

7/10/18 YR180710

VT/SERDP Cruise to Pamunkey River  
on R/V Neron with Grace Masey,  
Emma Hicks, Nina Stark, Dennis Kiptoo,  
Matthew Florence with Jessie Turner as  
Captain and Cistin Wright as Captain-  
in-training.

6617 Harry cast 9:50 am EDT (1st bend in  
lat 37.5486 Pamunkey past  
lon -76.8269 the mill)  
depth 8.41 m  
avg temp 27.66°C  
avg salinity 3.49

6618 Harry cast 10:16 am EDT (~ 3 bends up)  
lat 37.5522  
lon -76.8620  
depth 6.51 m  
avg temp 28.03°C  
avg salinity 0.29

6619 ADCP @ Anchor co-pass connect 31.7  
water mode 12 subpages 18  
Bottom mode 5 Time between subpages 4  
update rate 0.7 Time between ensembles 1.5  
bin size 10m  
# bins 60

YR180710\_000 → 37° 33.3908 Depth 9.511 m  
-76° 51.7324

6620 Box core 10:45 EDT

1 EH core

1 Gust core

6620

6621 Box core 10:57 EDT

1 Gust core

1 Grain size

6621

6621

6622 ADCP

YR180716\_0-001.PDO → 37° 33.3876 N ~~37° 33.3876 N~~  
-76° 51.7285 W

Depth 4.611 m

6622

Boat speed 0.057 m/s    water speed 0.10 m/s    10cm/s    9100

6623 Box core 11:17 EDT

1 EH core

1 X ray core

6623

6624 Box core 11:28 EDT

1 Gust core

1 X ray

6624

6625 Box core 11:41 EDT

1 Grain size

6625

6626 Gravity Core 11:59 EDT  
94 cm core length

6627 ADCP YR180710\_0\_002.PDD \*details in  
digital record

6628 ADCP 12:20 pm EDT  
YR180710\_0\_003.PDD

37° 33.3762 N  
-76° 51.7341 W  
Depth 4.474 m  
Water speed 0.262 m s<sup>-1</sup> ebb

6629 Harry cast 12:25 pm EDT

37.5563

-76.8623

4.37 m

28.01°C Avg Temp

0.41 Avg Salinity

6630 Gravity Core 12:31 EDT  
90 cm core length

\*zip lock bag is part of core that fell out + tip

6631 Gravity Core 12:43 EDT

92 cm core depth

\*zip lock bag contains sample from tip.

06

\*Many Mechanical problems. GPS interrupted

YR180710-005 LAT Long Depth Left Shore <sup>looking up</sup>

ADCP

ADCP + CHIRP TRANSECTS

N500

Gravity Core 12:59 EDT  
\*tipple has mud sample from core tip  
84 cm core length

0633

\*unplugged GPS while water was being collected for GUST (12:55 EDT-1:13 EDT)

YR180710-0-004  
water speed 0.464 m s<sup>-1</sup>

4.442 m depth

-76° 51.7348

37° 33.3761

ADCP 12:49 pm EDT

0632

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