

APPENDIX 5

FIELD BOOK PAGES

(Available in digital format only)

C
A
P
E
N
C
A
R
O
L
I
N
A
F
I
E
L
D
B
O
O
K

N. CAROLINA FIELD BOOK



8418

#489

0600 MOBE HOUSE

0800 PICK UP RENTAL CAR

1000 SET BASE @ TDALL
461.1000 @ 1.5m RTK/LOG

1106 SOD CHK @ C255
H 0.121 H 0.122
V 0.056 V 0.056

1120 SOD CHKE JENN
H 0.173 H 0.214
V 0.020 V 0.024

1315 SOD CHK @ KITTY
H 0.009 H 0.014
V -0.005 V -0.011

PICS: 6861

PICS 6862 - 6864

Pics 6865 - 6866

← SET 2nd BASE @ ARCH 1.5 m @ 462.12500
RTK

BB, DA, AP, JD OBX Beach Profiles 12-1-17
0630 Prep/Load trucks, mob to ACE to set
base @ Jean

0845 - Complete checks w/ Rovers @ C255

$$H_1 = 0.045$$

$$H_2 = 0.086$$

$$V_1 = 0.034$$

$$V_2 = 0.056$$

0852 - Tidal C check complete

$$H_1 = 0.258$$

$$H_2 = 0.202$$

$$V_1 = 0.002$$

$$V_2 = 0.000$$

0905 - Complete check @ Cuffey

$$H_1 = 0.693$$

$$H_2 = 0.702$$

$$V_1 = -0.022$$

$$V_2 = -0.032$$

0925 - Begin Survey DA+BB Leap Frog w/
↳ conditions too rough for swing AP+JD
switch to Uplands (DA+BB only)

17(EOO)

1415 - Complete Checks, tear down base

* Check @ Tidal C

$$H_1 = 0.116$$

$$H_2 = 0.112$$

$$V_1 = -0.011$$

$$V_2 = -0.017$$

- Check @ C255

$$H_1 = 0.123$$

$$H_2 = 0.119$$

$$V_1 = 0.012$$

$$V_2 = 0.026$$

↓ Notes for Cont. C (R-10)

DA, BB OBRX 12-1-17

D-7 Topo 100-
SNP, WSNP, WL, W Az: 70
Total Dist = (X) Pics (1396-1398)

- Too Rough -

D-6 Topo 1-53
WSNP, SNP, FOV, V₁, HOUSE, DRIVEWAY, GRASS Az: 70 Mon: DNF
Pics (1399-1401)

D-7 Topo 1-36
WSNP, SNP, FOV, V₁, V₂, V₁, SND Az: 70 Mon: DNF
Pics (1396-1398)

D-8 Topo 1-58
WSNP, SNP, FOV, BWalk, V₁ Az: 70 Mon: DNF
Pics (1402-1404)

D-9 Topo 1-53
WSNP, SNP, FOV, V₁, BWalk, V₁, V₂, V₁, V₂ Az: 70 Mon: DNF
Pics (1405-1407)

D-10 Topo 1-40
WSNP, SNP, FOV, V₁ Az: 70 Mon: DNF
Pics (1408-1410)

D-11 Topo 1-44
WSNP, SNP, FOV, V₁, Wood B/R, SND Az: 70 Mon: DNF
Pics (1411-1413)

- EOD -

X - SEAs too rough, canceled attempt

↳ Decide to run uplands instead (BB+DA)
↳ TM, + CG also can't run boat, Mob to assist w/ uplands

↳ AP + JD head to house to work on office workload

- Snap due to house

- Stopped @ house

- No RTK due to house, shots taken on Blotk + Next to BWalk, + Top of Dun (Perpendicular)

- Cont. Topps past 1st row of houses, ran into dense veg + approaching house. Ended.

- SLIGHTLY OFF LINE DUE TO BWA/C

DA BB

OBX-PROFILES

12-2-17

0600 MOB @ HOUSE

0730 SET BASE @ JENN IRC
1.5m RTK/20G 461.10000

0745 SOD CHK @ TIDAL C TBM
H 0.058 H 0.038
V 0.020 V 0.016

0800 SOD CHK @ CAFFEY
H 0.142 H 0.093
V -0.049 V -0.057

- DA + BB Leap frog survey swim lanes
w/ JP, + AP

- EOD CHK @ Tidal C
 $H_1 = 0.103$ $H_2 = 0.034$
 $V_1 = -0.002$ $V_2 = 0.011$

- EOD CHK @ CAFFEY
 $H_1 = 0.039$ $H_2 = 0.070$
 $V_1 = -0.043$ $V_2 = -0.044$

DA BB

687 PROFILES

12-2-17

D-07	TOPO	500 - 548	Az 70 pics (Pre. Pay)
SND, WSND, WL, W			
D-10	TOPO	100 - 137	Az 70 pics (Pre. Pay)
SND, WSND, WL, W			
D-12	TOPO	100 - 136	Az 70 pics (1414 - 1416)
W, WL, WSND, SND			
D-14	TOPO	100 - 129	Az 70 pics (1417 - 1419)
W, WL, WSND, SND			
D-16	TOPO	100 - 129	Az 70 pics (1420 - 1422)
W, WL, WSND, SND			
D-20	TOPO	100 - 132	Az 70 pics (1423 - 1425)
W, WL, WSND, SND			
D-22	TOPO	100 - 133	Az 70 pics (1426 - 1428)
W, WL, WSND, SND			
D-25	TOPO	100 - 118	Az 70 pics (1429 - 1431)
W, WL, WSND, SND			
D-27	TOPO	100 - 122	Az 70 pics (1432 - 1435)
W, WL, WSND, SND			
D-30	TOPO	100 - 114	Az 70 pics (1436 - 1440)
W, WL, WSND, SND			
D-33	TOPO	100 - 121	Az 70 pics (1441 - 1443)
W, WL, WSND, SND			

SEE OTHER PGS FOR OTHER SWIMLINES

* SHORT ONE Photo, retake!!!
↳ Camera Malfunction.

BB

0600 MOB @ HOUSE

0715 SET BASE @ JENN CONTROLLER A SN: 5874
1.5 m RTK/STATIC 461.1000

0745 SOD CHK @ TIDAL C
H 0.037 H 0.184
V 0.028 V 0.635

0800 SET STAIC @ TIDAL C CONTROLLER C SN: 4411
1.5 m RTK STATIC

0815 SOD CHK @ CAFFEY
H 0.164 H 0.194
V -0.031 V -0.033

1630 END TIDAL C STATIC

1640 EOD CHK @ TIDAL C
H H 0.432
V -0.016 V -0.028

1655 EOD CHK @ CAFFEY
H 0.119 H 0.170
V -0.042 V -0.043

1700 END SURVEY

-170 Topo 100-120
SND, WSND, WL, W

Az: 66.6
pics (6869-6871)

-157 Topo 100-119
SND, WSND, WL, W

Az: 66.6
pic (6872-6874)

-110 Topo 100-113
SND, WSND, WL, W

Az: 62.57
pics (6875-6877)

-90 Topo 100-116
SND, WSND, WL, W

Az: 62.57
pics (6878-6880)

-70 Topo 100-115
SND, WSND, WL, W

Az: 62.57
pics (6881-6883)

-50 Topo 100-115
SND, WSND, WL, W

Az: 62.57
pics (6884-6886)

-30 Topo 100-122
SND, WSND, WL, W

Az: 62.57
pics (6886-6889)

-10 Topo 100-127
SND, WSND, WL, W

Az: 62.57
pic (6890-6892)

20 Topo 100-127
SND, WSND, WL, W

Az: 62.2
pics (6893-6895)

40 Topo 100-128
SND, WSND, WL, W

Az: 62.2
pics (6896-6898)

60 Topo 200-220

↳ JD + AP collected w/ carts C, notes in other Log Books

BB

OBX - PROFILES

12-4-17

0600 MOB @ House

0800 WEATHER PLAN

0936 SET BASE @ WILKINS SW: 5874
2.0 m RTK/LOG 2461-10000

1000 SOD CHK @ ARCH

H 0.134 H 0.125

V 0.095 V 0.079

1020 SOD CHK @ KITTY

H 0.068 H 0.078

V 0.003 V 0.002

1030 EOD CHK @ ARCH

H 0.077 H 0.120

V 0.033 V 0.029

1645 EOD CHK @ KITTY

H 0.220 H 0.245

V 0.064 0.060

1700 END SURVEY

BB

OBX - PROFILES

12-4-17

C

Handwritten scribbles

BR

OBX - PROFILES

12-04-17

60+50	TOPO 1-26	AZ 62.2
SND, HOUSE/EDV, V, ROAD		
50+28	TOPO 1-28	AZ 62.2
SND, EDV, V, ROAD		
46+23	TOPO 1-23	AZ 62.2
SND, V, ROAD		
30+05	TOPO 1-24	AZ 62.2
SND, HOUSE, SND, DWAY ROAD		
20+02	TOPO 1-24	AZ 62.2
SND, EDV, V, SND, V, ROAD		
9+99	TOPO 1-28	AZ 62.6
SND, EDV, V, ROAD		
0+00	TOPO 1-24	AZ 62.6
SND, EDV, V,		
-10+00	TOPO 1-42	AZ 62.57
SND, EDV, V, WALL, BWALL, DWAY, V, DWAY, ROAD		
-20+00	TOPO 1-35	AZ 62.57
SND, EDV, V, ROAD		
-30+00	TOPO 1-34	AZ 62.57
SND, EDV, V, BWALL, TWALL, BWALL, SND, BWALL		
-40+00	TOPO 1-46	AZ 62.57
SND, EDV, V, ROAD		

* GAP LOST RADIO BETWEEN HOUSES *

* LINE ENDS @ HOUSE STONEWALL *

BTS

OBJ - PROFILES

12-4-17

-50+00 TOPO 1-47

AZ 62.57

SND, EDV, V₁, V₂, ROAD

-60+00 TOPO 1-38

AZ 62.57

SND, EDV, V₁, V₂, V₁

-70+00 TOPO 1-31

AZ 62.57

SND, EDV, V₁, V₂, V₁

-80+00 TOPO 1-39

AZ 62.57

SND, EDV, V₁, V₂, U, ROAD

MON: NO GAP

-90+00 TOPO 1-39

AZ: 62.57

SND, EDV, U, ROAD

-100+00 TOPO 1-30

AZ: 62.57

SND, EDV, V₁, V₂

-110+00

BB

OBJ - PROFILES

12-04-17

* OFF LINE / GAPS DUE TO DENSE V₂ *

* LINE ENDS DUE TO DENSE V₂ BRIARS *

* OFF LINE DUE TO DENSE V₂ END @ HOUSE *

* PICS BB PHONE * * OFF LINE DUE TO V₂ *

* End line due to dense V₂

0600 - Mob House

0645 SET ^{1/2} SIMULTANEOUS STATIC @ WIKINS
 SN: R10-4411 @ 2.0 m

0715 SET BASE @ JENN
 1.5 m 461.10000 RTE/LOG SN: 5874

0730 SOD CHK @ C255
 C H 0.109 H 6.112 A H 0.101 H 0.092
 V 0.026 V 0.023 V 0.024 V 0.032

0745 SOD CHK @ TIDAL C
 PC H 0.048 H 0.1287 A H 0.108 H 0.082
 V -0.003 V -0.005 V 0.021 V 0.016

1425 END STATIC @ WIKINS

1520 EOD CHK @ TIDAL
 H 0.053 H 0.041 H 0.240 H 0.178
 V -0.002 V -0.012 V 0.001 V -0.005

1530 EOD CHK @ C255
 H 0.066 H 0.080 H 0.187 H 0.197
 V -0.008 V 0.020 V 0.090 V 0.072

1550 END SURVEY

BB, + DA

OBX - Profiles

12-5-17

D-12 Topo 1-28 Az: 70

SND, EDV, V₁, BFENCE, BFENCE CONC

D-13 Topo 1-25 Az: 70

SND, EDV, V₁, HOUSE, DWAY

D-14 Topo 1-27 Az: 70

SND, EDV, V₁, SND, V₁, DWAY

D-15 Topo 1-23 Az: 70

SND, EDV, V₁, BFENCE

D-16 Topo 1-33 Az: 70

SND, EDV, V₁, GRILL SOFT, V₁, BWALK, V₁, CONC DWAY

D-17 Topo 1-31 Az: 70

SND, EDV, V₁, DWAY

D-18 Topo 1-30 Az: 70

SND, EDV, V₁, DECK, CONC DWAY, V₂

D-19 Topo 1-24 Az: 70

SND, EDV, V₁

D-20 Topo 1-35 Az: 70

SND, EDV, V₁, PATH, V₁, V₂

D-21 Topo 1-23 Az: 70

SND, EDV, V₁, FENCE

D-22 Topo 1-34 Az: 70

SND, EDV, V₁, V₂, V₁, V₂

D33

* END LINE DUE TO HOUSE *

* GAP DUE TO HOUSE ON LINE *

GAP DUE TO HOUSE

* GAP HOUSE * * POINT ON TOP OF GRILL *

* GAP DUE TO HOUSE *

9 of 33

BB, DA

OBY - PROFILES

12-5-17

D-23

TOPO 1-31

AZ 70

SND, EDU, V,

D-24

TOPO 1-42

SND, EDU, V, SND, BWALK, SND, V, DWAY, V,

D-25

TOPO 1-21

AZ 70

SND, EDU, V,

D-26

TOPO 1-25

AZ 70

SND, EDU, V, V₂, DWAY

D-27

TOPO 1-25

AZ 70

SND, EDU, V, HOUSE

D-28

TOPO 1-25

AZ 70

SND, EDU, V, BSWALL, BWALL, BWALL

D-29

TOPO 1-26

AZ 70

SND, EDU, V, FENCE

D-30

TOPO 1-19

AZ 70

SND, EDU, V, V₂, BFENCE

D-31

TOPO 1-35

AZ 70

SND, EDU, V, BWALK, TBWALK, BWALK, V, BWALK

D-32

TOPO 1-33

AZ 70

SND, EDU, V, SND, BFENCE, CONC, BFENCE, GRASS

D-33

TOPO 1-23

AZ 70

SND, EDU, V, BWALK, BWALK, BWALK PICS 6899-6901

* GAP DUE TO HOUSE * * BWALK AZ SHOT AROUND *

* GAP DUE TO HOUSE *

← BLUE CAMERA

BB DA

OBJ - PROFILES

12-5-A

D=34 Topo 1-28

Az: 70

SND, EOV, V₁, SWALK, SND

SS-01 Topo 1-37

Az: 70

SND, EOV, V₁, SWALK, ROAD

SS-02 Topo 1-34

Az: 70

SND, EOV, V₁, V₂, SND

-170+56 TOPO 1-33

Az 66.6

SND, EOV, V₁, ROAD

-163+99 TOPO 1-46

Az 66.6

SND, EOV, V₁, V₂, Grass, Wood Bk, Conc Driveway

-157+41 TOPO 1-26

Az 66.6

SND, EOV, V₁, BWALK, TBALK, V₁, WALK, HOUSE

-150+06 TOPO 1-26

Az 65.31

SND, EOV, V₁, V₂

-140+00 Topo 1-21

Az 65.31

SND, EOV, V₁

-130+00 Topo 1-28

Az 65.31

SND, EOV, V₁, V₂, ROAD, SND, V₁

-120+60 Topo 1-32

Az 65.31

SND, EOV, V₁, V₂

-110+00 Topo 1-29

Az 62.57

SND, EOV, V₁, V₂

BB DA

OBJ - PROFILES

12-5-12

* HOUSE UNDER CONSTRUCTION *

* GAP DUE TO HOUSE *

* Gap Due to House

* DECK ON LINE SHOT UP TO BWALK THEN OFFLINE *

* HOUSE ON LINE = END

* End @ house. no clear way around dense V₂

* End line due to house construction

* GAP HOUSE / V₂ *

* END LINE @ DENSE VEG

AP JD	OBX - PROFILES	12-2-A
D06	TOPO 500 - 536	AZ 70
SND, WSND, WL, W		
D08	TOPO 100 - 140	AZ 70
SND, WSND, WL, W		
D09	TOPO 100 - 147	AZ 70
SND, WSND, WL, W		
D11	TOPO 100 - 135	AZ 70
SND, WSND, WL, W		
D13	TOPO 100 - 135	AZ 70
SND, WSND, WL, W		
D15	TOPO 100 - 135	AZ 70
SND, WSND, WL, W		
D17	TOPO 100 - 136	AZ 70
SND, WSND, WL, W		
D18	TOPO 100 - 136	AZ 70
SND, WSND, WL, W		
D19	TOPO 100 - 139	AZ 70
SND, WSND, WL, W		
D21	TOPO 100 - 140	AZ 70
SND, WSND, WL, W		
D23	TOPO 100 - 121	AZ 70
SND, WSND, WL, W		

AP JD

OBX - PROFILES

12-2-17

D24

TOPG 100 - 121

AZ 70

SND, WSND, WL, W

D26

TOPG 100 - 123

AZ 70

SND, WSND, WL, W

D28

TOPG 100 - 127

AZ 70

SND, WSND, WL, W

D29

TOPG 100 - 114

AZ 70

SND, WSND, WL, W

D31

TOPG 100 - 119

AZ 70

SND, WSND, WL, W

D32

TOPG 100 - 120

AZ 70

SND, WSND, WL, W

D34

TOPG 100 - 119

AZ 70

SND, WSND, WL, W

APJD

ORX - PROFILES

12-3-17

SS 02

TOPO 100 - 119

AZ 70

SND, WSND, WL, W

SS 01

TOPO 100 - 125

AZ 70

SND, WSND, WL, W

-163+99

TOPO 100 - 119

SND, WSND, WL, W

-150+00

TOPO 100 - 118

SND, WSND, WL, W

-140+00

TOPO 100 - 119

SND, WSND, WL, W

-130+00

TOPO 100 - 130

SND, WSND, WL, W

-120+00

TOPO 100 - 118

SND, WSND, WL, W

-100+00

TOPO 100 - 117

SND, WSND, WL, W

-80+00

TOPO 100 - 119

SND, WSND, WL, W

-60+00

TOPO 100 - 117

SND, WSND, WL, W

-40+00

TOPO 100 - 120

SND, WSND, WL, W

APJD

OBX-PROFILES

-20+00

TOPO 100 - 122

SND, WSND, WL, W

0+00

TOPO 100 - 130

SND, WSND, WL, W

9+99

TOPO 100 - 137

SND, WSND, WL, W

30+5

TOPO 100 - 133

SND, WSND, WL, W

50+28

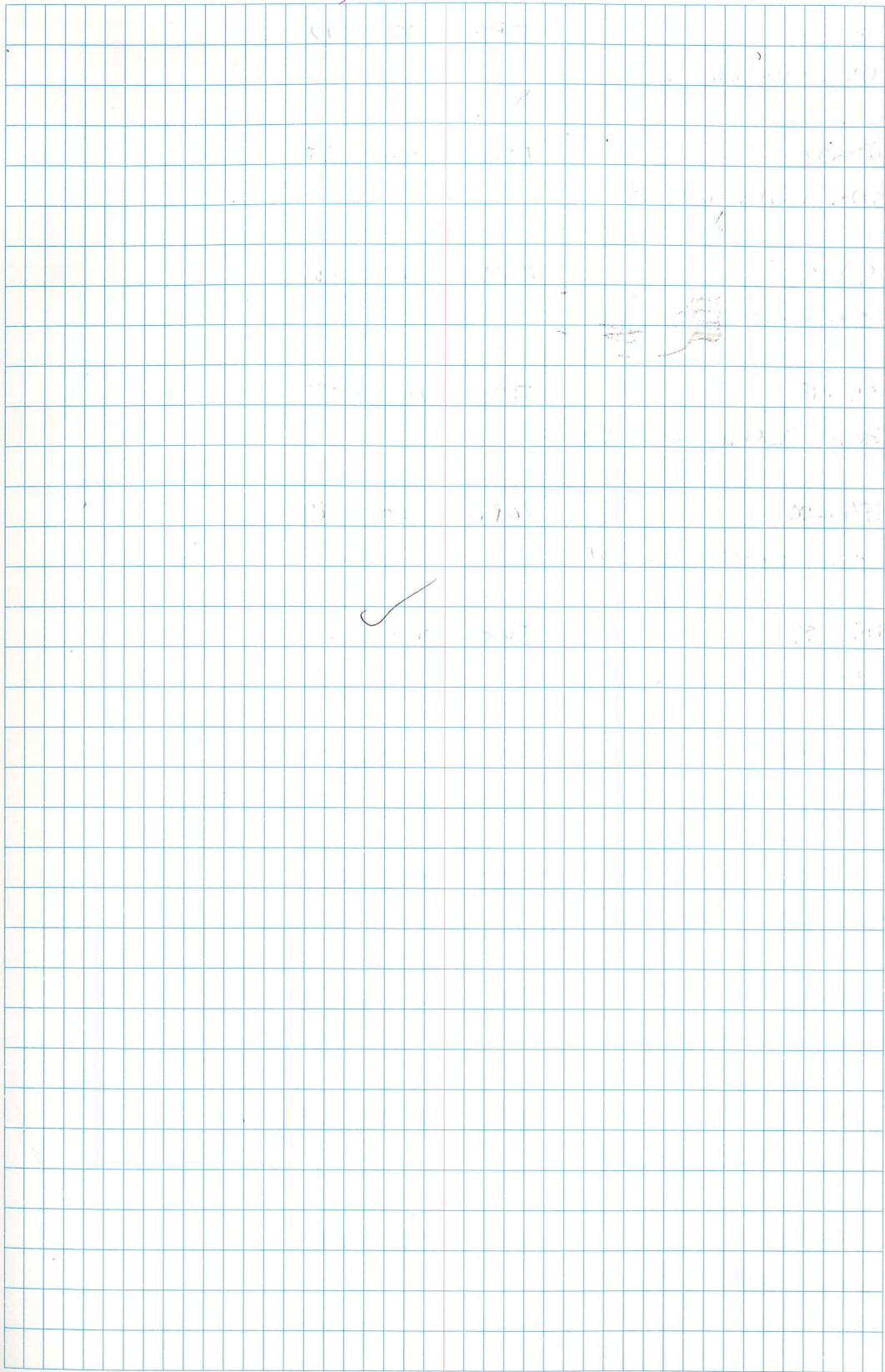
TOPO 100 - 129

SND, WSND, WL, W

60+50

TOPO 100 - 112

SND, WSND, WL, W



JD, AP

OBX - Profiles

2-11-17

70+00

TOPO 100 - 123

SND, WSND, WL, W

80+00

TOPO 100 - 123

SND, WSND, WL, W

89+56

TOPO 100 - 126

SND, WSND, WL, W

99+99

TOPO 100 - 135

SND, WSND, WL, W

109+99

TOPO 100 - 119

SND, WSND, WL, W

119+99

TOPO 100 - 121

SND, WSND, WL, W

130+33

TOPO 100 + 125

SND, WSND, WL, W

138+26

TOPO 100 - 123

SND, WSND, WL, W

149+99

TOPO 100 - 125

SND, WSND, WL, W

159+99

TOPO 100 - 126

SND, WSND, WL, W

169+70

TOPO 100 - 118

SND, WSND, WL, W

179+87 TOPO 100-121

SND, WSND, WL, W

189+87 TOPO 100-121

SND, WSND, WL, W

199+93 TOPO 100-119

SND, WSND, WL, W

209+74 TOPO 100-122

SND, WSND, WL, W

219+99 TOPO 100-119

SND, WSND, WL, W

229+83 TOPO 100-120

SND, WSND, WL, W

240+41 TOPO 100-121

SND, WSND, WL, W

249+81 TOPO 100-119

SND, WSND, WL, W

260+17 TOPO 100-120

SND, WSND, WL, W

JD, AP

6800 - PROFILES

12-12-17

269+49

TOPO 100-123

SND, WSND, WL, W

279+80

TOPO 100-119

SND, WSND, WL, W

289+99

TOPO 100-120

SND, WSND, WL, W

299+92

TOPO 100-124

SND, WSND, WL, W

309+71

TOPO 100-120

SND, WSND, WL, W

320+05

TOPO 100-115

SND, WSND, WL, W

329+88

TOPO 100-120

SND, WSND, WL, W

340+20

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N. CAROLINA
NAV BOOK



SINCE 1956

FLT
Geosystems

8416

NAV # 50

CG, TM

OBX Profiles

12/1/17

0630 MEET @ HOUSE

0700 PUT BOAT IN/MOB/FUEL

0945 MEASURE GPS OFFSET (9.2')

* YELLOW EXTENSION w/ GPS
MOUNT USED FOR SWAMP II
* 9.2' MEASURED 3.0'
TO BOTTOM OF ANTENNA

CG, TM

12/2/17

0630 MOB @ HOUSE

0715 ARRIVE @ BOAT / LEAVE DOCK

0900 SUP 4900

0930 BARCHECK 30'

1515 SUP 4900

1530 BARCHECK 30'

1645 @ DOCK

CG, Trm	OBX		12/2/17		
LINE	SOL	EOL	SOL	EOL	AZ
D10	283	397	10:13	10:19	250
D11	398	503	10:24	10:30	250
D12	504	611	10:35	10:42	250
D13	612	708	10:47	10:52	250
D14	709	810	10:59	11:04	250
D15	811	851	11:10	11:12	250
D15-1	852	929	11:15	11:18	250
D16	930	1029	11:23	11:31	250
D17	1036	1136	11:36	11:42	250
D18	1137	1237	11:47	11:53	250
D19	1238	1338	11:58	12:04	250
D20	1339	1439	12:10	12:16	250
D21	1440	1522	12:22	12:27	250
D22	1523	-	12:36	-	250
P23	16	1698	-	12:45	250
D24	1699	1800	12:56	12:56	250
D25	1801	1884	13:02	13:07	250
D25-1	1885	1923	13:08	13:11	250
D26	1924	2024	13:15	13:21	250
D27	2025	2127	13:26	13:31	250
D28	2129	2225	13:36	13:42	250
D29	2226	2328	13:47	13:53	250
D30	2329	2434	13:58	14:04	250
D31	2435	2534	14:10	14:16	250
D32	2535	2635	14:21	14:26	250

RMS	SPD	DTG	Comments
25	4.7	975	
25	5.0	775	
19	4.7	915	
19	4.8	1050	
20	4.9	1040	
17	4.8	-	OFFLINE
19	4.7	1025	
15	4.8	1680	
15	4.6	975	
17	4.9	975	
18	4.6	1046	
17	4.9	1000	
18	4.7	1000	
14	4.7	1000	
16	4.6	625	
21	4.7	650	
18	4.8	-	OFFLINE
18	4.7	620	
18	4.7	650	
21	4.9	800	CHECK ROLL
19	4.6	775	
20	4.9	525	
22	4.9	570	
22	4.7	610	
21	4.9	615	

CG, Trm

ORX

12/2/17

4902

LINE	SOL	EOL	SOL	EOL	AZ
D33	2636	2738	14:32	14:38	250
D34	2739	2835	14:44	14:49	250
D34.1	2836	2844	14:49	14:50	250
D35	2845	2944	14:52	15:01	250

RMS SPD DTG

Comments

22	4.7	675	
21	4.9	550	
20	3.0	550	
18	4.7	630	- SSI

CG, Trm	OBX				12/3/17
LINE	SOL	EOL	SOL	EOL	AZ
SS02	2945	~	8:30	-	250
-170	~	3183	-	8:58	246.6
-163499	3184	3288	9:01	9:08	246.6
-157441	3289	3382	9:13	9:18	246.6
-150	3393	3494	9:23	9:28	245.31
-140	3495	3603	9:34	9:40	245.31
-130	3604	3691	9:44	9:49	245.31
-120	3692	3793	9:54	10:00	245
-110	3794	3900	10:05	10:11	242.57
-100	3901	4004	10:15	10:22	242.57
-90	4010	4107	10:33	10:39	242.57
-80	4109	4206	10:44	10:49	242.57
-70	4207	4306	10:54	10:59	242.57
-60	4307	4403	11:04	11:10	242.57
-50	4404	4504	11:14	11:21	242.57
-40+00	4505	4608	11:25	11:32	242.57
-30	4609	4705	11:38	11:44	242.57
-20	4706	4810	11:49	11:55	242.57
-10	4810	4910	12:00	12:05	242.57
0500	4911	5010	12:09	12:15	242.2
PI-17	5011	5094	12:56	13:01	250
PI-18	5095	5179	13:04	13:09	250
D01	5180	5262	13:13	13:18	250
D02	5263	5351	-	13:26	250
D03	5352				250

RMS	SPD	DTG	Comments
16	4.7	535	* USE <u>032</u> FOR US (RAN between SS02 and 170)
18	4.9	510	
16	4.8	500	
18	4.7	515	
21	4.9	560	
19	4.8	490	
24	4.6	1650	
21	4.9	530	
19	4.9	485	
24	4.9	510	
22	4.7	615	
21	4.9	620	
20	4.7	640	
19	4.8	650	
23	4.9	640	
22	4.8	625	
19	4.6	655	
21	4.8	550	
23	4.9	830	
25	4.7	610	
25	4.6	1030	
25	4.4	1000	
21	4.6	975	
18	4.8	900	
20	4.9		

12/11/17 OBY PROFILES

4884

4906

TM, DA

OBX

12-4-17

Line	SOL	EOL	SOL	EOL	Az
9+ 99.9	5982	6074	0946	0951	242.2
20+02.68	6075	6169	0956	1001	242.2
30+05.52	6170	6259	1008	1013	242.2
40+23.88	6260	6358	1019	1025	242.2
50+28.29	6359	6453	1033	1038	242.2
60+50.00	6454	6550	1045	1051	242.2

RMS	SPD	DTG	Tot DTG
20	4	729	679
19	4.5	713	663
18	4.25	811	761
16	5.0	598	548
17	5.0	724	674
14	5.5	650	600