11/5/2012 Monday

Wx: Partly Cloudy Air Temperature 65F

Winds: NNE 15-25 mph; Waves 4-6' @ 6 seconds

Entrance Channel 1/2

Completed 2 CHIRP lines down center as best R/V Cape Fear could steer in strong crosswinds/chop.

Completed 15/21 mag/sidescan @ 20 m spacing as best R/V Cape Fear Could steer in strong crosswinds/chop/darkness.

Mapped from noon to 4:00 a.m.

11/6/2012 Tuesday

Wx: Overcast/Rainy Air Temperature: 50F

Winds NNE 15-25 mph, Waves 4-6' @ 6 seconds

No work completed during day - conditions poor for data collection. Remated sidescan towfish - cable connection, backed up data, organized survey plan for following period.

11/7/2012 Wednesday

Wx: Partly Cloudy 60F

Winds: Winds NNW 15-25 knots; Waves 2-5' (increasing offshore) at 6 seconds

Completed Entrance Channel 1/2 all sidescan/mag work.

Completed Extension Channel 1 EXCEPT Line 8 sidescan/mag work.

Winds and waves decreased throughout the day, before increasing again overnight to 22 knots in the Extension Channel areas. Could not risk sidescan/magnetometer going down again. Suspended survey at 1:30 a.m. and pulled gear.

11/8/2012 Thursday

Wx: Partly Cloudy 63F

Winds: NW 12-20 knots, Waves 2-4' (increasing offshore) @ 6 seconds

Completed CHIRP Entrance Channel centerline through Entrance Channel Areas 1/2.

Completed CHIRP single line through survey grid in Channel Extension Area 1

Completed CHIRP six (6) 100 meter spacing lines in Channel Extension Area 3:

Need to complete three tie lines in Extension Channel Area 3

Completed CHIRP single line through survey grid in Channel Extension Area 2

Poor sea conditions made it difficult for R/V Cape Fear to maintain

steady course on planned lines. Did not completed lower priority tielines.

Moved inshore and out of channel to ODMDS where conditions improved

Completed ODMDS Hardbottom Area #1

Need to complete centerline through Channel Extension Areas 1/2

Need to complete Line 8 in Channel Extension Area 1

Need to complete sidescan/mag/single beam in Channel Extension Area 3

11/9/2012 Friday

Wx: Sunny/Clear 45 - 70F

Winds NW 15-20 knots early; dropped to light and variable by early afternoon and continued

through overnight period..

Waves: 1-3'

Completed ODMDS Hardbottom Area #2

Completed ODMDS Hardbottom Area #3

Note: Although conditions are ideal, sidescan data display is showing intermittent data dropouts across all four channels.

Data drops are causing bottom track and overall backscatter retrun display to degrade as well. Possible problem with cable? Problem is variable and does not readily coincide with any quick heave, ptich, roll motions. Fish has been running for 30 plus hours consecutively. Also, topside unit and or TPU has frozen at least twice during this period and required a reboot of either or both units.

Wait and see - check connection at daybreak. Possibly run sidescan off wire rope through A-frame to release pressure.

Also, remove depressor wing if easily removed.

11/10/2012 Saturday

Wx: Sunny/Clear Temperature 50-70F Winds: Light and variable; waves 1-2'

Completed ODMS Hardbottom Area #3. Sidescan having power/connection issues. Possible data cable or pigtail problem? Continuing

to run with intermittent data drops. Data still coming through, but not bottom tracking well still and overall data quality is poor, but

believe it to still be usable. Pulled CHIRP/Sidescan for transit to Extension Channel #2.

Re-deployed CHIRP. Collected subbottom data in Extension Channel #2. While on deck, restabilized wet connection at sidescan towfish data cable interface to improve data quality.

Pulled CHIRP and re-deployed sidescan and magnetometer in Extension Area #3 to conduct magnetometer/sidescan/single beam data collection. When attempted to powerup sidescan, the TPU amber lights did not go out, indicating an error in the start-up process.

After several hours of troubleshooting, found sidescan cable to have short at approximately 1200 (1700 GMT) causing it to become non operational. Required suspening operations for three hours while a fix was achieved. Sidescan repaired and running again at 6:00 (2300 GMT). Lost several hours of prime survey weather.

11/11/2012 Sunday

Wx: Sunny/Partly Cloudy Temp 50-72F

Winds ENE 7-12 kts; waves 2-3' early then 3-5' late.

Completed Extension Channel #3 magnetometer/sidescan

Note: Could not maintain cell link with virtual base station. All singlebeam data are acquired with DGPS with a standing tide

already applied. This will need to be re-applied with NOAA tide gauge data in post processing. Also, attempted to log raw GPS data to be used in post-processing. Data cards filled quickly and may or may not work. Also attempted to record directly

to PC via serial port.

Completed Extension Channel #2 magnetometer/sidescan. Transited to ODMDS to being Cultural Resources Area #1

11/12/2012 Monday

Wx: Sunny/Partly Cloudy Temp 50-72F

Winds East 10-15 knots early then southeast 7-12 kts; waves 4-5' early then 4-6' late.

1900 Restarted survey after refueling and swapping out captains. Conditions remain poor for surveying 4-6' short period seas with SE winds 7-12 knots.

Completed ODMDS Cultural Resources Area #1. Poor sea conditions made it difficult for R/V

Cape Fear to maintain steady course on planned lines.

2:30 1930 (GMT(Restarted survey after refueling and swapping out captains. Conditions remain poor for surveying 4-6' short period seas with SE winds 7-12 knots.

5:30 (22:30 GMT) Completed ODMDS Cultrual Resources Area #1 Started ODMDS Cultural Resources Area #2

Seas 4-6' with with winds SE 7-12 knots diminishing to light and variable overnight. Swells dropped to 3-4.

11/13/2012 Tuesday Wx: Sunny/Partly Cloudy Temp 50-72F Winds ENE 7-12 kts; waves 2-3' early then 3-5' late.

Completed:
ODMDS Cultural Resources #2
ODMDS Cultural Resources #3

Notes: No CHIRP Tie Lines...weather window closing. Light winds early, then frontal boundary passage. Winds turned NNE 15-25 knots. Not redeploying CHIRP at this time.

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Project Name Charlotton Past 45/Cape Fear

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Project Name Charlston Post 45/ Casa From

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Project Name CAMRLESTON POST 41/RV CAPP REMEQUIPMENT SIDESCAN

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CMG		ý			The second secon	AND THE PROPERTY OF THE PROPER		A CONTRACTOR OF THE PROPERTY O		OF THE PROPERTY OF THE PROPERT										TO THE REAL PROPERTY OF THE PR					
Time (GMT)			1205		1708	de la companya de la		1237		2.1	7	340		305		25					5 2	2046	7	A STATE OF THE PARTY OF THE PAR	Annual Communication of the Co
Date	3.2.2										A	ppend	dix 3	Q	CU P	ost 45	5								

Date	Time (GMT)	CMG	S0G	Depth	Comments
6-6-					VOD JO
		en de la contra			Stas Still 4++
	2/59		8.8	2	SOL hyplick #44 DDMDS CR#2
	2222		5,7	2	SOL hypick H37 COMPS CRARZ
	2250		5,2	#	SOL Myrch H43 ODADS CRAZ
*	2317		8.8	13	502 hypsily #30 ODMDS CR#2
Appendia	2356		5.7	13	SOL hypery 442 ODMUS CRAZ
	9100		2/5	1	SOL Hyprik #32 ODMDS CR#2
Post 45	CHOO		7-025	7	YPACK # 4
	0/0/		2.6	2	SOLYPAKE # 33 ODMOS CR#2
	0 37			7	SOL HYPACK #40 ODMBS CR #2
4	1,000		00%	7	SOL HIPACK #51 ODMOS CRED
	2500		99	50	SOL HYPACK #39 ODMDS CR #3 REDO HYPACK #39 DDMDG GR #2
	0367		و	77	50L Hypoch # 28

Project Name Charlots Post 45

Equipment SVC05Cc

Sheet # 1/2

Y ひとせ でをプラン t (R 1/2) のなぜみ # め イとし 80 とまどり ナイタンタナ の中で が出る SKAD 3R #2 7 28, CENT ODMOS ON DO 0020 のでをじら REMODER O T V V D DANOS Comments 00 MO S くら ONMUS O DMDS ODMO 口の存む ~ 24 大学 本いり LHANGE th, カング はいる 50 世 t TYPROXT IS S X 7 MVDCL 1200Ch 1000 してもろく上 アンめんて Typeck メックのアン OFFIL NE RATION FURTHER (705 205 S 7 705 500 207 705 505 285 7 R Depth N V N 7 3 0 **SOG** 0 2 0 CMG Time (GMT) 8020 2200 053 2700 070 0.50 2 0770 900 0000 0417 なる 11-13-12 Date 称 Appendix 3 -- CCU Post 45

Date	Time (GMT)	CMG	806	Depth	Comments
11-13-2012					
	5443		~	A	SOL HIPACLE #17 OUDMINS OF PLCTED
				7	GOL HOACE #21 DOMINS RC#2
овинования на ответства на применения на пределения на пределения на пределения на пределения на пределения на	0 NO		6,8	<u>~</u>	SOL HYPACK HO ODMIDS RUFTED
	10%		15	>	SOL HYPack # 16 ODMOS CR # 2
	1/36		9	2	SOL Hypack # 8 CDMDS CR # 2
Appendix	1205		5.5	53	SOL Hyperl # 15 ODMINE CR HZ
3 C¢U	28.22		8.8	2	Sol Hypeh A 6
Post 45	1302		7 803	7	SOL Hyperit #14 ODMSS CR #2
	1328		94	2	SOL hypuch 45 ODMPS CRAZ
	1359		- C	C	50L hypuch # 13 ODADS CR#2
	1427			9	SOL hyperth HY CDMPS CR # 2
	1457		6.7	#1	SOI Hyperch # 12 ODMOS CR #2
	725		<i>3</i>	2	SOL Lypach A3 ODMDS CR#2
	1565		2,5	~	SOL HyperLY HIL OF MDS CRAZ

Project Name Churchsten Post 45/8/1 Cape From

Equipment Sidescan

ゲングなんの 丼シ Ŧ. a N M D J # I 4 で年ろ 女 # مۇيون ئىدىك H 7 2 2 シログログ ONMIDS OUNTO 生く言うら SOMOS Come to the ODENO ODMOD ODMOS Comments COMOS # のうとのと ののとかが O DIMILS 1000010 14 JCR # 2 017 N # HYPACAL # 0 T # T # 5 こととう HYPRICK アンアイハイ アックマ HTPACK アンクログプ といった 200 アンチカス アンアング CAMOS Z 30/2 Sec 200 705 ر چ 705 70% 000 505 <u>5</u>) Q Depth t 7 3 in the same **SOG** 1 CMG Time (GMT) 277 ケテト 400 [0/3 7 9/20) るなの 5 00 V 100 2 و 3 00 Date Appendix 3 -- CCU Post 45

Sheet # [3

Project Name CHARLESTON Post 45

Equipment 510E5 CAN

Comments	SOL HYPACK #4 ODMOS#3	40L HYRACK IT IT OBMING #73		50C # 18pk # 5 00 MDS # 3	SOL HYPACK # 12 ODMOS # 3	SOL HIPACK # 6 ODMUS # 3	SOL HYPACK # 13 ODMBS#3	50L HYPALL #7 00 MOS #7									
Depth		2	, ,	<u> </u>		6)	61										
S0G	Laurai	1	4 /	6.9	69	6.	6.5	6,7									
CMG									THE PROPERTY AND PROPERTY OF THE PROPERTY OF T				манительного проставляють поставляють поставляють поставляють поставляють поставляють поставляють поставляють п			A CONTRACTOR OF THE PROPERTY O	
Time (GMT)	1917	1926	1,0		7	8781	1950	2003									naconi naconi
Date	(12/2)			ANTERIOR DANCE DE L'ANTERIOR D			Ap	pendix 3 -	CCU	Post	45			And the state of t	menopolita di talanda (A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	And of the first of the second control of th	- Januari III

Project Name Charlester Port of CAPE FEAR Equipment CHIRP

11 UJECK INDER Charleston Post 45

Equipment CHIR?

# 19910	Comments	7X		Labrack is the collection of the collection		Start line				16136 conteine ship to port works /chuined up	71.04		moving back into chance centerline	1.6	DOD O CXECTION ONOTAL TIL AGA		SOL Extension Changel Area # 3		The Extension Chance AREATS HYDROKH O		701 * XX0514 (Newnel #3 hy Dach #13		The extension channel #3, hypach #18		Fill Extensive theme #3, hyperch #25	201 E. L.
	Depth	17m				1700								17	£	17	1	1-7	447	17.		2 3		17.		17m
703	30	1/5E				SKN45								Skak		479		Stite		5Knt		512.H		57.7	2/44/	の大い大
CMG																										
Time (GMT)	V 1 7 1				- 1	15 59	•	16.13	16:22			16:30		70,01	9 - 8 -	18:17	18-55	18:55	19:24	19:29	30:00	20:04	0,29	20.43	41.14	81:18
Date	11/8/2012					Ÿ				Арре	endx	3 - (ccy	Post	45						735	4	8	6	7	8

Project Name Charlister Post 45/75 Copy Fres Equipment Chirl

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Comments	SOL Extensia Channitt 2: though # 3	Dusy to stabber d - stein ground	Bung to staboad - Stepy around		SOL Fakusia Chand & Entraco Change	Bridge Hyproll UN # 3												
Depth	15 ~				7													
506	ンソグン		V		~													
CMG																		
Time (GMT)	21:55	21:22	22:24		22:53													
Date	707/8/=						A	ppen	dix 3	C(U P¢	ost 45						

Project Name CHARLESTON POST 45/CAPE FEAR Equipment CHIRP

Sheet #

oth Comments	SOL; Mypack # 28 COMDS Arec # 1	TARCO BONDA	RUMMING CHIRP/ SIDESCAN SIMULTANEOUS	502, Hypack #37 ODMDS Area # 1	1 1		SOL Hypach #27 OBMOS AREA #2	Harbotton	SOLJ HYPACK # 26 ODMB AREA # 2	SOL; HYPACK#AS ODMBY AREA #I	50L, Hypach A M 25 OUMBS #1		SOL, hyperty # 22 ODMOS#1	SOL, Livach 217 ODNOS 41	 17 SOMOO ICH MOOKY TOS		1 1 1 2 2 1 1 2 0 1 W	SOLLYNONG HAN ODENX HI	1 1	
SOG Depth																				
Time (GMT) CMG	51:82			8×5			7010		7070	0200	0.70	4	280	9030	2000	· // Δ(0	6000	6060		
Date 1	11-8-2012			· ·		1810c-16-11		Aŗ		3 - CC										

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Date	Time (GMT)	CMG	206	Depth	Comments
11-9-2012	100			. É	COI HOOSIN LINE # 14 COMOS Area # 1 Head holder
				1	
	11.55			3 7	SOL Work Line #16.0 DMDS Are HI
	707				Sideral disolit for in dat consist
					to The Lad Toosids wints
	2021				Lack runger
	してい			<u>ج</u> ج	Sol Hoch Lin # 13 comos Are # 1 (Hodren)
Д	1 8819				SUL, hypert line #7 ODMOS #1
.pper	1308				
dix 3	-57-10				501, horach 100 #3, 000 ho BS #1
C(1325				
CU P	1410			5	SOL, TIBELL IN AG JONDS A)
ost 45	1541				
	W 4510				SOL INVESCH # 1. ODINDS #!
	1359				
	Q2+75-				SOL , Lynach #S , ODMDS NR #1
	81/18				
	ナメギウ			212	SOL, INVERTY HILL OFFICE MR #1
	1 1 1 1				
	0311			£	SOL Hoper A 15, ODMUS 413 #1
				4	
	かもか				SOL, LLy south Alt ODMOS MR#1
	1609				
Commence of the Commence of th					SOL, hyperk #6 ODMDS MR#1
	1620				

Comments	SOL TIMES THE OUNTS THAT		SOL HUSSICK #8 CONDS HR #1	July 1000 months of the control of t	SOL hireary # 4 DIDMOS MR#1		50L hubach # 10 ODMBS HB #1		50L HYPACK # 3 ODMOS 1+8 # 3	SOL HYPACK#Y ODMDS HR FR		SOL HIPALTE ODMOS HB FL		SOL HYDRUK H3 ODMDS HAKDBOTTOM # 2		SOL Hypack # \$5 ODMOS HR #2		SOL HYPERY # 1 ODMDS HB # 2		SOL Myork # 8 ODMOS HB #2	SOL Hyperch #11 ODMUS HB #2	50L HYPACK # 12 ODMDS HB # 2	LEANED SENGOLS W/ DAWN	SOLHIPACK IT ODMUS HB F 2
Depth																								
506																								
CMG																								
Time (GMT)	6473	× × > -	14:40	1641	£5 \$ 0	(653	market Bargeria	1704	08/1	1759	-	070		N E		1007			Measure	2123	一つだけ	17900	325¢	2310
Date	400 P-1		P		den e					A	ppend	S xib	C¢	:U Po	st 45									

CHIRDDATA Very Noisy - trouble tracking bothon

Equipment CM1RP

Comments	Strance Water colonn chard- now tracky bottom		50L 1178ACK #14 00MD5#3 HB	702	SOL HYPERSK # 3 HIS	gen and the state of the state	SOL Hypich # 15 ODMOS #3 HB		H	PROPERTY IN THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE PR	SOL HYPORT # 10 ODMON # 3 HB		SUL Hyperly # 20 ODMDS #3 HB		502 HYPACK #17 ODMUS #3 #3	l	506 hypach # 22 ODM DS # 3 413	SOL hyporty #18 ODMDS #3 HB	50L hypack #23 00mms #3 MB	SOL hypeck #21 ODMDS #3 4B	SOL hypech Hay ODMPS # 3 MB	
Depth	13-15 m				2-5		2	70-7			e solicitation		11)}		0	3	2	2	2	
506	5.5				ろ、ろ		9		೨		٥		9		9		9	V	8	V	S	
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Date	1-10-12		9							Ap	pend	ix 3 ·	CC	U Po	st 45							

Project Name Charlisten Post 45/RV Cape Fa

Equipment CMパスタ

	Comments	SOL Entroy Orange Parties		C Chenist McKers 10/9 Cons		SO VIE DE		TON LAS CHIED SOME / CON CHIED																	
Denth		3 N																							
806																									
CMG																									
Time (GMT)	* ***	0000																							
Date			The state of the s				- Worker Scoopers					Арр	endix	3	cc	UP	ost 4	l5							

Projects (continued).	12/19/12 Post45 video tow
	time hypork line video line
	20 ZA
	14:51 outerp/ heidboth
	14:52 Sand
	14:53 hardb. Ho~
	1111 director 15 onshore (350°)
12/19/2012 Wednesday Past 45	703 (3) 41
ω _× . 65°	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Wind NW 5-15 KHS	15:10:58 IA SOL 2
Waves 1-3'	IS:II SANDIRIPLIES
	15:15 Outerps/Shall Hash
	15:116 Sporges Istherps Wild
	15:18 large cipols of shill had

Comment

pack Line #

HY							X 10 40 1	
Time Comments * 18 57 08 200 raw Soll New Disc #3 The Band I uppled Some still host	1900 & independ shill hast	1903 factored saids w/ shill hast 1907 factored saids w/shill hast	19,21,00 22a. saw SOL	large cipples of shall hash	19:24 lay ripply w/ SHII host	19:31 Fine I med cippled sands	19:32 fine/med sands / leage repoles	

HI STANKY	med cipples/shell hesh	low relief / consolidated?	low relief / bried hordgard	med 1. sples/comse shall	Small cipples/shell hash	lew rollet	16~ vollet	had botten first	med ripples 15holl	Jon Yeller / 14196			
1 - (20: hc; 91	16:23:37	16:30:15	16:32:30	16:36:35	16:34:26	50.0h.21	oliehill	11,5/.38	16:52:45			
	Hypack Line A contrard	fire wingston upped sands	1455 5 to 1 h 1 5 5	same as about	Line 28a, 19w 50L	Smallerpolls/pubsiple Consolners	Small ripples / 11 11 11	med ripples / shell hash	small ripplies	small epples	274	small ripples/shell hash	small lipples/shell hash
ý	1-36	18:26		18.31	15:37:12	15.40,00	ac: 5h.51	15:42:09	94:15:51	hr: 95:51	16:14:34	01:91:91	11.17.9

Fine 15:04:37 The reliet Tronsolutated 15:06:00 med ripples I course shell	*15:13:25 Wew Disc #3 Smull riggles 15:13:51 Sond over consolidated material	15:16:28 Periodic whit sigular stells	15:17 ripoud fine sends	15:21:30 lage amplitude 1.00 ks	15122:00 Short amplifula 11.13 students (10045) 15.23:20 [age ripple]/shill hart (800150)
	small symetric ripples med ripples (shell hash med hipples I worm masings	shell hosh med ripplis/shell hosh (conca)	med ripples / corse shell hush	med wolf 10 mes shall hash	horm (45) mgs buted hard bottom?
1m/c 14:18:33	14:101.19 14:26:40	14:35:36	14:46:13	14:56:56	15:00:33

13:41 Buoy	13:41 Booy #3 to part	Time Hyperch Live H Connects 14:03:45 increased shall hash higher amplitude cipous
13.41.45	modium scods / stull hast	difficult maintany speed in channel
(y) Eh: C1	fix 56.15	1, L., J.
) k.c.	TO L	
Time	Hyperk Cin # Commeted	1
13:55:51	33a SOL	14:09 fac/acd scads L/ SKII host
		14.11 & Symmetricel ripples
13.50	med scads / shull hash Symmetric or polis	
13:59	shell hast/worm casings	
14.01.10	singular stilk	
60:41	low amplible copples	

Time Hypack but Commetr 15.28 349.64 Sol	spros produis Jim/ ont 62.81	13:37 penodic sizu white stalks	13:35 411.	13.76 fine/med appled scals	13:36:30 SHII host/ leigu rippus	13:37 shell hash /worm casts / casing s	1338 fine (med sond ~/ worm costs/	1339 Frippled scade Shell hash
1-6-2013 1-6-2012 Sunday Bacharleston Post 45	Wx SSF Partly Chuly	Winds N 5-10 Kts Waves 1-3'	V1515111 to (601/2m)		Time Hypack Line Commany 13.18 * 179 SOL	13:18 pately hardboldon	13,20 Pathy hardbutton	13:20.50 medium ledge

Line 14 a cont.	cooise material fouterup (100) of herdbalten	C	502 11 A Small ripyles	med rippless 15hell hash	low relief	SOL 10A	small ripples	mad cipples/sholl	law rollet	TON TENEF
	16:35	16.36.30	16.45:30	0h:6h:91	16.52:53	17:03:23	50:40:21	17:06:33	17,68,68	17,11,145

•	Time Hypack Line Commet F	16:23:17 149. Fam 50L	16:25 COGER Makriel - Still hast	16.26 lov relies house hand	16:27 postly coasse material	16:28 fra /moder rippled soids	16:28:10 CORIE PORL	16:29 find med ripped scals	16:30 Fippled Sands	10:32 coosse /sHII hash ripped sends	16:33:50 pathly court meteral	
	Hypeck Line Comments	1 13 a. rac 502 13a	Ane send fripples	coasser material/ vorm casings	worm casigs / course material / shull low relief botton hase	worm casings forhell hash course	belke sorted fine/med sand	している。				
	Line	16.03:04	16.03	10:01	16.06	80.01	67.0	16:15:03	ì			

11.pc/4 1.cc 50L 31A 5mx 11 ripples	putchy low reliet SOL 12A	Coarse Sond / Stell Hast	Worm casize / 5hill hast possible low relies hadsothe	coorse still has length	Shill host	shell hast / worm casings	Worm (4) 13 / court meterial
1.mt 14.50:41	15.44.50	15:52		75:51	75:57	35:56	15:57
199-32 c cont ray 15kote offline 60 m	ledy/boston blickfil	Fire .	Smill both outcup	fine sand/shell hest	Sympotice offers /Shill has l	sand still hail	Fire soud/shell hest
14:15	55:51:41	C Apper	∞ 5 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ost 45	h 2 : h 1	96.41	14:28

1-4-2012 Sedimat Grass

02-1925

Saturday Charlester Past 45 Video Tows	55-60° F -15 Kts Warrs 3'	hyporth line	Hard bottom	Hord B. Hu Mod rdief	ledge Imed	sabupels	Small ripples	Small releif	med relief	SOL 19A.329	0,41 L. 11. H.
1-5-2012	Wids NE 110	13:27:00	C	13:30:40	13.34:07	13:40:20	13:53:40	13:53:20	81:45:51	14.13	5 /1-113

Inches Appell his	polits	4 20, < P. 10 And 12.	10, 16 43	10.50 cg/165 13.60.15	11/10011	16/16P	752			to the second	
Sol 30	Small ripple	purily live	podeky low	shell hash	N6 705	potchy low so	Shell hest	putely law rel	SOL 7A	solchy for	shell book
17.26.50	17:30:36	17:32:4	17:34:45	17:40:26	17.45.40	17:47:15	17.51.00	11:65:21	21,51.5	01:81.0	01:77:10

1-4-2012 Foldes	de checkshon Hackele	7.86	Hypork Line
	Post 45 Video Tow	6.5	236.cal fine sand/shill hosh
12.13 12.13	Wx: Sunny CO°F Wirls N 7-12 Kts	ره. ۲۱	asymmetrial cipples
Vave	Waves 2-3' Vishlity: Poor	40. L1	short would the
	Hypock Line Vides Line	81:60.71	239.00
17:1.0.91	mostly har sond	17.13	symitte riphus
	travelity page to marginal		shall hash of ripple!
16.41.42	236 900 2	Sh: 11. L1	lacz cipoli
16.50	Sandbotton rippus	≫	Potel 100 relief
16.51	shell hash in troughs of fine soid reports	11:81:11	mad pathly low relied hord both
		07:11	Small riophes

fine sand mother trus

fine son L Shell the hash fingments

02-1934

J.me	hypuk line Video lines	Girb Sample S
17:13:18	Sand	24-1803 shyth offling fine sond/ord
17:21:25	Sand lripples	747-1813 COSCSE/Chell HAST
17:23:52	EOL	
	184.	26-1821 coarse / 54411 has
17,36;23	JAK JAK	20-2-1826 minimal makeral hest /5-4115
17:29:40	sand lshell hesh	De 1878 shill hash thre sand
17,35:18	Sand	
17:44:23	Sand fripples	05, 2 - 1800, Shill hast / Fire said
40:15:21	703	
		04-1849 for scid/smill ant
		04-2-1855 for scad/5ho11 hos
· P		63-1906 for said / shirt fugs

			7
Line 1A	Line 1A continued	Hy H	Hypaik Line Viteo Cin
15:21	mother bottom (cook makerel	16.20 41	4A 4
15:32	15:32 FOL	16:22 Sand	d lorpplus
1 2	Hart Line	16:23:23	skefist
		16:27 56.	Sand / small ripples
S S Appendix	٠ - - -	16:28 5010	Sond / shall head setween ripples
515:56	Sand rippus/shill hack	7 67:45:01	
15 51	coarse makerel overlying		
>+ 4E	Sand I thin vonce of	50:04:91	5a 5
		16:43:03	Sand Toooles
15.50	Sand I ripoles	hz: Ch.9!	Sand Legales
70,21	offline		
		45:45:91	F04
16,03.38		17:07:12	264 6
and some		17.08.11	small spandes

Z

⋖

speed = 5 kts (wlearned)
2 s. ets (against correct)

Mey Interity ~ 48850 nt /
Syral ~ 1300 to 1500

Fish Dight ~ 2.7 m

Tish Allind ~ m to 7m (veril)

Completed Words 2.

Notes Park of Chourston docks.

Wolce shollowed to kess their son advised to has their short of the host of the holds.

Sim advised to have for found.

More Line ADUR

Hypack Line # 045 Start 1937

Start Woods River & Acre

3700 FDT (1930 GMT) 10/2/2012

Mypack Line # 050 Mg Line # 11/12 Start 20:10

Anomaly Germany # 8 10:21

Bechanic Marker 26.12

44 Starboard

Hyperck Line # C37 start 20 24 May Line #13 #1 44 Starband 20.24 Anomaly? Grames #9 20.26 Side Sean Hirery 20.35 Continue Hyperck # 037 26:42

Anomaly # 11 20:50
Anomaly # 12 20:50

Mypock Live # 40 stert 21.03 Anomaly # 15 Fest 21.06 Tog Som poort 21.30 Hypark line # 043

Mag Line # 16

5 Chancel Marker But 21:17

5 Chancel Marker But 21:17

Hyprock line HOHG. May Line HIT start 21:23

Hypack Line # 18 Start 21:32
Anomary # 14
Anomary # 15

8:00 A.M EDT (1200 GMT) 10/4/2012 Thursday
Continue Woods River I Arra mount Pleasent, 10

Hypack Line # May Line # Time 033

Describer from previous day
set the same excluding layback

Layback = 6 m

Wx. Clear/got Minds N S.10 = pl Waves o'l (Hashar) Spect = 2.5 = 5 kts

Anomaly (Part) Geomes #1 12:12 GMT

Large Shipping Freyble 12:39 GMT 75 m on Payl Side Gromay # L

00:77

WALL CONKE

40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	14:26	755. HI	0	140	82:51	15:33	15:51
Appark Lin # May Lin # 036 Crasport and inc strong correct parting thant	0	ë.	J -	V)	e •		~ ~ ~	Friemaly # 10
Hyperk Lin # m 036 craspott contin strong correct dromdy #5	0 8 8	© 7 0	0 21	6.0	Anomoly # 6	Anomaly H)	Anomely # 8	010 Anema
47200k Lise # 11197 Cine # Time 0 27 0 28 0 28 0 09 0 13:111 0 22 0 00 0 13:111 0 00 0 13:110 0 13:10	~ '	Cospets online 515130	Wedge Are I are a second and a second a second and a second a second and a second a second and a second and a second and a	80:51	Souls Terminal 200 m starboard 13:41	C75.47	not Marker # 8 to part 1.	Anomaly # 4 to Stockerd 14,02

13 Live # Time 024 sluberd (7:03	(7.67	0.171	22.11	Computed Works Dare 1 2) exapture of shullow mices 2) The edge of the goods mensioned		
Hypack Line # Mrg. Line # 010 Anovaly # 21 on stubood	609 Anomaly # 12	Anomaly # 23 Cos	Aromaly 11 24	Computed Work ~ 1 exapter		
15.56 15.58	16:03	32 91	0 7	16:47	Shellers C S m depth	16:34
Aronaly of 12 to starboard	610	Anomaly H 14 Money Piblos	13 021 Anomaly # 16	Acomaly # 17 022		Acomot * land
Accord A	0 0 -	Aremet	13 Prom.	Anomal Anomal		work

(LWO 68:31) Wa	18 47 1 18 AZ	19.57	the state of the s	19:52 19:52 maj intrasty
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#1 500 (19038)	3.45 p.m (19.45 cmr)	Time 19:53	70:02		26.11	Sta Sta	20.55	20:12	21:65		
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	S × m			Commonly By Inc #	Defeating (A	ppendix 3	QCU Post	SE # (1=worth	5 300,00		

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Hypock Line # Time cog , cog , 19.37	Lower Charlister Acides # S Compute	Start Entrance Channel and line 1013 010	5-0	50:12 b 10 300	10/11/2012 Thursday Wx: 50-78°F Cur Winds: 10-15 Kt. N/NE Winds: 10-3 (6 he.h.)		Notes: filling in shallow water errors today; incoming they stand with all will all all all all all all all all all	Sower name: Chelich, 16,11-12	
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Comments Hyperck Lin May Line Times 5 trut live Go3 303 19:15	81:18 socrally # 51	1930 End sowy " increased with (Sw 10-15) and wave (S) in horse antrone	Winds Suncy 1 of Entrance Cherry Winds NNE 15-20 Sushy to 25 Winds NNE 15-20 Sushy to 25 Winds Subsidia Stighty - alternate Winds subsidial stighty - alternate Winds Layback (coll out) - 4.5 m	Gobille and
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Appendix 3 -- CCU Post 45

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		1 to	Structure opening on # 3	7					50			

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11 120 LINE M. Company 1-10-2013 Charles ONER of

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Majaronetz Hol. days

Weather Suny 66-70° F Wind's 5/5W 10-15 Seas 2-3'

Chart A William 16 th the de Contraction de Contrac

2 3 1 Creaming Marks to part

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channel nout to prot cherry (B)

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May ##	<u>د</u> ه		70		3			<i>c</i> . ε		
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N° KS	Particle Cherry #2	Som off out	Slowing boat to	6.41 fly 3	bad line lynere	6.50	ressel to port (100 m)	small increase in signal	19:56 5 well/chop	60 m W 12
W	& .					7	Ť	ζ, ζ	<i>-</i>	C \(\frac{1}{2}\)
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40 tians buch

GPS 50" to starbeard

from MEU

GPS 132" formant of Macu

ARU 96" to water line

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	+17mc	13.25	1239	3041	1434	<i>h</i> (χ, ο
S_{1}	V line) .	7	1504	1535
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Post 45	Notes	B. y 14/2	Entrant Channel of	late Channel I	Entha	· · · · · · · · · · · · · · · · · · ·	F 7
ند درجه دارج را دا ه اد دارجه	Commission of the	/A9	7	·~	· · · · · · · · · · · · · · · · · · ·	·	ووفار والمنافق المنطق والمعاولة والمنافقة والمنافقة والمنافقة والمنافقة والمنافقة والمنافقة والمنافقة والمنافقة

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12 m	1719	1/4/18		4	1820	98	1000
Vine 629 STATUS Hypach - STAND Have 7	- 5 tAND 460NE 1	-STAND ALONE & Channel Extension #1	- 57,00 ALOVE Extension # 1	11-10-2012 STALD ALONE 25	Externion #3 STAND HONE 20	Extension #3 STAM ALONE 24	ENEMENT #3 EXTENSION #3 EXTENSION #3

ر م م	1153	1834	D 411	17/2	1346	1420						
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11-11-2012 Suday Control	Standalo 2	Stendalen	Rico day 6PS Raw Starting 1000		Stord aline	stad close						
11-11	708	Se.L	Rico.	105	100	705	705					
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11-11-2012	Notes	705	705	201	SOL OFF line for	154CIC ON 150C	iol	705	5.1	300	jol 5	15 705
-	4.15					Appendix 3	CCU P				<u>, , , , , , , , , , , , , , , , , , , </u>	V j

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hypich #3	0	\prec	V)	£	
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Charlester Hoster Sugher Reem
Wares 1-2' o' haster
e Jether

Bak Station: Sc Goodhe Virtall QC @ Remyles Pant PID# DM3305

Northing: 3631195.91 m Eashing: 602317.97 m Elevation Litter

S/w Lbh1 =175

Commets Sel/FIXED Fol	Sal/Fixed	SOL/ Fixed	ガロア	nder / inyers	SOL/Fired	Soul FixED
Hypeck Line	S	Lower Hashor		switching to wander Impers	o c	≫
16.76 16.46 16.46	1651	1727	1138	7	1743	150
Lewer Harber Area Lime Hyperk Line GPS 15:10 Stort 10 Fired 5.15	10 Fixed Easure Line. Evol.	switching to sumple Virtail	Entrance chamel Polygon	Sol/Axed FUL	or sou/fixed	561/Fix,1
Lower L 1.8.10	15.21	15.35		1500	109	1629

Commety	Eol/	SOL/PIX	6.7 to 6.00.4	7774	John bidy last fix	early but / RTK fox	Sor/ fixed	Fol	S&L/F1>FD	501/F14FD
Hyzerk Live	J	5 54 5. S. T. S.	Loss of Tray of Cisan		Sold but	× 2017	3		7	
1.15	h781	578	Þ2:81	25.62.81	18:33	76.81	18 35	18:36	18.37	- h & 1
6 must	SOL / FIXED	501/AXED	FOL /FIXED	SOL/ MXED	Under body	exite books	ا م	メレーJos	Lost fix ask	Fixed
Hypeil Lit	_	9	Ş					Υ.	v	
Time	17.53	11,58	70.81	(\$ D)	Appendix 3	or O		1836.35	a (0 7 . 8 .

Hyperk wet Comments			COC LINES	DREDGE ONLINE - MOSELING	(3 Sol/1/202)	switched here to the children's Band	Myers Band Polyson	words increased seas ilchop
J'mc	7003	200¢	6007	2011	3015		2807	
(feather)	to Cooper River box station	SOL/ Fixed FOL	501/FIXED	SOL/FIVED SOL/FIXED	OBXH/105	502/AXED 502(AXED	SOL (PIXTO)	order broke
Hyperk Line	switch to loop	-	7	~ ~	7	L 2	\$ 0-	
Time		19:03	97.5: h1.61	1938	4461	1946	7561	0007

Comments	SOL/FARED	Sic/ 15 x50	SOL/RXED		1 X 1 / 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×): (F1 XF- O	200 (FC XED) 705	ſ	~		
Hyport Line #	()	<i>ħ1</i>	٠. ٠.			9	٧ / ١	155			
1:30	21:38	21:43	7-1-4		8217	6.5.2	20:77	222 End			
typack Line # Comments	SO L/ 41XED	SOL/FINED	Soc/F1×E2)	SOL /FIXFD	560075		SOL (FIXFD	50L (FIXED) 50L (FIXED)	500/FIYED 500/FIXED	SOL FINFD	50L/FIXFD SOL/FIXED
Hypack L.	1	8	5	7-	rad 20 mm	1	th:	<i>س 'د</i> ه	-2 C	>	60
1.96	20:37	17:02	2002	20.50		2058	00:12	21.07	71.12	21.25	17:17

Post 45 survey Areas

Old Block name

Entrance Channel 2
Channel Extension 1
Channel Extension 2
Channel Extension 3
Entrance Channel 1
Lower Harbor 5
Lower harbor 4
Lower Harbor 1

Wando River 1
Wando River 2
Myers Bend 2
Myers Bend 1
Cooper River 3
Cooper River 2

Lower Harbor 2

Cooper River

Cooper River 1

ODMDS Hardbottom ODMDS Hardbottom 2 ODMDS Hardbottom 3 ODMDS Survey 1 ODMDS Survey 2

New Block Name

Entrance Channel 1
Entrance Channel 1
Entrance Channel 1
Entrance Channel 1
Entrance Channel 2
Lower Harbor 1
Lower Harbor 2
Lower Harbor 4
Lower Harbor 5
Wando River 1
Wando River 2
Myers Bend 1
Myers Bend 2
Cooper River 1
Cooper River 2

ODMDS Hardbottom
ODMDS Hardbottom 2
ODMDS Hardbottom 3
ODMDS Survey 1
ODMDS Survey 2

Cooper River 3

Cooper River 3