IN THE BUTT, BOB.

#89019

89019 F8-89-NC

#89020

89020 F9-89-NC

#105300 FRNL F8-89-NC
FARNELLA F9-89-NC
Farallon Islands
Jul 28-Aug 2, 1989 (#89019)
Aug 2-18, 1989 (#89020)
H.Karl, B.Schwab
AMS LOG

7530-00-222-3521
FEDERAL SUPPLY SERVICE
(GPO)

7/28/89 PRE-CRUISE

QUICK ZOOM - CLICK RT MOUSE
- DRAW BOX
- CLICK MID BUTTON
- OR GOTO ZOOM MENU.

ANONYMOUS Notes -

- TRIGGER IS DETECTED ON PORT CHANNEL - 150 ms pulse.

- AMS-120 MENU IN QMIPS ALLOWS MOST FRONT PANEL PARAMETERS TO BE SET AUTOMATICALLY THRU SOFTWARE - BANDWIDTH, ETC.

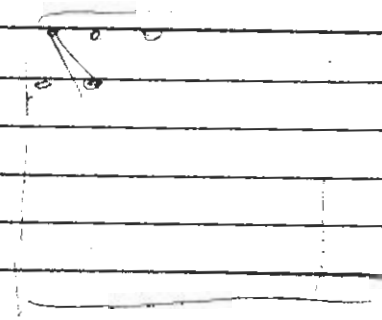
ON AMS-120 DECK ELECTRONICS

* THE AMS FISH HAS TO BE TURNED ON TO TEST THE TELEMETRY INFORMATION LINK WITH QMIPS

- STILL A GOOD IDEA TO RUN THE 1% OVERHEAD WHEN FORMATTING THE PARTITIONS

DFT TRANSFORMS -

-



* IN SONARS.DAT - ~~MAKE SURE THE TELEMETRY ON CHANNEL 3~~

* IF THE FREQUENCY ON THE ~~SONARS~~ CHANNEL 4 IS SET TO "121", THE SYSTEM WILL NOT FILTER THE TELEMETRY DATA.
IF IT IS SET TO "120" — THE DATA IS FILTERED - LITTLE KEYS TO TELL THE SYSTEM WHAT TO DO.
SHOULD ALWAYS BE SET TO 120 DURING SURVEY.
RESET TO 121 IF PROBLEMS ARISE.

SAN MORTON
-73-3209

RANGING TO FISH -

1. WILL THE HP ACCEPT FISH DEPTH VIA RS-232?
   NOT REALLY
2. CAN WE OUTPUT HORIZONTAL + SLANT RANGE TO NAV + WRITE OUT WITH THE NAV STRING. ↔ ASK KAY.

3. HOW SENSITIVE SHOULD WE BE WITH FISH DEPTH CHANGES - TENTHS OF METERS? .....
   METERS - CHANGES OF A COUPLE OF METERS.

OPTIONS ON SUBBOTTOM MENU:

DIGITIZER -
DURATION - 1.0 (DEFAULT) - TAKING WHOLE PING FOR UNCORRECTED CHANNEL. IF SET TO ~1, I.E. .5, WILL TAKE 50% OF THE PING. ~~FOR DISPLAY PURPOSES~~ + SAVE 50% OF PING. WILL INCREASE RESOLUTION IF YOU WANT, I.E. SAVE 50% OF THE PING IN 2048 PIXELS.

UNCORRECTED ONLY

RESET - RESTARTS A.P.
IF A.P. GETS SCREWED UP. CAN HAPPEN IF PING RATE IS SLOWED DOWN + THRU PUT IS CLOGGED. ~~DOE~~ ALSO - FILTERING ROUTINE FOR TELEMETRY CAN BOG THE AP DOWN.

QMIPS.DAT - START UP
PARAMS ARE SET UP HERE
CAN SET CHANNEL TO SAVE, ETC.
WATER COLUMN - NOTHING
NEW YET.

NEW - FREEZE FRAME.
- QUICK ZOOM - W/ MOUSE

CHANNEL 1 = PORT
" 2 = STBD
" 3 = SUBBOTTOM

FOR THIS CRUISE:
- SAVING LATS + LONS
- ALSO RANGE STATION CODES
+ RANGES.

~~MAVE [illegible]~~

* DIGITIZE AT 250 KHZ - 300 KHZ
PROBABLY FOR OPTIMUM PERFORMANCE
WHILE LOGGING BOTH SUB-BOTTOM + SONAR.

SIMPLE.EXE - LOOKS AT RAW
DATA COMING IN
ON SONAR CHANNELS

BACKUP OF ORIGINAL FILES
ARE IN - D:\QMIPS\V6.18\BACKUP

IF A NEGATIVE NUMBER
IS ENTERED FOR LAYBACK,
HORIZONTAL RANGE IS CALCULATED.

7/30/89 7:15A LOCAL

JD-211 14:10 GMT

PREPARING TO LOWER AMS 120 FOR INITIAL TESTS.

- TRIGGERING ON PORT CHANNEL SET AT < -900

- USING TELEMETRY TO TRACK WATER COLUMN.

- USING RMS DOWNSAMPLING ROUTINE.

- DEFAULTING TO A FIXED RANGE OF 500m

STARTING WITH A RANGE OF 250m (500m SWATH).

SAMPLING RATE = 300 KHZ
RANGE = 250 m FIXED
PING RATE = 1.333 SECS/PING
(0.75 pings/sec)
ALT = TELEMETRY SOURCE

WRITING TO F:AMS001.DAT

JD 211/15:37Z FISH & DEPRESSOR IN WATER.

PROBLEMS:

~~EXITING OUT OF QMIPS~~

1. EXITING OUT OF QMIPS VIA THE SHELL WHILE USING 1000m SWATH OF AMS-120 & THEN RE-ENTERING QMIPS CAUSES QMIPS TO SOMETIMES HANG, SOMETIMES HALT TELEMETRY DISPLAY. HAVE RESET SYSTEM TO RESTART.

PROBLEMS.

2. SWITCHING FROM 500M SWATH TO 1000 m SWATH ON AMS FRONT PANEL CAUSES QMIPS TO HALT TELEMETRY, IF YOU TRY TO RESET OR RETRIGGER FROM MENU, QMIPS HANGS.

3. GOING FROM 1000m TO 500m OR TO + FROM OTHER SWATH WIDTHS IS FINE: QMIPS RETRIGGERS + COMES UP.

4. MOUSE STILL LEAVES TRACES AROUND THE DISPLAY. SEEMS ERRATIC.

5. EVEN AT 500m SWATH IF YOU QUIT OUT OF QMIPS RECORD MODE TO THE MAIN MENU (PLAYBACK, ETC), + THEN GO BACK INTO RECORD MODE, MACHINE HANGS WHEN AP IS TRYING TO INITIALIZE.

23:30 / 211 JD.
COPYING FILES TO OPTICAL DISK. FINISHED TESTING AMS-120. TVG - SEEMS SCREWED UP AT 1Km SWATH. COMPASS ALSO OFF 70° FROM SHIPS GYRO WILL TRY + CORRECT.

RECS 2000-4000
COPY AESTAMS1.DAT TESTAMS 3 + 4).DAT FOR KETH.

500m SWATH
TESTAMS7.DAT - GOOD FOR PROCESSING
ALSO:
TEST AMS6.DAT PING 7000 - END

* WHILE IN REAL-TIME SIMULATION MODE - CANNOT CHANGE ALT SOURCE. WHY?

ALSO: - SEE NEXT PAGE

THE ALTITUDE MEASUREMENT FROM THE AMS-120 READS A CERTAIN VALUE, SAY 80.0 + THE RED W.C. SEEMS TO BE TRACKING THE FIRST SONAR RETURN JUST FINE. HOWEVER IF YOU MOVE THE CURSOR OUT TO THE POSITION OF THE RED LINE, THE READ OUT INDICATES 56.0. ~~WHICH~~ WHAT ACCOUNTS FOR THE DISCREPENCY.

NOTE
* SLANT RANGE CORRECTION GENERATED BY QMIPS WORKS PROPERLY BASED ON TELEMETRY DATA

NOTE

MAGNETIC DECLINATION = 16° 45' WEST OF TRUE NORTH

ON STARTUP:

AMS 1 = UNCORRECTED, FIXED SCALE
AMS 2 = " VARIABLE "
AMS 3 = CORRECTED, FIXED SCALE
AMS 4 = CORRECTED, VARIABLE

↓

ALL FROM TELEMETRY (ALT SOURCE)

500 m SWATH
250 KHZ RATE
250 m RANGE (WHEN FIXED)

ALT SOURCE = CHANNEL 2
TAMS10.DAT

ALT SOURCE = CHANNEL 3
TEST.DAT, PING # 1500

DIGITIZER —
ALT SOURCE ✓
CHANNEL 3 ✓

TMED MEASURE
CORRECT ?

SAME AS ALT DISPLAY ?

— CHECK ALT SOURCE —

214 / 12:36

FORMATTED ALL OPTICAL DISKS TO 120 mb PARTITIONS - READY TO GO.

CLEANING OUT HARD DISK OF TEST FILES. SAVED ON TEST LEG OPTICAL DISK.

215 / 1:43 GMT

FISH IN WATER - CHECKING OUT THE SYSTEM.

DEPLOYING THE GEOPROBE.

COMING AROUND TO LINE 1.

SOL 12:14 GMT

WRITING TO AMS1.DAT

215/0254 WRITING TO AMS2.DAT
OCCASSIONALLY A FEW SCATTERED ROCKS

215/0332 STARTED WRITING TO AMS3.DAT

215/04:55 end of line 1 - linear feature

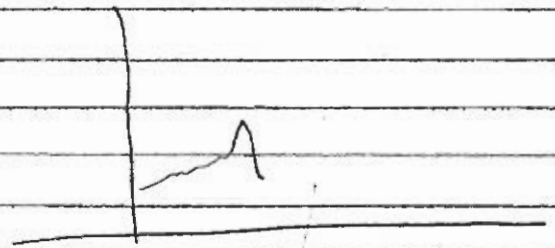
215/05:01 in turn to line 2
sand waves & ripples
TOM SAYS - IT'S WILD !!
BILL CONFIRMS THIS
JOHN & HERMAN STARTING TO SALIVATE
WE'RE ON OUR WAY

215/05:02 SOL # 2, AMS4.DAT
MORE OF THE SAME - RIPPLES
AND LARGER LINEAR FEATURE

215/05:49 A FEW RIPPLES ?

215/06:44 GRAVEL RIBBONS SURROUNDED BY FINE SAND - AS DESCRIBED ENTHUSIASTICALLY BY JOHN - TOM CONCURS - WE ALL AGREE - VERY NICE !! VERY VERY NICE CHECK IT OUT BILL

215/0714 - PRESSURE SENSOR ON FISH IS GOING CRAZY - TENS DIGITS SEEMS TO HAVE GONE SOUTH.



215/0731 VERY HARD RETURNS
ARCUATE PATTERN —
OUTCROPS?

215/0734 EOL 2

— IN TURN —

215/0758 - SOL 3
IRREGULAR PATCHES OF
VERY HIGH BACKSCATTER -
RIPPLES MAY BE COMING
IN AT PING 1600.
WRITING TO AMS7.DAT.

215/0758 ON DEL NORTE
NAVIGATION NOW. NAV
FOR LINES 1+2 WILL BE
OFF AS WE WERE USING
RHO-RHO PREVIOUSLY.

215/801 - BACK IN AN AREA
OF UNIFORMLY LOW BACKSCATTER.

215/0827 LINE 3 -
LINEAR AREAS OF HI
BACKSCATTER - LOOKS LIKE
ROCK RIDGES POKING THRU
SEDIMENT

215/0850 UNIQUE PATTERN -
PING 7060 SWATH OF IRREGULAR
AMS7.DAT SHAPE AREAS OF HIGH
BACKSCATTER FOLLOWED
BY A SMALL FIELD
OF SAND WAVES.

215/0906 RESET QMIPS
WRITING TO AMS6.DAT
ALTITUDE ON QMIPS DISPLAY
WENT TO -10.0. ALT SOURCE
ON AMS-120 BOX READ 56.9
M. QMIPS DISPLAYED A
RED #1 IN THE LOWER
RIGHT ~~LOWER~~ CORNER OF
DISPLAY. ?? ~~RESET QMIPS~~

RESTARTED QMIPS + EVERYTHING IS FINE.

EDITED ~~QMIP~~ QMIPS.DAT + CHANGED NAV STRING SETUP SO THAT QMIPS NOW NO LONGER UPDATING ITS INTERNAL CLOCK WITH EACH NAV INPUT. MONITOR THIS

215/0934 SWITCHED SIGNAL VALUE TO 4.

215/0952 EOL 3

215/0955 SWITCHED SIGNAL BACK TO 8.0.

0 1 2 3 4 5 6 7 8 9 10 11

0-255 8 bit
0-512 9 bit
0-1024 10 bit
0-2048 11 bit
0-4096 12 bit.

215/1000 SOL 4

215/1013 POWER DOWN ON AMS-120 FOR A COUPLE OF SECONDS TO TRY + REINITIALIZE THE DEPTH.

215/1020 & SINCE LAST TURN + SOL 4, HAVE BEEN IN AN AREA OF LOW BACKSCATTER WITH LITTLE OR NO FEATURES.

215/1030 WRITING AMS9.DAT TO DRIVE E: DISK #23 (USING IT FOR OVERFLOW)

215/1157 WRITING TO AMS11.DAT ON LINE 4.

215/1221 START LINE 5 WRITING TO AMS11.DAT WITH 2090 STORAGE. LEFT ON AMS12.DAT SIDE A INCREASE GAIN TO PORT 7 - STAR 6 (FROM 4 - 3)

215/1509
BEGIN LINE 6 ON AMS14.DAT

215/1546Z APPEARS MAJOR SCOOLS
OF FISH ON SLS RECORD

215/1641 LOST ALTITUDE SOURCE -10
THEN GOT IT BACK

215/[illegible] LINEAR PATTERN ON LAST [illegible]

215/1726 LOST ALTITUDE SOURCE, to -10
REGAINED

215/[illegible] FISH TELEMETRY fetched up
reset AMS120

215/1755 Turned mains on

215/1808 Lost altitude source -10
froze pitch
reset AMS 120

215/1824 froze pitch -10
Reset AMS 120

215/1827 pitch [illegible]

215/1842 ALT = -10m → RESET
TELEMETRY ALT SOURCE

215/1905 pitch = -10 Reset

215/2103 pitch = -12 ping# 4387

215/2115 alt = -10m ping 5930?
Reset through telemetry

215/2123 reset ping 6980

215/2156 SHIP PASSING

215/2223 reset alt

215/2300 - lots of ripples

215/2315 - alt = -10m ping ≈ 10,000
reset through telemetry

215/2327 - good fan-type action
great stuff

215/2347 - alt = -10m ping ≈ 3800
reset through telemetry

215/2351 SOL #9, AMS22.DAT

215/2359 pitch = ± 10m ping ≈ 4000
reset by Tom D

216/0023 pitch = ± 10m ping ≈ 8000
reset by turning power
supply off and then back on

216/0024 same thing again (pitch stuck)
procedure repeated

216/0030 telemetry hangup. Power cycle

216/0031 telemetry hangup Power cycle

216/0033 " " " "

216/0039 Ping 9949 reset altimeter
tracking

216/0045 Reset alt - come during
file change and telemetry hangup
off for about first 500 pings
of file AMS23.DAT

216/0056 Reset alt and pitch

216/0058 Reset alt
(this is getting ridiculous)

216/0101 Reset alt (twice)

216/0104 Rest alt AGAIN!

216/0105 Reset pitch

216/0107 Reset alt

216/0107 Reset pitch

216/0111 Reset alt twice ping ≈ 3800

216/0134 Reset pitch ping ≈ 6490

216/0153 Reset alt twice

216/0158 Reset alt twice ping ≈ 9440
(AMS 23.DAT)

216/0204 Reset pitch ping ≈ 17
(AMS 24.DAT)

216/0203 Start of file AMS24.DAT

216/0212 Reset alt ping ≈ 1050

216/0213 Reset alt ping ≈ 1150

216/0214 Reset pitch twice

216/0216 Reset pitch ping ≈ 1440

216/0217 Reset alt ping ≈ 1560

216/0219 Reset alt ping ≈ 1880

216/0223 Reset pitch ping ≈ 2290

216/0225 Reset pitch + alt ping ≈ 2600

216/0230 Reset pitch ping ≈ 3100

216/0230 Reset alt ping ≈ 3150

216/0231 Reset pitch ping ≈ 3260

216/0232 Reset alt twice ping ≈ 3400

216/0236 EØL 9 ping ≈ 3800

216/0251 SØL 10 ping ≈ 5700
AMS24.DAT

216/0257 Reset alt ping ≈ 6430

216/0316 Reset Sonar and Reset ALT

216/0321 Reset Sonar

216/0326 Reset pitch ping ≈ 9800
216/0328 SWITCH to E:AMS25.DAT
216/0329 Reset alt ping ≈ 200
E:AMS25.DAT

216/0330 Reset pitch ping ≈ 250

216/0333 Switch to AMS26.DAT

216/0342 Reset pitch ping ≈ 1230

216/0355 Reset pitch ping ≈ 2790

216/0404 Reset pitch ping ≈ 3870

216/0417 Reset alt ping ≈ 5400

216/0420 Reset alt ping ≈ 5700

216/0426 Reset alt ping ≈ 6500

216/0435 After a long stretch of nothing
Now starting to see ripples

216/0450 Switch to AMS27.DAT

216/0505 Reset pitch ping ≈ 1000
AMS27.DAT

216/0526 EØL 10 ping ≈ 3600

216/0528 Reset alt ping ≈ 3800

216/0534 Reset pitch ping ≈ 4520

216/0541 SØL 11 ping ≈ 5400

216/0557 Reset pitch ping ≈ 7200

216/0600 Reset pitch ping ≈ 7700

216/0601 Reset alt ping ≈ 7800

216/0604 Reset pitch ping ≈ 8100

216/0607 Reset alt ping ≈ 8500

216/0634 Reset pitch ping ≈ 1600

216/0635 Reset alt ping ≈ 1770

216/0645 Reset alt ping ≈ 2985

216/0646 Reset pitch ping ≈ 3100

216/0706 RESET PITCH PING ≈ 5577

216/0726 RESET PITCH PING ≈ 7855

216/0737 RESET PITCH PING ≈ 9195

216/0740 ALTITUDE LOCK PING ≈ 9646

216/0749 RESET PITCH PING ≈ 427

216/0757 PITCH & ALTITUDE PING ≈ 1670

216/0855 ALTITUDE RESET PING ≈ 8333

216/0925 RECOR BECOMING NOISY WITH THERMOCLINE (?) PROBLEMS.

216/0928 ALTITUDE RESET PING ≈ 2057
A YELLOW ASTERIX APPEARED NEXT TO FILE NAME

216/0928 RESET PITCH PING ≈ 2242

216/0928 RESET PITCH PING ≈ 2311

216/0929 RESET ALTITUDE PING ≈ 2388

216/0934 DEPTH JUMPING (TRY RESET) PING ≈ 2829

216/0947 RESET PITCH PING ≈ 4344

216/0949 RESET PITCH PING ≈ 4577

216/1000 RESET PITCH PING = 5869

216/1006 PICK UP A PATCH OF THERMOCLINE NOISE

216/1021 FIRST BEDFORMS IN 3.5 HRS

216/1037 START AMS 32.DAT (OVERFLOW FROM 31.DAT → 32.DAT) ONTO HARD DISK

216/1043 RESET ALTITUDE PING≈883
216/1058 RESET ALTITUDE PING≈2783
216/1104 RESET ALTITUDE PING ≈3493
216/1114 RESET PITCH PING ≈ 4680
216/1119 RESET PITCH PING≈5227
216/1133 RESET PITCH PING ≈ 6995
216/1143 FISH HEADING IS ~30° OFF SHIP HEAD
216/1155 RESET ALT PING=9553
BIG GLITCH
216/1206 RESET PITCH (ERROR 8) PING≈512
216/1206 " " PING 575
216/1217 RESET ALT PING≈1749
216/1220 RESET PITCH PING≈2132
216/1221 RESET PITCH PING≈2299

216/1227 - WE ARE "LOSING" UP TO 20mm OF DATA PER HOUR DUE TO THE RESET ALTITUDE PROBLEM --- DECIDED TO PUNT AND DIGITIZE ALTITUDE FROM STARBOARD CHANNEL.
216/1252 RESET PITCH PING≈6095
216/1442 RESET PITCH PING≈9114

216/1554 Reset pitch ping≈7676
216/1556 Reset pitch ping " 7957
216/1600 reset pitch ping≈8225

216/1616 Reset pitch ping = 138

216/1632 Reset pitch ping = 2112

216/1634 RESET PITCH PING = 2268

216/1634 Reset pitch PING = 2323

216/1639 Reset pitch PING = 2993

216/1647 Qmips, down for radio check

216/1648 - running

216/1700 reset pitch ping = 2512

216/1723 reset pitch ping = 4332

216/1724 reset pitch ping = 4433

216 reset pitch ping

216/1738 PULLING UP FISH

SS = STBD : 6, PORT : 7 } HI

SUB = 7, LOW

216/1858Z BEGIN LOGGING SLS WITH QMIPS

216/1920 ALT RESET

217/0032 Crosstrack Ripples

217/0722 - LOOKS LIKE A GAIN REDUCTION OCCURRED ON THE STARBOARD CHANNEL.

217/1006 SOL 20

217/1937 pitch reset ping = 8220

218/1217 BUMPED GAINS DOWN TO 5-PORT 4-STBD RECORD WAS BEING SATURATED.

218/1221 ON AMS79.DAT –
MAKE STRETCH:
LOW = 1
HIGH = 150

218/1407 FLAT, BORING,
FEATURELESS !!

218/2106 – reset pitch

218/2123 gain change

218/2355 QMIPS bombed at
close to end of line 32.
Bomb occured when QMIPS
tried to write to E drive
Restarted QMIPS with
new disk in drive E
Disk 12 Drive E New
Disk 23/B Drive E New

219/0152 – Reset pitch (pitch = -10)
by turning power
supply off + then
back on

Error message in
lower right hand
corner (am 8 was
displayed)

219/1452 NOTE –

FOR MOSAIC BOX 1 +
MOST OF BOX 2 –

* MAKE QMLINEAR
STRETCH = 190, 20

* FOR BOXES 3 + GREATER:
(AMS 79 + GREATER) USE
UPPER = 150
LOWER = 1 IN QMLINEAR

219/1623 Reset pitch

2/19 1706 SIDESCAN SIGNAL GETTING NOISY - WE'RE GOING TO PULL IT UP AT END OF LINE 38
HOOKED A CRAB POT BOUY !!

219/1815 Rebooted Qmips set to begin line 39

219/1900Z CHANGE AMS 120 GAINS TO H-4 AMS 109.DAT

219/1934 reset pitch

219/2018 CHANGE AMS 120 GAIN TO 5-4

219/2349 2 AMS resets

220/0608 Reset pitch (10m)

220/0733 RESET PITCH

220/0754 RESET PITCH

220/1114 RESET PITCH
220/1122 RESET PITCH
220/1123 RESET PITCH
220/1310 " "
220/1311 " "
220/1312 " "
220/1316 " "
220/1318
220/1321
220/1326 RESET PITCH
220/1327 RESET PITCH
220/1329 RESET PITCH
220/1330 RESET PITCH
220/1331 RESET PITCH
220/1331 " "

APPEAR TO BE RELATED TO THE FISH BEING RAISED ABOVE 18m DEPTH ?

220/1343 (*) RESET DIGITIZING RATE
REINITIALIZE Q-MIPS

220/1646 MAJOR F up in the display
The channels split ??

220/1657 Reset pitch

220/1707 2 x Reset AMS

220/1713 Reset pitch

220/1719 2x reset pitch

220/1716 2x Reset pitch
220/1726 "
220/1727 "
220/1728 "
220/1729 2x "
220/1730 "
220/1735 "

220/1737 RESET DIGITIZING RATE
Reinitialize Q-MIPS

220/1743 Reset ALT

220/1749 4.3 mi. from buoy
220/1756 reset pitch

220/2339 AMS reset

221/0021 Reset (pitch stuck at 10m)

221/0059 Reset (pitch stuck at -10m)

221/0102 Reset (pitch stuck at 10m)

221/0127 Reset pitch
~~221/0128 EOL 49~~

221/0130 QMIPS Reset

221/0136 Reset pitch

221/0242 Reset altitude

221/0248 Reset altitude
had to switch from channel 2 (+ channel 1)
back to telemetry

221/0450 Reset altitude

221/0456 Reset altitude

221/0501 Reset pitch

221/0516 Reset altitude

221/0517 Reset pitch

221/0518 Reset altitude

221/0531 Reset pitch

221/0539 Reset pitch

221/0551 Reset pitch

221/0607 Reset pitch

221/0609 Reset pitch

221/0620 Reset Q-mips

221 0623 Reset pitch

221/0700 Reset pitch

221/0854 Reset QMIPS Drive F Full
too many BeeF LOGS
Data Gap
↓
0857 ON

221/0903 - FILE AMS139 DOES NOT EXIST!! I MADE THE "NEXT FILE" AMS140.DAT INSTEAD OF AMS139.DAT

221/1509 RESET PITCH

221/1600 RESET PITCH

221/1635 RESET PITCH

221/1752 " "

221/1924 " "

221/2156 Disk full in E: Drive
Reinitialized Q mips

221/2221 Reset pitch

221/2325 reset pitch

222/0018 reset pitch

222/0029 reset pitch

222/0030 reset pitch

222/0037 reset pitch

222/0352 reset pitch

222 0440 pitch reset
222 0449 pitch reset

1.- AFTER AMS159 - WENT TO 160
222/1008 - Some lost data.

222/1523 reset pitch

222/1525 reset pitch
222/1535 " "
222/1559 "
222/1609 reset pitch
222/1618 " "
222/1634 " "
222/1652 reset pitch
222/1657 reset pitch
222/1703 reset pitch
222/1706 reset pitch
222/1707 reset pitch

PROBLEMS WITH TRACKING HRD BOTTOM PLAY WITH THRESHOLD.

222/1717 reset pitch

AMS162.DAT → OVERFLOW WITH NO ERROR MESSAGE --- SYSTEM LOCKED UP -- REINITIALIZE SYSTEM START AMS164.DAT

223/0103 fish in water

223/0105 initializing Q-mips

223/0108 letting out wire

223/0330 trying to fill up disk to approx 5% and E:AMS170.DAT file ended at 11%

223/0332 Q-MIPS failed while trying to switch files due to above scenario

223/0333 Resetting Q-MIPS

223/0333 Back in business

223/0734 FUCKING WITH QMIPS TO TRY + SYNC CLOCK WITH NAV. STRING (Reinitate)

223/
0746 RESTARTED QMIPS -
WILL BE A DATA
GAP BETWEEN AMS173.DAT
+ AMS174.DAT ~5-10 min.
QMIPS NOW UPDATED WITH
NAV CLOCK.

223/1706 - RESET PITCH

223/1709 - Reset Pitch

223/1729 Reset Pitch

223/1826 reset Pitch -

223/2147 FOR DATA SPACE AFTER
184.DAT LOOK ON D:
FOR OVERFLOW.DAT →
MISTAKE WHILE NAMING NEW FILE
INSTEAD OF AMS185.DAT
PUT IN AMS85.DAT

223/2243 reset pitch
223/2257
223/2256 reset pitch
224/0022 reset pitch

224/0024 reset pitch
224/0028 reset pitch
224/0032 reset pitch
224/0034 reset pitch
224/0036 reset pitch
224/0038 reset pitch
224/0040 reset pitch
224/0051 reset pitch
224/0057 reset pitch
224/0103 reset pitch

224/1007 reset pitch
224/1010 reset pitch
224/1015 reset pitch
224/1021 reset pitch
224/1025 reset pitch
224/1030 reset pitch

224/1036 YELLOW ASTERIX FLASHES NEXT
TO "FILE NAME" ????

224/1105 reset pitch

224/1211 POSSIBLY SOME
GAS SEEPAGE

224/1338 reset pitch.

224/1609 reset pitch

224/1703 RESET PITCH

224/1705 reset pitch

224/1708 reset pitch

224/1710 reset pitch
224/1713 reset pitch
224/1716 reset pitch
224/1724 "
224/1731 "
224/1732 reset pitch
224/1735 reset pitch
224/1738 reset pitch
224/1739 reset pitch

224/2351 reset pitch
225/0039 reset pitch
225/0045 reset pitch

Aborted trying to write to F: Drive
file AMS209.DAT 225/0110

Reset Q MIPS

~~Q Mips Reset~~

225/0200 Accidently switched files while doing something else on Q Mips. file 211 only covers part of turn to start of line. File 212 starts just after start of line

Shipwreck ≈ 80 m Stb
0415

225/0538 Reset pitch

225/0545 Reset Q-MIPS
Q-Mips crashed because storage went to <12% on optical disk

SHIPWRECK
Latitude ?
Longitude ?
Bill??

13 m wide
60 m long

Billy D. in control
Bob Elder standing by

225/0557 Changed swath to 200M

225/0620 SWITCHED TO AMS217.DAT
WRECK TARGET SHOULD BE
IN THIS FILE

225/0626 TARGET @ PING
2025, FILE E:AMS217.DAT

W = 11 m
L = 55 m RANGE = 65 m
H = 3 m

LAT = 37.63424
LON = -122.84260

225/0631 Changed swath to 500m

225/0702 reset range scale
to 375m FORGOT ABOVE

225/0749 PING 6600, FILE
E:AMS218.DAT

WRECK TARGET

225/0757 Pitch Reset

225/0814 Ping 9660
File E:AMS218.DAT
WRECK

225/0840 E:AMS219.DAT
Ping 1990
Scattered bits (scouring)

225/0910 Pass directly
over wreck
200 meter Swath
Ping ≈ 3700
E:AMS221.DAT

225/

FILES: AMS222.DAT (TO PING 3700)
AMS221.DAT
AMS220.DAT
AMS219.DAT
AMS217.DAT (PART)
AMS223.DAT
ALL AT 200m SWATH
(300 m EFFECTIVE SWATH)

AMS 223.DAT 225/1010
200 m swath (300 m effective)

Ping 1910 1016
AMS 223.DAT
Wreck on Port side
approx Parallel
200 meter Swath

225/1022 BACK TO LINE
82 - CONTINUING
LINE.

WRITING TO AMS224.DAT
BACK TO 500 m
SWATH WIDTH

~~FIN~~ THRU WITH
THAT WRECK!

225/1035 BACK ON LINE 82.

225/1300 - A FIELD OF POCKMARKS.
MAX DIAMETER = 30 m

FISH WAS FLYING TO HIGH (NOISY)
PRIOR TO NOTICING THE POCKMARKS
~~FOR THE~~ FROM THE BEGINNING OF
LINE 83.

225/1558 visit pitch

225/1840 ⇒
NOTE
AMS231 → FILE NAME
USED TWICE *

226/0829 RECIEVING STRONG REFLECTORS
---- CAUSING A LOT OF CROSS TALK
BETWEEN CHANNELS, INCLUDING
CHANNEL 3 (4.5 kHz)
?

226/0925 Q-MIPS SENDS "LOST PING"
WARNING --- TRY TO REFRESH
THE SCREEN & SYSTEM LOCKS
UP --- NO DISPLAY ~~#~~'S
APPEARS NOT CAPABLE OF
CATCHING UP WITH ITSELF
--- SWITCHED TO 1 PING/SEC

REFRESHED SCREEN -- ALL APPEARS TO BE WORKING AGAIN ??

226/0941 reset pitch.
226/1108 reset pitch.
226/1116 - LOOKS LIKE A LOT OF VEHICLE INSTABILITY ON RECORD
SPEED ≈ 4.0 KNOTS
ROLL ≈ 0° → -0.9°
PITCH ≈ 0.8° → -1.7°
DEPTH ≈ 17m
- WE MAY BE SEEING THE EFFECT OF THE SHORT TEATHER --- PITCH WORSE NOW THAT WE ARE RUNNING INTO THE SWELL.

226/1208 reset pitch
226/1220 reset pitch
226/1254 RESET PITCH
226/1305 RESET PITCH
226/1324 reset pitch

226/1409 Reset pitch
226/1410 " "
226/1413-1414 " " Three times
226/1416 - reset pitch

226/1433 reset pitch.

226/1444 reset pitch
226/1445 reset pitch
226/1453 reset pitch
226/1500 " "
226/1502 "
226/1506 "
226/1512 "
226/1513 "

226/1611 -
BEEN HAVING PROBLEMS WITH THE BOTTOM TRACKING --- A LOT OF SHIT IN THE WATER COLOMN, AN UNSTABLE FISH, & ROCK OUTCROPS ALL ADD TO THE PROBLEM.

226/1644 - reset pitch

226/1654 - FOR THE LAST 7 MIN BEEN FUCKING WITH BOTTOM TRACKING --- BEEN HAVING PROBLEMS -

226/1729 reset trigger

226/1729 reset trigger

226/1734 reset trigger

226/1734 reset trigger

226/1736 reset fucking Trigger

226/1724 RESET FUCKING TRIGGERS —

226/1827 Reset pitch
226/1829 " "

226/1831 reset pitch
226/1835 reset pitch

226/1842 reset pitch

226/1844 reset pitch

226/1845 reset pitch

226/1846 reset pitch

226/1907 reset pitch
226/1910 " "
226/2101 " "
226/2136 " "
226/2137 " "
226/2145 AS ABOVE!
226/2147 SEE 226/1729!
226/2153 as above
226/2220 "
226/2235 "
226/2239 "
226/2254 "

226/2302 Reset pitch twice.
226/2310 Reset pitch
226/2312 Reset pitch

2315 Reset QMips on Turn

226 2321 Reset Pitch

227/0211 Reset pitch
227/0216 Reset Pitch

227/0242 Pitch Reset

227/0300 Pitch Reset
227/0311 Pitch Reset
227/0314 Pitch Reset Twice
227/0322 Pitch Reset
227/0324 Pitch Reset
227/0330 Pitch Reset
227/0332 Pitch Reset
227/0338 Pitch Reset

227/0701 reset pitch
227/0747 " "
227/0750 Reset pitch
227/0757 reset pitch
227/0821 reset pitch
227/0847 reset pitch

227/0910 SOL - SWITCH TO
FILE AMSZL8.DAT

227/0937 reset pitch

227/1028 reset pitch
227/1106 reset pitch
227/1148 reset pitch
227/1215 reset pitch

227/1244 reset pitch
227/1256 RESET PITCH
227/1320 reset pitch
227/1328 reset pitch
227/1329 reset pitch
227/1329 " "
227/1334 reset pitch
227/1347 reset pitch
227/1404 reset pitch
227/1414 reset pitch

SHUT DOWN Q-MPS

RESTART TRY & CORRECT
THE PITCH PROBLEM.

227/1428 RESET Pitch

227/1455 RESET PITCH

227/1519

227/1522 reset pitch

227/1536 reset pitch

227/1538 " "

227/1547 - - -
WENT BACK
ON DEL NORTE
NAVIGATION

227/1555 reset pitch
227/1615 reset pitch
227/1616 reset pitch
227/1618 " "
227/1629 " "
227/1630 Reset pitch
227/1633 reset pitch
227/1634 reset pitch
227/1635 reset pitch
227/1638 reset pitch
227/1641 reset pitch
227/1649 reset pitch
227/1649 reset pitch
227/1654 reset pitch
227/1656 reset pitch
227/1703 reset pitch
227/1706 reset pitch
227/1707 reset pitch
227/1708 reset pitch
227/1708 reset pitch
227/1719 reset pitch
227/1720 reset pitch
227/1734 " "
227/1737 RESET PITCH
227/1749 reset pitch
227/1750 reset pitch
227/1753 reset pitch

227/1755 reset pitch
227/1836 RESET PITCH
227/1846 RESET Bitch
227/1856 reset fucker
227/2035 " "
227/2040 RESET GASH
227/2055 RESET E.T.
227/2103 RESET E.T.
227/2109 BINGO
227/2112 "
227/2120 "
227/2144 "

227/2215 Veering off track
as not to hit
something in the water

228/0109 Reset Pitch
228/0126 " "
228/0136 Reset Pitch
228/0146 " "
228/0209 Reset Pitch
228/0221 Reset Pitch
228/0241 Reset Pitch
228/0304 Reset Pitch
228/0306 Reset Pitch

218/0359 Reset pitch
218/0409 Reset pitch
218/0412 Reset pitch
218/0425 Reset pitch
218/0426 Reset pitch
218/0445 Reset pitch
218/0546 RESET PITCH

- Q-MIPS
HISTOGRAM GETS LOCKED UP ---
NEED TO TURN IT OFF & ON TO
GET IT TO UPDATE.

228/2029 RESET ALMOST A SONAR
SYSTEM

228/2037 reset pitch
228/2041 RESET BITCH
228/2101
228/2150 reset pitch

229/0649 Reset pitch (twice)

229/0128 ≈
2 AMS Resets. Didn't note
exact time as flying in
canyon keeping a little busy.

Totally lost all Bottom
track in bottom of canyon
due to extremely strong
nephel layer. No amount
of thresholding now the
Subbottom could penetrate.

Winch Dropped out at bottom
of Canyon so stayed
rather high across deepest
point until control of winch
regained.

229/0711 HAVING PROBLEMS WITH
A DENSE NEPHELOID LAYER --
BOTTOM IS DIFFICULT TO SEE
& WILL NOT ALLOW TRACKING
∴ ALT. DATA UNRELIABLE.

LINE 109 - HAVING A LOT OF PROBLEMS WITH TRACKING THE BOTTOM --- WILL TRY 1000m SWATH WIDTH ON THE NEXT LINE.

LINE 110 - SWITCH TO 1000m SWATH - AMS 312.DAT
GETTING ~ 435m per SIDE BEFORE SIGNAL GETS OVERWHELMED WITH NOISE.

229/1114 - Reset Pitch.

227/1434 PITCH + HEADING ARE HUNG

227/1446 QMIPS OFF -
AMS-120 STILL HANGING UP. AMPS WILL DROP TO ~ 0.3 ON SCALE + GO BACK UP TO OPERATING AMPS OF ~1.0 - AMS THEN HANGS UP.

- ~~[illegible]~~

- IN WATER DEPTH >300m IT WAS DIFFICULT TO CONTROL THE FISH --- FISH DID NOT REACT TO EXTENDED SCOPE WELL --- STARTED TO KITE --- POSSIBLY A HEAVIER DEPRESSOR MAY HELP & SLOWER SPEED -- WE WERE TOWING @ ~ 3.8 KNOTS *

229/1901 DEPLOY AMS-120
RUNNING LINES BETWEEN FARALLONES
E: AMS315.DAT
LINE 111

229/1957 RESET AMS
229/2136 RESET
229/2158 RESET

229/2330 When file switched at end of line momentarily went to hard disk since no next file had been entered. (Between files AMS319 & AMS320)

230/0231 Reset AMS

230/0239 Reset AMS

230/0242 Reset AMS

230/0318 Reset AMS

Finish Survey
at end of
Line 117
230/0434 Z