

YR190522 5/22/2019

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

6903 Hany east lat 37.3309 lon -76.6188 7:31am EDT

depth 3.32 m
avg temp 23.64 °C
avg sal. 10.75

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

6905 Hany east for first gravity core of transect
right side looking up river - ~~mean channel right~~ Shoal
8:07 am EDT
37.3457 -76.6174

depth = 5.76m
air temp = 23.53°C
air 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 interfluvial

6910 Traw Cast @ Interfluvial (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
Interfluvial

6912 Gravity Core @ 8:52 EDT
Interfluvial

6913 Gravity Core @ 8:58 EDT
Interfluvial

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

10916 Granthly Core @ 9:12 EDT
Secondary Channel Shoal

10917 Granthly Core @ 9:16 EDT
Secondary Channel Shoal

10918 Granthly Core @ 9:24 EDT
Secondary Channel Shoal

10919 ADCP @ anchor for left shoal

10920 Alamy East @ 9:40 EDT

37.3398
-76.6314
depth = 2.43m
air temp = 23.53°C
air salinity = 10.91

10921 Granthly Core @ 9:41 EDT
Left Shoal

10922 Granthly Core @ 9:47 EDT
Left Shoal

10923 Granthly 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 HDCP Transects across clay Bank

6935 HDCP @ marker - @ secondary channel
6936 dmy last @ secondary channel 12:47 EDT

37.3424 -76.1214
depth - 6.19 m
ave temp - 23.5C
wrt salinity - 12.46
12:51 pm EDT

6937 Box core
• 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 (P) 0 kPa (V)
6 cm 0 kPa (P) 0 kPa (V)
9 cm 0.5 kPa (P) 0 kPa (V)
12 cm 0.3 (P)
15 cm (not deep enough)

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

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)

A and B collected at the same time

• small cores for Dennis

2:19 pm EDT

Diver core

69S3

• GSA slicer

• GUST

2:10 pm EDT

Box core

69S2

• small core for Dennis

2:13 pm EDT

Diver core

69S1

• GSA Slicer

2:01 pm EDT

Diver core

69S0

• GUST

1:53 pm EDT

Diver core

6949

• GUST

1:51 pm EDT

• XRAY

Box core

6948

• XRAY

1:49 pm EDT

Diver core

6947

Dumped out box core

WMS

~~Box core~~
~~GUST~~
~~XRAY~~

• GUST

1:43

Diver core

6945

(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