

CHANDELEUR ISLANDS

Day one survey northern Chandeleur Is.

Bay side, starting 3 km line (shore parallel)

Heading south from houseboat

29°56.9022 88°51.9651 W.D. ~3.0m

1505 local line Tol Nchand-bay. 3km RAW

CHIRP 06001. seg.

FTS D:\BICM02\060703\200304\nosite.common

Knudsen bathy 0001-2006-184-2003-001

Seas calm, winds calm

1607 eol. turning east to avoid islands

1607 new line, not using hypack line to avoid islands. Hypack Chend-bay. 3km A. raw

FTS 210620, bathy 2106-005

1645 turning back toward line

1706 turning back onto 3km line eol

1706 Sol on 3km parallel line

hypack Chend-bay, 3km B, CHIRP 06003,

bathy 2206-009, FTS 220630

1750 turning bayward off of 3km 11 line, turning onto 348 Shore L line #352

1758 turning onto 4km line, heading north

1758 hypack Chend-bay-4km A

FTS 225914, bathy 0005-2006184-2258+012

1808 sig. ass channel in CHIRP, crossing

Shore L line #348 & 4km shore 11

1831 crossing 316 L, eol eol.

7/4 Chandeleur Is. Gulf side.

Running line shore 11 2 km north to south.

Recording sidescan (100 kHz, 100 m side)

CHIRP, Knudsen 28 kHz, 200 kHz. Seas calm

swells p. cloudy, wind S-E, NE. Crow

Dana W., Keith L. Jim F. 1' chop

859 local Sol hypack 004. 0858. eol.

Chirp 06006, bathy 0001-2006-185-182. 001

Sidescan C:\BICM02-SS\185-1359.XTF

FTS D:\BICM02\060704\135922

908 Sidescan, 28 kHz coincident feature

1101 eol hitting 30K mark on CHIRP

1102 Sol 004-1101, chirp 06007

bathy 002-2006-185-1601-007, SS 185-1602

1256 mark 32K on CHIRP start near eol

1256 Sol hypack 004-1256, chirp 06008,

FTS 175520, bathy 1755-013, SS 185-1755

heading south on shore 11 004, 2 km offshore

1314 at end of AshTech base station circle,

turning shoreward on line 292, not changing line files

1324 turning onto shore 11 line 1 km offshore,

heading north eol

1324 Sol hypack 005-1323, chirp 06009

FTS 182355, bathy 1824-015, SS 185-1824

→

7/4 cont.

1500 Sol, near CHRO traces,

1500 Sol 005-1500, chirp 06c10,

FTS 202158, bathy 2001-020, SS 185-2001

heading north on 1km shore //

1625 Sol, getting shallower, veering offshore

1625 Sol same line and direction

005-1625, bathy 2126-025 SS 185-2125,

FTS 212617

7/5 3km bathy survey Chandeliers

working gulf side, northern half of islands, shore $\perp$ lines. Skies p. cloudy, 1' chop w/ swell. wind S-lts W.

Crew Dana W., Keith L., Jim F.

Starting onshore-offshore line 285,

working $\perp$ lines to T' u.d. at shoreline - out to 3km shore parallel line ($\approx$ 3200m)

0857 local: heading offshore on line 285

857 Sol 285600RAW, chirp 06c12,

side scan 185-1356, bathy 1356-001

FTS 131602 \ 060705 \ 135659

859 Scour seen in datasets @ 14'

922 making turn north (at 3200m offshore)

928 online 277, turning shoreward

Sol 277050, chirp 06c13, SS 186-1428,

bathy 1429-003, FTS 142917

954 beginning turn north $\approx$ 300' from shore

1000 turning onto line 270, heading seaward

Sol hypack 270800, chirp 06c14, FTS 150013

bathy 1500-005, SS 186-1459

1030 turning onto line 282, heading shoreward

Hypack 262850, chirp 06c15, SS 186-1529,

bathy 1530-007, FTS 153019

 $\approx$ 1044 skt trace 2800 in chirp - possible surface scour

1054 beginning turn near shore

1102 turning onto line 255, heading seaward
sol 255P00, chirp line 06c16, ss 186-1557,
1600-009, ~~1600~~ FTS 160023

1125 commencing turn northward
1133 on hypack line 297, turning shoreward
sol 247P50, chirp 06c17, ss 186-1632,
bathy 1632-011, FTS 163246

1155 nearshore, turning north.

1205 turning onto line 240 seaward
sol 240P00, chirp 06c18, ss 186-1703
bathy 1703-013, FTS 170411

1209 NE clap increasing chirp diminishing

1229 at 3200m mark, turning north

1237 turning onto 232,
sol hypack 232P50, chirp 06c19

ss 186-1735, bathy 1736-018, FTS 170411

1302 turning northward. at shore line

1307 turning seaward on line 228P00,
chirp 06c20, FTS on 380 xc delay,
bathy 1807-017, ss 186-1807

1336 turning northward

1345 turning onto 217P50, chirp 06c21,
bathy 1843-019, ss 186-1844, FTS 184456

1409 turning north

1415 turning onto line 210P00, chirp 06c22
ss 186-1915, bathy 1915-021

(Cont.)

1443 turning northward

1446 scarp seen in bathy/CHIRP (6150)

1448 turning onto line 202P50, heading shoreward
chirp line 06c23, ss 186-1948, bathy 1948-023

1512 turning northward (incl. 11)

1518 turning onto line 195P00, CHIRP 06c24
ss 186-2018, bathy 2018-025, FTS

1523 feature in CHIRP downlapping reflectors
trace 650

1543 turning north (at 3200m from show)

1551 turning onto line 187P50 shoreward,
chirp 06c25, bathy 2049-027, ss 186-2050

1609 Big log surface ledge in CHIRP trace 3600

1611 water shallowing to 7.5', turning

1616 turning onto line 180P00, chirp
line 06c26, bathy 2116-029, ss 186-2116 seaward

1643 turning north

1649 turning landward hypack 172P50

chirp 06c27, bathy 2148-031, ss 186-2148

1710 at shore, turning north, too rough offshore -
running shore parallel in ~ 11' w.d.

1739 end nearshore, end

Sea-state worsening

7/6/06 Grim Chandeliers

North end of islands, running shore L
across end, then working NW quad. of grid
Skies cloudy seas calm, winds 5 kts.

Crew Dana W., Keith L., Jim F.

0814 local at NE quad of grid, 3km
NE of Chandeliers north "lighthouse"
heading SW across northernmost island
into South.

0818 Sol hypack line # 22P50,
Chirp 06028, SS 187-1314, 1313-001
FIS 060706 \ 131352.

0829 dramatic shallowing
SW at end of offshore grid, heading
SW, picking up line 10 on bay grid
Chirp 06029, SS 187-1344,
bathy 1344.003

0855 trace 1715 lowered CHIRP

0855 lowered chirp trace 2250

0930 cal, turning north onto next line
Sol 009.930, Chirp 06030, SS 187.1430
bathy, 1430.004

1005 ridge seen in bathy, CHIRP

1007 another ridge

1016 cross islands, beginning new line
on hypack line 18P00, chirp 06031,
SS 187.1515, bathy 1515.007

(Cont.)

1025 big ridge in chirp (1900) and bathy
1039 at 3km offshore gulf side -
turning north to next line.

1045 at line 7P turning SW onto line.

1058 ridge (22.5m)

1109 Sol at bay grid line 8
hypack 008.1109, Chirp 06032,
SS 187-1609, bathy 1609.012

1129 lowered chirp

1153 cal, turning onto line 7 NE
Sol 007.1153, Chirp 06033, SS 187-1654,
bathy 1654.005

1224 raised chirp a little

1230 cal

1230 Sol on gulf side OPW, Chirp 06034,
bathy 1729.017, SS 187-1728
1244 scour channel.

1244 turning onto base station max
extent radius "MARK-Chandeliers".

Heading south along radius to bay
side 3km shore line.

1326 turning onto bay side 2km line
heading south

Sol 003.1325, Chirp 06035
bathy 0008.2006-187.1824-020
SS 187-1824

7/6 cont

channel seen in CHIRP 1219
1456 raised chirp, approaching Pelican #2
1517 tied-in to previous chirp line
running shore 11 bay side. turning
out to 3km shore 11
sol 1204-1516, chirp 06c36, SS 187-2015
bathy 2015-026
1522 turning onto line 4 (3km shore 11)
1545 reflector dropping from surface in CHIRP
1700 at end turning toward bay side
at line 11 to begin shore 1 line
1706 running 4km shore parallel
005-1706, chirp 06c37,
bathy 2158-031, SS 187-2206
1808 on 4km shore 11 line at line 17 sol

7/7/08

BICM (Now called 06SC02)

How come?

Surveying bay side ~ 4km offshore,
heading south to North Is. Skies p. cloudy,
Sea 1' chop, winds 10-15 Kts SE, crew
Dana Wey, Keith L., Mark Kulp, Jim E.

0756 (local) sol 005-0756 (4km Shore
11 bay), chirp 06c38, SS 189-1256,
bathy 001-2006-189-1256-001,

FTS D:\BICM 02\060708\125713

0806 possible channel in CHIRP, trace 1900

0870 small channel?

840 channeling seen in CHIRP

931 getting really shallow - raising CHIRP
+ Sidescan

1001 clearing islands, turning east to
survey down line 49 into small channel

Sol 079-1001, chirp 06c39.

bathy 1502-008, SS 189-1502

1047 at 2km Shore 11, turning around to
outgoing Shore 1

1051 turning onto line 50, heading offshore,

hypo 050-1051, chirp 06c40,

bathy 1552-011, SS 189-1552

1056 lowered chirp

1115 turning south

1126 turning on to line 51, heading east

051-1126, chirp 06c41, bathy 1620-1013, SS 189-1620

1146 turning south (at 2km shore 11)

1150 turning onto shoal line 52

Sol 052-1150, Chirp 06c42, bathy 1651-015,
SS 189.1650

1205 downdrugging reflectors in CHIRP

1213 turning south to next line.

1218 platform seen in sidescan

turning onto line, Sol 052-1218, Chirp
06c43, bathy 1720-017, SS 189.1720

1244 turning at 2km shore 11

1249 turning onto line 54

Sol 054-1248, Chirp 06c44, SS 189.1248,
bathy 1749-019

1259 channel starts

1327 turning south (getting shallow)

1338 turning onto next line

Sol 055-1338, Chirp 06c48, SS 189.1337,
bathy 1837.022

1410 turning onto 2km 11

1412 capst. turned on 3km - turn back

1421 turning

1424 turning onto next line 56

Sol 056-1423, Chirp 06c46, SS 189.1423,
bathy 0009.206 189.1423.025

1453 turning onto line 57,

Sol 057-1451, Chirp 06c47, bathy 1952.029

SS 189.1952

1519 getting shallow, turning seaward
to a bearing of 330° , diagonal transect
across lines to location where buried incised
channel was observed. No new lines because
no planned line.

1542 Sig channel.

— Sidescan sonar blown fuse eod

1634 sidescan fixed. Running line around
Free Mason Is.

Sol 058-1606, Chirp 06c48, SS 189-2133
bathy 2129-032

1715 Channel edge?

1718 turning 90° port to reacquire channel

1731 turning 90° port

1736 possible channel.

1752 sidescan fixed, recording SS 189.2249

1756 possible channel edge

1758 eod at Free Mason eod.

29°43

51.8

7/9/06 BICM

Running shore 1 lines, southern

Chandeleur Is. Chirp, 200/28 kHz,

Side scan. Seas 2' chop, winds 15-20 S

Crew Keith L., Dana W., Jim F.

0912 local. sol 058-0906, chirp 06c49,

bathy 0001-2006-190-1406-001, SS 190-1406.

FTS 140644. Starting mid line 58

heading bayward.

0925 sol 060-0924, chirp 06c50,

bathy 1424-002, SS 190-1424

955 turning bayward to next line -

(sea state rough - 10-14' max roll)

0955 sol 061-0954, chirp 06c51,

bathy 0003-2006-190-1454-001 SS

SS 190-1453.

1017 turning onto line 62, Gulfward

sol 062-1016, chirp 06c52, SS 190-1516,

bathy 1517-006

1041 turning south.

1048 turning onto line 63 bayward

sol 063-1047, chirp 06c53, SS 190-1547,

bathy 1547-008

1109 turning south

1114 turning onto line 64

sol 64-1114, chirp 06c54, SS 190-1614,

bathy 1614-010

1158 turning south

1144 turning onto line 65, sol 065-1144,

06c55, bathy 1644-012, SS 190-1643

1208 at end, turning northward running

shore 11 at about 5.5 km off shore

1245 turned onto 4 km shore 11 between

shore 1 lines 61 & 62 to finish grid.

1343 Running along backside of island

in 8' water depth, along smaller channel?

Note near surface reflector in sub bottom -

overwash? Possible grab site:

29°47.584, 88°52.857

1508 Continuing shore 11 backside in

"8" water, .75-1.25 km off shore

(following 8' contour). Start new line

at redfish point. 006-1506,

chirp 06c57, bathy 2006-022,

1515 hit bottom, side scan caught under

jet. Heading to deeper water

1637 Bumps seen in bathy profile (grass beds?)

Side scan 2140 - features correlate

w/ bumps (grass?)

grab sample

1727 hit bottom, rip transducer off of mount.

EOD

7/10/06 Biom survey

Knausen system out of commission.
today, running Chirp + Sidescan +
innerspace bathy

running shore parallel close to shore
(~9-10') on backside of islands
heading north. Skies clear sea calm
Crew Keith L., Dana W., Jim F.

853 local starting line where yesterday's
debacle occurred.

Chirp 06057, SS 191-1353

No hypack.

915 Chirp quit eol restart 06058

921 started hypack recording using
innerspace system.

925 chirp quit

at north end of island, running
sidescan mosaic

1022 start northernmost line - heading
bayward. 031-1022

1048 29.1048, 1109 27.1109,

7/12/06 Biom (06500) survey

Chandeleur Is. gulf side - shore //
heading south from previous southern
extent ~~off~~ (line 292) Seas light chop,
1' swell. Skies clear, wind 11 kts. WNW.
Crew ~~Bob~~ Dave B., Dana W., Jim F.
1231 local Sol at 1/4 km from shore
heading south.

1231 Sol 001-1231, Chirp 06070,
Chirp 06F-LF-071.5gy + 06F-HF-071.5gy
Sidescan 193-1725

1302 start new line, closer to shore but
same bearing 001-1303, Chirp 06071
bathy 06F-LF-073, 06F-HF-073, SS 193-1801
1310, big channel corresponding to old
shoreline on chart, shows up well
on 28 kHz

1423 heading east to avoid shallow water.
start new lines 001-1423, Chirp 06072
SS 193-1924, bathy 06F-LF(HF)-077

1535 at end of survey area, (line 495)
eol

turning to shore line 495 heading seaward
Sol 49500, Chirp 06073, SS 193, 2036,
bathy 06F-LF/HF-080

1616 at eol, SK out turning north to next line.

1621 turning onto shore & line heading shoreward 487050, chirp 06c74,

bathy 06F-LF/HF-082, SS 193-2120
1700 at shoals eol, eol.

7/13/06 31cm (065CC) Chandelier Is
working southernmost extent of grid,
Shore II. Seas 1' swell, winds SKts S,
Crew Dave B., Dana W., Jim F.

0851 sol 480000 heading seaward on
line 480. chirp 06c75, SS 194-1349,

bathy 06F-LF/HF-084, FTS 135029

926 at eol turning north to next line

938 turning onto line 472 heading shoreward

sol hypack 472050, chirp 06c76,

bathy 06F-LF-086, SS 194-1438

955 maneuvering around oil rig

958 passing rig - seeing wash from service
boat in sidescan

1018 final eol, turning north to next
line 500 465000, chirp 06c77,

SS 194-1516, bathy 06F-LF/HF-088

1021 lower chirp, 1022 turning onto line

1030 change in SS pattern from mottled to
"homogeneous" also seen in 28 kHz as
increased bottom noise.

1111 turning onto line 457 heading shoreward
sol 457050, chirp 06c78, SS 194-1611

bathy 06F-LF/HF-100

1153 picking seaward on line 450000,

chirp 06c79, SS 194-1653,

bathy 06F-LF-102

1703 feature in sidescan may
correlate w/ 28 kHz

1236 at eol, turning north

1243 turning onto line 442P50, shoreward

Chirp 06C80, SS 194-1742, bathy

06F-LF-104, HF-105

1323 at eol, turning north

1329 sol 435P00 heading seaward

Chirp 06C81, SS 194-1829, ~~06F-LF-106~~

2 bathy files 06F-LF-106, 06F-HF-108

1333 scarp in sidescan + chirp

1403 patterns in sidescan

1410 more patterns (bubbles?)

definite shadow on bottom.

1413 ledge in seismic, bathy, SS, SS.

1414 at eol, turning around - going

down same line to check patterns

at 1410, 1413

1418 turned completely around -

heading down (shoreward) same line

Sol 435P00 chirp 06C82, SS 194-1914,

bathy 06F-LF-108, 06F-HF-111

1420 tests a.k. patterns duplicated,
turning seaward towards end of
next line.

1428 turning onto next line

Chirp
Sol 427P50, ~~SS~~ 06C83, bathy 06-LF-109
06F-HF-112, SS 194-1928

NOTE: LF & HF bathy files are not in
sync. offset line #'s may cause
confusion later because they are not
correlative.

1439 patterns in sidescan

1452 scarp in seismic

1452 AshTech ~~line~~ station died. Hypack
quit logging. Turned around on
line. Rerun line seaward to point
where AshTech station died.

Sol 427P50A, Chirp 06C83a,
bathy 06F-LF-115, 06F-HF-115,
SS 194-2023

1539 scarp.

1541 at point where Hypack died,
turning around to head to next line.

1600, turning onto line 420, heading
seaward Sol 420P00A, chir 06C84,
SS 194, 2100, bathy 06F-LF-117, HF-117
1612 at eol eol

12
12
1550
50
5000

29° 42.11

7/14/06 BICM (0658C)

Chandeleur Is.

Working south part of grid offshore
shore perp. and parallel. Skies
p.c. cloudy, seas calm, winds 5-10 kts,
crew Dave B., Dana W., Joe Kemper (AWD)
Jim F.

0922 Sol 412P50A Shore L, heading offshore
chirp 06c85, ss 195-1920, bathy
06f-LF-119, 06f-HF-119, FTS
060714\ 141553

927 restart chirp 06c85A

951 ledge in bathy + CHIRP

1001 at col, turning north

1007 turning onto line 40500s, seaward
hypack 405000, 06c89, ss 195-1507,
bathy 06f-LF-122, 06f-HF-123

1044 at col, turning around - heading
to 11km Shore II line

1050 at 11km Shore II line heading south

005-1050, chirp 06c90, ss 198-1549,
06f-LF-124, 06f-HF-125

1202 at end of grid, heading offshore
to 26km Shore II offshore

1208 turning onto line (above)

Sol 004-1208, chirp 06c91, ss 195-1708,
bathy 06f-LF-127, 06f-HF-129

3328032 3331310

1213 lowered CHIRP, trace 800

1328 at north end of grid, turning seaward

1335 lowered CHIRP, trace 18100

1337 turning onto 31km offshore II,
heading south. Hypack line 003-1336,

chirp 06c92, bathy 06f-LF-131,

06f-HF-133, ss 195-1836

1449 ~~at~~ at end of grid, turning seaward,

1457 turning onto 4km Shore II line heading
north, sol 002-1457, 06c93, ss 195-1956,

bathy 06f-LF-134, 06f-HF-137

1553 ridge in ss, bathy, chirp

7/15/06

Calibration test - Duplicating
line to be run by R/V Acadia
north side of Chandeleur Is.
NE-SW. ~ 3mi Bathy only.

Coords 30° 07' 88.88 30° 06' 88.85

30° 4.2 52.8 30° 06' 88 51'

412 52.18

0901 Sol 001-0901, 06f-LF-141, 06f-HF-140
926 col

926 turn around, head back up line 1km

941 001-926, 06f-LF-142, 06f-HF-142
col