GS-1
8-93
93017
105086

93017Sei

# USGS - BAMG

# SEISMIC/GEOPHYSICS LOG

**SHIP:** GS1

**CRUISE:** LEGS2-8-93

**AREA:** LAKE ERIE

**DATES:** 8-10 - 8-23

**CHIEF SCIENTIST:** Circe'

| Line# | YrMoDy +JulDy | Time +Zone | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| TST | 93-8-10 222 | | | | | 1/4 / 1/4 / 300-2000 | NONE 0=TST | 1 | | 175 J |

| Line# | YrMoDy +JulDy | Time +Zone (EST) | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| SOL 1 | 93-8-11 223 | 10:03 | | | 41 54.705<br>81 02.7681 | 1/4 / 1/4 / 300-2000 | T=1<br>D=1 | 1 | | 280 J ? 35 dB gain |
| EOL 1 | | 11:00 | | | 41 58.3672<br>81 0.8987 | | | | | filters 300-2000 |

ROLLS TOO BIG - GAVE UP & HEADED HOME

NAV FILE FROM THIS DAY NAMED LEGSA.NAV

EST

| | Line# | YrMoDy +JulDy | Time +Zone | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOL | 2 | 93-8-12 224 | 10:11 EST | | | 42 00.893 -80 59.579 | 1/4 / 1/4 / 300-2000 | 1/2 1 | 1 | NONE | 35 dB gain |
| EOL | 2 | | 11:51 | | | 41 56.013 80 57.455 | 280 J | | | | |
| | | | 11:59 | BOOMER DIED — FIRING TOO FAST FOR 280 J !!! | | | | | | | |
| | | | | | | | | | | | filters 300-2000 |
| SOL | 4 | | 1400 | | | 42 02.089 80 54.921 | 1/4 / 1/2 / 300-2000 | 2,3 D=1 | 1 | | |
| EOL | 4 | | 15:57 | | | 41 58.655 80 47.632 | 1/4 / 1/2 / 300-2000 | | | | |
| SOL | 5 | | 16:03 | | | 41 58.655 80 47.639 | | T 3→4 D 1 | | | |
| EOL | WP | | 17:25 | | | 42 00.292 80 47.735 | | | | | |
| | WP | | | | | 42 01.545 80 47.603 | | | | | |
| | WP | | | | | 42 03.675 80 47.415 | | | | | |
| EOL | 5 | | 17:25 | | | 42 04.588 80 47.460 | | | | | |
| SOL | 6 | | 17:28 | | | 42 04.588 80 47.460 | | T=4 D=1 | | | |
| EOL | 6 | | 18:40 | | | 42 02.849 80 41.006 | | | | | |

NAV FILE FROM THIS DAY NAMED LEGSB.NAV

| | Line# | YrMoDy +JulDy | Time +Zone (EST) | Crs | Spd (Knots) | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOL | 7 | 93-8-13 225 | 10:29 | 120 | 4.12 | 42 12.5579 80 33.4925 | 1/4/1/2 / 300-2000 | T=4 D=1 | 2 | NONE | 35 dB gain |
| EOL | 7 | 225 | 10:40 | | | 42 12.1347 80 32.5322 | | | | | |
| SOL | 8 | 225 | 10:49 | 346.5 | 4.79 | 42 11.9640 80 32.9543 | | T=4 D=1 | 2 | | |
| EOL | 8 | | 11:00 | | | 42 12.781 80 33.299 | | | | | |
| SOL | 9 | 225 | 11:07 | 122.9 | 4.63 | 42 12.7144 80 33.4702 | | T=5 D=1 | 2 | | |
| EOL | 9 | | 11:20 | | | 42 12.1718 80 32.3289 | | 3 | | | |
| SOL | 10 | 225 | 11:28 | 343.3 | 3.85 | 42 11.9045 80 32.7023 | | T=5 D=1 | 2 | | |
| EOL | 10 | | 11:42 | | | 42 12.8847 80 33.0857 | | | | | |
| SOL | 11 | 225 | 11:48 | 121 | 4.23 | 42 12.7681 80 33.3062 | | T=5 D=1 | 2 | | |
| EOL | 11 | | 12:00 | | | 42 12.3116 80 32.2729 | | | | | |
| SOL | 12 | 225 | 12:15 | 342.9 | 4.88 | 42 11.8554 80 32.7803 | | T=5 D=1 | 2 | | |
| EOL | 12 | | 12:29 | | | 42 12.8796 80 33.1969 | | | | | |
| SOL | 13 | 225 | 12:41 | 118 | 4.37 | 42 12.5043 80 33.7287 | | T=5 D=1 | 2 | | |
| EOL | 13 | | 12:56 | | | 42 11.9322 80 32.4415 | | | | | |
| SOL | 14 | 225 | 13:09 | 343 | 4.54 | 42 11.5604 80 32.9295 | | T=6 D=1 | 2 | | |
| EOL | 14 | | 13:26 | | | 42 12.8245 80 33.4159 | | | | | |
| SOL | 15 | 225 | 13:35 | 120 | | 42 12.4836 80 33.8174 | | T=6 D=1 | 2 | | |
| EOL | 15 | | 13:52 | | | 42 11.8097 80 32.3877 | | | | | |

EST

| | Line# | YrMoDy +JulDy | Time +Zone | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOL | 16 | 93-8-13 225 | 14:04 | 169 | 3.31 | 42 11.3042<br>80 32.5226 | 1/4 / 1/2 / 300-2080 | T=6<br>D=2 | 2 | NONE | 280 J |
| EOL | 16 | | 14:26 | | | 42 12.9323<br>80 33.5564 | | | | | 35 dB gain |
| SOL | 17 | | 14:39 | 121 | 4.43 | 42 12.2653<br>80 33.7476 | | T=6<br>D=1 | 2 | | |
| EOL | 17 | | 14:53 | | | 42 11.7349<br>80 32.6153 | | | | | |
| SOL | 18 | | 15:02 | 343 | 4.74 | 42 11.5931<br>80 33.2549 | | T=6 & 7<br>D=1 | 2 | | |
| EOL | 18 | | 15:15 | | | 42 12.5612<br>80 33.639 | | | | | |
| SOL | 19 | | 15:23 | | | 42 12.7662<br>80 33.072 | | T=7<br>D=1 | 2 | | |
| EOL | 19 | | 15:32 | | | 42 12.4684<br>80 32.3347 | | | | | |
| SOL | 20 | | 15:42 | 341 | 4.56 | 42 12.1144<br>80 32.5249 | | T=7<br>D=1 | 2 | | |
| EOL | 20 | | 15:51 | | | 42 12.7836<br>80 32.8165 | | | | | |
| SOL | 21 | | 15:58 | 185 | 4.47 | 42 12.7814<br>80 33.0588 | | T=7<br>D=1 | 2 | | |
| EOL | 21 | | 16:14 | | | 42 11.5481<br>80 33.2294 | | | | | |

NAV FILE NAMED LEGS C.NAV

EST

| | Line# | YrMoDy +JulDy | Time +Zone | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOL | 22 | 93-8-14 226 | 9:24 | 119 | 4.72 | 41 58.4549 80 36.8960 | 1/8 / 1/4 / 500-2000 | T=7 D=1 | 2 | NONE | 35 dB gain |
| EOL | 22 | | 9:35 | | | 41 58.0141 80 35.8688 | | | | | |
| SOL | 23 | 226 | 9:42:30 | 340 | 4.44 | 41 57.8357 80 36.3155 | | T=7 D=1 | 2 | | |
| EOL | 23 | | 9:55 | | | 41 58.7895 80 36.7873 | | | | | |
| SOL | 24 | 226 | 10:01 | 120 | 3.98 | 41 58.5976 80 36.9147 | | T=7 D=1 | 2 | | |
| EOL | 24 | | 10:13 | | | 41 58.0787 80 35.0009 | | | | | |
| SOL | 25 | 226 | 10:21 | 342 | 5.01 | 41 57.8588 80 36.1291 | | T=8 D=1 | 2 | | |
| EOL | 25 | | 10:32 | | | 41 58.7164 80 36.5381 | | | | | |
| SOL | 26 | 226 | 10:41 | 119 | 4.98 | 41 58.6526 80 36.7712 | | T=8 D=1 | 2 | | |
| EOL | 26 | | 10:52 | | | 41 58.2226 80 35.7056 | | | | | |
| SOL | 27 | 226 | 11:02 | 342 | 4.95 | 41 57.8151 80 36.2296 | | T=8 D=1 | 2 | | |
| EOL | 27 | | 11:14 | | | | | | | | CHANGEBELT |
| SOL | 28 | 226 | 11:23 | 119 | 4.28 | 41 58.3756 80 37.0209 | | T=8 D=1 | 2 | | |
| EOL | 28 | | 11:34 | | | 41 57.9423 80 35.9426 | | | | | |
| SOL | 29 | 226 | 11:41 | 341 | 5.63 | 41 57.7101 80 36.4004 | | T=8 D=1 | 2 | | |
| EOL | 29 | | 11:54 | | | 41 58.7111 80 36.8441 | | | | | |
| SOL | 30 | 226 | 12:03 | | | 41 58.2557 80 37.0943 | | T=8 D=182 | | | |
| EOL | 30 | | 12:14 | | | 41 57.8459 80 36.0507 | | | | | |

| | Line# | YrMoDy +JulDy | Time (EST) +Zone | Crs | Spd (KNOTS) | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOL | 31 | 93-8-14 226 | 12:21:30 | 342 | 5.2 | 41 57.7270 80 36.5144 | 1/8 / 1/4 / 500-2000 | T=9 D=2 | 2 | NONE | |
| EOL | 31 | | 12:34 | | | 41 58.6523 80 36.9267 | | | | | |
| SOL | 32 | 226 | 12:43 | 120 | 4.8 | 41 58.2244 80 37.2480 | | T=9 D=2 | 2 | | |
| EOL | 32 | | | | | 41 57.7566 80 36.1727 | | | | | |
| SOL | 33 | 226 | 13:03 | 342 | 4.04 | 41 57.7422 80 36.7813 | | T=9 D=2 | 2 | | |
| EOL | 33 | | 13:13 | | | 41 58.4832 80 37.0687 | | | | | |
| SOL | 34 | 226 | 13:19 | 120 | 4.1 | 41 58.7314 80 36.6683 | | T=9 D=2 | 2 | | |
| EOL | 34 | | 13:29 | | | 41 58.3421 80 35.6825 | | | | | CHANGE PAPER |
| SOL | 35 | 226 | 13:38 | 341 | 3.6 | 41 57.9920 80 35.9420 | | T=9 D=2 | 3 | | NEW ROLL |
| EOL | 35 | | 13:49 | | | 41 58.8013 80 36.3427 | | | | | |
| SOL | 36 | 226 | 14:04 | 64 | 4.9 | 41 58.4635 80 35.7887 | | T=9&10 D=2 | 3 | | change tape changed belts |
| EOL | 36 | | 14:54 | | | 42 0.2093 80 30.8227 | | | | | |
| SOL | 37 | 226 | 1501 | 247 | 4.6 | 41 59.8203 80 30.7870 | | T=10 D=2 | 3 | | change belts |
| | WP7 | | 16:18:30 | | | 41 57.4215 80 38.3612 | | | | | |
| | WP10 | | 16:29 | 242 | 4.6 | 41 51.3170 80 39.4265 | | T=11 D=2 | 3 | | change tapes |
| | WP13 | | 16:43 | 255 | 4.9 | 41 56.8134 80 40.7741 | | T=11 D=2 | 3 | | |
| | WP16 | | 17:28 | 248 | 4.9 | 41 55.8296 80 45.5007 | | | | | |
| EOL | 37 WP18 | | 17:44 | | | 41 55.3622 80 47.1033 | | | | | |

suspect

NAV FILE DISK 1 LEGSD1.NAV

NAV FILE DISK 2 LEGSD2.NAV

| | Line# | YrMoDy +JulDy | Time (EST) +Zone | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOL | 38 | 93-8-15 227 | 08:31 | 73 | 5 | 41 55.5823 80 45.5106 | None | D=2 | | NONE | only sides can |
| | | | 8:40 | | | | | | | | course change 100 m closer to shore |
| | | | 8:43 | | | | | | | | NOW straightening line |
| SOL | 39 | 227 | 10:29 | 248 | 4.7 | 41 59.3727 80 30.5448 | 1/8 \| 1/4 \| 500-1000 | T=11 D=2 | 3 | | 175 J 32db Gain |
| EOL | 39 | | 10:50 | | | 41 58.7619 80 32.6529 | | | | | |
| SOL | 40 | 227 | 11:07:30 | 246 | 4.7 | 41 58.365 80 33.8711 | | T=11,12 D=2 | 3 | | 11:17 change tape |
| EOL | 40 | | 13:11 | | | 41 55.2960 80 46.2865 | | | | | |
| SOL | 41 | 227 | 13:29 | 206 | 4.9 | 41 55.1852 80 48.1155 | | T=13 D=2 | 3 | | |
| wp26 | course change | | 13:46 | 244 | 5 | 41 54.1211 80 49.5766 | | T=13 D=2 | 3 | | |
| wp27 | course change | | ~14:38 | 259 | 5 | 41 52.3896 80 54.8012 | | T=13 D=2 | 3 | | |
| wp27 | course change | | ~15:28 | 246 | 5.2 | 41 51.5548 81 0.3802 | | T=14 D=2 | 4 | | change tape & change paper |
| EOL | 41 | | | | | | | | | | |

NAV FILE NAMED LEG5E.NAV

| Line# | YrMoDy +JulDy | Time (EST) +Zone | Crs | Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| SOL 42 | 93-8-18 230 | 10:02 | 254 | 4.8 | | 1/8 / 1/4 / 500-2000 | T=14 D=2 | 4 | NONE | 175 J |
| wp 6 course change | | 10:23:15 | 255 | 4.93 | 41 57.7812 80 38.5558 | | T=14 D=2 | 4 | | 32 dB gain |
| wp 9 | | 10:37:30 | 245 | 4.77 | | | 7 | 4 | | problems w/ NAV |
| wp 12 | | 10:51:45 | 254 | 5 | | | | 4 | | |
| wp 15 | NAV problems | | | | | | T=15 | 4 | | |
| wp 22 | | | | | | | T=15,16 D=3 | 4 | | |
| wp 25 | | 14:05 | 245 | 4.8 | 41 52.2[illegible] -81 0.6687 | | T=16 D=3 | 4 | | |
| wp 28 | | 15:06:30 | 241 | 4.8 | 41 50.2047 81 6.7237 | | T=16,17 D=3 | 4 | | |
| EOL 42 (3 wp) | | | | | | | T=17 D=3 | 4 | | |

X asf -1.0

nav files named LEGSF1.NAV LEGSF2.NAV LEGSF3.NAV

| Line# | YrMoDy +JulDy | EST Time +Zone | Crs | KNOTS Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| SOL 43 | 93-8-19 231 | 10:44:30 | 244 | 4 | 41 54.9301 80 48.1647 | 1/8 / 1/4 / 500-2000 | T=17 D=3 | 45 | None | changed paper took almost 5 min @11:40 |
| wp 23 | not marked | | 260 | | | | | | | |
| wp 26 | | 12:44 | 245 | | 41 51.8807 81 0.4820 | | T=18 D=3 | 5 | | Change VHS @ 1154 |
| wp 29 | | 13:42:30 | 241 | | 41 49.7867 81 6.4925 | | T=18, 19 D=3 | 5 | | changed VHS @ 13:57 |
| | | | | | | | | | | @ 14:01 lost z line (5) switched to W line (1) |
| | | | | | | | | | | @ 14:44 dropped to 29 dB gain |
| wp 32 | | 15:02 | 241 | | 41 46.6857 81 14.5385 | | T=19 D=3 | 5 | | |
| EOL 43 WP 34 | | 15:19 | | | 41 46.1926 81 16.3352 | | T=19 D=3 | 5 | | |
| SOL 44 | | 15:29 | 111 | | 41 46.0464 81 17.2067 | | T=19 D=3 | 5 | | |
| EOL 44 | | 15:56 | | | 41 45.0859 81 19.8848 | | | | | |

NAV FILE NAMED LEGSG.NAV

EST

| Line# | YrMoDy +JulDy | Time +Zone | Crs | Knots Spd | Navigation | Seismic System Sweep/Fire/Filters | Tape# Disk# | Roll# | Magnets Gravity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| SOL 45 | 93-8-22 234 | 8:59 | 238 | 4.6 | 41 49.6004<br>81 6.1282 | | T=20<br>D=3 | 5 | | |
| EOL 45 | | 10:33 | | | 41 45.9611<br>81 15.3606 | | | | | |
| SOL 46 | 234 | 10:52 | 247 | 5.2 | 41 47.1016<br>81 14.5673 | | T=20,21<br>D=3 | 5 | | change belts 10:55 |
| wp 37 | | 11:44 | 233 | | 41 45.4977<br>81 19.9381 | | T=21,22<br>D=3 | 5 | | changed tapes |
| wp 40 | | 13:11:30 | 216 | 4.7 | 41 41.0372<br>81 27.8852 | | T=22<br>D=3 | 5,6 | | |
| wp 43 | | 13:34 | 240 | | 41 38.9481<br>81 30.1121 | | T=22<br>D=3 | 6 | | |
| wp 46 | lost generator so had a little chaos | | | | | | | | | |
| EOL 46 wp 48 | | 15:31 | | | 41 33.0430<br>81 39.3324 | | T=23<br>D=4 | 6 | | changed nits @ 15:04 |
| SOL 47 | 234 | 15:36 | 49 | | 41 32.8704<br>81 39.1193 | | T=23<br>D=4 | 6 | | |
| wp 47 | | 17:15:30 | 66 | | 41 37.6461<br>81 32.7809 | | | | | |
| wp 44 | | 17:46 | 43 | | 41 38.8173<br>81 29.7956 | | | | | change belts @ 17:49 |
| EOL 47 | | 18:24 | | | 41 40.8251<br>81 27.4047 | | | | | |

NAV files named DATA1 on disk 3
LEGSH2.NAV on disk 4