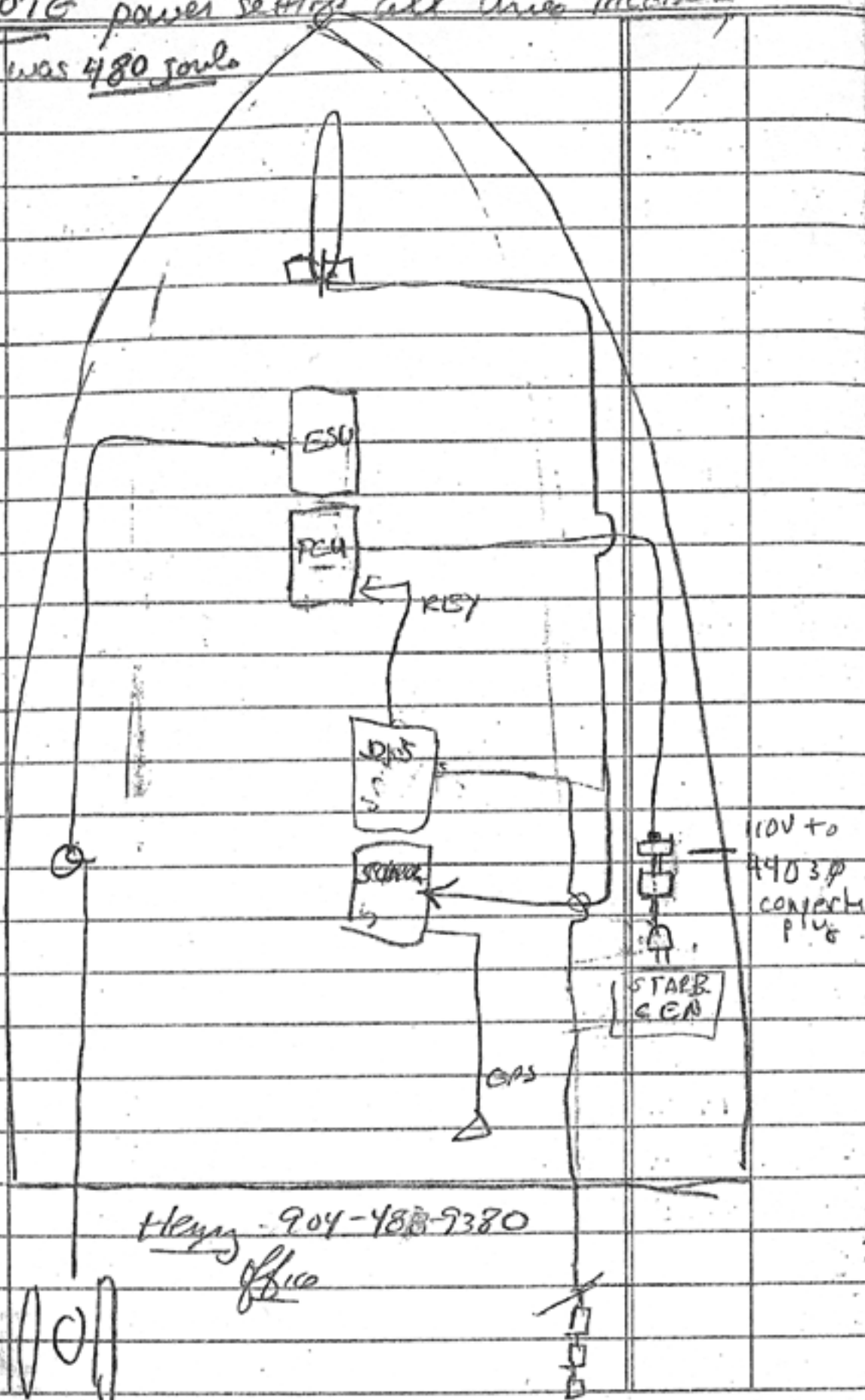


5/97 - FGS Cape Cannon

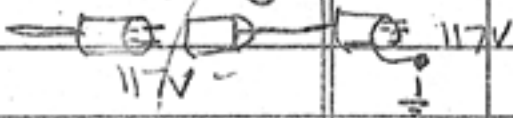
NOTE power settings all lines incorrect

power was 480 volts



Starboard Gen to P.S.

Part Gen for Computers

(Power Supply on 110 V using
440 3 ϕ to 117V sig. phase
converter plug 

Sonar

IP Lite (Delphin 95 V. 30)

Sonar link - grounded to hull (AC noise in record eliminated)

Taz drive

data saved in ELICS

Nav via geolink (navplgr.pln)

Plgr

Seismic

IP Lite Delphin 95 V. 30

Taz Drive

data saved in Elics (converted later to SEGY)

Nav from Geolink (navplgr.pln)

Plgr

5 - amp 100ms, shoot 200 ms ; 60-135 Javelot
14 KHZ

DIR: ss = FGS97-ss

DIR: seis = FGS97-sb

DIR: NAV = NAVPLGR.PLN (COM A)

NOTE - all data in ELICS format

5/6/97

phones 4, 5, 6, 7, 8, 9 on, 270 Joules

100 kHz - 75m swath, Gain = 1

SOL SB-B12K 15:35

SOL SS-B12K 15:35

SOL NAV-B12K 15:35

HEAD 124°

EOL SB-B12K 11:19

EOL SS-B12K 11:19

EOL NAV-B12K 11:19

SOL T1-SB 15:25

SOL T1-SS 15:25

SOL T1-NAV 15:25

1200 shots for files

EOL T1-SB 15:25

EOL T1-SS 15:25

EOL T1-NAV 15:25

SOL SB-B24 16:18

SOL SS-B24 16:18

SOL NAV-B24 16:18

heading (256°)

EOL	SB-B24	17:58
EOL	SB-B24 (270°)	17:58
EOL	NAV-B24	17:58
SOL	SB-B26 (90°)	18:29
SOL	SS-B26	18:29
SOL	NAV-B26	18:29
EOL	SB-B26	20:30
EOL	SS-B26	20:30
EOL	NAV-B26	20:30
GOL	SB-B28 (270°)	20:47
SOL	SB-B28 100M swath	20:50
GOL	NAV-B28	20:54
(NOTE! CHANGED FROM 75M SWATH to 100m swath)		
(100 M SWATH - GOOD DISPLAY) GOOD BOTTOM TRACK		
dolphins @ Fix 14 70 - 14 80		
EOL	SB-B28	22:18
EOL	SS-B28	22:18
EOL	NAV-B28	22:18

SOL	SB B30	($\approx 190^\circ$)	22:38
SOL	SS B30	100 m, 100 KHZ	22:38
SOL	NAV B30		22:38
EOL	SB B30	(Line Broken off	23:38
EOL	SS B30	due to darkness)	23:38
EOL	NAV B30		23:38

(1)

5/7/97 135 Joules, 2SDms shot, 100ms. save, -1215
 100 KHZ, 100m. Linear - same

SOL	SB - B30A	90°	12:42
SOL	SS - B30A		12:42
SOL	NAV - B30A		12:42
EOL	SB - B30A		13:32
EOL	SS - B30A		13:32
EOL	NAV - B30A		13:32
SOL	SB - B32	270°	13:40
SOL	SS - B32		13:40
SOL	NAV - B32		13:40
EOL	SB - B32		15:17
EOL	SS - B32		15:17
EOL	NAV - B32		15:17
SOL	SB - B35	90°	15:43
SOL	SS - B35		15:43
SOL	NAV - B35		15:43
EOL	SB - B35	note - original name SB - B34 - wrong live - was really SB - B35	17:13
EOL	SS - B35		17:13
EOL	SB - B35		17:13

M

SOL	SB-B36	(270°)	17:21
SOL	SS-B36		17:21
SOL	NAV-B36		17:21

EOL	SB-B36		18:49
EOL	SS-B36		18:49
EOL	NAV-B36		18:49

SOL	SB-B38	(90°)	19:06
SOL	SS-B38		19:06
SOL	NAV-B38		19:06

EOL	SB-B38		20:38
EOL	SS-B38		20:38
EOL	NAV-B38		20:38

NOTE: SS-B38 tube Made to AIF-16

ITEM/SS-B38.PRC,

X=54745

SOL	SB-B40	(270°)	20:55
SOL	SS-B40	(Late start due to above process)	20:59
SOL	NAV-B40		20:56

2

EOL SS-B40

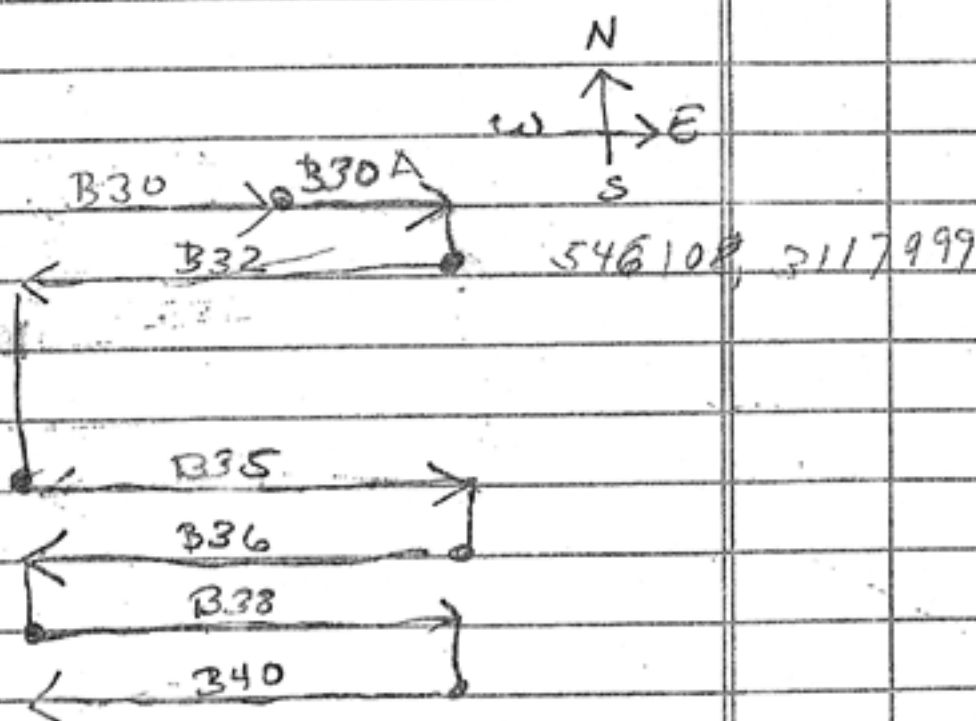
22:09

EOL SS-B40

22:09

EOL NAV-B40

22:07



B38 NW corner =

$x = 547425.25$ (547425)

$y = 3113012.16$ (3113012)

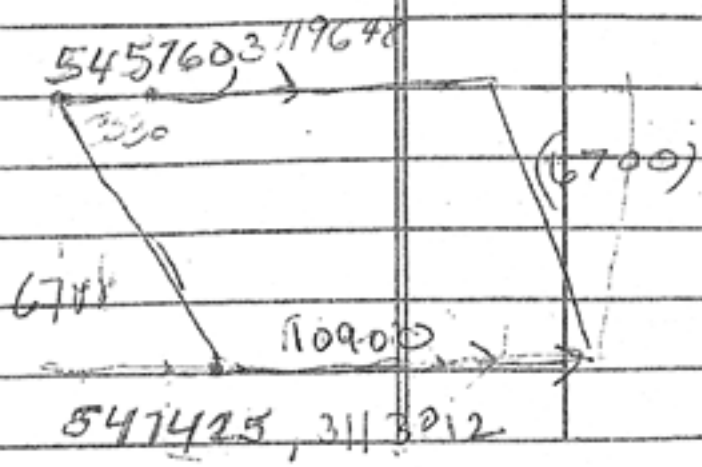
$x_{\Delta} = 10859$ m (10900m)

$y_{\Delta} = 300$ m

B30

$x = 545760$

$y = 3119648$



5/8/97 135 Tows, 100 m/s, 200 mc
100 kHz, 100 m

- NO Side Scan This day

SOL SB B42 (090°) 12:18

SOL NAV B42 12:12

(NO SS - scan too high @
heading of 90° - scan 4' 90°)

EOL SB B42 13:50

EOL NAV B42 13:50

SOL SB B44 (270°)

SOL NAV B44

sea anchor replaced
shot 4000 - 6000

EOL SB B44 15:27

EOL NAV B44 15:27

SOL SB B46 (090°) 15:49

SOL NAV B46 15:49

EOL SB B46 17:29

EOL NAV B46 17:29

SOL SB-B48 (270°) 17:45

SOL SS-B48 (see column) 17:57

SOL NAV-B48 trying S.S. 17:45

NOTE: Seas calmer - trying
side scan - calls length increased
(2ms)

EOL SB-B48 19:17

EOL SS-B48 19:17

EOL NAV-B48 19:17

SOL SB-B50 (090°) 19:37

SOL SS-B50 19:37

SOL NAV-B50 19:37

{ NOTE - eats gone from
~21:00 - 21:21 }
EOL NAV-B50 21:00 }

EOL SB-B50 21:25

EOL SS-B50 21:25

SOL SB-B52 (270°) 21:52

SOL SS-B52 21:52

SOL NAV-B52 (NAV OK) 21:52

EOL SB-B52 19:08

EOL SS-B52 19:08

EOL NAV-B52 19:08

Geolink / Delahwin (UTM boxes)

	NW (x,y)	SE (x,y)	Km
NAV B24-1	544822.3	556127.1	(11.33km)
	3126243.1	3122534.3	
NAV B26	545347.4, 3124783.5	557369.0, 3122524.6	(11.62)
B28	545412.2, 3122902.2	555930.3, 3126237.3	(10.50)
B30	545839.2, 3120015.6	552161.7, 3118911.3	(6.31)
B34	546841.4, 3117256.0	558068.7, 3114711.9	(11.22km)
B36	546908.6, 3116276.5	557958.9, 3113048.7	(11.0km)
B38	547588.3, 3114601.8	558302.2, 3111823.3	(10.8km)
B40	547761.7, 3112585.2	557950.8, 3110021.1	(10.25km)
B42	546726.3, 3111747.5	559276.8, 3108192.5	(12.5km)
B44	548908.9, 3109922.8	559599.9, 3106515.6	(10.82)
B46	549314.6, 3109847.1	559167.1, 3105032.8	(11.50)
B48	549327.0, 3107406.9	560928.7, 3103466.5	(11.50)
B50	549983.6, 3105479.6	557864.0, 3102306.2	(7.85)
B52	550708.7, 3103672.8	562107.7, 3099918.7	(11.36)
	5		
B12	544711.8, 3137408.0	555647.8, 3132585.7	(11.18)
B30	552418.0, 3120395.2	557189.5, 3118956.7	(4.77)
B56	552024.6, 3100830.0	563513.5, 3097170.6	(11.5)
B54	551735.5, 3102309.9	563051.3, 3098725.4	(11.28)

B54 = $2x = 12000$

B56 = $2y = 3000$

52 28 02.597 N =

80 28.024 W =

5/9/97, 250ms, 100ms sawt, 135 Jaws (1212)
 100m swath, 1012 kHz (6man)

SOL	SB-B54	(90°)	14:29
SOL	SS-B54		14:29
SOL	NAV-B54		14:29

EOL	SB-B54		15:57
EOL	SS-B54		15:58
EOL	NAV-B54		15:58

SOL	SB-B56	(270°)	16:15
SOL	SS-B56		"
SOL	NAV-B56		"

EOL	SB-B56		17:44
EOL	SS-B56		17:44
EOL	NAV-B56		17:44

5/16/97 100ms. S.no / 200m; 135 Jamb.
 Seas - 2-3' 100KHZ, 100m

SOL	SB-B58	(270°)	12:58
SOL	SS-B58		12:58
SOL	NAV-B58		12:58
EOL	SB-B58		14:33
EOL	SS-B58		14:33
EOL	NAV-B58		14:33
SOL	SB-B60	(090°)	~ 14:54
SOL	SS-B60		~ 14:54
SOL	NAV-B60		14:54
EOL	SB-B60		16:31
EOL	SS-B60		16:31
EOL	NAV-B60		16:31
SOL	SB-B62	(270°)	16:45
SOL	SS-B62		16:45
SOL	NAV-B62		16:45
EOL	SB-B62	(seas 3' choppy)	18:29
EOL	SS-B62		18:29
EOL	NAV-B62		18:29

5/13/97 (100ms same, 1.35 Tules, 250ms Sh
 100 m swirl, 100KHZ (500KHZ)

SOL	SB B21	(rec delay = 18ms } 270° })	12:55
SOL	SS B21		12:55
SOL	NAV-B21		12:55

EOL	SB B21	(NOTE: Tall object (21')	14:29
EOL	SS B21	in SS - shadow ~ 40m	14:29
EOL	NAV B21	(object-wh, shad-black)	14:29

SOL	SB B19	(rec delay = 18ms } (090° })	14:57
SOL	SS B19		14:57
SOL	NAV B19		14:57

FOL	SB-B19		15:12
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SOL	SB-B19A (NO DELAY)		15:15
-----	--------------------	--	-------

Note: SB-B19 had
 delay settings incorrect so
 SB-B19A started.

EOL	SB-B19A		16:34
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EOL	SS-B19		16:34
-----	--------	--	-------

EOL	NAV-B19		16:34
-----	---------	--	-------

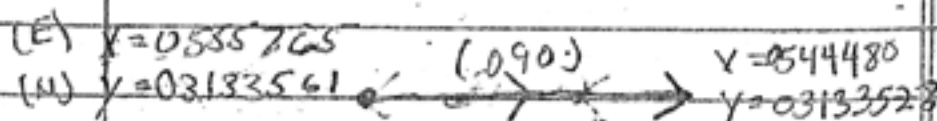
SOL	SB B17		16:57
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SOL	SS B17 (500 KHZ; 100 KHZ)		16:57
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SOL	NAV-B17		16:57
-----	---------	--	-------

(Note SS B17 started @ 500KHZ }
 - turned back to 100 KHZ @ 17:31 }

EOL	SB-B17		18:28
EOL	SS-B17		18:28
EOL	NAV-B17		18:28
SOL	SB-B15	(270°)	18:52
SOL	SS-B15		18:52
SOL	NAV-B15		18:52
EOL	SB-B15		20:25
EOL	SS-B15		20:25
EOL	NAV-B15		20:25
SOL	SB-B13	(090°)	20:43
SOL	SS-B13		20:43
SOL	NAV-B13		20:43
EOL	SB-B13		22:21
EOL	SS-B13		22:21
EOL	NAV-B13		22:21



B12	Lat	28 20.056	28 20.059	} Wgs 84, UTM
	Long	80 32.352	80 25.785	
	$y =$	598325.335046	598325.335046	} Wgs 84 UTM
	$y =$	3097665.227352	3097665.227352	

5/14/97

100ms same, 250ms shot 135 Jolo
100 kHz, 100m

SOL	SB-B64	(1090°)	13:14
SOL	SS-B64		13:14
SOL	NAV-B64		13:14
EOL	SB-B64		14:55
EOL	SS-NAV		14:55
EOL	NAV-B64	-note - nav-ended early (NAV not logged for part of SB or	14:55
SOL	SB-B66	(1270)	15:21
SOL	SS-NAV		15:21
SOL	NAV-B66		15:21
EOL	SB-B66		16:57
EOL	SS-B66		16:57
EOL	NAV-B66		16:57
SOL	SB-B68	(1090°)	17:30
SOL	SS-B68		17:30
SOL	NAV-B68		17:30
EOL	SB-B68		19:17
EOL	SS-B68		19:17
EOL	NAV-B68		19:17

5/15/97

100ms saw, 250ms shot, 135 Joules

Nice Weather

100 KHz, 100m

SOL	SB-B23	(270°)	13:22
SOL	SS-B23		13:22
SOL	NAV-B23		13:22
EOL	SB-B23		15:00
EOL	SS-B23		15:00
EOL	NAV-B23		15:00
SOL	SB-B25	(090°)	15:25
SOL	SS-B25		15:25
SOL	NAV-B25		15:25
EOL	SB-B25		17:05
EOL	SS-B25		17:05
EOL	NAV-B25		17:05
SOL	SB-B27	(270°)	17:33
SOL	SS-B27		17:33
SOL	NAV-B27		17:33
EOL	SB-B27		19:23
EOL	SS-B27		19:23
EOL	NAV-B27		19:23

SOL	SB-B29	(090°)	19:46
-----	--------	--------	-------

SOL	SS-B29		19:46
-----	--------	--	-------

SOL	NAV-B29		19:41
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Dead Tackle	(90° 28.770256, 28° 12.548128)		
-------------	--------------------------------	--	--

EOL	SB-B29		21:19
-----	--------	--	-------

EOL	CS-B29		21:19
-----	--------	--	-------

EOL	NAV-B29		21:19
-----	---------	--	-------

39 left

5/16/97 100ms case, 250 M. short, 135 Joules
 100m Sawet, 100 RHT.

SOL	SB-B31	(090°)	12:07
SOL	SS-B31		12:07
SOL	NAV-B31		12:07

EOL	SB-B31		13:52
EOL	SS-B31		13:52
EOL	NAV-B31		13:52

SOL	SB-B32	(270°)	14:10
SOL	SS-B32		14:07
SOL	NAV-B32		14:07

EOL	SB-B33		16:05
EOL	SS-B33		16:05
EOL	NAV-B33		16:05

(Swells from W 23-4/4)

(29 Oct) 6AM

5/17/97 100 ms Saw, 250 ms Shot, 135 Tabs
100m Saw, 100kHz

SOL SB-B72 (090°) 13:20

SOL SS-B72 13:20

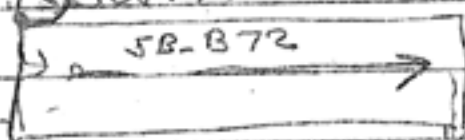
SOL NAV-B72 13:20

EOL SB-B72 15:00

EOL SS-B72 15:00

EOL NAV-B72 15:00

SOL 5570443, 3087732 x=e, y=n



571141, 3086833n

SOL SB-B74 (270°) 15:24

SOL SS-B74 15:24

SOL NAV-B74 15:24

EOL SB-B74 17:00

EOL SS-B74 17:00

EOL NAV-B74 17:00

NOTE - GPS lost at end

(last fix 16:53)

SOL	SB-B76	(090)	17:27
SOL	SS-B76	-shallow area 46,80	17:27
SOL	NAV-B76		17:27
EOL	SB-B76		19:20
EOL	SS-B76		19:20
EOL	NAV-B76		19:20
SOL	SB-B78	(270)	19:38
SOL	SS-B78		19:38
SOL	NAV-B78		19:38
EOL	SS-B78	(locked up)	20:02
SOL	SS-B78		20:37
EOL	SB-B78		21:11
EOL	SS-B78		21:11
EOL	NAV-B78		21:11

(NOTE: FLSH(SS) covered
by 20'-30' of plastic (risgwan))

25 left

B78 {
 $x=560420, y=3083507$ (N, W)
 $x=571160, y=3081990$ (S, E)
 $y=107400$
 $y=1517$

5/18/97 (Long Line N → S) 100 mg, 250m
 100 KHz 160m

SOL	SB - A1	(180°)	12:51
SOL	SS - A1		12:51
SOL	NAV - A1		12:51
EOL	SB - A1		14:19
EOL	SS - A1		14:19
EOL	NAV - A1		14:19
SOL	SB - A2		14:20
SOL	SS - A2		14:20
SOL	NAV - A2		14:20
EOL	SB - A2		15:20
EOL	SS - A2		15:20
EOL	NAV - A2		15:20
SOL	SB - A3		15:20
SOL	SS - A3		15:20
SOL	NAV - A3		15:20
EOL	SB - A3		16:38
EOL	SS - A3		16:38
EOL	NAV - A3		16:38

SOL	SB-A4	16:39
SOL	SS-A4	16:39
SOL	NAV-A4	16:39
COL	SB-A4	17:58
COL	SS-A4	17:58
COL	NAV-A4	17:58
SOL	SB-A5	17:59
SOL	SS-A5	17:59
SOL	NAV-A5	17:59
COL	SB-A5	19:13
COL	SS-A5	19:13
COL	NAV-A5	19:13
SOL	SB-A6	19:13
SOL	SS-A6	19:13
SOL	NAV-A6	19:13

(NOTE: write Bathnav for logging
 GPS (GGA, VTG, ZDA, ZTZ) and Inertial depth
 - controlled by AbuGraphic XL output line)

5/19/87 100m SW 250m SW 133 miles
 100m SW 100m SW

SOL	SB-B79: (090)	13:23
SOL	SS-B79	13:23
SOL	NAV-B79	13:23
SOL	NAV-79 (BATH NAV)	13:23
	(L/L, UTC, COCT, COG SOL W/D/Y)	
COL	SB-B79	14:57
COL	SS-B79	14:58
COL	NAV-B79	14:58
COL	NAV-79	14:58
SOL	SB-B1SN (360°) Long line	15:36
SOL	SS-B1SN	15:36
SOL	NAV-B1SN	15:36
SOL	NAV-B1 (BATH NAV)	15:36
COL	SB-B1SN	16:54
COL	SS-B1SN	16:54
COL	NAV-B1SN	16:54
SOL	SB-B2 SN	16:55
SOL	SS-B2 SN	16:55
SOL	NAV-B2 SN	16:55

EOL SB-B2 SN 17:54

EOL SS-B2 SN 17:54

EOL NAV-B2 SN 17:54

SOL SB-B3 SN 18:55

SOL SS-B3 SN 18:55

SOL NAV-B3 SN 18:55

EOL SB-B3 SN (stopped line) 21:12

EOL SS-B3 SN (due to gen overhead) 21:12

EOL NAV-B3 SN (storm venting) 21:12

SOL SB-B4 SN 21:14

SOL SS-B4 SN 21:14

SOL NAV-B4 SN 21:14

{ EOL NAV-B 22:03 }
{ SOL NAV-BA 22:03 }

EOL SB-B4 SN 22:14

EOL SS-B4 SN 22:14

EOL NAV-B4 SN 22:14

EOL NAV-BA SN 22:14

(NOTE: Renamed all B1-4 files to
'B1-4-SN' (SN = south & north))

5/20/97 100ms SWP, 250m SKT, 135 Sunde
 long line BS 100m SWP, 100 LU 2

SOL	SB-BSns (north-south)	13:12
SOL	SS-BSns	13:12
SOL	NAV-BSns	13:12
SOL	NAV-BSns (Bathnaw)	13:12
EDL	SB-BSns	15:16
EDL	SS-BSns	15:16
EDL	NAV-BSns	15:16
EDL	NAV-BSns	15:16
SOL	SR-D1	15:36
SOL	SS-D	15:36
SOL	NAV-D	15:36
SOL	NAV-D (Bathnaw)	15:36
EDL	SB-D	
EDL	SS-D	
EDL	NAV-D	
EDL	NAV-D	
SOL	SB-B11	16:27
SOL	SS-B11	16:27
SOL	NAV-B11	16:27
SOL	NAV-11	16:27
EDL	NAV-B11 (Geol. wk)	~ 17:00
	(Chair picked up @ 17:49 again)	

EOL	SB-B11	18:07
-----	--------	-------

EOL	SS-B11	18:07
-----	--------	-------

EOL	NAV-11	18:07
-----	--------	-------

(NAV-B11 did @ 17:00, had @ 17:45)

SOL	SB-B9	18:29
-----	-------	-------

SOL	SS-B9	18:29
-----	-------	-------

(Note - Geohink logging suspended for remainder of (this))

SOL	NAV-9	18:29
-----	-------	-------

EOL	SB-B7	20:07
-----	-------	-------

EOL	SS-B7	20:07
-----	-------	-------

EOL	NAV-7	20:07
-----	-------	-------

SOL	SB-B7	20:21
-----	-------	-------

SOL	SS-B7	20:21
-----	-------	-------

SOL	NAV-7	20:21
-----	-------	-------

5/21/97 100ms saw, 250ms shot, 135 Joules
 100ms wait, 100KHz

SOL SB-B35 (090) 11:58

SOL SS-B35 11:58

SOL NAV-35 (Bathnav)
 (Geolink not saving passing
 data thru to Delph) 11:58

EOL SB-B36 13:24

EOL CS-B35 13:24

EOL NAV-35 13:24

SOL SB-R37 (270) 13:42

SOL SB-B37 13:42

SOL NAV-37 13:42

(Shot 10.300 - sink hole?)

EOL SB-B37 15:12

EOL SS-B37 15:12

EOL NAV-37 15:12

SOL SB-B39 (090) 15:29

SOL SS-B39 15:29

SOL NAV-39 15:29

(note - last gen (alt) p.s.

EOL SB-B39 side-lost 3min data) 16:16

EOL SS-B39 16:16

EOL NAV-39 16:16

SOL	SB-B5	(090)	18:25	
SOL	SS-B5	(Loose connector)	18:44	
SOL	NAV-35		18:26	
		(loose connection on fish ply caused delay)		
EOL	SB-B5		20:10	
EOL	SS-B5		20:10	
EOL	NAV-35	(off cap Conn - GPS down twice (A, D code) (CA, V both messed up)		
SOL	SB-B3	(270)	20:20	21:23
SOL	SS-B3		20:16	
SOL	NAV-B3		20:10	
EOL	SB-B3		21:23	21:53
EOL	SS-B3		20:23	
EOL	NAV-3		20:23	

5/22/97 100ms range, ~~250ms~~ 250ms scale
 100ms sweep, 100 kHz

SOL	SB-B41	(090)	14:11
SOL	SS-B41		14:11
SOL	NAV-41	(Rathnav)	14:11
EOL	SB-B41		15:43
EOL	SS-B41		15:43
EOL	NAV-41		15:43
SOL	SB-B43	(270)	15:57
SOL	SS-B43		15:57
SOL	NAV-43		15:57
EOL	SB-B43		17:31
EOL	SS-B43	(NO DATA RECORDED)	17:31
EOL	NAV-43		17:31
SOL	SB-B45	(090)	17:51
SOL	SS-B45		17:51
SOL	NAV-45		17:51
EOL	SS-B45 (18:30)	SOL SS-B45 (18:38)	
EOL	SB-B45		19:57
EOL	SS-B45		19:57
EOL	NAV-45		19:57
	-3' seas		

SOL	SB-B47 (270)	20:13
SOL	SS-B47	20:13
SOL	NAV-47	20:13

EOL	SB-B47	20:52
EOL	SS-B47	20:52
EOL	NAV-47 (short line-1/2)	20:52