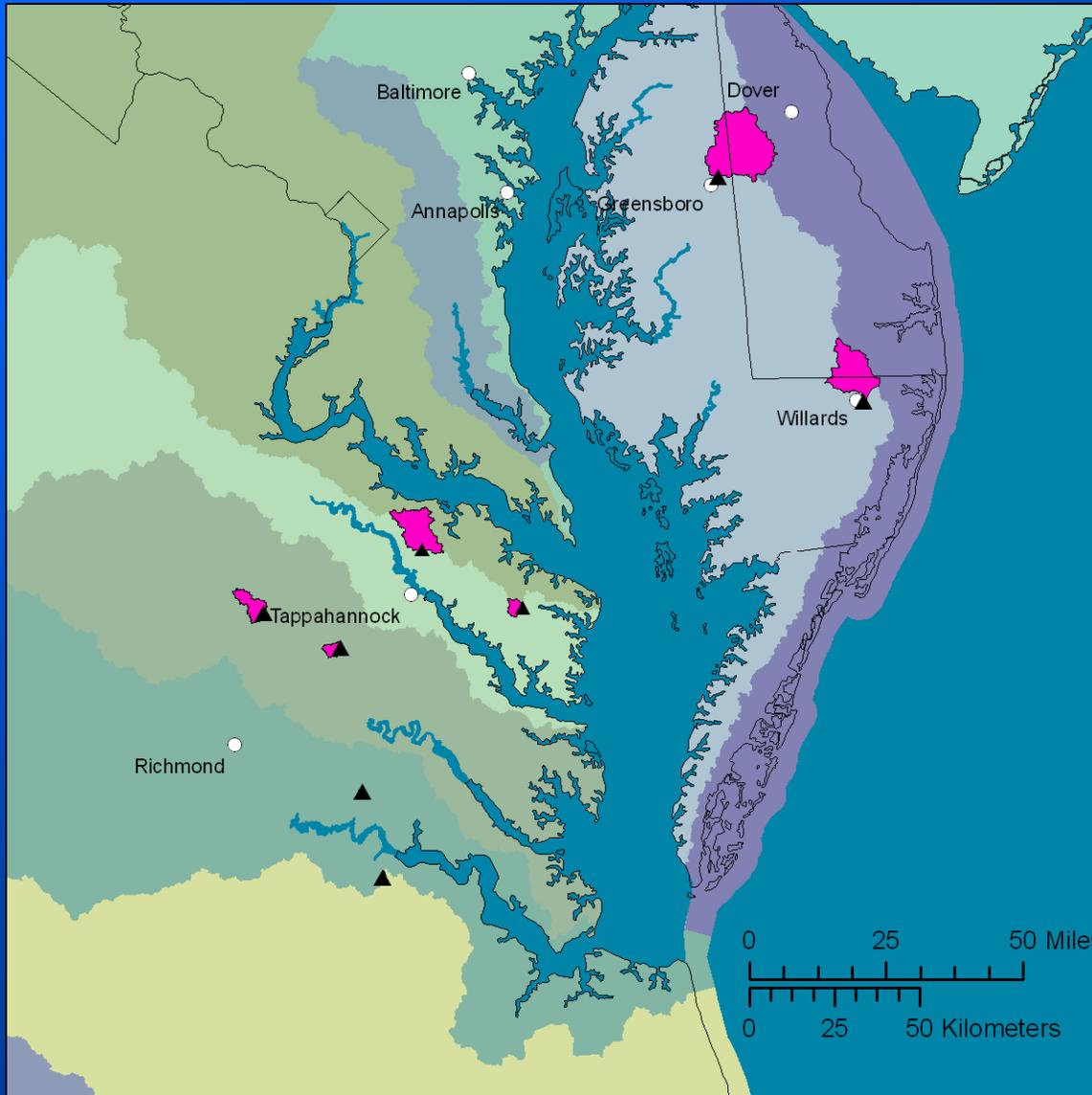


# Virginia Coastal Plain Regional Curve Data Collection

Jennifer L. Krstolic  
Jeff J. Chaplin  
U.S. Geological Survey



# Completed Sites



8 sites completed  
in Virginia and  
Maryland

Drainage areas  
0.28 mi<sup>2</sup> to 113 mi<sup>2</sup>

# Streamflow-Gaging Stations and Drainage Areas

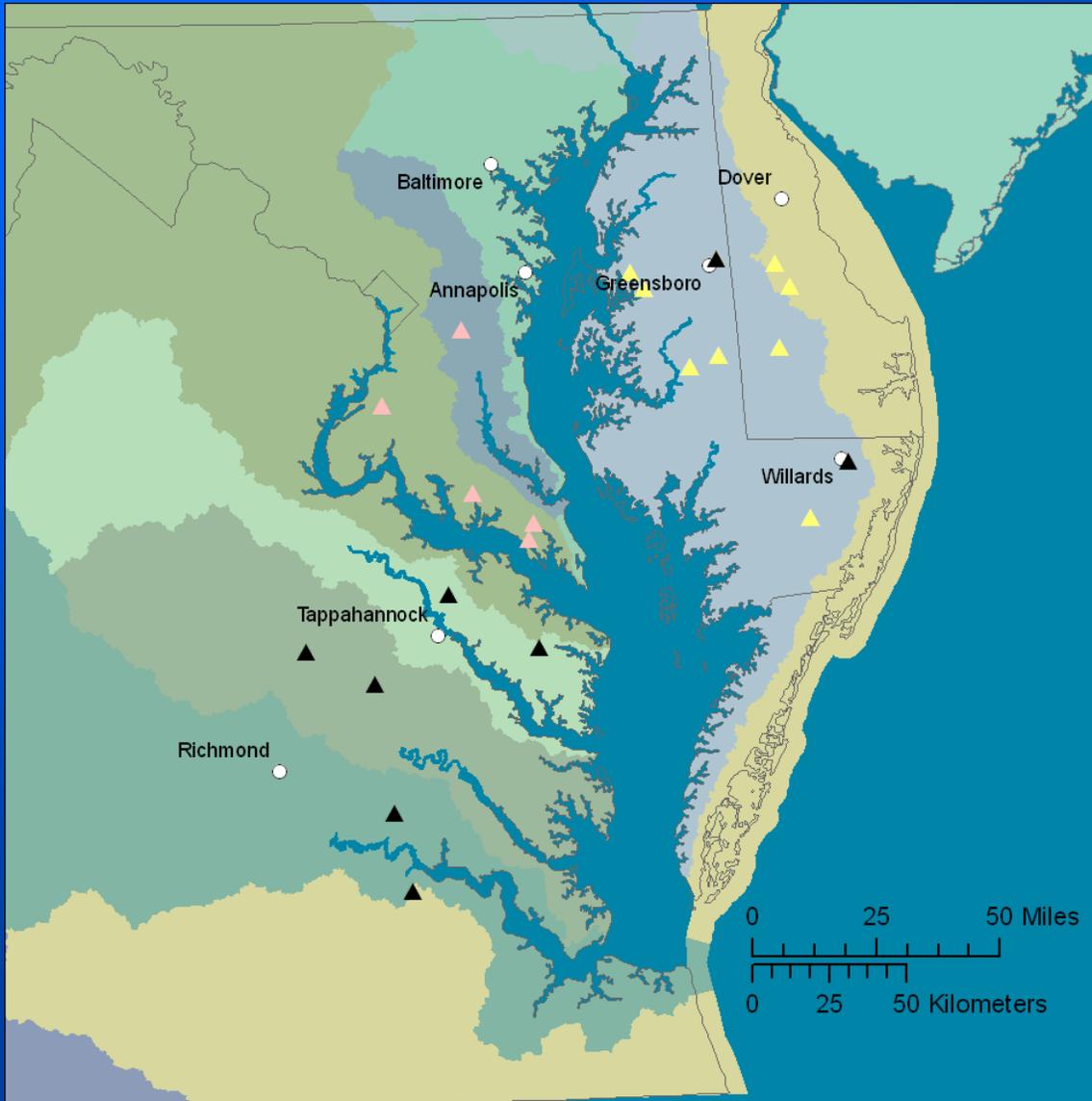
NAME	DA mi <sup>2</sup>
CHOPTANK RIVER NEAR GREENSBORO, MD	113.00
POKOMOKE RIVER NEAR WILLARDS, MD	60.50
CAT POINT CREEK NEAR MONTROSS, VA	45.60
REEDY CREEK NEAR DAWN, VA	16.80
BUSH MILL STREAM NEAR HEATHSVILLE, VA	6.82
AYLETT CREEK AT AYLETT, VA	6.17
BAILEY BRANCH TRIB AT SPRING GROVE, VA	0.71
COLLINS RUN TRIB NEAR PROVIDENCE FORGE, VA	0.28

# Site Selection Process

## Virginia Stations

- 51 Stations met peak flow criteria
- 12 Stations excluded--drainage area too large
- 11 Stations excluded—too urban or dam
- 25 Stations visited
- 17 Stations excluded after visit
- 6 Virginia sites surveyed
- 5 Possible but only 1-2 likely good

# Additional Surveys, Supplement Data



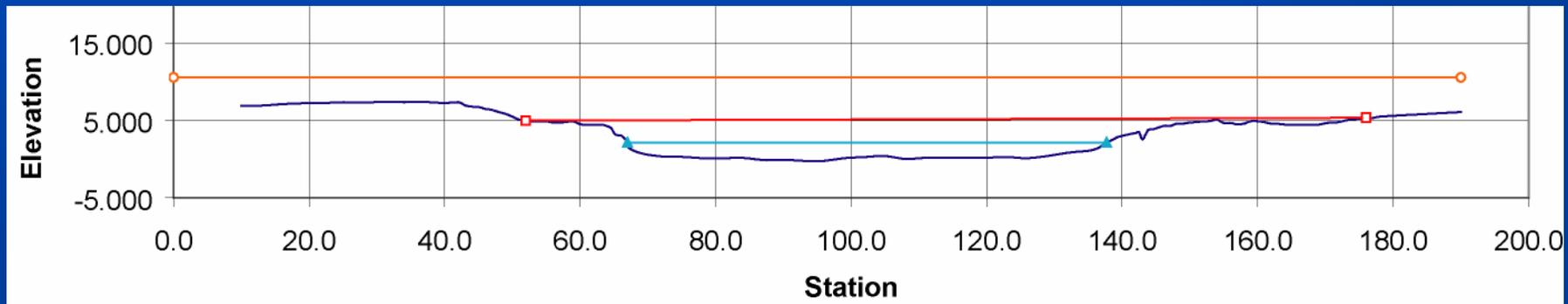
With the small number of stations available in Virginia we can look to Maryland

# Comparison of Data for Choptank River Surveys



Choptank River near Greensboro Maryland		
	McCandless	USGS
Bankfull Area	383.1	379.0
Bankfull Width	97.2	115.9
Bankfull Mean Depth	3.9	3.3
Max Bankfull Mean Velocity	1.8	1.8
Mean n:	0.035	0.020
D15	0.3	0.3
D35	0.6	2.6
D50	1.1	8.5
D84	16.5	22.8
D95	22.6	35.3
W / D Ratio	24.7	35.5
Rosgen Stream Type	C5c	C4c

From McCandless, T.L. 2003 CBFO-S03-02

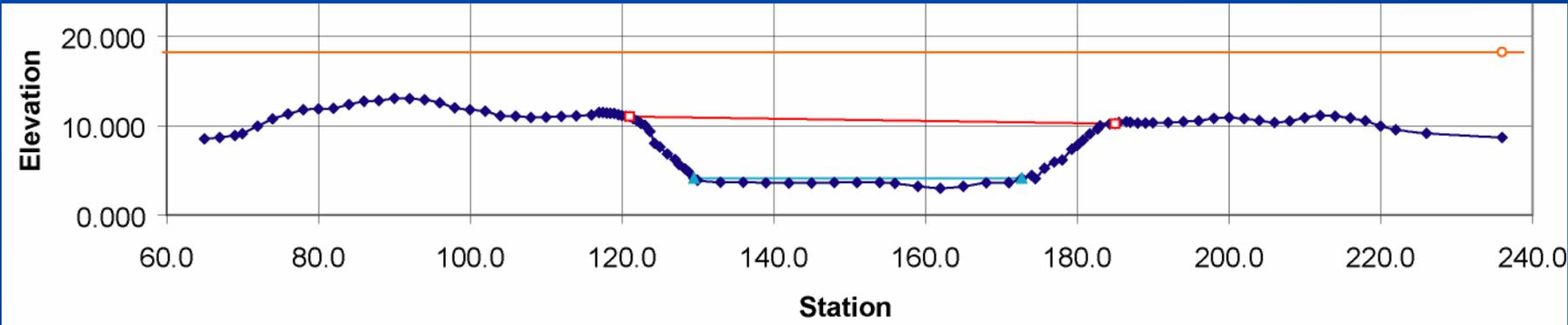




# Pokomoke River

## 01485000

BF area	373.1
BF width	64.0
BF depth	5.8
Stream type	E5

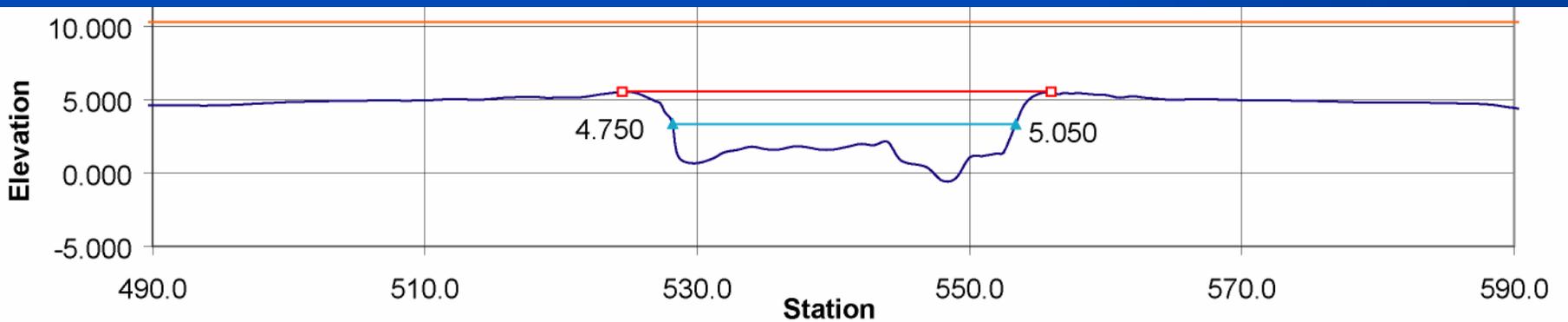




# Cat Point Creek

01668500

BF area	92.3
BF width	27.1
BF depth	3.4
Stream type	E5

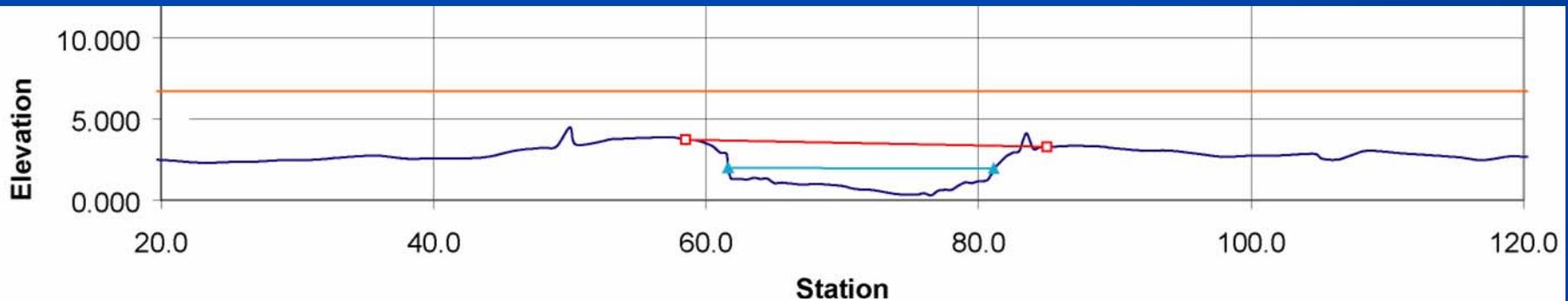




# Reedy Creek

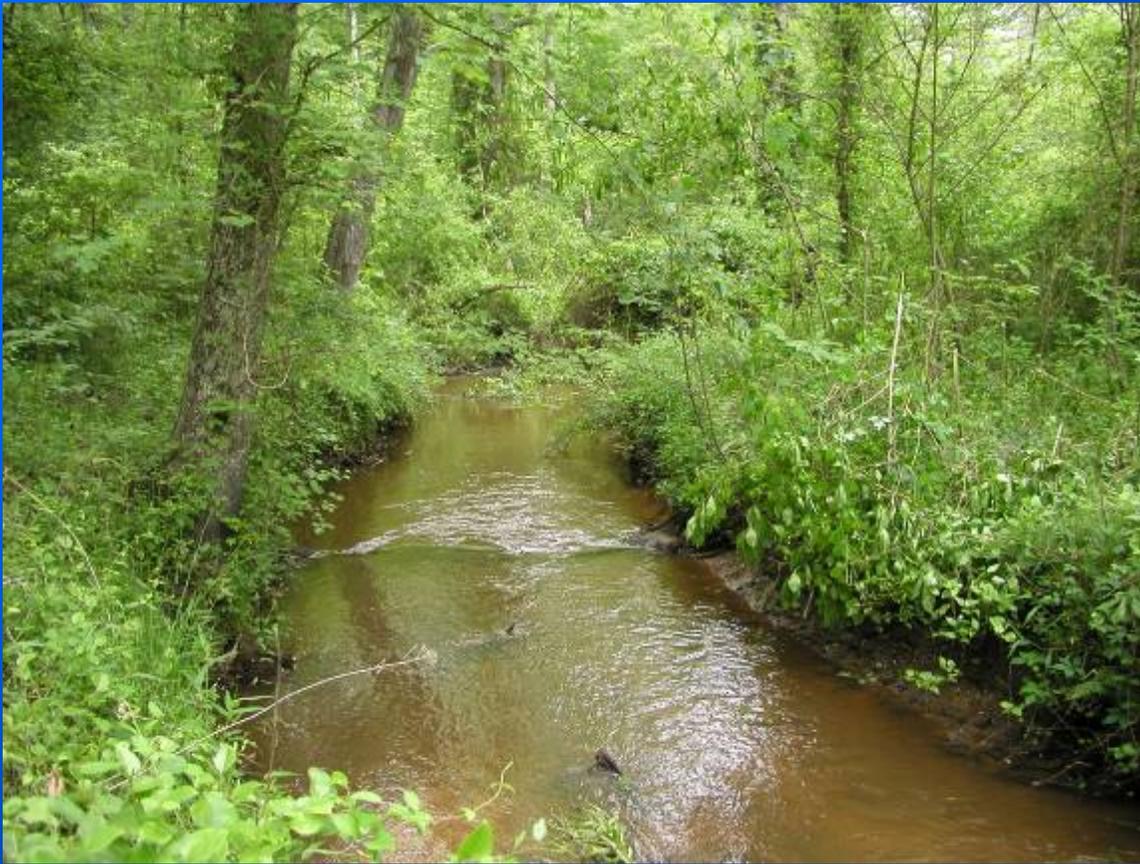
01674200

BF area	53.9
BF width	26.5
BF depth	2.0
Stream type	C4c

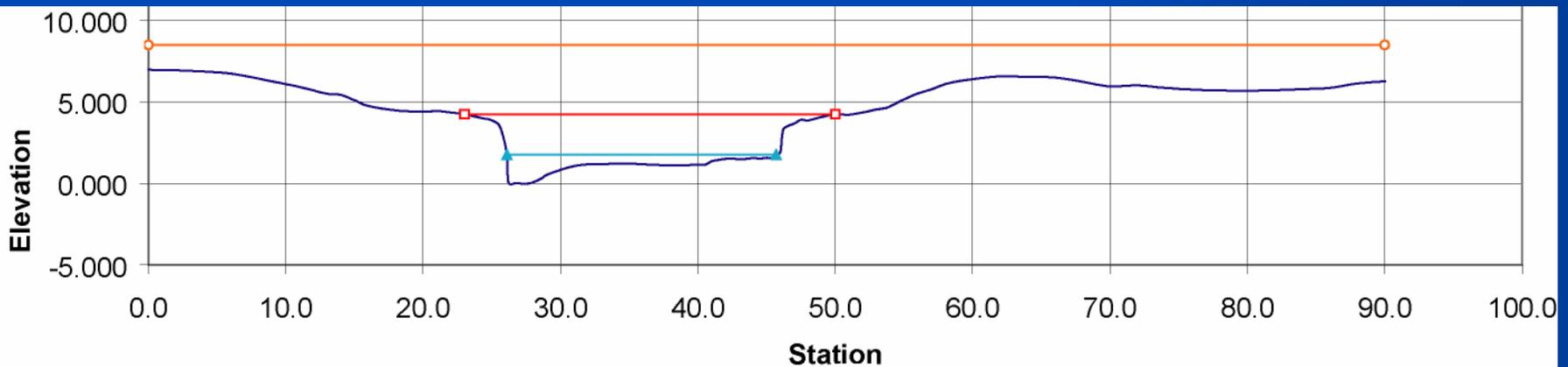


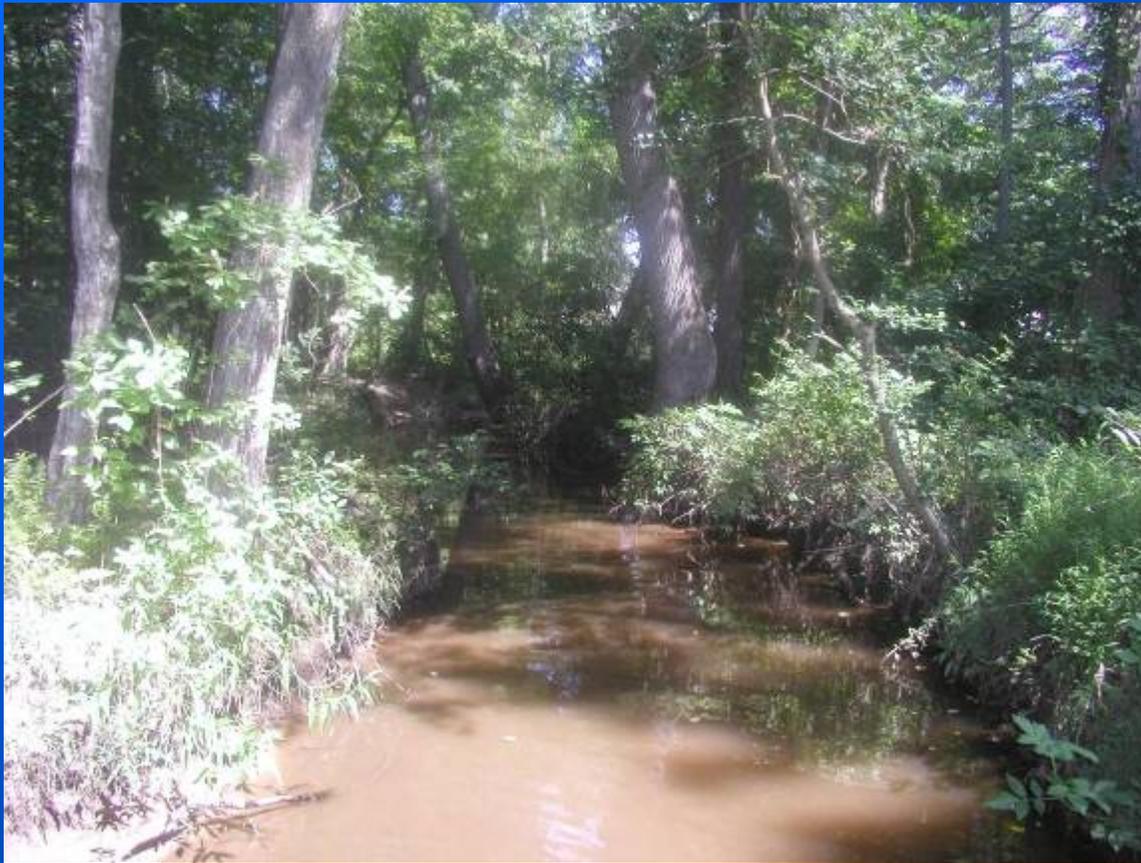
# Bush Mill Stream

01661800



BF area	65.2
BF width	27.0
BF depth	2.4
Stream type	E5

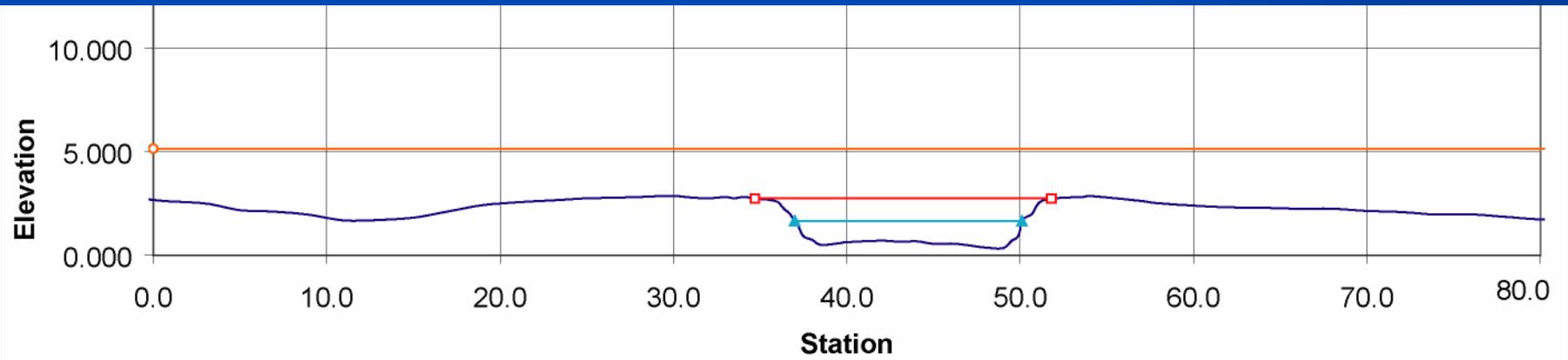


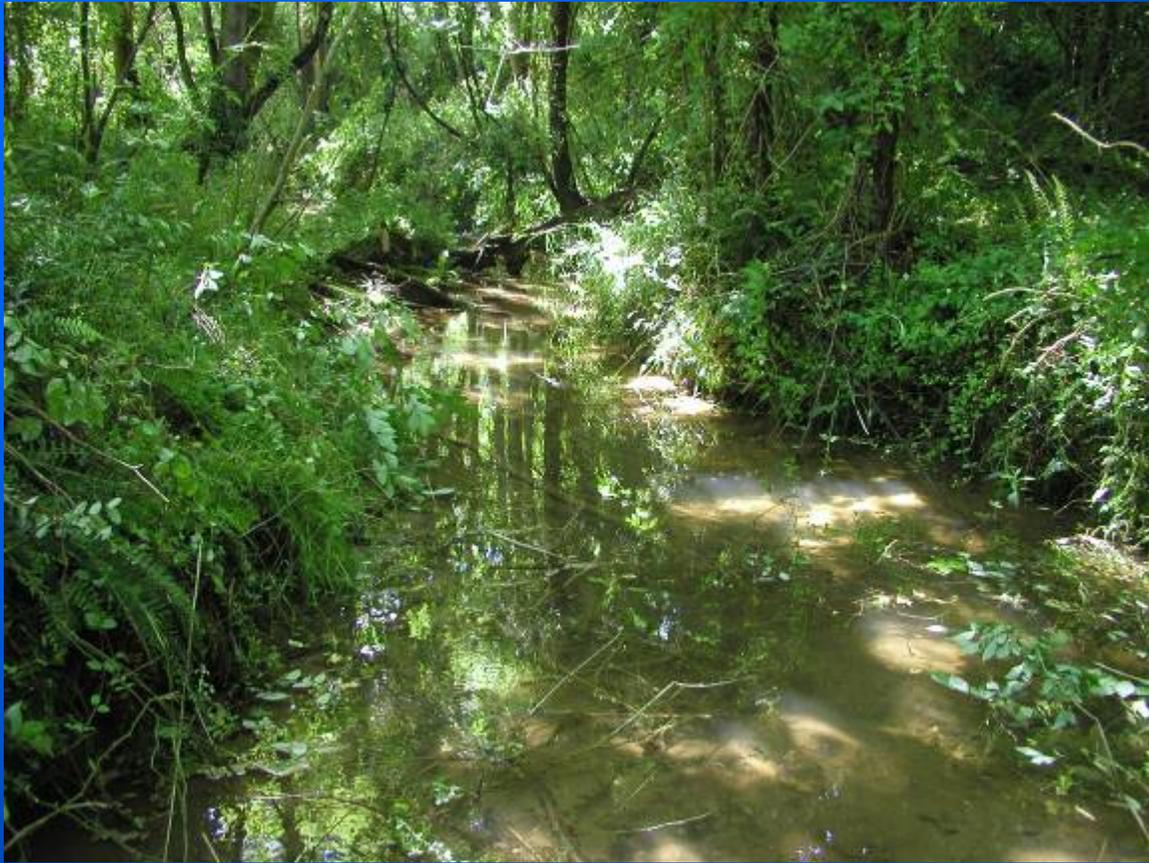


# Aylett Creek

01674700

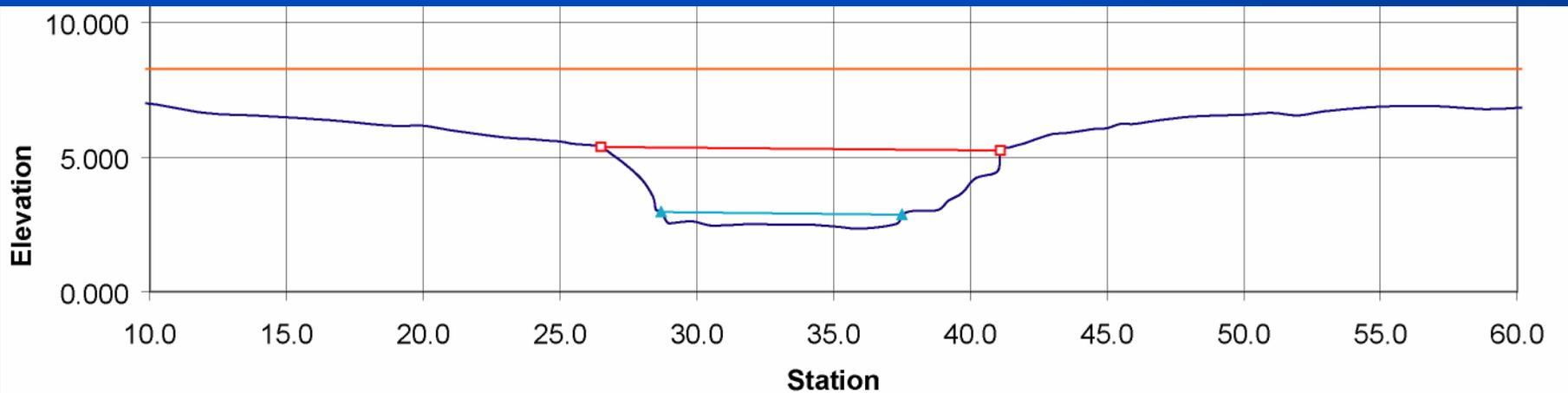
BF area	29.2
BF width	17.1
BF depth	1.7
Stream type	E5





# Bailey Branch Tributary 02042250

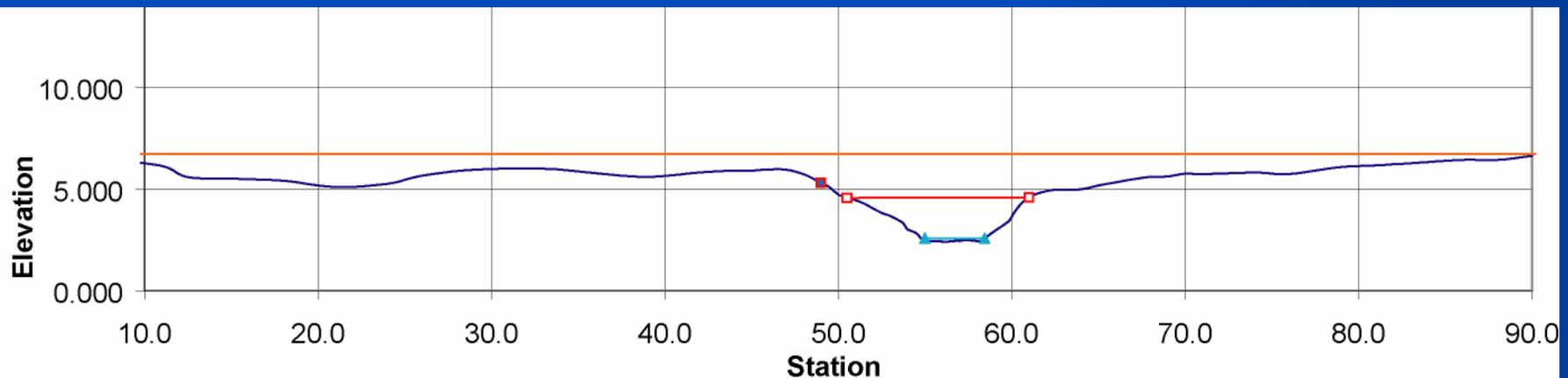
BF area	33.1
BF width	14.6
BF depth	2.3
Stream type	E4



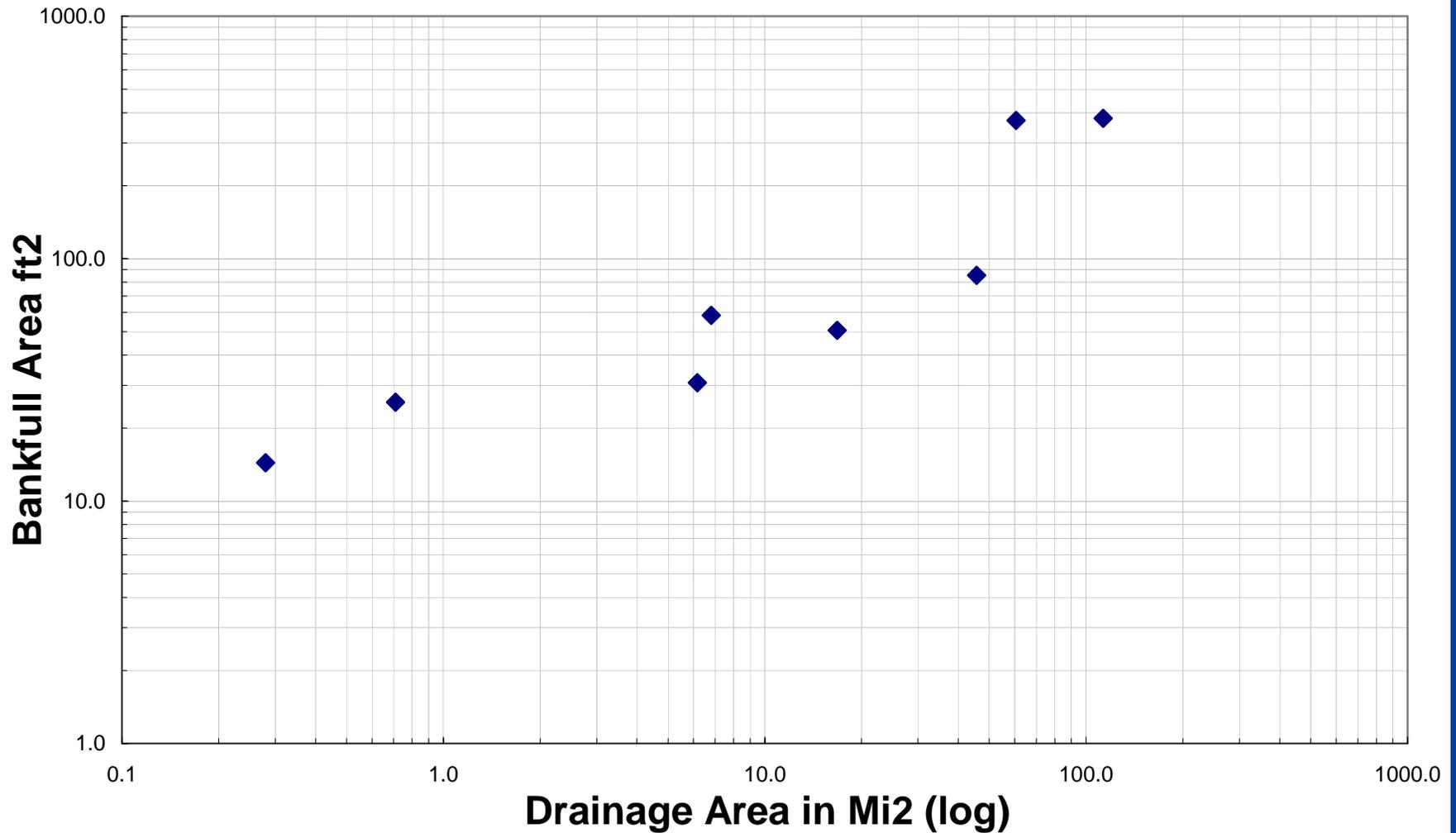


# Collins Run Tributary 02042710

BF area	14.1
BF width	10.5
BF depth	1.3
Stream type	E4



# Preliminary Data Plots



# Additional Sites

- Beaver Dam Branch at Houston, DE
- Blackwater River Tributary
- Cahoke Mill Creek

- Assistance?
- Questions?

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