105011

R RTA 98046

USGS
science for a changing world

COASTAL AND MARINE GEOLOGY PROGRAM
WOODS HOLE FIELD CENTER (WHFC)

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98046nav

NAVIGATION LOG

SHIP AND CRUISE: RITA 98046

AREA: Wrightsville Bch & Topsail Is. NC

DATES: 31 Aug 98 to 02 Sep 98

CHIEF SCIENTIST: THIELER

antenna to transom
dist = 5m

Layback from transom

YrMoDy	JulDy	Time+Zone	Line#	~~Latitude N~~	Longitude W	Course	~~Speed~~ Layback from transom	Disk#	Comments
	~~243~~		Line	FSIS File					WP# start to end
30 ~~31~~ Aug 98	242	111622	L1f1	L1f1			4 m	1	20 to 19
		121100	EOL1	L1f1					
low tide ~0900		121130	L2f1	L2f1					1 to 2 transit inshore to line
high tide ~1500		1218	EOL2						
		1218	SOL3	L3f1					10 to 9
		1307	3	FSIS Crash - reboot					
		1308	3	L3f2					
		1310	EOL3				3		Shorten layback
		1310		L3f3					transit inshore to line
		1318	SOL4	L4f1	start just N	Pier Occurs	2-3		1 to 2
		1342	4	FSIS crash					
		1345	4	L4f2					
		1405	EOL4						
		1410	SOL 5	L5f1					3 to 4
		1457	EOL5	L5f2	Δ swath to 200m				
		1506	SOL6	L6f1					5 to 6 ← begin tweaking attenuations on 595 box

YrMoDy	JulDy	Time+Zone	Line#	~~Latitude~~ N (Isis file)	Longitude W	Course	~~Speed~~ layback	Disk#	Comments (WP# to WP#)
31 Aug 98	242	152335	6	L6f2			2-3	1	5 to 6 restart Line 6 following 595 tweak.
		1609	EOL6	L6f2					
		1611	SOL7	L7f1			~3		7 to 8
		170350	EOL7						
		170525	SOL8	L8f1			~3		9 to 10 (a rerun of L3) no what gear is optimal
		~1745	8						t-storms in area — DGPS offline
		175600	EOL8	L8f1					
		1822	L9	L9f1	No DGPS		~3		~~11 to 12~~ transit Fig 8 to N end WRISCH
		183727	9	L9f2					11 to 12
		1848	9	L9f2			5		Δ layback
		1930	EOL9	L9f2			5		no DGPS this Line
		1933	SOL10	L10f1	Yes DGPS @ SOL		5	13 to 14	DGPS ~~[illegible]~~ back online precisely @ SOL10
		~2025	EOL10						
		2031	SOL11	L11f1	shorter layback @ SOL		2-3		2 to 1 rerun L4 (beach)
		2122	EOL11		End Day #1			1	
31 Aug ~~01 Sep 98~~	~~244~~ 243	103400	SOL12	L12f1	200m swath		3	2	16 to 15
		1052	12	L12f1			6		Δ layback
		1123	12				8		Δ layback

YrMoDy	JulDy	Time+Zone	Line#	~~Latitude N~~ Fsvs file	Longitude W	Course	~~Speed~~ layback	Disk#	Comments WP# to WP#
31Aug ~~01 Sep~~ 98	243	113300	EOL12	L12f1			8	2	
		113430	SOL13	L13f1			8		18 to 17
		122900	EOL13						
		123130	SOL14	L14f1			8		20 to 19
		132930	EOL14						
		133100	SOL15	L15f1			10		22 to 21
		142730	EOL15						
		1430	SOL16	L16f1			10		transit to SOL17
		~1449	16	L16f2	Δ swath to	400m	15		Δ layback.
		1457	EOL16						
		1458	SOL17	L17f1			15		77 to 78
		1459	17		Δ swath to	300m	15		
		150110	17		Δ swath to	200m	15		
		1510	17				35		Δ layback over the prev. 3-4 minutes
		~1555	17						strange GPS position shifts
		~1558	17						looks OK now.
		1601	EOL17				35		
		1602	SOL18	L18f1			35		SOL has part transit to N-S part

	YrMoDy	JulDy	Time+Zone	Line#	~~Latitude N~~ (Isis file)	Longitude W	Course	~~Speed~~ (layback)	Disk#	Comments (WP# to WP#)
3/Aug ~~01Sep~~	98	243	170435	EOL48				35	2	
			170500	SOL19	L19f1			35		85 to 86
			1741	19						GPS squirrelly ~1 minute
			180955	EOL19						
			181000	SOL20	L20f1			35		90 to 89
			191430	EOL20						
			191450	SOL21	L21f1			35		92 to 91
			201715	EOL21	L21f2	(see Isis log for folder & gain switch times)				
			201730	SOL22	L22f1			35		99 to 100
			2023	22		nav crash			2	nav crash
			2025	22		new disk			3	new disk
01			2119	22	L22f1	EOL22			3	EOL = storm (folder DATA1.243)
no nav floppy	01Sep98	244	104120	23	L23f1	SOL23		-6	3	36 to 35 start Box Done
			104345	23	L23f1	^		15		Δ layback
			104910	23	DUH --	turn on nav	floppy	15	3	
			105430	EOL23						
			105600	SOL24	L24f1			15		38 to 37
			111040	EOL24						

YrMoDy	JulDy	Time+Zone	Line#	Latitude N	Longitude W	Course	Speed	Disk#	Comments
01 Sep 98	244	111225	SOL25	L25 fl			15	3	40 to 39
		112520	EOL25						
		1126	SOL26	L26 fl			15	3	42 to 41
		114140	EOL26						
		1143	SOL27	L27 fl			15	3	44 to 43
		115715	EOL27						
		115900	SOL28	L28 fl			15	3	46 to 45
		1215	EOL28						
		1215	SOL29	L29 fl			15	3	transit to wp#33
		1222	EOL29						
		1223	SOL30	L30 fl			15	3	33 to 34 navfile DATA24.244.
	1236	15	EOL30						
		1238		nav	off				transit to Topsail
		1327		nav	on				
		1332	SOL31				3	3	5 to 6
		134130	31	begin remaining natural dune					S. of this pt. Is. is overwashed w/ rebuilt bulldozed dune
		134500	31						Pier on SS.
		141445	31						offshore of the white lookout tower w/ grn/white awnings.

YrMoDy	JulDy	Time+Zone	Line#	~~Latitude N~~ Isis file	Longitude W	Course	Speed layback	Disk#	Comments WP# to WP#
01Sep98	244	142530	31	L31 f1			3	3	low gain done w/ debris on seafloor → ebb transport?
		142915	31						lots small debris on seafloor — poss. the numerous missing done walkovers on this stretch of beach, more so than anywhere else on TPSL.
		143345	EOL31						
		143350	SOL32	L32f1			3	3	
		143630	32				5		Δ layback
		143830	32				6		Δ layback
		154330	EOL32						
		1544	SOL33				6	3	
		1545	33		Δ swath				Δ swath + 300 m
		****	SEND MIKE THE FRAN VIDEO ****						
		1620	33				9		Δ layback
		1646	EOL33						
		1646			Δ swath		9	3	Δ swath to 200m
		1647	SOL34				9	3	
		171015	34				15	3	Δ layback
		1700	34						chop picking up.
		1500					20		Δ layback
		1753	EOL34				20	3	

YrMoDy	JulDy	Time+Zone	Line#	~~Latitude N~~ (Isis file)	Longitude W	Course	~~Speed~~ (layback)	Disk#	Comments
01 ~~02~~ Sep98	244	1754	35 SOL	L35fl			15	3	25 to 26
			EOL35		now file data				rough seas - end of day
									[redacted]
									[redacted]
									[redacted]
02 ~~03~~ Sep98	245	104200	SOL 36	L36fl			15	4	swath 200m (24 to 23)
		111720	36						previously unknown hrdgrd (?)
		111920	36						nice hrdgrd ledge (new?)
		114100	EOL36						
		114138	SOL37	L37fl			15	4	26 to 25
		1222	37	L37fl			25		Δ layback
		122730	37				20		Δ layback
		1245	EOL37	L37fl					careful w/ EOL. Dodging boats & weather & Δ layback
		1248	SOL38	L38fl		15→	15	4	
		1304	38						dodge shrimp boat
		134850	EOL38						
				end	sidescan survey				
				begin	grab samples				

Rita's Ride
45 ft. 1972 Chris Craft

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Sample WP#

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YrMoDy	JulDy	Time+Zone	~~Line#~~	~~Latitude N~~	~~Longitude W~~	~~Course~~	~~Speed~~	Disk#	Comments	Sample ID
02 Sep 98	245	~~142134~~						~~[illegible]~~	~~[illegible]~~	↓
		142200						4	1	9801
		143000							2	9802
		143830							3	9803
		144330							5	#9804
		145040							4	#9805
		145535							6	9806
		~~[illegible]~~	150120		ogsfines. Three bags		9807 9807B	9807C	7	9807
		150705							8	9808
		~~[illegible]~~		151030					9	9809
		~~[illegible]~~	~~[illegible]~~		151620 ~~[illegible]~~	Two bags	ogsfines over crs.		10	9810 9810B
		→		152155					11	9811
		152710							12	9812
		~~[illegible]~~		153410					13	9813
		~~[illegible]~~		~~[illegible]~~	153850				14	9814
		~~[illegible]~~		154120					15	9815
		154620							16	9816
		155030							17	9817

Barry - when in wp mode, @100 m, don't
Δ scale to 200 m use 100.
Scale switching is confusing.

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YrMoDy	JulDy	Time+Zone	~~Line#~~	~~Latitude N~~	~~Longitude W~~	~~Course~~	~~Speed~~	Disk#	Sample WP# Comments	Sample ID
02Sep98	245	155220						4	18	9818
		155450							19	9819
		155830							20	9820
		160055							21	9821
		160740							22	#9822
		[illegible]		[illegible]	[illegible]	NOGRAB		#9823	23	can't pick up sample - too coarse - wash outs
		163040							25	#9824
		163720							24	#9825
		164210							26	9826
		164615							27	9827
		165300		2 bags.	fines over crs.				28	9828
		165735							29	9829
		[illegible]		171215					30	9830