale	PAR
257/0415		✓	✓	✓	✓	✓	KEK
257/0447		✓	✓	✓	✓	✓	KEK
257/0500		✓	✓	✓	✓	✓	KEK
257/0517		✓	✓	✓	✓	✓	KEK
257/0530		✓	✓	✓	✓	✓	KEK
0545		✓	✓	✓	✓	✓	[illegible]
0600		✓	✓	✓	✓	✓	[illegible]
257/0624		✓	✓	✓	✓	✓	KEK
257/0642		✓	✓	✓	✓	✓	KEK
257/0711		✓	✓	✓	✓	stopped recording	[illegible]
257/0734		✓	✓	✓	✓	✓	KEK
257/0745		✓	✓	✓	✓	✓	KEK
10802		✓	✓	✓	✓	✓	KMW
257/0834		✓	✓	✓	✓	✓	JR
0848		✓	✓	✓	✓	✓	JR
0908		✓	✓	✓	✓	✓	JR
0922		✓	✓	✓	✓	✓ off paper or recording	JR
0957		✓	✓	✓	✓	KMW	
1020		✓	✓	✓	✓	✓	JR
1040		✓	✓	✓	✓	✓	JR
1053		✓	✓	✓	✓	✓	JR
257/1100		✓	✓	✓	✓	see note	JR
257/1246		106-125 beams recorded	✓	✓	1500-2250m scale	1500-2250m scale	PAR
257/1312		✓	✓	✓	✓	✓	LDC

Comment | Initials

START DID LINE 2 (N.W.)

JD257/00:09 ~~Reduce~~ speed ~~from 11 to 10 knots~~ 11 kts, c. 318° moderate seas.

JD257/0053: Speed reduced to 10.4 knots

JD257/02:20 9.8 knots, c 318°, moderate seas

JD257/03:10 9.8 knots, c. 318°, moderate seas

Change in watch
12 hrs of Sea Beam Data Collecting left — KEK
Bathy Data looks beautiful — KEK

Tape is 26% full, Archiving Complete: FATAL Software Error 16 — KEK
5 min to begin line 13. — [illegible]

Tape is 27% full, Archiving Complete, FATAL Software Error 16 — KEK

3.5 kHz recorder having trouble recording - scaling issues persist — KEK
Watch Handed over, Start of turn, end of track north to line 14 extension — KEK

Going over 14B 0802 AMW

END LINE 14 SETTING UP FOR 15

→ 1056 - set phase 375-1125 m ranges ← going deeper = off paper @ 750 m window
1106 - 3.5 KHZ depth was lost: Jonathan is working on it.
1110 - START LINE 15 AMW
1111 - 32% full
On line 15 c. 44° 11.3 knots

DATE (JD) TIME (GMT=Z) YEAR 2002	Sea Beam 2112 Monitor	Sea View	Rack	ODEC BATHY 2000 3.5 kHz Monitor	Recorder	Initials
Sept. 14, 2002 JD257/1340	125 beams reported	✓	✓	1500-2250 scale	1500-2250 scale	PAR
JD257/1355	125 beams reported	✓	✓	1500-2250 scale	1500-2250 scale	PAR
JD257/1416	125 beams reported	✓	✓	1500-2250m scale	1500-2250m scale	PAR
JD257/1442	125 beams reported	✓	✓	1500-2250m	1500-2250m scale	PAR
JD257/1507	124-125 beams reported	✓	✓	1500-2250m scale	1500-2250m scale	PAR
JD257/1532	125 beams reported	✓	✓			
257/1550	✓	✓	✓	✓	✓	KEK
257/1606	✓	✓	✓	✓	Broken up recording	KEK
257/1627	✓	✓	✓	✓	✓	KEK
257/1651	✓	✓	✓	✓	✓	KEK
257/1713	✓	✓	✓	✓	✓	KEK
257/1730	✓	✓	✓	1875-2625m scale	2250-2625m scale	KEK
257/1746	✓	✓	✓	✓	✓	KEK
257/1803	✓	✓	✓	✓	✓	[illegible]
257/1817	✓	✓	✓	✓	Scaling Issues	KEK
257/1841	✓	✓	✓	✓	✓	KEK
257/1858	✓	✓	✓	✓	✓	KEK
257/1918	✓	✓	✓	✓	✓	KEK
257/1938	✓	✓	✓	✓	✓	KEK
1953	✓	✓	✓	✓	✓	[illegible]
2000	✓	✓	✓			JR
2004				✓		
2006	✓	✓	✓	✓	Back on paper	JR
2030	✓	✓	✓	✓	✓	JR
2050	✓	✓	✓	✓	✓	dmw
2130	✓	✓	✓	✓	✓	JR
2210	✓	✓	✓	✓	✓	dmw
2242	✓	✓	✓	✓	✓	dmw
2311	✓	✓	✓	✓	✓	JR
2330	✓	✓	✓	✓	✓	JR
2350	✓	✓	✓	✓	✓	JR
September 15, 2002 258/0007	✓	✓	✓	✓	✓	LDC
JD258/0030Z	117-125 beams reported	✓	✓	2250-2625m scale	2250-2625m scale	PAR
258/0103	✓	✓	✓	✓	✓	LDC
258/0126	125 beams reported	✓	✓	1875-2625m	1875-2250m	PAR
258/0200	125 beams reported	✓	✓	1875-2625m	1875-2250m	PAR

Comment	Initials
11.3 knots, c. 044°, moderate seas	PAR
JD257/1354 end line 15 and begin turn to line 16	PAR
JD257/1416 ~~on (begin)~~ continuing line 16; c 229° 11.8 knots	PAR
JD257/1449 on line 16 c. 229, c. 224° 11.6 knots	PAR
JD257/1534 c. 224° 11.4 knots	
change in watch	
Tape is 36% full; Archiving to tape complete; FATAL Software Error 16	KEK
257/1654 - end of line 16 . 3.5 kHz recorder spotty, scaling issues persist	KEK
1715 Start of line 17	

Tape is 38% full

Ship speed 11.7 knots

Tape is 39% full ~~1952~~ 1925

1947, Bridge called, ending line 17, will be about 20 minutes set up to next line CK

2004 Start line 18 (cse sw)

Finish line 18 - 2252 JMW

Starting line 19 - 2315 JMW

JD258/0030Z c. 043° 11.4 knots, moderate seas PAR

JD258/0127 c. 045°, 11.6 knots, moderate seas PAR

JD258/0158 end line 19; turn to diagonal to dip line 2

TIME (GMT=Z) DATE (JD) TIME (GMT=Z) YEAR 2002	Sea Beam 2112 Monitor	Sea Beam 2112 Sea View	Sea Beam 2112 Rack	ODEC BATHY 2000 3.5 kHz profiler Monitor	ODEC BATHY 2000 3.5 kHz profiler Recorder	Initials
JD258/0216	125 beams reported	✓	✓	1875–2625m scale	1875–2250m scale	
JD.258/0252	125 beams reported	✓	✓	1875–2625m	1500–1875m	PAR
258/0317	✓	✓	✓	✓	✓	LDC
258/0338	125 beams reported	✓	✓	1875–2625m	1875–2250m	PAR
258/0354	✓	✓	✓	✓	✓	LDC
258/0412	✓	✓	✓	✓	✓	KEK
258/0432	✓	✓	✓	✓	✓	KEK
258/0449	✓	✓	✓	✓	✓	KEK
0506	✓	✓	✓	✓	✓	[illegible]
258/0524	✓	✓	✓	✓	✓	KEK
0536	✓	✓	✓	✓	✓	[illegible]
0543	✓	✓	✓	-30 DB POWER CEWI ✓		KEK
0600	✓	✓	✓	✓	✓	[illegible]
258/0615	✓	✓	✓	✓	✓	KEK
258/0620	✓	✓	✓ ~~Lost~~	Lost	Lost KEK	
258/0624	shutdown	shutdown	shutdown	shutdown	shutdown	KEK

Comment Initials

JD 258/0210 Heading c 250° to point on dip line 2 between lines 14E 15, 11.5 knots PAR
point = 39° 06.55°N, 072 06.98W

JD258/0248 Altered course to parallel line 18 and head for point 39° 02.951'N 072° 02.101W on dip line 2

258/0339 Turn from diagonal to dip line 2 and transit PAR landward to port (New York) to course 316°

258/0400 Change in watch KEK

0412 FATAL Software Error 16, Tape 40% Full, Archiving Complete KEK

0502 Tape is 47% full

0536 3.5 power supply has dropped On

193 m depth 0542 KEK

146 m depth

139 m depth

0620 133 m depth 3.5 khtz recorder lost, shutdown KEK

Bathy shutdown 0623 All shutdown KEK

Seabeam Tape is 52% full 0624 On