

General Information	
Date:	28 SEP 10
Julian Day:	271-10
Mapping Project:	Cat Island 2010
Estimated Location:	Cat Island, MS N. Shore
Boat:	Streeterville
Crew/Affiliation:	BJ Reynolds - USGS CARL TAYLOR - USGS (J)
Boat Information	
Receiver Make/Model #	Ashtech Zxtreme *RCVR NEED SRVC → LOW INT
Receiver S/N #	ZE1200526034 EATR. *
Antenna Model # :	THALES CR NO DOME R/N: 701945-02 C.E
Antenna S/N #:	CR6200538004
**Antenna Height:	2.699
Fathometer Make/Model:	Navimatech FSEA 103
Power Setting	30 50 20 20
Gain Setting	20 20 AUTO 70
TVG Setting	30 30 100 100
Speed of Sound Setting	1524
*Bar Check	
Planned Line File Used:	NShore.lnw
Planned Line File Used:	
Base used for Surveying:	Streeterville
Base Station Information	
Base Location:	Point Cadet, MS
Base Site Name:	PCDT
Receiver Make/Model #:	Ashtech Zxtreme
Receiver S/N #:	ZE120013403
Antenna Make/Model # :	THALES CR NO DOME R/N: 701945-02 C.E
Antenna S/N #:	CR6200548003
Tripod Height:	2.000 m
Base Overnight?	yes

Power 30% Gain 20%
 TUG 50%
 Power 50%
 TUG 50%

Lines Surveyed		
001-1345	Crossing to line 1 and TEST LINE!	
NShore. Inw		
001-1406	Line 1 heading South	
	GPS Error/Hypack Error	
001-1438	Line 1 heading south from glitch	
	Hypack crash!	
001-1459	Line 1 " " " "	
	Fathometer continues to lose bottom at 40.87	→
002-1525	Line 2 Heading South	
003-1537	Line 3 Hdg North	
004-1544	Line 4 Hdg S → Crashed Hypack	
	Switched from USB HUB TO	
	Quatech Hub/4 Serial Port	
	Seems to be working better	
004-1623	Line 4 Hdg S → Pickup N crash	
005-1627	Line 5 Hdg N	
006-	Line 6 → S	
007-1641	Line 7 Hdg N	Lose depth N 4.00m ??
008-1648	8 → S	
009-1657	Line 9 → N	Seems to track the
	Power 20% Gain: AUTO	bottom better
	TUG 100%	w/ these settings ???
010-1707	Line 10 → S	
	Power 20% Gain 70%	"SPIKEY" bottom w/ AUTO GAIN
	TUG 100%	THIS SMOOTHED IT OUT → No Help shallow!
011-1715	Line 11 → N	
012-1726	12 → S	
013-1736	13 → N	
014-1746	14 → S	
001-1757	Crossing back to line 1	

General Information		Weather Notes:
Date:	29 SEP 10	Clear NNE WIND 10-15 SEAS 2-3
Julian Day:	272 - 10	
Mapping Project:	Cat Isle 2010	
Estimated Location:	CAT Island, MS	
	West Point	
Boat:	Sturteville	
Crew/Affiliation:	BSR USGS CARL TAYLOR USGS(5)	
Boat Information		
Receiver Make/Model #	Zxtreme Ashtech	
Receiver S/N #	ZE1200526034	
Antenna Model # :	THULES CR NO DOME 701945-02 v. E	
Antenna S/N #:	CR6200538004	
**Antenna Height:	2.699	
Fathometer Make/Model:	MARIMATECH (SEA 103 (2067))	
Power Setting	30 30	
Gain Setting	70 70	
TVG Setting	100 90	
Speed of Sound Setting	1520	
*Bar Check		
Planned Line File Used:	NPoint.lnw Gilbert @ Crossings.lnw	
Planned Line File Used:		
Base used for Surveying:	PCDT	
Base Station Information		
Base Location:	Point Cadet, Sea Well, MS	
Base Site Name:	PCDT	
Receiver Make/Model #:	Ashtech Zxtreme	
Receiver S/N #:	ZE120013403	
Antenna Make/Model # :	Thules CR NO DOME 701945-02 v. E	
Antenna S/N #:	CR6200548003	
Tripod Height:	CFHT-TALL 2.000m	
Base Overnight?	Yes	

P/G/TVG

Lines Surveyed	S Shore. In w	
008 - 1212	Line 8 → S	Still losing bottom No. 80
007 - 1229	7 → N	
006 - 1252	6 → S	
005 - 1311	5 → N	
004 - 1326	4 → S	
003 - 1338	3 → N	
002 - 1355	2 heading S	
001 - 1410	1 heading N	
013 - 1429	Crossing back to Line 13	
	* Gilbert PC crossings. In w	
008 - 1524	8 heading S	
	* SE Shore. In w	
019 - 1541	19 heading SE (↑ from end of 8 to begin of 17)	
018 - 1556	18 heading NW	
017 - 1614	17 → SE	
016 - 1627	16 → NW	
015 - 1642	15 → SE	
014 - 1653	14 → NW	
013 - 1706	13 → SE	

4/30/45

7/30/30

6/30/45

8/30/45

General Information	
Date:	01 OCT 10
Julian Day:	274-10
Mapping Project:	Cat Island 2010
Estimated Location:	S. Side Cat Island, MS
Boat:	Streeterville
Crew/Affiliation:	BJR - USGS CARL TAYLOR - USGS (J)
Weather Notes:	
Clear	
N 10-15	
Seas 2-3 ft	
0-1 near S Shore	
Boat Information	
Receiver Make/Model #	Ashtech Extreme
Receiver S/N #	ZE1200526034
Antenna Model #:	THALES CR NO DOME 701945-02 r E
Antenna S/N #:	CR6200538004
**Antenna Height:	2.718 m
Fathometer Make/Model:	ESEA 206
Power Setting	30
Gain Setting	30
TVG Setting	45
Speed of Sound Setting	1524
*Bar Check	YES
Planned Line File Used:	Shoreline.lnw
Planned Line File Used:	
Base used for Surveying:	PCDT
Base Station Information	
Base Location:	Point Cadet, MS on seawall
Base Site Name:	PCDT
Receiver Make/Model #:	ASHTech EXTREME
Receiver S/N #:	ZE120013403
Antenna Make/Model #:	THALES CR NO DOME 701945-02 r E
Antenna S/N #:	CR6200548003
Tripod Height:	2.000 m CFHT - TALL
Base Overnight?	YES

General Information		
Date:	02 OCT 10	Weather Notes:
Julian Day:	295-10	Clear
Mapping Project:	CAT Island 2010	N - 10-15
Estimated Location:	CAT Island, MS	Seas 1-2
	SE SHORE + N. Point	0-1 protected
Boat:	Stratfordville	
Crew/Affiliation:	BSR (USGS)	
	Paul Taylor USGS (I)	

Boat Information		
Receiver Make/Model #	Ashtech Extreme	
Receiver S/N #	ZE1200526034	
Antenna Model #:	THALES CR NO DOME	701945-02 r. E
Antenna S/N #:	CR6200538004	
**Antenna Height:		
Fathometer Make/Model:	ESEA 206	
Power Setting	30	
Gain Setting	70	
TVG Setting	90	
Speed of Sound Setting	1524	
*Bar Check	yes 10/01/10	
Planned Line File Used:	Shore.lnw, SE SHORE.lnw, GILBERTQC.lnw	
Planned Line File Used:	NPOINT.lnw	
Base used for Surveying:	PCDT	
Base Station Information		
Base Location:	Point Cachet, MS on Seawall	
Base Site Name:	PCDT	
Receiver Make/Model #:	ASHTECH EXTREME	
Receiver S/N #:	ZE120013403	
Antenna Make/Model #:	THALES CR NO DOME	701945-02 r. E
Antenna S/N #:	CR6200548003	
Tripod Height:	2.000m CEHT-TALL	
Base Overnight?	NO	

P/G/TUG

30/70/90

Leading @ 20%

Trailing @ 20%



Lines Surveyed	Shoreline Inw	
001-0949	Zig-Zags in the bight	(South Bayou)
001-10	Mistake *	
	... add ons. Inw	
003-1028	Line 3++ coming out of South Bayou	
001-1058	Line 1 → NW to SE	
019-1130	Crossing of SE SHORE LINES to Gilbert	
	Line 6	
006-1153	Gilbert @ Crossings. Inw	Line 6
019-1218	Crossing Remainder of SE SHORE LINES	
005-1249	Gilbert @ Crossing Inw	Line 5
019-1312	Crossing SE Shore Lines	
	NPOINT. Inw	
007-1323	Crossing from line 10 to 14	
014-	Line 14 → NE	
013-1347	Line 13 → SW	
012-1358	Line 12 → NE	
011-1410	11 → SW	
010-1420	10 → NE	
009-1434	9 → SW	
008-1439	8 → NE and over to Gilbert line 4	
	Gilbert @ Crossings. Inw	
004-1449	Gilbert → @ line 4	
007-1533	7 → SE	
006-1541	6 → NW	
005-1552	5 → SE	
004-1600	4 → NW	
20/30/45 003-1612	3 → SE	
002-		
001-		
002-1635	Crossing NPoint Lines west side	
10/30/45 003-1708	Gilbert @ Crossings. Inw	Line 3

Car Island Bethy Survey

Sept

Sept 28, 2010

Sept 28, 2010

Set up base at Pt. Cullet
Sea wall on Bench mark
Stamped "No 2."

Reset

1976 "

Δ PCDT on 5 0824 local
PROP lile w/ 8 SVS
CEHT-TALL ANT HT 2.000m
RF 1.05

THALES CR ANT NO DOME

P/N: 701945-02 R.E

S/N: CR 62005 48003

ASATECH ZXTREME RCV R

S/N: ZF120013403

Set up BOAT - streetville

THALES CR ANT NO DOME

P/N 701945-02 R.E

S/N CR 62005 38004

09/28 Cont

Buff ANT HT - 2.699 m

2705

SVP → 1524, 30 m/s

Ashtah Extreme RCVR

S/N: ZE1200524034

29/30/10 - Antenna mount broke
yesterday, welded at Carralls
Welding. NEW ANT HT!

ANT HT 2.918

-.200

2.718 m

ANT HT!

10/01/10 - Antenna mount broke
again on way in Re-measure
ANT. HT. -

2.914

-.200

2.714