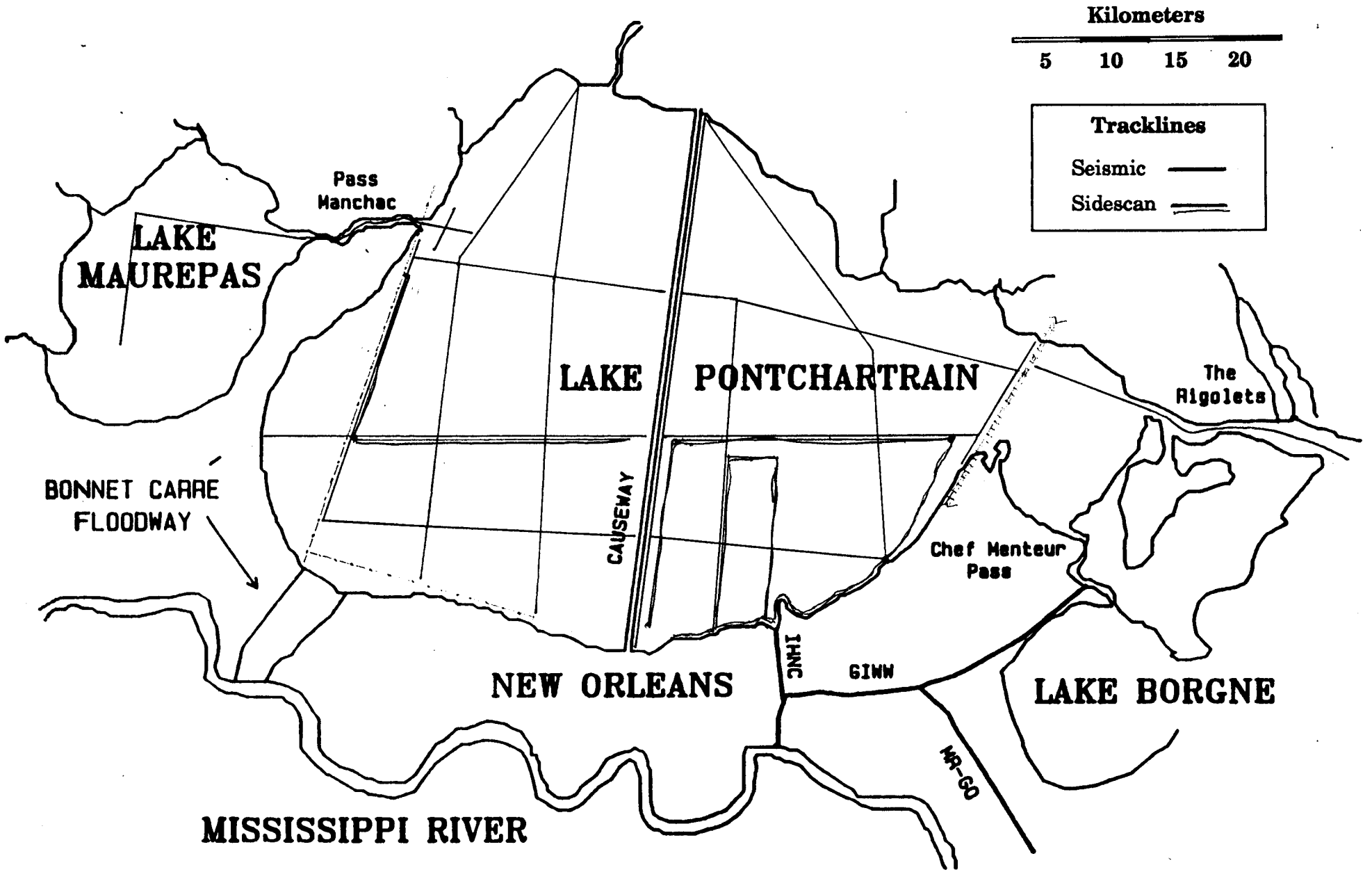
94030log

J.Williams GK GILBERT (GILB) LK
PONT 94-1 PONTCHARTRAIN
MAY 31-JUNE 11, 1994
CRUISE REPORT-LINE LIST-TRACKMAP-
SIDESCAN LOG-HUNTEC LOG

94030 104962
GILB
PONT 94

# Cruise Report

| | | |
|---|---|---|
| 1. | **Ship Name:** | RV G.K. Gilbert |
| 2. | **Cruise Number:** | Pont-94 |
| 3. | **Project:** | Lake Pontchartrain Study |
| 4. | **Funding:** | $300,000 |
| 5. | **Agency:** | USGS |
| 6. | **Contract Number:** | n/a |
| 7. | **Contract Dates:** | n/a |
| 8. | **Area of Operations:** | Lake Pontchartrain Basin, Louisiana |
| 9. | **Dates and Ports:**<br>**Start and End Cruise:** | New Orleans, Louisiana<br>31 May 1994, 11 June 1994 |
| 10. | **Chief Scientist:** | S. Jeffress Williams, USGS, Reston, VA |
| 11. | **Names/Affiliation of Scientific Party:** | Richard Young, USGS, Boat Operator<br>Shea Penland, LSU/CCEER<br>Dana Wiese, USGS, Seismic Technician<br>Dave Nichols, USGS, Sidescan Technician<br>Helana Cichon, USGS, Survey Assistant<br>Robert Seal, LSU/CCEER, Survey Assistant |
| 12. | **Purpose of Cruise:** | Field investigation of shallow structure and stratigraphy and character of the estuary seabed. |
| 13. | **Navigation Techniques:** | DGPS and Loran C |
| 14. | **Scientific Equipment:** | Huntec hi-res boomer/Delph 2 system<br>Fathometer<br>Klein Sidescan Sonar, 100 kHz. |
| 15. | **Tabulated Information:** | Twelve days of daylight operation<br>411 km seismic profile tracklines<br>137 km sidescan sonar tracklines |
| 16. | **Trackline Chart:** | Attachment |


Kilometers
5
10
15
20
Tracklines
Seismic
Sidescan
LAKE MAUREPAS
Pass Manchac
LAKE PONTCHARTRAIN
The Rigolets
BONNET CARRE FLOODWAY
CAUSEWAY
Chef Menteur Pass
IHNC
GIWW
NEW ORLEANS
LAKE BORGNE
MR-GO
MISSISSIPPI RIVER

## LAKE PONCHARTRAIN

| Date | Time | Line | Event | Lat | Lon | Hdg |
|---|---|---|---|---|---|---|
| 6/8 | 1515 | 1 | SOL | 30 01 70 | 90 07 20 | E along shore |
| | 1655 | | EOL | 30 03 50 | 90 01 80 | |
| 6/9 | 0839 | 2 | SOL | 30 03 50 | 90 01 80 | E along shore |
| | away from shore | | | 30 05 35 | 89 56 20 | |
| | 1311 | | EOL | 30 10 00 | 89 53 45 | |
| 6/9 | 1311 | 3 | SOL | 30 10 00 | 89 53 45 | W along 30 10 00 |
| | Enroute Fix | | | 30 10 002 | 89 58 507 | |
| | Enroute Fix | | | 30 09 993 | 89 57 395 | |
| | 1505 | | EOL | 30 10 04 | 90 06 340 | |
| 6/9 | 1505 | 4 | SOL | 30 10 04 | 90 06 340 | 184 degrees |
| | 1643 | | EOL | 30 02 650 | 90 07 760 | 1 mi E of causeway |
| 6/10 | 0043 | 5 | SOL | 30 10 00 | 90 07 753 | W along 30 10 00 |
| | 0311 | | EOL | 30 10 00 | 90 22 10 | |
| 6/10 | 0311 | 6 | SOL | 30 10 00 | 90 22 10 | 023 degrees |
| | 0356 | (Storm) | EOL | 30 13 35 | 90 10 50 | |
| 6/11 | 0850 | 7 | SOL | 30 01 80 | 90 05 00 | 006 degrees |
| | 0953 | | EOL | 30 07 00 | 90 04 00 | |
| 6/11 | 0953 | 8 | SOL | 30 07 00 | 90 04 00 | 90 degrees |
| | 1016 | | EOL | 30 06 816 | 90 01 99 | |
| 6/11 | 1016 | 9 | SOL | 30 06 816 | 90 01 99 | 180 degrees |
| | 1108 | | EOL | 30 02 70 | 90 01 40 | |

Vert. scale

1 ms = 0.75 m @ 1500 m/s

| Dana's Files | My lines |
|---|---|
| PON 531-1 | LN 1 |
| 531-2 | |
| PON 61-1 | LN 2 |
| PON 61-2 | LN 3 |
| PON 62-1 | LN 3 cont |
| | LN 4 |
| PON 62-2 | LN 1 cont |
| PON 62-3 | LN 5 |
| PON 62-4 | LN 6 |

31 May 1994 Tuesday

RV G. K Gilbert docked
West End boat dock, New Orleans

[illegible] ms - Scientist
Dana [illegible] - Seismic tech.
Richard Young - Captain

Warm ~75°F and humid 97%
at 0730 hrs, threat of midday
thunderstorms.

Dana + I got to boat 0800
to mob. Hunter gear. Rich came
in from airport ~ 0830 hrs. Bob Seal
drove in from Baton Rouge 1000 hrs.
0915 called Abby to discuss
Proposals and MMS program more.

Delayed until mid afternoon
due to wire breaks and thunder
storms. Bob drove to MS camp
Left dock 1545 hrs. to start
Ln 1 at south end coming on
east side running north
Hunter gear in water 1610 hrs.
SOL #1 @ 1640 hrs, running
north 4 kts, 200 m east of [illegible]
007°

Seas starting to lay down
Regular wavy pattern on profiles
possibly scour troughs due
to bridge piles. Piles 3ft.
diameter, spaced ~140 ft apart.

Problem with DGPS nav system.
Is being saved on nav. program, but
not plotted as fixes on profile.
started fix plots @ 1 min. interval
Passed high span 1810 hrs, seas
laying down

Several dark features - gas charged
beds? oyster reefs?

Excellent deep reflectors, several
paleochannels.

1945 hrs - Broke off line 1 at middle
of 2nd high span to get back to
dock before dark.

Pulled gear and headed back to
the barn.

Dana was able to fix nav. prob.

Port engine dropped RPM during trip back

Back at dock 2100 hrs.

1 June 94 Wednesday

Got to dock 0830 hrs. Day
sunny and warm, scattered clouds.
Rich worked on engine, found air leak.
I reviewed typed proposal Helen
faxed in.

Barb Seal on board in addition to
Rich, Dana + Jeff

Port engine blowing black smoke!
Rich called Terry, mechanic will meet
us at dock at 1300 to replace gasket.
Decided to run short E-W line from
causeway going east.

SOL Ln 2 1020 hrs. 30°05'68 N
90°08'.50 W
Running 090°, water depth 16 ft.

1115 hrs: loop to south to avoid shrimp boat

EOL 2 east of Lincoln Beach 1245 hrs
Talked w/ Al about briefing for Babbitt on Fri.
Back at dock 1335, met by diesel
mechanic from New Orleans, replaced gasket
Left dock 1505 hrs.

JAN-13-1995 09:46 FROM USGS COASTAL/MG RESTON TO 9150845723 13 P.03

SOL 3 1530 hrs Bayou St. John.
Running 006° N

Waves on profile are due to boat motion from waves.
Waves building (2-3ft) due to storm over New Orleans moving north

Terminated Ln 3 1630 hrs.
30°05.8'
90°04.5'

Back at dock 1715 hrs

2 June 94 Thurs.

Jeff Wms Bob Seal
Rich Young Dana Wicse

Sunny + warm w/ threat of afternoon storms
Left dock 0830 - Seas flat

0900 hrs on line to continue Ln 3 at intersection w/ Ln 2 running north 006° heading
30°05.18
90°04.72

1100 hrs. Seas still flat, air hot

1115 hrs turn to port for Ln 4, running west toward Causeway to connect w/ LN 1 and complete to north.

turn 30°14.57'
90°03.72'

SOL 4
EOL 4 30°14.79' 1155 hrs
90°06.96'

Continue LN 1 North

EOL Ln. 1 1325 hrs.

SOL Ln 5 on heading 138°

Large storms over New Orleans — black clouds, lightening

Super X-beds adjacent to Green Pt. (Delta origin?)

Large storms north and south of us, but seas still gentle (~ 1' ht).

1530 hrs. passing Goose Pt.,
WD = 5.7 ft, waves building from southeast

1620 hrs EOL 5
30° 13.01
89° 57.49

1622 hrs. SOL 6, heading 179° toward Lincoln Bch.

large buried fluvial channel (~100' deep) 4 mi north of Lincoln Bch.
EOL 6 1830 hrs Lincoln Bch
back at dock 1900 hrs.

3 June 94 Friday

warm & sunny, scattered clouds
Richard Davis got fired @ 0700 hrs.
Shea + I got to dock 0800 hrs.
Left dock 0830 hrs. to survey west of causeway.
Jeff Wms, Shea Penland, Rich Young, Dave Weise
SOL 7 from breakwater and power lines coming ashore, 0921 hrs., running 036° toward north shore

EOL 7 1345 hrs. west of Madisonville
30° 22.55
90° 11.29

SOL 8 on heading 212°

EOL 8
30° 16.03
90° 17.07

SOL 9 heading South
good channels
big storm to south
1715 hrs. recorder stopped running. Paper record lost but data recorded
1745 hrs. recorder working, called LN 9A

1750 hrs. hard drive on computer shut down

1755 Dana switched to 2nd hard drive. Recorder back online.
1759 Ln. 9B recording
1805 hrs. printer down again, data being recorded

1815 hr. printer online

EOL 9B 30° 3.83 1835 hrs.
90° 18.43

back at dock 1930 hrs.

4 June 94 Sat.

warm, sunny, light breeze, seas flat
Got to boat 0805 hrs Dana + Rich worked on boat short.
0940 Left dock

on board - Jeff Winn, Shea Penland
Dana Wisse, Rich Young

SOL 10 1008 hrs. running west on 30° 06'

EOL 10 1255 hrs. just west of power wires
30° 6.56
90° 23.63

SOL 11 1257 hrs on 022° heading parallel to power wires, northeast

clouds building all around lake, seas flat

EOL 11 90 19.47 1510 hrs.
30 16.12

SOL 12 heading west toward north high span

1600 hrs.
Waves building from SE

1700 waves bigger (2-3') turned stb. into seas. Nothing helps

EOL 12 30°15.28
1703 hrs. 90°11.26
Waves too large, record noisy
3.7 N mi west of high span Causeway
Back at dock 1750 hrs.

5 June 94 Sunday

Jeff Wms, Dana Wise, Rich Young.

Warm, Sunny, light winds, scattered clouds, seas calm

Left dock 0830 hrs. to work west of Causeway
SOL 13
0913 hrs. Gear in water at northern high span, running west on 275° heading to meet up with LN 12.
Record good over Causeway but bad further west. Ended Ln 13 at connection with EOL 12.

EOL 13 30°15.65
1008 hrs. 90 11.60

SOL 14 1033 hrs. Gear in water just east of Pass Manchac. Flood has running west up Pass Manchac channel into Lk Maurepas.
Clouds building, 1054 hr passing White Manchac light house.

JAN-13-1995 09:50 FROM USGS COASTAL/AMG RESTON TO 9150845723 13 P.07

Deep Thalweg Channel

1205 hrs. pause at RR bridge to allow train to pass before opening bridge

1226 hrs. continue LN 14 west of bridge heading 274°. Clouds still building, storm to South

EOL 14 30° 18.13'
90 31.57'
1354 hrs.

SOL 15 1355 hrs on heading 180°
lousey records - Organic bttm.
Seas building, 2-3 ft
EOL 15 1430 hrs.
30 16'
90 32.19

SOL 16 1637 hrs.
running across Marchand delta
from NE to SW, fixes not clear on record
EOL 16 1711 hrs.
Dana retain LN 16 with fixes

Back at dock 1800 hrs. Went to pick up Twig at airport

6 June 94 Monday

Scattered clouds, rain showers at dock
Got to dock 0600 hrs.
Rick had to wait to get fuel

Richard Young, Jeff Wilson, Dana Wiese, Dave Nichols, Helena Cichon

Left fuel dock 1000 hrs.

1107 hrs SOL 17 on heading 090°
east on 30° 10'

Scattered showers

1438 hrs. pause LN 17 at causeway to pull gear and run to east side to resume running east
90 07.76
30 09.97
1500 hrs resumed LN 17 on 090° heading

1615 last power we blown circuit breaker circled, reset circuit and resumed line
1740 lost oil pressure on M engine,
EOL 17 1815 30° 10.14'
89° 51.95'
1900 hrs at Dock

# Line Compilation

| Line | end pts | | Length (n mi) |
|---|---|---|---|
| 1 | S | 30° 01.5' | 90° 09' |
| | E | 30° 21.48' | 90° 5.45' 23 |
| 2 | S | 30° 05.68' | 90° 08.5' |
| | E | 30° 04.45' | 89° 57.1' 9.6 |
| 3 | S | 30° 01.7' | 90° 5' |
| | E | 30° 14.28' | 90° 3.7' 13 |
| 4 | S | 30° 14.78' | 90° 3.7' |
| | E | 30° 14.79' | 90° 6.96 2.6 |
| 5 | S | 30° 21.48' | 90° 5.45' |
| | E | 30° 13.01' | 89° 57.49' 11.5 |
| 6 | S | 30° 13.81' | 89° 57.3' |
| 1 | E | 30° 04.45' | 89° 57.1' 8.85 |
| 7 | S | 30° 2.6' | 90° 14.1' |
| | E | 30° 22.95' | 90° 11.29' 20.4 |
| 8 | S | 30° 22.95' | 90° 11.29' |
| | E | 30° 16.03' | 90° 17.09' 8.5 |
| 9 | S[A] | 30° 16.03' | 90° 17.09' |
| | E[B] | 30° 3.83' | 90° 18.43' 12.65 |
| 10 | S | 30° 6.45' | 90° 8.5' |
| | E | 30° 6.56' | 90° 22.63' 11.0 |
| 11 | S | 30° 6.56' | 90° 22.63' |
| | E | 30° 16.12' | 90° 19.47' 10.1 |
| 12 | S | 30° 16.12' | 90° 19.47' |
| | E | 30° 15.26' | 90° 11.26' 7.7 |

| | | | | |
|---|---|---|---|---|
| 13 | S | 30° 15.5' | 90° 6.95' | |
| | E | 30° 15.65' | 90° 11.60' | 2.98 |
| 14 | S | 30° 17.85' | 90° 16.6' | |
| | E | 30° 18.13' | 90° 31.57' | 13.5 |
| 15 | S | 90° 18.13' | 90° 31.57' | |
| | E | 30° 16' | 90° 32.19' | 4.15 |
| 16 | S | 30° 19.35' | 90° 18.45' | |
| | E | 30° 18.2' | 90° 19.6' | 2.5 |
| 17 | S | 30° 09.68' | 90° 25.77' | |
| | E | 30° 10.14 | 89 51.95 | 33 |
| 18 | S | 30° 14.701' | 90° 3.56' | |
| | E | 30° 11.982' | 89° 50.50' | 13.6 |
| 19 | S | 30 13.34 | 89 49.65 | |
| | E | 30° 08.898 | 89° 52.80 | 5.5 |
| 20 | S | 30° 12.192 | 89° 49.922 | |
| | E | 30° 09.11 | 89 37.63 | 14 |
| | | | | 238.41 |

| | | |
|---|---|---|
| SS1 | SOUTH SHORE | 8 |
| SS2 | SOUTH SHORE | 13 |
| SS3 | LV 17 E. CAUSEWAY HDG W | 11.3 |
| SS4 | LVM E " HDG S | 7.48 |
| SS5 | LV 17 W " HDG W | 12 |
| SS6 | LV 11 HDG N | 10 |
| SS7 | | 6.5 |
| SS8 | | 2.2 |
| SS9 | | 3.55 |
| | | 76.03 |

TOTAL 304.44

Tuesday 7 June 94

Sunny warm, 40% chance T-storms

Jeff Wiese, Shea Penland, Rich Young, Helena Cichon, Dave Nichols, Dana Wiese

Got to dock @ 800 hrs, had to wait for Rich to locate store w/ hydraulic oil

lift dock 0910 hrs.

SOL 18 1005 hrs. running east 102° heading from EOL 3 and SOL 4 toward Barcule Bridge

EOL 18 1255 hrs. at Barcule RR bridge

SOL 19 1304 hrs. parallel to RR bridge running 215° heading

EOL 19 1412 hrs.

SOL 20 1436 hrs. east of I11 bridge running 099° toward I10 and Rigolets

1555 hrs. circling to wait for Hwy 90 bridge to open

EOL 20 30° 019.11
1735 hrs. 89° 37.63
Catfish Pt.

Gilbert hit houseboat ~1930 hrs.
great day other than that

8 June 94 Wednesday

Shooting last night 1130 outside
hotel. 40 SHOTS - POLICEMAN KILLED 16-YR-OLD
WHO PULLED GUN. 2 WINDOWS FROM MINE!! AC

At boat 0810 hrs.
damaged seismic gear and put
in truck. Mobed Twigs Q-mips
Side-scan sonar. At 1000 J went
to N.O. Historic Society to examine
archive map displays.
Back at noon.
Left dock to test gear 1430 hrs.

Klein 100 kHz fish
100m per side scale
towed 7ft below surface

Start 1512 hrs.
File LIFI.DAT LINE 1
ping 1180 start east along west side
Hbc outer breakwater.

End GSS run 1 1655 hrs on east side
NO airport. Roll 1

Back at dock 1715 hrs.
Lots of cross talk on port record due to shallow water

9 June 94 Thursday
Jeff Wise, Dave Nichols, Rich Young, Helena Cichon
Left dock 0815 hrs

Fish in water at N.O. Lakefront airport 0835 hrs
= LN2 =
L2F1.DAT 0834:51
RESTART 0839:11

ROLL 2

FISH TOW DEPTH 5 FT, 100 m scale

slides of failed metal sheet pile at N.O. airport

END
0903:51 FISH HIT BOTTOM
TAILFIN DAMAGE

New tail section, tail fins
tow depth 5'

START 0930:00 L2F2.DAT
BACK TO UNKNOWN CHANNEL
START OF CAMP SECTION OF SHORELINE
HDG. E

L2F3.DAT 1003:00 FILE CHANGE

multiple sand bars in front of stone revetment. Sand bars not present at sandy beach at Lincoln Beach

START 1035:40 L2F4.DAT

END 1047:40 FISH HIT: BOOM BROKE WHERE BUT BEFORE

1108 hrs fish rerigged on shortened boom. Resume running east farther offshore to try seeing interface of nearshore sand and mud

START 1126:14 L2F5.DAT

START 1158:49 L2F6.DAT

START 1231:30 L2F7.DAT

START 1235:24 L3F1.DAT LINE 3

SOL 3 HDG WOW 30° 10°

START 1311:05 L3F2.DAT

START 1343:39 L3F3.DAT

Excellent trawl marks running west.

START L3F5.DAT 1416:15

START L3F6.DAT 1449:02

Waves building from storms over New Orleans and east.

EOL 3 LINE 4

SOL L4F1.DAT 30° 10.04
1505:55 90° 06.340

heading 184° toward New Orleans ~1 mi west of causeway

L4F2.DAT 1538:44
L4F3.dat 1611:00

1635 pulled in fish from 7' to 5' featureless sand coming in close to shore

EOL 4 1643:41 hrs 30° 02.650
90° 07.760

Back at dock 1700 hrs.

10 June '94 Friday

Jeff Wms, Helena Cichon, Rich Young, Dave Nichols, Bob Neal, John Lopez

Overcast, warm, 60% chance T-storm

Left dock at 0840 hrs

Crossed causeway at South high pass to run 30°10' west.

0915 hrs fish in water

SOL 5 30°10.000 LINE 5
9807.753

0043:00 (0915)
L5F1.DAT

Scattered clouds over lake
0915

All record times are
- 8 hr. 34 min relative to
real time

Tow fish at 6' HDG. 265°

0114:42 L5F2.DAT
0147:20 L5F3.DAT
0219:56 L5F4.DAT 30°10
0252:30 L5F5.DAT 9022.1
EOL 5
SOL 6 LINE 6

0311:44 L6F1
0344:19 L6F2

1225 OVERCAST T-STORMS
N, E, S QUADRANTS TORNADO
WARNING

0356:59 BREAK 6 56 1/4 45
SEAS TOO CHOPPY

Heavy seas (4-6 ft) coming back to dock. Bad storm - short period large waves
Docked at 1500 hrs. - no injuries or damage to GKG

11 June 94 Sat

Overcast + humid
got to boat 0810 hrs.
Jeff Ewin, Helena Cichon, Rob Young
Bob Seal, Dave Nichols

Twig / Nancy need:

listing of lines, files + dates
tapes
Cruise report

Left dock at 0831

ROLL 3 LINE 7 SOL 30° 01.8
Tape 2 90° 05

TOWFISH AT 6' HDG 006°

0850:00 L7F1.DAT (BAYOU ST. JOHN)
0922:24 L7F2.DAT FISH AT 7'
Area of intense brown shrimp fishing
— LORAN not working —
Boat speed 5.1 kts.

0932 hrs. LORAN working

LINE 8

0953:44 L8F1.DAT

HDG 90°

↑ 30° 07' 90° 04'

EOL 30° 06.46 90° 01.99

SOL

↓ 1016:11 L9F1.DAT

LINE 9

HDG. 180°

1049:50 L9F2.DAT

TOWFISH AT 6'

EOL 9 1108:29

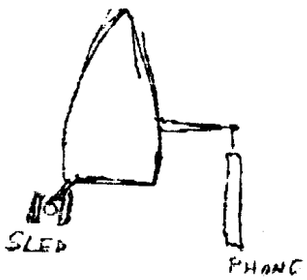
Back at dock 1140 hrs.

Downloaded SSS and drove to airport to Fed Ex to UK Eng

# Dana Wiese's Lk. Pont 94
## Field Notes

Lake Pone 5/31/94

-Use port gen




Note Diff. GPS in use (coast guard stations)

Jeff [illegible]
R.V. Gilbert
Delph [illegible]
Geolink XBS Ver 3.0
Huntec sled
ITI STS hydrophone
Trimbel NavTrac / NavBeacon XL
Port Gen.
2 LeGrande 505 UPS
#1 Delph 486, M/U Drive / Ext H.D.
#2 5FG, 3FGX, (mon), plotter (DYO)
-3600, ADL, GAIN=34
" "

Pon531-1.xxx - seismic
* Pon531-2.xxx seismic

(Jeff = [illegible])

Pon531-2.xxx -test
Pon531-2.dat - following bridge (Nav data)
SOL shot 100
- NAV is not appearing on delph record -

PON531-3.DAT - new nav file

PON531.4.DAT - new nav file (routed NAVTRAC GPS thru seismic system - set GPS+C to output every 60 sec fixes)

EOL PON531-2. - 2nd high-pass

6/1/94 Lake Pone - using port ^ gen (4800 N, 8, 1)
- Nav ok (Geolink port 2 + Innerspace Bathy mast because p

PNAV61-1 - Nav line - east
Pon61-1 - seismic } line 2 (3+6) (Jeff = line 2)

SOL 10:11 shot #1, no recording till shot #2
bottom 15 ft

fix 10, 11, 12 close (NOT real wrabbs)
fix 66, shot 15400 - fishing boat loop

pNAV61-1 - died (map died)
pnav61-2 - started @ shot # 24800

Pon61-1 - EOL shot 52 (35600)
- went in to have air injector filter changed (port eng)

SOL PON61-2 - (seismic) } 15:35 depth 216 ft. (Jeff = line 2)
PNAV61-3 - (Nav) seas 1-3' (rough)

SHOT 8500 - avoid fisherman
shot 11500 - rough

EOL PON61-2 16:35 - rough seas
PNAV61-3

6/2/94

SOL PON62-1 [illegible] - using port gen

PNAV62-1 [illegible]

smooth sea

NOTE - recording begun @ fix 15 (shot 100

fix 59 (shot 10,300) - changed ADE to ADL

- NOTE - ghost echo is present @ 8ms with ADL not present on ADD

fix 73 ≈ (shot 14000) - good deep channel ≈ 32ms

fix 134 ≈ (shot 28500) - filter change

fix 138, shot 29400 - turn west - EOL Jeff #3

fix 141, shot 30100 - turn on Lu SOL Jeff #4

EOL PON62-1, EOL Jeff #4 - shot 37400 fix 180, 11:55

SOL PON62-2 - using Nav file PNAV62-1,

fix 181, shot 100 - heading North along causeway

continuation of Jeff #1

fix 217, shot 8600 turn to avoid lg

fix 224, shot 10500 " " " pipe

EOL PON62-2 shot 270 EOL Jeff #1 13:25

SOL PON62-3 shot 271 turn on line, SOL Jeff #5, heading S.E.

END PNAV62-1 - 14:22

START PNAV62-2 16:24

shot 14200, fix #5, [illegible] cross-bedding
shot 14500, fix #9, swing around away
shot 30000, fix #60, 5' water, boat swinging

EOL PON62-3 16:22, EOL Jeff #15
SOL PON62-4, fix 120 (pnav62-2), SOL Jeff #6

EOL PON62-4, PNAV62-2, Jeff #6 18:30

NOTE SEISMIC SHOT #s displayed on video print out differently
60200 = -5300

6/3/94 using starboard gun

- NOTE - STARTED UNDER HIGH TENSION WIRES

SOL LINE_7 - seismic f/b } 09:21
- RNAV63_1 - nav f/b }

EOL LINE_7, 13:43

SOL LINE_8, 13:43 - (RNAV63-1 - nav f/b)

EOL LINE_8, 15:42 "

SOL Line_9, 15:42 ( " " ) good returns

EOL Line 9 : 17:20 - due to paper fault condition

SOL Line_9A 17:21 - no paper feed - hangs up computer
- New roll installed, head cleaned
shot 5000 - printing began, 17:45, seems OK
(1" paper left on old roll,
17:45 - hard drive making noise
} Line 9A Not saved

SOL LINE_9B 17:59 logged on drive E
18:04 - printer off-not printing
18:14 - printing line 9B shot 532
shot 6200 - turn

EOL Line 9B 18:34 - GPS cycling on/OFF, GPS power supply smoking

- NOTE: Both volt Reg in 'off' position, starboard volt reg fuse blown
- on testing fuse blew again - will not use starboard gun/reg circuit
- turn stbd v reg 'off' / port v reg 'on'

6/4/94 — unny port gen

NOTE - STARBOARD GEN / REG. CIRCUIT POPPED FUSES - NOT USED

SOL PNAV_10 - NAV LINE
SOL LINE_10 - SEISMIC LINE

} 10:08 am recording seis on E: sample rate reduced to 10K

fix 15, shot 3500 - tank farm
sht 26100 - turning (hunting)

EOL LINE_10 12:54

SOL LINE_11 12:54, following powerline @ 100m, shot 167
fix 302, shot 31700 turn to avoid buoy

EOL LINE_11 15:10, fix 305

SOL LINE_12, fix 306, 13:12
shot 21000 - noisy sea (warm)
shot 25500 turning into sea to improve record (fix 412)
shot 27000 turning with sea to improve record (fix 415)

EOL LINE_12, 17:02
EOL PNAV_10 (NAV)

6/5/94

SOL LINE-13 - reverse plot dir (nav position 2000)
fix #7, shot 0, 9:13 - to join up with LINE-12
SOL PNAV-13 - nav line
x fix 55 - S turns

EOL Line-13, 10:09
EOL PNAV-13

SOL Line-14 10:30 Pass Marchac shot, #2 7 ft
SOL PNAV-14
fix 12, S-turns, shot 2000
- no DGPS fix 16, 17
fix 27 shot 6000 - filter change ADD - river entrance
- NOTE - FILTER CHANGS along river
fix 92 shot 21700, circling for bridge
- pause @ shot 23000 for bridge opening - continuing nav
RESTART fix 115, shot point 22000, 12:28
fix 118, NO GPS - engine restart - on lake maurepas, ≈ 10 ft depth

EOL LINE-14 13:58
SOL LINE-15, shot 203, 13:53, depth ≈ 10 ft

EOL LINE-15, shot 241 14:37
EOL PNAV-14

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SOL LINE_16 16:39, mouth of Pass Manchac, side sea
SOL PNAV_15

note - fixes, shot #, posit. no being printed out

EOL LINE_16 17:11
EOL PNAV_15

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SOL LINE_17

SOL PNAV_17

shot 500, fix 3 on line

fix 218 - passed at bridge

fix 237 - restart line other side of bridge

fix 320, shot 5400, gps power off accidently

fix 321, back on line

fix 400, shot 24000 - switching to cable engine

fix 402, shot 25100 - S turns

fix 409, shot 27000 - GPS off 1 min

fix 427, shot 31100 - old channel - deep

EOL LINE 17 fix 437, shot 23100

EOL PNAV_17

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SOL LINE_18 } fix 4, shot 900 on line 10:10
SOL PNAV_18 }

EOL LINE_18 12:55

SOL LINE_19 13:05 following train bridge S.
EOL LINE 19, SOL LINE 20
Shot 17000 - origin chg
Shot 17800 - " "
shot 19700, fix 325 - turning for bridge
shot 20200 fix 355 - on line
EOL LINE_20 17:36
EOL PNAV_18