Jack cell# 813-580-3611

6/20 Seismic/Sidescan survey (punch.
Pit ne of CKFnt airport

No differential on the bathy today

seas lt chop, crew Rich, Dana, Jim
151735z Running la98_1 se of pit to pit (started as test file?, have
1017 local not started sidescan transects)
152035 pit se corner, 1532 pit ne corner
1533 ne pit, se corner (recording ~~100~~ 500 ms)

la test 1 (sidescan) running 1537 ~~heads~~ heading ne towards
transect start
154035 - ~~sta~~ turning around to start transect - lots of sailboats
in area.
500 KHz sidescan - saving 100 m on a side, fish about 5' under w.d.
sei 1545 starting transects
depth (la981.flg) running
1601 end line - turning to 2nd transect
1602 sol ~~s~~ lasi_2 (seismic) turning around
sol laso_2
1606 turning ~~east~~ westward into 1-2' chop, 1609 - completed turn
1626 Slowing down so Dana can play with his Dumbo
1628 - end of transect 2, turning for three
1630 turning for new transect, started new sidescan line laso3
1633 eol seismic, 1604 sol lasi_3
1651 eol. (transect three) turning into seas (west)
1653 sol lasi_4, laso 4 in turn.
1713 ~~sta~~ end transect 4, turning eastward
1715 sol lasi_5, laso_5
1724 edge of pit, 1727 come out of pit.
~~1~~ 1741 eol turning around (west) ~~lo~~ start lasi_6, laso_6
1801 ~~bottom~~ ~~edge~~ flank of pit (se), 1803 ne flank
1808 line not recorded, turning around to re-run same name (lasi_6, laso_6)
1832 eol, turning around, heading west sol lasi_7, laso 7
1841 edge of pit (se), 1842 edge of pit (ne)
1845 edge of pit (se), 1847, edge of pit (ne)
1851 eol, turning westward, sol lasi_8, laso 8
1906 edge of pit (nw), 1908 se edge of pit, 1913 edge of pit
1919 eol, turning westward, sol lasi_9, laso_9.
1930 edge of pit (se),
1938 eol, turning eastward, sol laso_10, lasi_10
2013 ~~nw~~ edge of pit
2018 eol, turning eastward, sol laso_11, lasi_11
2020 airport landing light pier pilings in sidescan

laso 12?
lasi 12?

2023 edge of hole

2038 eol turning westward Sol lasi 13, laso 13

2058 eol at airport pier turning eastward. Sol lasi 14, laso 14

2117 eol, turning eastward

2124 turning around - restarting last transect laso 15a, lasi 15

2150 end of line at airport jetty, turning ne back toward hole end line.

Sidescan line crashed during last transect

6/21 Lponch - Side scan / Seismic survey South Pt. Pit

Seas < 1 ft. crew Dana, Shea, Rich, Jim

E-W transects across pits

500 KHZ
100 m.

No lasi/6

1419 Start recording lasi_17 (seismic), laso_17 (side scan)
heading NW towards first point of transect

1424 increase speed to 4 knots, 1428 turning onto pt.

1446 ~~tur~~ eol, turning south + west. Sol laso_18, lasi_18

1500 eol, turning south + east, sol laso_19, lasi_19

1517 eol, turning south + west. Sol laso_20, lasi_20

1520 seismic record adjustment.

1533 eol turning east, sol laso_21, lasi_21

1542 west side of pit; 1544 east side. (northern edge)

1549 eol turning west, sol laso_22, lasi_22

1558 east side of pit, 1600 west side of pit

1606 eol, turn west, lasi_23, laso_23 west

1616 edge of hole seen in side scan, edge seen in seismic.

1618 eastern edge.

1624 eol, turning eastward sol lasi_24, laso_24

1632 west side of hole, 1634 east side of hole, 1636 shallow scarp

1641 caught crab trap end line, turn westward

1651 scarp begin (~~ea~~ west side), 1653 - pit ~~east~~ west side

1555 ~~wes~~ east side of pit

1709 east side of pit, 1711 pit, trending west, 1712 ~~west~~ (scarp) side of pit

1718 turning east sol laso_27, lasi 27

1724 west side of pit, 1726 east side of pit.

1733 eol, turn ~~east~~ west, sol laso_28, lasi_28

1747 eol, turn ~~west~~ east, sol laso_29, lasi_29

1804 ~~tu~~ eol turn west sol laso_30, lasi_30

1816 eol, end of survey.

6/22 Side-Scan Launch - Inner Harbor

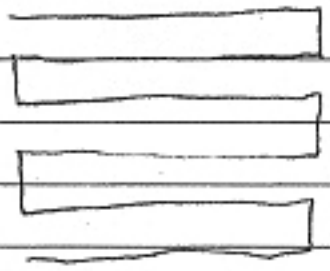
Set lines from "J" offshore "J" marker to airport, west to east, north to south

1) 30° 03.1', 90° 3.2'

30°03.1 90° 1.2' 1.92

30°02.24 90° 1.2'

30°02.24 90°3.2'



BOXCORE SITE 41
INNER HARBOR DREDGE PIT

1 Long Core DGPS ~~30°02.246'~~ 30°02.245 ~~54.7~~

~~90°02.256'~~ 90°02.269' 56.7
270

First attempt unsuccessful. It appeared from the "Dana-Cam" to fall over upon impact. Shrimp visible at bottom. from camera

2nd attempt 30°02.253' w.d. 52'

Full core 90°02.260'

Sidescan / seismic - inner harbor area.

1438 Recording seismic lasi_31, laso 31 - heading NE to first pt.

seas calm, crew Jack, Dana, Shea, Rich, Jim

1443 turning on line,

1502 col, turning west start transect 2 lasi_32, laso_32

1518 col, turning east " 3 lasi_33, laso_33

1540 col, turning west " 4 lasi_34, laso_34

1554 col, turning east " 5 lasi_35, laso_35

1617 col, turning west " 6 lasi_36, laso_36

1625 snag trap

1637 col during east " 7 lasi_37, laso_37

1658 col turning west " 8 lasi_38, laso_38

1713 col turning east " 9 lasi_39, laso_39

1736 col turning west " 10 lasi_40, laso_40

1752 col turning east " 11 lasi_41, laso_41

1755 Subtle ~~hole~~ hole west side of edge

1812 col turning west " 12 lasi_42, laso_42

1831 col turning east " 13 lasi_43, laso_43

1834 Marker "J" passes 80 ft to starboard

1848 abundant crab trap seen in sidescan -

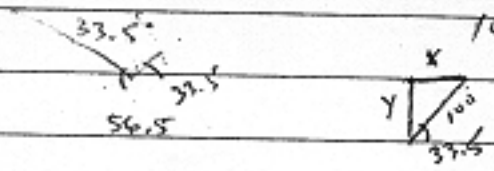
90°02.4

1850 eal, turning west start transect 14, lasi_44, laso_44
1853 ~~[illegible]~~ I.H. canal edge (or pit) east side
1855 west edge of channel.
1910 eal turning east ~~[illegible]~~ start transect 15, lasi_45, laso_45
191310 feature in seismic, possible filled dredge
1921 ~~east~~ west edge of dredge pit.
1930 east edge of channel or pits
1930 eal, turning west start transect 16, ~~turning~~ maneuvering around traps. lasi/laso_47
1931 east edge of dredge, 1932 west edge
~~1932 west~~ 1933 east edge pit #2 (Box core pit), 1937 west edge of pit.
1948 eal turning east ~~[illegible]~~ start transect 17, lasi, laso_47.
2001 maneuvering to avoid crab traps
2005 Schools of fish seen in side-scan (white fuzz)
2008 eal, turning west transect 18, lasi_48, laso_48
crab traps $< \frac{1}{8}$"
2021 party barge goes by - seen in side scan
2025 eal, end of seismic - Pull seismic

—

run in towards inlet - fire up side scan for in close inlet survey.
sol side scan laso_48a

halfway across inlet - program quits - disk full
Restart line laso_48a 2054 west to east
eal laso_turning west. sol laso_49
eal turning east sol laso_50
- filling in - inner harbor laso_51
turning back around to go through Seabrook bridge
start line laso_52, in inner harbor canal - turn around laso 53
back in lake - outside Seabrook bridge, ~~[illegible]~~ run ~ 100m of 1kfat. airport
sea wall, laso 54. 2144, 2154 end of line —



100 m = 0.05467 ' lat

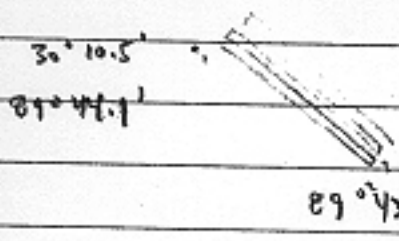
$\sin 33.5 = \frac{X}{100}$; $X = 100 \cdot \sin 33.5 = 55.194$ long.

$\cos 33.5 = \frac{Y}{100}$; $Y = 100 \cdot \cos 33.5 = 83.389$ lat.

100 m = 0.05467 ' lat ∴ 83.389 = 0.04559 ' lat.

$\frac{14}{1'}$ $\frac{12.5}{1}$ 1' lat = 0.893 ' long. ∴

100 m. = 0.05467 · 0.893 = 0.0488 ' long ∴ 55.194 = 0.027 ' long



1.) 30° 10.05 89° 44.1

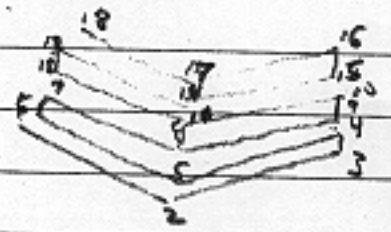
2.) 30° 09.35' 89° 43.1

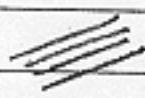
3.) 30° 09.396 89° 43.127

4.) 30° 10.096 89° 44.073

5.) 30° 10.05 89° 43.154

use same





30° 10.05'
89° 40.165'

1.) 30° 10.05' 89° 44.1

2.) 30° 09.35' 89° 43.1'

3.) 30° 10.05 89° 41.55

4.) 30° 10.096 89° 41.523

5.) 30° 09.395' 89° 43.127

6.) 30° 10.05559 89° 44.073

7.) 30° 10.141 89° 44.046

8.) 30° 09.441 89° 43.1

9.) 30° 10.1416 89° 41.496

10.) 30° 08.487 89° 43.073

11.) 30° 10.187 89° 44.019

12.) 30° 10.236 89° 43.992

13.) 30° 09.533 89° 43.046

14.) 30° 10.187 89° 41.469

increasing transect with from 100 m to 180 m

lat $\frac{.04559}{100} = \frac{X}{180}$; X = 0.082062

long; $\frac{0.027}{100} = \frac{X}{180}$; X = 0.0486

New 10.) 30° 10.2237 ; 89° 41.447

11.) 30° 09.523 ; 89° 43.0514

12.) 30° 10.223 ; 89° 43.9974

13.) 30° 10.3051 ; 89° 43.949

14.) 30° 9.6051 ; 89.43.0868 43.1

15.) 30° 10.306 ; 89° 41.348

16.) 30° 10.388 ; 89° 41.349

17.) 30° 09.697 ; 89° 42.857 43.199

18.) 30° 10.387 ; 89° 43.5004

6/23 Sidescan / Seismic Rigolets Pass

Survey Rigolets, seas calm. Crew Rich, Dana, Jack, Jim

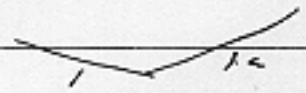
1st survey ~~south~~ east of Hwy 90 bridge "V" shaped. (coords. facing pg.)

~1510 sol laso 55, lasi_55 at Hwy 90 bridge

1514 - assume course, transect 1

1537 turning north

1538 sol laso 56, lasi_56 1 - 1a



1649 turning around, starting transect 2a

sol lasi_59, laso_57.

1620 turned northwest to Hwy 90 bridge (2b)

1632 turning around at bridge, start se transect 3a, laso 58, lasi 58

1713 lost GPS, heading ne 60° 30°9.961 89°41.838' at 11500 (trace from seismic)

1721 GPS back

1723 turning southwest, start transect 4a, laso_59, lasi_59

1740 turning northwest toward bridge transect 4b

1746 Slowed speed

1752 ~~1800~~ Stop line turn around se (transect 5a) (laso_60, lasi_6

1800 - Resume course/direction for transect 5a.

181108 Sand waves visible on sidescan visible on seismic as well.

1820 turning northeast transect 5b

1855 turning around ~~for~~ for southwest transect 6a sol laso_61, lasi_61

185650 Power supply died - restart

1925 turning north~~east~~west toward bridge - line overlaps previouse line.

1928 Sand ripples seen in sidescan - seismic

1931 at bridge, end line turn ~~to~~ to north shore for parrallel.

Sol lasi_62, laso_62

193610 - 193710 geoghagen channel gassed-out in seismic

1939 - increase speed

~~1930~~ 1958 Side scan malfunction

2013 - After much confusion decided that we weren't recording

laso_62, sol laso_62b

2125 - EOL laso 62b / 62

2127 Laso_65 / Laso 63 SOL sand waves in bottom of channel

2230 at Hwy 90 bridge - turning around, reoccupy north

2231 shore line that was not recorded. Sol Laso_64, lasi_64

2302 eol,

6/24 Seismic / Sidescan Rigolets / Chef Menteur

Finish up Rigolets west, move to Chef. Seas calm, crew:
Rich, Dana, Shea, Jim

Running nearshore north line

1343 sol laso_65, lasi_65 (847 local)

135030 turning to avoid shallow

1429 eal, turning south over the Middle Grounds sol laso, lasi_66

1450 turning eastward back toward Rigolets, sol laso, lasi_67

1527 linear, high reflective (white) features ~~appear~~ seen throughout sidescan appear to be ~~turbulence~~ a result of turbulence in the water column. Incoming tide

1533 heading east toward Rigolet. Sol laso, lasi_68

1603 ~~At~~ At Hwy 90 bridge, turning south and around back out Rigolets ~~thru~~ to lake

160802 turning onto outward line

~~1700~~ 1703 eal near middle Grounds, pull up gear head to Chef

1730 approaching entrance to Chef Menteur Pass sol lasi, laso_~~69~~ 70

1920 Reach Hwy 90 (Rigolets) bridge - ~~head bar~~ turn around head back down centerline channel. lasi, laso_71

1923 turning around to restart line at bridge record at 1926

2410 crab buoy hits hydrophone buoy, snags. End line - pull equipment. Run back up to Hwy 90 ~~to~~ Chef bridge

2046 at Hwy 90 bridge, deploy sidescan only head towards lake, laso_72

End line at inlet.

~~Re~~ Start line going ~~though~~ by marker at inlet, along SE shore

2137 sol laso_73

2151 end of line near little Cedar Bayou end