

YR190522

5/22/2019

on R/V Pintail for SERDP/VT sediment work.
Captain Cristin Wright with Grace Massey, Danielle
Tarpley, Jessie Turner, Dennis Kiptoo, and Reem
Jaber. Location: Clay Bank.

6903 Harry cast lat 37.3309 7:31 am EDT
lon -76.6188
depth 3.32 m
avg temp 23.64 °C
avg sal. 10.75

6904 - ~~ADCP transects~~ (calibrated first)
@ anchor for 1st gravity core
Right Shoal

6905 Harry Cast for 1st gravity core of transect
(right side looking up river) - ~~main channel~~ Right Shoal
8:07 am EDT
37.3457 depth = 5.76 m
-76.6174 ave temp = 23.53 °C
ave sal = 10.94

6906 Gravity Core @ 08:11 EDT
Right Shoal

6907 Gravity Core @ 08:20 EDT
Right Shoal

6908 Gravity Core @ 8:27 EDT
Right Shoal

6909 ADCP @ anchor far interfluv

6910 Traw Cast @ Interfluv (get time from file)

37.3436
-76.6227

depth = 4.47m
ave temp = 23.41°C
ave salinity = 10.88

6911 Gravity Core @ 8:45 EDT
Interfluv

6912 Gravity Core @ 8:52 EDT
Interfluv

6913 Gravity Core @ 8:58 EDT
Interfluv


6914 ADCP @ Anchor in secondary channel shoal

6915 Traw Cast @ Secondary Channel ^{shoal} (check file for time)

37.3410
-76.6272

depth ~~temp~~ = 3.24m
ave ~~temp~~ temp = 23.11°C
ave salinity = 10.31

69116 Gravity Core @ 9:12 EDT
Secondary Channel shoal

69117 Gravity Core @  Secondary Channel _{shoal} 9:16 EDT

69118 Gravity Core @ 9:24 EDT
Secondary Channel Shoal

69119 ADCP @ anchor far left shoal

69120 Traw Cast @ 9:40 EDT

37.3398
-76.6314

depth = 2.43m
ave temp = 23.53°C
ave salinity = 10.91

69121 Gravity Core @ 9:41 EDT
Left Shoal

69122 Gravity Core @ 9:47 EDT
Left Shoal

69123 Gravity Core @ 9:56 EDT
Left Shoal

10:09 @ anchor for side scan
on secondary channel

0924 ADCP @ anchor-secondary channel

0925 Larry Cast in secondary channel @ 10:12 EDT

37.3414
-76.6272

depth = 3.65m
ave temp = 23.61°C
ave salinity = 10.73

0926 Side Scan begin @ 10:19

1st round: default settings

* Pump hose to NE
off boat.

finished @ 10:35

0927 Side Scan begin @ 10:46 EDT Interfluv
finished @

0928 ADCP @ anchor-Interfluv 11:00 EDT

0929 Larry Cast @ Interfluv @ 10:51

~~37.3414~~
37.3438
-76.6229

depth: 4.69m
ave temp = 23.50°C
ave sal: 10.74

6930-6934 ADCP Transects across
Clay Bank

6935 ADCP @ anchor @ secondary channel ~~_____~~

EDT 6936 Dredge Cast @ secondary channel ~~_____~~ 12:47 EDT

37.3424 depth - 6.19 m
-76.6264 ave temp - 23.5°C
ave salinity - 12.46

6937 Box core 12:51 pm EDT

- Gust
- XRay

(Divers in water 12:59)

6938 Box core 1:05 pm

- GSA slice
- Shear stress for Dennis

surface	0 kPa (P)	0 kPa (V)
3 cm	0 kPa (V)	0 kPa (P)
6 cm	0 kPa (P)	0 kPa (V)
9 cm	0.5 kPa (P)	0 kPa (V)
12 cm	0.3 (P)	(not deep enough)
15 cm		

6939 Diver core 1:12 pm
• Gust (bevel down i)

6940 Diver core 1:17 pm
• XRay

6941

Diver core

1:22 pm EDT

- GSA Slice

6942

Diver core

1:30 pm EDT

this may be
sensor
error

- Shear stress for Dennis

Surface	: 0 kPa (V)	0 kPa (P)
3 cm	: 0 kPa (V)	0 kPa (P)
6 cm	: 0 kPa (P)	0 kPa (V)
9 cm	: 0 kPa (V)	0 kPa (P)
12 cm	: 0 kPa (V)	0 kPa (P)
15 cm	: 0 kPa (V)	0 kPa (P)
18 cm	: 0.4 kPa (P)	0 kPa (V)

6943

Diver core

1:35 pm EDT

- Gust

6944

Diver core

1:39 pm

- Stress for Dennis

Surface	0 kPa (V)	0 kPa (P)
3 cm	0 kPa (P)	0 kPa (V)
6 cm	0 kPa (V)	0.7 kPa (P)
9 cm	0.7 (P)	0 kPa (V)
12 cm	0 kPa (V)	0.7 kPa (P)
15 cm	0.5 kPa (P)	(hit bottom)

6945 Diver core 1:43
• GUST

may be
sor
or

~~6946~~ ~~Box cover~~
~~GUST~~
~~XRAY~~

~~6946~~
Dumped out box cover

6947 Diver core 1:49 pm EDT
• XRAY

6948 Box cover 1:51 pm EDT
• XRAY
• GUST

6949 Diver core 1:53 pm EDT
• GUST

6950 Diver core 2:01 pm EDT
• GSA Slicer

6951 Diver core 2:13 pm EDT
• small core for Dennis

6952 Box cover 2:10 pm EDT
• GUST
• GSA slicer

6953 Diver core 2:19 pm EDT
~~6953~~
• small cores for Dennis
A and B collected at the same time

(Divers out of water 2:20 pm)

6954 Box Core

2:30 pm EDT

• Shear stress for Dennis

Surface :	0 kPa (P)	0 kPa (V)
3 cm :	0.4 kPa (V)	0 kPa (P)
6 cm :	0.5 kPa (V)	0.5 kPa (P)
9 cm :	1.1 kPa (V)	0.9 kPa (P)
12 cm :	(too shallow of a core for more)	
15 cm :		

(collecting site water)

6955 Hamy Cast

lat 37.3425

avg temp 23.2°C

lon -76.6262

avg sal 13.58

depth 6.08 m

(penetrometer blue drop with winch-clavit 3:11 pm)

6956 Gravity Core @ 3:22 pm EDT
Secondary Channel - Sample location

6957 Gravity Core @ 3:30 pm EDT
Secondary Channel - Sample location

6958 Gravity Core @ 3:36 pm EDT
Secondary Channel - Sample location