

5/10/06 Fla. Shelf Habitat Mapping 06
 06 FSHM leg 1. Sidescan Sonar, Multibeam,
 CHIRP. Crew Dana W., Rich Y., Jim F.

Survey south of Big Sarasota Pass. Overlapping
 Twitchell mosaic and extending south ~ 7km.

Skies clear, seas 1-2' wind 15kts SW.

Running 80m swath with Line file

06 WFSHM 01 v 4 grid law

132222

Chirp sol 06c01, running circles

500kts

132346 sol sidescan 130-1323.XTF 100m on a side

1324 Turning SW onto hypack line 12

1326 saving swath 2006MAY10-132552.SX

132742 lat 27°16.0109 long, 82°34.7013 wd. 27.5'

3.7kts

133838 MultiBeam stopped. 27°15.44

1343 Restart Swath (line name 132552) - same
 line name, different location.

134516 picked up crab pot on sidescan

stop

1409, didn't start logging Hypack until now: 012-1408.130

15

1415 No chirp annotation to this point eol

1417 Start new Chirp line 06c02

1430 eol (seen note*) turning

5/10 cont.

143642 Sol Hypack 006-1436.130

Chirp line 0603

Sidescan 130-1436, Swath ~~may 9 survey~~ 10-143642

143845 on line

* Note. 3009302 lat 27° 11.8975

From prev. page. Don't have time to run grid of lines @ 1.5 hrs. w/ only 9 days survey time. So reducing lines by 1/2 hour. Rewrite grid 06WFSHM01V Sgs

1448 lowered Chirp few feet

ed. 1535 end of line, NW section turning seaward

1536 start new Hypack line 011-1536-130

1539 turning onto Hypack grid line # 11

Sol 154106 Sidescan 130-1541, Swath ^{may 10} - 154132

chirp 0604

1642.33 ed at eol turning seaward

Sol 164702 Hypack 016-1646.130, chirp 06005

Swath 10-164759, sidescan 130-1648

1652, striations in sidescan ^{is} are probably rolling

174520 at eol. turning seaward

1834 features on sidescan

5/10 (cont.)

174957 sul hypack 020-1749.130 Chirp 06c06

Sidescan 130-1750, Swath 10-175221

heading SW. Lat $27^{\circ}15.3609$, Long $82^{\circ}35.3478^{\circ}$

w.d. 33.3'

184939 eol, turning seaward

185325 sul Hypack 024-1853.130, Chirp 06c07

Sidescan 130-1853, Swath 10-185340

heading NW. Lines covered (from new file v.5)

So far: 1, 6, 11, 16, 20, 24

194916 eol, turning seaward

195307 sul hypack line 28 028-1952.130

Chirp 06c08, Side scan 130-1955

swath 10-195529

205130 eol

2059 running a NW line in between lines 17 & 18

Hypack 017. 2059.130 Chirp 06c09

Swath 10-210122, sidescan 130-2101

215644 eol, eol.

5/11 Fla Shelf Habitat Mapping 06FSHM 01

Continuing sidescan, swath, chirp grid.

Seaward side. Skies clear, seas 1-2' swell 1'

12' NE winds. Crew Dana W., Dave B., Tim F.

130724 (907 local) SOL Hypack line # 32. Filename

032-1307-131, Sidescan 131-1307

Swath May 11-130727, Chirp not ready

1311 already ran this line - eol.

1324. On correct Hypack line # 32 filename

032-1323-11, Chirp 06c10, Sidescan 131-1324,

Swath May 11-132414, heading SW, speed 4, wind 35'

1357 Reflectors showing up on sidescan

1408 Chirp increasing.

1418 features on sidescan.

142654 eol., turning seaward.

143130 SOL, hypack # 36 filename 036-1431-131

Chirp 06c11, sidescan 131-1431; swath 11-143141

1449. features seen in sidescan are surface waves.

153046 eol heading offshore, line 39

1535 SOL, same hypack file, chirp 06c12

Swath 11-153609 sidescan 131, 1535 heading SW

5/11 (cont.)

164420 sol 044-1644.131 hypack (line 44)

Chirp 06c13, sidescan 131-1645, swath 11-164844

1702 features in sidescan

174412 eol, heading seaward.

175628 sol hypack 048-1756.131 (line 48)

Chirp 06c14, sidescan 131-1757 swath 11-175752

1834 features on sidescan.

1855 eol, heading seaward

1909 sol hypack line 52, filename 052-1909.131

Chirp 06c15, swath 06c15 11-191422

Sidescan 131-1917

1934 possible sand waves in Swath

2006 eol.

2009 sol hypack "56" filename 056-2009.131

Chirp 06c16, sidescan 131-2010 swath 11-201035

heading SW, w.d. 34.5, Lat 27° 14.4177 long 82° 36.7277

2114 eol eol. Seas 2 rough

5/12

Running hypack line 34 NE-SW. Seas very rough
4' winds 20 kts NW. Probably won't work.

131839 sol hypack 034-1318.132 ss 132-1316, swath 12-131712

Lines Completed

5/12 cont.

1358 Features on sidescan	1
1408 possible sand waves	6
1428 eol. turning shoreward	11 -14
14332 sid hypack 30, filename 030-1433.132,	16
side scan 132-1434, swath 12-143442	17.5
155659 eol. turning shoreward	20
160549 sid hypack 26 filename 026-1605.132	22
swath 12-160653, ss 132-1606	24
171237 eol.	26
171844 sid hypack 22 filename 022-1718.132	28
ss- 132-1719, swath 12-172019	30
1852 eol	32
185719 sid Hypack "14" 014-1857.132, closest	37
to shore. ~ .7 km from inlet, leading SW,	39
W. J ~ 29' ^{ss} 132-1857, swath 12-185727	41
195911 eol, eol.	44
2139 eol, eol	48
	52
	56
	60
	64
	68
	72
	76
	80

5/15 ESHM GWT.

Continuing survey. Crew Rich V, Nick F, Dana W.

Jim F. Skies overcast, seas 1'

sol hypack filename 037-1348-135 (line 37)

sidescan file 135-1348 swath 15-134817

1421 Changing swath line # to 15-142136
(reducing file size)

1442 eol, turning seaward.

1445 sol 41 hypack filename 041-1445-135

Swath 15-144631, sidescan 135-1446

1504 Start new swath line 15-150440

1554 sol hypack 60 filename 060-1553-135

Swath 15-155309, sidescan 135-1553

Running CHIRP 06c17

↳ Changed to 100 kHz
(was 500 kHz)

1646 eol

1652 sol hypack 61, filename 061-1651135,

CHIRP 06c18, sidescan 135-1651, swath 15-165219

heading NE, w.d. 35.6'

1715 features in sidescan

1721 Start new swath line 15-172114'

1749 eol

1753 sol 68 hypack filename 068-1753.135

sidescan 135-1783, chirp 06c19, swath 15-175320

1823 features in sidescan

Start new swath 15.182346

1844 eol.

1847 sol hypack 72, filename 072-1847.135

chirp 06c20, swath 15.18400, SS 135-1848

1946 eol

1949 sol 76, hypack filename 076-1949.135

chirp 06c21, swath 15-195008, SS 135-1949

2010 reduce speed for traffic

2013 feature in sidescan is possible boat wake

2024 New swath line 15-202423

2025 Features in sidescan

2040 eol

2043 sol hypack 80, filename 080-2043.135

chirp 06c22, sidescan 135-2043, swath 15-204405

2139 eol, eol

5/20 Dave, Nancy, Lisa, Neer

1 Aing, 36 knots @ pass, forecast - ugly

Continuing grid. Seas clear, seas 2' NW,
winds 110 kts.

Starting fill-in lines w/ line 46. Sidescan (100 kHz)

Swath, (no chirp). Crew Dave B., Dave W., Jim F.

1350 (950 local) Sol 046-1350.140 (hypeck line 46)

Swath 2006 mcy 20-135042. SS 140-1350

1439 eol. turning seaward [↑] grid features

1444 sol hypeck 50 file name 050-1444.140

SS 140-1445, swath 20-144531

1545 eol turning seaward

1549 sol hypeck 54 file name 054-1549.140

SS 140-1549, swath 20-154948

1635 eol

1639 sol Hypeck 58, file name 058-1638.140

SS 140-1639, swath 20-163995 heading NW into

sea, w.d. 32.5'

1655 possible hardbottom on SS, turtle sighting

1715 Features on SS

1739 eol, turning seaward



5/20 Continued

1741 sid hypack 62, filename 062-1741

ss. 140-1741, swath 20-174131

1802 features in ss

1826 eol, heading seaward

1833 sid hypack 66, filename 066-1833.140

swath 20-183349, ss 140-1833

1930 eol

1934 sid hypack 70, filename 070-1934.140

ss 140-1934 swath 20-193433

2006 lines in section possible jet bubbles in ^{wave} trough?

2019 eol eol

5/22 FSHM

Continuing grid, outside crew Rich Y., Dana W., Jim F. Skies overcast, seas 1' chop, 11 kts NW wind.

1250 sid hypack 74, filename 074-1256.142,

swath map 22-125942 ss 142-1259 heading

sw w/seas, wind 36.8'

1346 eol, turning seaward

1350 sid 78, filename 078-1350.142, ss 142-1350

swath 22-135054

5/22 cont.

1425 letting autopilot run boat - may produce
similar track line

1442 eol.

1451 sol hypack 82, filename 082-1451.142

swath 22-148209 ss 142-1451

1515 lots 'o features in sidescan

1531 dropped speed to 2 kts to test
swath width

1532 resume speed.

1537 eol

- Changed line file to 611 fingers - new
line file is 06WFS100m - Allgrid

1602 sol 42.5 filename 42.5.142, heading
NW, wd. 33.5, ss 142-1603, Swath 22-160316

1656 eol

1715 sol hypack 12.5, filename 12.5.142 heading

SW 30.5' wd, swath 22-171516 ss 142-1715

1744 interesting linear features

1759 eol

1802 sol hypack line 9, filename 9-1802.142

swath 22-180310 ss. 142-1802

5/22 cont.

1855 eol.

185654 sol hypack line 5 - note - this line is
positioned as line 7.5 on earlier like file.

SS 142-1857, swath 22-185718

1906, slowed down to sol, just swath pile

1948 sol hypack like 4 file name 004-1945-142

(note - actually never stopped recording from prev.
line - just renamed file), SS 142-1948

Swath 22-194826

2042 eol, eod, eoc