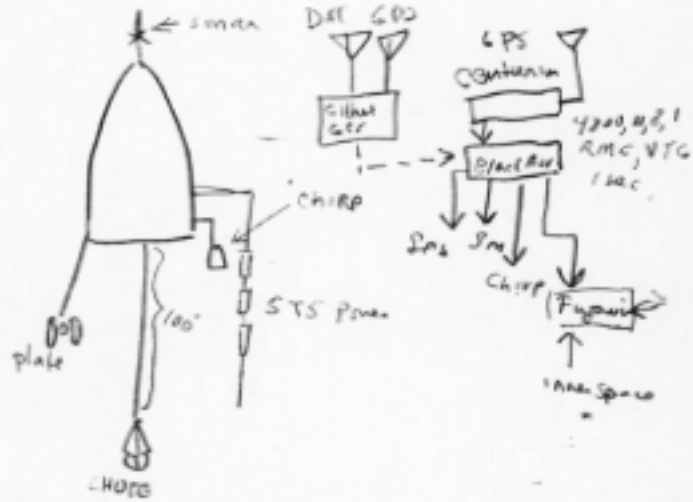


Boat Config * Star. gen for pcs
* Port gen for P. Supply & AC
* Using center jet

LA - Data recorded in

Motorola, Integer, + SEGY
(per Shannon D. require)

sidescan in DAT

Note - 6 ms delay

Note. Fugawi NAV files = .TRK
Fugawi Log files = FLG

5/2000 - LA

Louisiana - Barataria Bay - Sand Survey

Pass Belle - Sandy Point -

Activity - Gilbert - LA (Barataria Bay) 5/2000; Sand Survey
Other —
Nat Plan —
Project Name - Barataria Sand Survey
Study Region - Barataria Bay - Pass Belle to Sandy Pt
Chief Sci. - Jack Kinniger, Jim Flocks, Mark Kulp
Type of Activity - seis, sonar, chirp
Vessel - Gilbert
Start Date - 5/12/2000
End Date -
Equip - Applied Acoustics plate (300 Joules), Applied Acoustics P.S (CSP 300), ITI STS Phones (4,5,6,7,8 on), EdgeTech XSTAR FSSB (CHIRP) + 424 fish), TEI sonar software, TEI FSSB / Seismic V4.03, HSP100 Plotter (with FSSB), OYO608 (with seismic), phones 4-5-6-7-8 on, Edgetech 272 TD sonar fish (50m), port gen for AC/PS, Starb gen for PCs etc, Trimble centurion (RMC, VTG @ 1sec), Fugami (on Rocky), Black Box 8 way RS232 splitter (8 ports avail) (fed by Trimble), Seis V4.03 using cent_rmc.pln for nav driver, Inner space PDR output (9600, n, 8, 1) to Fugami (using Inner depth setup) Aldem 9315 CTP plotter, Seis Shot = 500 ms,

Seis - shot rate = 500ms
acq. = 100 ms

Chirp - shot 254ms
acq 20 - 30ms (varied)
sampling = 25 KHz

Note - 6ms delay on seis

NO SIDESCAN 5/12/2000 SEGY, Int, Moto

SOL BSS00N_01 (NAV/BATH

SOL BSS00_01 (seis) (CHIRP) (SEGY, I, MOTO)

EOL BSS00_01 - BAD NAV - BOTH SEIS/NAV

SOL BSS00_01A (seis) 20:37

SOL BSS00C_01A (CHIRP) 20:46

EOL BSS00C_01A (CHIRP) 20:53

SOL BSS00C_01B (CHIRP) 20:56 } 3.

EOL BSS00C_01B (CHIRP) 21:45 }

EOL BSS00_01A (seis) (SEGY, I, MOTO)

SOL BSS00_02 (seis) 22:06

SOL BSS00C_01c (CHIRP) 22:05 EOL

SOL BSS00C_01d (CHIRP

SOL BSS00_01b (seis) 22:47

EOL BSS00_01b (seis) 23:01 (SEGY, I, MOTO)

EOL BSS00C_01d (chirp) 23:01

EOL BSS00N_01 (FUG)

Note: 6 ms delay on seismic

- SEGY, Int, Moto

5/13/2000 ODEC (CAUFIELD) CAL

ODEC1 - SOL 13:32 / EOL 13:43

(SEIS) - cal for bottom classification

cell phone stages 15m(45') → 35' → 25' for

cal 100 Joules, 200 Joules, 300 Joules

13520001211 52 - (ODEC TEST FILE)

SOL 13:32 EOL 13:43

SOL ODEC2 (100 Joules) 14:27 (Too shallow for cal)

EOL ODEC2 14:32

SOL ODEC3 (100 Joules) 15:19

EOL ODEC3 15:26

SOL BS00-03 (SEIS)

SOL BS00C-03 (CHIRP), 17:15

EOL BSS00C_03 (CHIRP) 17:20

SOL BSS00C-04 (CHIRP)

EOL BSS00_03 (SEIS) - Nothing 17:37

SOL BSS00_04

EOL BSS00_04 (SEIS) 18:06

EOL BSS00C_04 (CHIRP) 18:08

Note: Seismic Kontron locks up

unexpectedly - no pattern - while collecting data

- changed to ELICS format (saving too much data?)

CHIRP - HSP100 cant seem to keep up -

Note 6ms delay on seismic

SOL BS500_05 (Jeis) 20:44
SOL BS500C_05 (CHIRP)
SOL BS500N05 (NAU)

EOL BS500_05 (JEIS) 22:59 (back-up)
SOL BS500_054 (CEIS) 23:10

Note: CHIRP - tow line attached to davit arm caused exagerated swells - line attached to deck - bottom flatten out (good)

- NOTE: Chirp Ver 2.03 - loses sync to pc and record rolls over

Note: 6ms delay on seismic

5/15/2000 Barataria Mark/Shea/Dana/Rich

SOL BSS00_6 (seis) 14:52 (SEGY, Int, Moto)
SOL BSS00C_6 (CHIRP) 14:57
SOL BSS00N_6 (NAV) 14:54

EOL BSS00C_6 15:36 (plotter not keeping up) (NSP 100)

EOL BSS00_6 (seis) 15:47 (-everything stopped)

— CHANGED TO ELICS format —

SOL BSS00_6A (seis) 15:54 (ELICS)
SOL BSS00C_6A (CHIRP) 15:45

EOL BSS00_6A (seis) 17:18 -paper change
EOL BSS00C_6A (CHIRP) 17:33 -paper change
EOL BSS000C (NAV)

SOL BSS0007 (NAV) 17:36 (ELICS)
SOL BSS00_7 (seis) 17:46
SOL BSS00C_7 (CHIRP) 17:45

EOL BSS00_7 (seis) 18:26
SOL BSS00_7A (seis) 18:33 (ELICS)

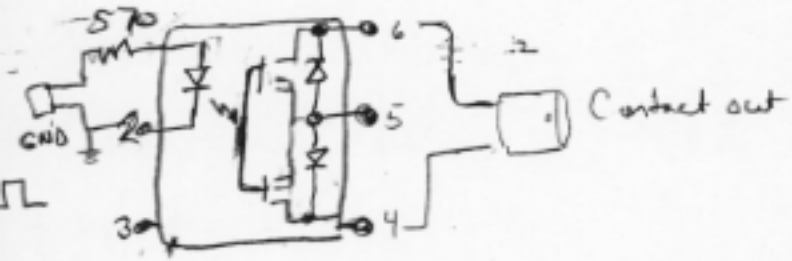
EOL BSS00_7A (seis) 19:44
EOL BSS00C_7 (chirp) 19:38
EOL BSS0007 (NAV)

NOTE: ALL CHIRP + SEIS DATA in SEGY, Moto, Dateg

SOL BSS00_8 (seis) 19:47 SGY, Mo, I
SOL BSS00C_8 (chirp) 19:43 SGY, Mo, I
SOL BS0008a (NAV) 19:48 (Fugami

EOL BSS00_8 (seis) 22:37
EOL BSS00C_8 (chirp) 22:37
EOL BSS0008a (NAV) 22:37

- Aromat AQV212 PhotoMos Relays



<u>Note</u> - 6ms/delay

5/16/2000 - Swapped plotters

OY0608 → CHIRP (plotter set to 1 pix res)
HSP100 → SEIS (plotter set to 1 pix res)

plotters seem to skip (can't keep up)
(data not lost

5/16/2000 (SEGY, Int., Mato)

SOL bss00_09 (seis) 13:47
SOL bss00C_09 (CHIRP) 13:54
SOL bss0009 (NAV) 13:56

EOL bss00_09 (seis - KickeDout) 14:47
SOL bss00_09A (seis) 14:54
(NOTE: Seis P.C. kicks out (locks up) - trigger stops - P.S. resets)
EOL bss00_09A (seis - kickeDout) (locks up)

SOL bss00_09b (seis) 15:45
(set ⊥ port to EPP - plot to 2 pixels)

EOL bss00_09b (seis) 18:10
EOL bss00C_09 (Chirp) 18:10

SOL bss00_10 (seis) 18:15
SOL bss00C_10 (CHIRP)

EOL bss00_10 (seis) 20:07
SOL bss00_11 (seis) 20:09
EOL bss00C_10 (CHIRP) 20:11
SOL bss00C_11 (CHIRP) 20:14
EOL bss00_11 (seis) 20

data file write error
Signal not sent (D24SRVD.DLL)

Note – EPC plotter goes
nuts and misses sync. when high watt. on
– NOT using

SOL BS500_11A(seis) 21:48 - NO PLOTTER SEIS

EOL BS500-11A(seis) 22:09

EOL BS500_11 (CHIRP) 22:09

S

SOL BS500_12 (seis) 22:05 NO PLOTTER SEIS

SOL BS500C_12 (CHIRP) 22:47

(22:47 - tested relay - no good)

EOL BS500_12 (seis) 23:29

EOL BS500C-12 (CHIRP) 23:29

EOL BS500A → 11 (TRE, FLC file)

Note - 6 ms delay - sec -

5/17/2000 (ECY, Int., Mat)

SOL BSS00_13 (seis) - using OYO Plott

SOL BSS00C_13 (CHIRP) 14:38 - using EPC plotter

SOL BSS0013

EOL bss00c_13 (chirp) 15:25

EOL bss00_13 (seis) 15:25

EOL bss0013 (NAV) 15:25

SOL bss00_14 (seis) 15:38

SOL bss00c_14 (CHIRP) 15:32

SOL bss0014 (NAV) 15:32

EOL bss00_14 (seis) - NOT SAVED (TEST LINE)

EOL BSS00C_14 (chirp) -

EOL BSS0016 (NAV)

SOL bss00_15 (seis) 18:08

SOL bss00c_15 18:06

SOL bss0015 (NAV) 18:05

EOL bss00_15 (seis) 20:45

EOL bss00c_15 (chirp) 20:45

EOL bss0015 (NAV) 20:50

Note 6ms delay

5/19/2000

SOL BSS00.16 (Secs) 13:57 (OYO 602)
SOL BSS00C_16 (CHIRP) 13:54 (Alden)
SOL BSS0016 (NAV) 13:50

EOL BSS00C_16 (CHIRP) 14:24 (Nelson [illegible])
EOL BSS00_16 (Secs) 15:21

SOL BSS00C_17 (CHIRP) 15:20 (Nelson PC)
SOL BSS00_17 (Secs) 15:23
- adjusted bridge

EOL bss0016 (NAV) 16:[illegible]
SOL bss0017 (NAV)

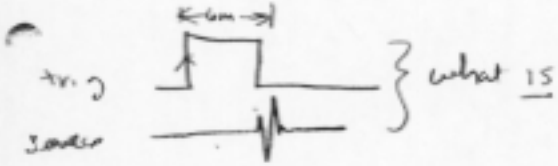
EOL bss00_17 (Secs) (17:37)
EOL bss00C_17 (CHIRP) (17:36)
EOL bss0017 (NAV) (17:41)

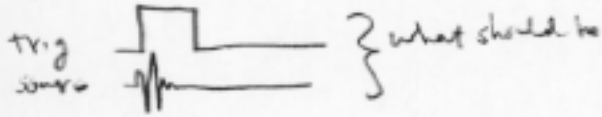
SOL bss00_18 (Secs) 17:49
SOL bss00C_18 (CHIRP) 17:43
SOL bss0018 (NAV) 17:40

EOL BS500-12 (SEIS) 23:00
EOL BS500L-12 (CHIRP) 23:00
EOL BS0018-18 (MBV) 23:00

Note on New rolls - chirp #6
seismic #5

SCHMITT TRIGGER INVERTER





ALL Files SEGY, MOTO, Int.

5/21/2000 LA - Jim Flaks, Richlyn, Dan

SOL BSS00_20 (seis) 13:24 - 6ms record delay
SOL BSS00C_20 (chirp) 13:26 appx
SOL BSS0020 (NAV) 13:24 appx
(Note - installed relay closure in line @ seismic trigger - CSP 300 does not trigger with relay - logging seismic data @ 6ms delay - hopefully to get over the 6ms trigger problem - will try inverter next.) Note - changed to 5ms seis delay

* Note: Good chirp data (NSF) shot 37050 of line BSS00C_20

EOL BSS00_20 (seis) 16:14 = 20
EOL BSS00C_20 (chirp) 16:14
EOL BSS0020 (No depth) 16:14

SOL BSS00C_21 (chirp 16:21
SOL BSS00C_21 (seis) 16:21
SOL BSS0021 (NAV) 16:21

EOL BSS00C_21 (CHIRP) 16:56
EOL BSS00_21 (SEIS) 16:59
EOL BSS0021 (NAV) 16:59

SOL BSS00C_22 (chirp) 17:01
SOL BSS00_22 (seis) 17:03
SOL BSS0022 (NAV) 17:05
NOTE - CHIRP now saving 25 ms of data

EOL BSS00C_22 (chirp) 19:42
EOL BSS00_22 (SEIS) 19:42
EOL BSS0022 (NAV)

Note: Backed up seismic data on DVD (UDF file format)
(All seismic and CHIRP Data on DVD and JAZ (2gb))
Note: CHIRP Disks as of end of day - 3 (Jaz 2gb)
Seismic Disks as of end of day - 1 (Jaz 2gb)

all extracted nav files included with seismic

CHIRP Roll #7

6 ms delay - in for 6 ms
trigger delay

5/22/2000 (Shea Penlam, Jim Flanks, Dana Wiener, Rick Young)

SOL BSS00_23 13:00
SOL BSS00C_23 13:00
SOL BSS0023 13:00
(good CHIRP line)

EOL BSS00_23 14:46
EOL BSS00C_23 14:49

SOL BSS00_24 14:49
SOL BSS00C_24 14:53

EOL BSS00_24 16:06
EOL BSS00C_24 16:06

SOL BSS00_25 16:08
SOL BSS00C_25 16:09

EOL BSS00_23 (NAV) 16:22
SOL BSS0024 (NAV) 16:22

EOL BSS00_25 (seis) 17:35
EOL BSS00C_25 (chirp) 17:35
SOL BSS00_26 (seis) 17:37
SOL BSS00C_26 (chirp) 17:37

5/22/2000 CHIRP Roll # 8 started 19:40

EOL	bss00_26	21:57
EOL	bss00c_26	21:57
EOL	bss0023 (nav)	
SOL	bss00_27	21:58
SOL	bss00c-27	22:01
SOL	bss0024 (NAV)	22:01

V2.03 cent_rmc

Note 6 mos delay

Appears as though all dates are correct except year (needs 2022 instead of 2000)

5/23/2000 LA (Keith Ludwig, Carlos Alonso, Jim Flocks, Dan Wiese)

SOL bss00_28 (seis) 12:59
SOL bss00c_28 (chirp) 12:57
SOL bss0028 (NAV) 12:57

EOL bss00c_28 (chirp) 14:12 (cracked)
(temp mem overflow + by Dr. Watson)
(NOTE date (year incorrect in 'cent_rmc.pln' Mo=60 Dg=58, Yr=62 - change)

SOL bss00c_28a (chirp) 14:42
(Note: Day, Mo, Year still incorrect)

EOL bss00c_28a (chirp) 14:42 (?) No Gps
EOL bss00_28 (seis) 14:42 (?)

(Connectors at GPS antenna cleaned reconnected - OK now)
- using 'cent_rmc.pln'

SOL bss00c_28b 16:55
SOL bss00_28b 16:58
EOL bss00_28b (seis) 17:11
EOL bss00c_28b (chirp) 17:1
— Cantonian GPS dist

NOTE - using Gilbert's NAV GRAPHIC (gga e VTG out) 1/sec

SOL BSS00_28C (seis) 17:48
SOL BSS00C_28C (CHIRP) 18:12
(Using 'gilb_gga.pbm' as new driver)

EOL BSS00_28C (seis) 18:36
EOL BSS00C_28C (CHIRP) 18:36

SOL BSS00_29 18:41
SOL BSS00C_29 18:46
NOTE: Position annotation every 60 sec

EOL BSS00_29 20:32
EOL BSS00C_29 20:32

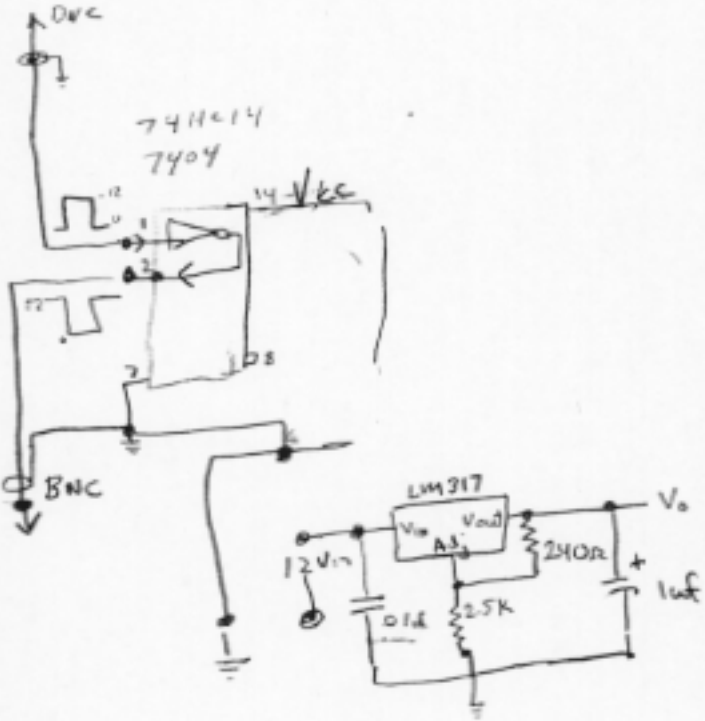
SOL BSS00_30 20:35
SOL BSS00C_30 20:35
NOTE:
CHIRP: Shoot interval = 245 ms,
Rec length = 24 ms
Samp freq = 25 KHZ
EOL BSS00_30 (seis) 22:12
EOL BSS00C_30 (chirp) 22:12
EOL BSS0028 NAV

5/24/2000 LA Kirk, Jim, Carlos, Dan
(NAV drive GILB_CHA_PLA)

Start Roll # II - Chirp
Start Roll # 6 - Seis
* Rescued small boat - towed into Grand Isle

SOL BS500_31 (Seis) 14:20
SOL BS500C_31 (CHIRP) 14:21
SOL BS500031 (NAV) 14:22

EOL BS500_31 (SEIS) 16:51
EOL BS500C_31 (CHIRP) 16:51
EOL BS500031 (NAV) 16:51



6ms delay device

$V_o = 1.25v(1+R2/R1) = 28.33$

$V_o = 1.25(1+R2/240) = 10v$

$1.25(1+2500/240) = 11.4v$

R2 = 2500

5/25/2000 Tim, Carlos, Keith, Dana (NAVDRIV = GILB_CAA_PLN

SOL BSS00_32 12:40
SOL BSS00C_32 12:40
SOL BSS0032 12:40

EOL BSS00C-32 (CHIRP) 12:48 (Wrong source)
SOL BSS00C-33a 12:55

Note 12:55 - 13:00 - see off - slew over
sig anchor

EOL BSS00C_32 14:52
EOL BSS00_32 14:52
EOL BSS0032 14:52

SOL BSS00C_33 15:56
SOL BSS00_33 15:56
SOL BSS0033
EOL BSS00_33 / SOL BSS00_33a
END-CHIRP ROLL # 11, Start #12
END-SEIS ROLL # 6, Start #7

EOL BSS00C_33 17:56
EOL BSS00_33a 17:56
EOL BSS0033 17:56

5/25/2000 (Thurs)

SOL BSSOOC.34 18:52

SOL BSSOO_34 18:54

SOL BSSOOC_35 19:54

SOL BSSOO_35 19:36

SOL BSSOO35 19:35

had to clean center jet. (work on 2 outer jets long)

EOL BSSOOC_35 22:10

EOL BSSOO_35 22:10

EOL BSSOO35 22:10

6ms delay

5/26/2000 (Fri) Jim, Keith, Dave

In Bay

SOL BSS00_36 12:29

SOL BSS00C_36 12:25

SOL BSS0036 12:25

removed 6ms delay in seis - bottom 1.3ms
(software delay)

- Good Seismic/CHIRP -

BSS00C_36 - buried pipe @ shot 47480 - 47430 - 15:35

EOL BSS00_36 16:30

EOL BSS00C_36 16:30

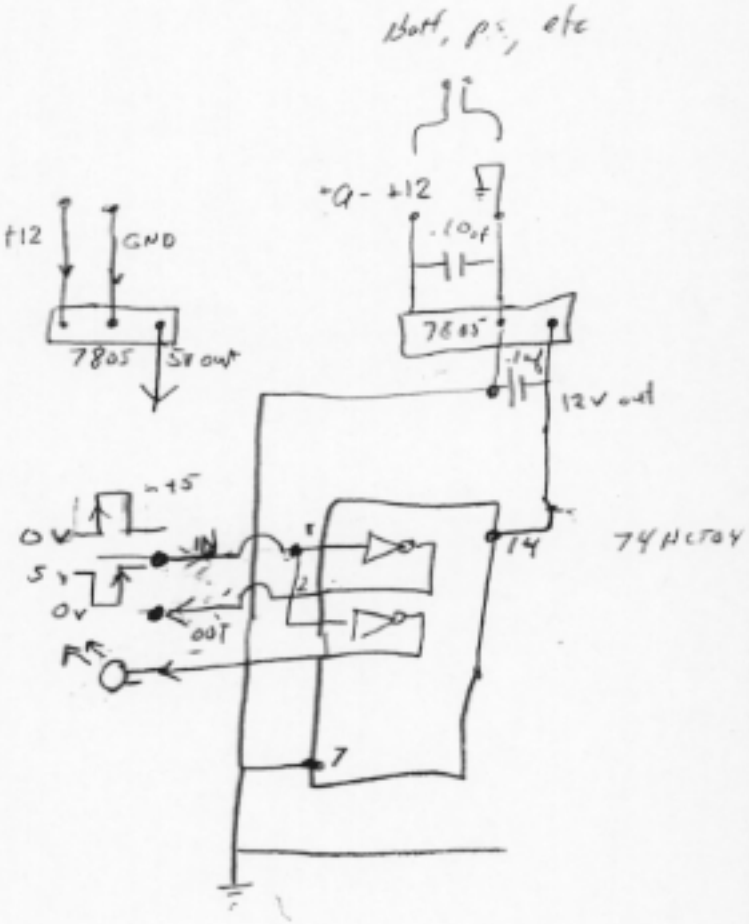
EOL BSS0036 16:30

SOL BSS00_37 16:32

SOL BSS00C_37 16:32

EOL BSS00_37 16:56 -

EOL BSS00C_37. 16:56 - AC plug out of Alden - froze up



Batt, p.s., etc
+12
GND
7805
5V out
+12
.10uf
7805
.1uf
12V out
+5
0V
5V
0V
IN
OUT
14
74HCT04
7

Note chirp acquiring 30 ms data

SOL	BSS00_37a	17:02
SOL	BSS00C_37a	17:11
SOL	BSS0037a	17:11

Note - record is clean of 60 ms
hardware delay on acquire - m of
BS500-38a (seismic)

5/28/00 Keith, Jim, Dana (SGY, Moto, Tut)
(100 Joules, phases 4, 5, 6, 7, 8 on, 50 ms shot, 100 ms ecg)

SOL	BS500_38	12:12	6 ms delay
SOL	BS500C.38	12:13	
SOL	BS50038	12:15	

Note 6 ms eliminator box put in trigger line @ 13:38

EOL	BS500_38	- Windows error - 13:55
SOL	BS500_38a	- 13:56

Note No 6 ms delay - using eliminator

EOL	BS500_38a	17:06
EOL	BS500C.38	17:06
EOL	BS50038	17:06

End of chip #14, start of 15

SOL	BS500_39	18:01
SOL	BS500C_39	18:01
SOL	BS50039	18:01
EOL	BS500_39 (win)	19:09
EOL	BS500C_39 (hyper)	19:09
EOL	BS50039 (NAI)	19:09

5/27/000

SOL BS500_40	19:54
SOL BS500C_40	19:54
SOL BS50040	19:54

EOL BS500_40	20:55
EOL BS00C_40	20:55
EOL BS5040	20:55

5/29/000 Keith, Jim, [illegible]

seis - 100 Joules, 500ms shot, 100ms save
Chirp - 254ms shot, 30ms save 25K sweep rate
phones, 4, 5, 6, 7, 8

SOL	BSS00-41	12:03	shore II to Belle Pass
SOL	BSS00C-41	12:03	
SOL	BSS0041	12:03	

15:45 End of CHIRP roll #15, START Roll #16

EOL	BSS00-41	18:20
EOL	BSS00C-41	18:20
EOL	BSS0041	18:20

SOL	BSS00-42	18:28	shore II to [illegible]
SOL	BSS00C-42	18:28	
SOL	BSS0042	18:28	

EOL	BSS00C-42	20:52
EOL	BSS00-42	20:52
EOL	BSS0042	20:52

5/29/00

SOL BSS00_43 20:57
SOL BSS00C_43 20:57 } shore horn
SOL BSS0043 20:57

EOL BSS00_43 21:57
EOL BSS00C.43 21:57
EOL BSS0047 21:57
{ EO Roll Chirp #16 start #17
{ End of Roll Seis #7, start Roll #8 }

SOL BSS00_44 21:14
SOL BSS00C44 22:14
SOL BSS0044 21:14

EOL BSS00-44 22:42
EOL BSS00C_44 22:42 - no chirp regions
EOL BSS0044 22:42

SOL BSS00C-44a 22:57 CHIRP OK - hd
EOL BSS00C_44a 22:58 to restart

Note: Switched back to Trimble Centurion GPS (P code) - not using Hi freq coupler on EXT ant.

- Using 'cent_rmc.pln' nav driver

* Power Supply up to 200 Joules BSS00YC

5/30/2000 LA (Keith, Dana, Jim)

Note - using Trimble Centurion (cent_rmc.plx)

SOL	BSS00_45	13:06
SOL	BSS00C_45	13:06
SOL	BSS0045	13:06
EOL	BSS00_45	16:07
EOL	BSS00C_45	16:07
EOL	BSS0045	16:07
SOL	BSS00C_46	~~16:17~~
SOL	BSS00_46	16:22 (200 Joules)
SOL	BSS0046	16:00

Note Seismic pwr. increase to 200 Joules

End of roll #17 start of roll #18 - CHIRP

EOL	BSS00C_46	19:34
EOL	BSS00_46	19:34
EOL	BSS0046	19:34
SOL	BSS00C_47	19:37
SOL	BSS00_47	19:39
SOL	BSS0047	19:37

5/31/2000 Keith, Jim, Shea, Dana, Allison
- Seismic to 100 Joules

SOL BSS00_48 12:53
SOL BSS00C_48 12:53
SOL BSS0048 12:5

END OF COLL #18, START #19

EOL BSS00_48 17:25
EOL BSS00C_48 17:25 (orig name bss:00c:48 by mistake - changed)
EOL BSS0048 17:25

SOL BSS00_49 18:15
SOL BSS00C_49 18:15
SOL BSS0049 18:15

EOL BSS00_49 19:01
EOL BSS00C_49 19:01
EOL BSS0049 19:01

SOL BSS00_50 20:00
SOL BSS00C_50 20:00
SOL BSS1050 20:01

EOL BSS00C_50 21:30
SOL BSS00C_50A 21:42

EOL BSS00_50x 21:56
EOL BSS00C_50a 21:50 - 125ms acquire
EOL BSS0050 21:50

End of roll 19 CHIRP
End of roll 8 SEIS

DATA Backups on the exabyte

6/6 BSS500_SEIS1 (Exabyte using Retrospect 5.1)
(data from 5/12 - 5/31/2000 + NAV)

BSS500_CHIRP1 (Exabyte using Retrospect 5.1)
(data from 5/12 - 5/31/2000)