



QRev Discharge Measurement Report

1 of 5

Station Name: 05202025_RockfordBridge

Station Number:

Measurement Date: 2025.05.20

Measurement Number: 0

Discharge: 473.0

Stage: 0.00

User Rating: Not Rated

Processed: 2025.05.27 11:14:04

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	473.0	Mean Velocity (ft/s):	1.922
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.271
Version:	4.36	Total Duration (s):	1384.8	Mean Depth (ft):	6.270
ADCP		Start Time:	16:49:11	Max. Depth (ft):	8.579
Manufacturer:	TRDI	End Time:	17:14:58	Width (ft):	39.325
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.74
Serial Number:	2673	Stage End:	0.00	Area (ft2):	246.620
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	4.38
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.186	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	12.588889	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.5 COV Systematic Moving-bed Extrap. Edges Invalid 0 20 40 60 Percent of Total	
W. Temp. ADCP (C):		Extrap Exponent:	0.2400		
System Test:	Passed	Discharg COV (%):	5.26		
Compass Cal/Eval:	0.12	Top Q (%):	6.49		
Magnetic Variaton:	13.5	Measured Q (%):	77.07		
MovBed Test Type:	Loop	Left Q (%):	1.26		
MovBed Test Quality:	Good	Right Q (%):	1.57		
MovBed Test Dur.(s):	254.0	Bottom Q (%):	13.61		
Max MovBed (%):	1.71	Invalid Cells Q (%):	-0.00		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.79		

Automated QA Messages:

WARNINGS

Cautions

- Site Info: Station number not entered;
- Edges: User modified right edge distance.

Comments:

- MMT Remarks:
- [Main, 2025-05-27 11:10:27, sarah]: There is no station number for this site. Hydrographer forgot to initially enter right edge distance on first transect. Right edge distance was modified for actual distance to right edge. During measurement, hydrographer had difficulty with repeatable transects that tends to be common at this site. Transects from left to right are consistently higher than transects from right to left. Uncertainty as to what is causing this issue, and there was no moving bed at this location. Cloudy and cool measurement conditions did not cause WT differences between independent and ADCP. Which is typically present when the ADCP is in the sun.
- [2025-05-27 11:13:56, sarah]: File Saved Q = 473.36 ft3/s (Uncertainty: 6.5%)



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ID	File Name
0	05202025_RockfordBridge_0_000_25-05-20.PD0
1	05202025_RockfordBridge_0_001_25-05-20.PD0
2	05202025_RockfordBridge_0_002_25-05-20.PD0
3	05202025_RockfordBridge_0_003_25-05-20.PD0
4	05202025_RockfordBridge_0_004_25-05-20.PD0
5	05202025_RockfordBridge_0_007_25-05-20.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft3/s)	Middle Q (ft3/s)	Bottom Q (ft3/s)	Left Q (ft3/s)	Right Q (ft3/s)	Total Q (ft3/s)
0	Left	16:49:11	16:52:27	195.7	32.6	386.0	64.0	5.86	8.65	497.0
1	Right	16:52:35	16:55:42	187.1	30.4	346.0	62.7	5.86	7.8	453.0
2	Left	16:55:50	16:59:37	226.8	31.6	381.0	63.6	6.28	6.49	489.0
3	Right	16:59:47	17:03:13	206.6	28.1	336.0	60.0	6.82	6.19	437.0
4	Left	17:03:44	17:07:54	250.6	32.6	383.0	67.3	5.99	7.87	496.0
5	Right	17:14:58	17:20:16	318.0	29.2	357.0	69.0	4.83	7.69	468.0
				1384.8	30.7	365.0	64.4	5.94	7.45	473.0

Transect ID	Start Edge	Left Edge Type	Left Dist. (ft)	Left Edge # Ens.	Left Edge Coeff.	Right Edge Type	Right Dist (ft)	Right Edge # Ens.	Right Edge Coeff.
0	Left	Triangular	0.91	10	0.3535	Triangular	1.07	10	0.3535
1	Right	Triangular	0.91	10	0.3535	Triangular	1.07	10	0.3535
2	Left	Triangular	0.91	10	0.3535	Triangular	1.07	10	0.3535
3	Right	Triangular	0.91	10	0.3535	Triangular	1.07	10	0.3535
4	Left	Triangular	0.91	10	0.3535	Triangular	1.07	10	0.3535
5	Right	Triangular	0.91	10	0.3535	Triangular	1.07	10	0.3535



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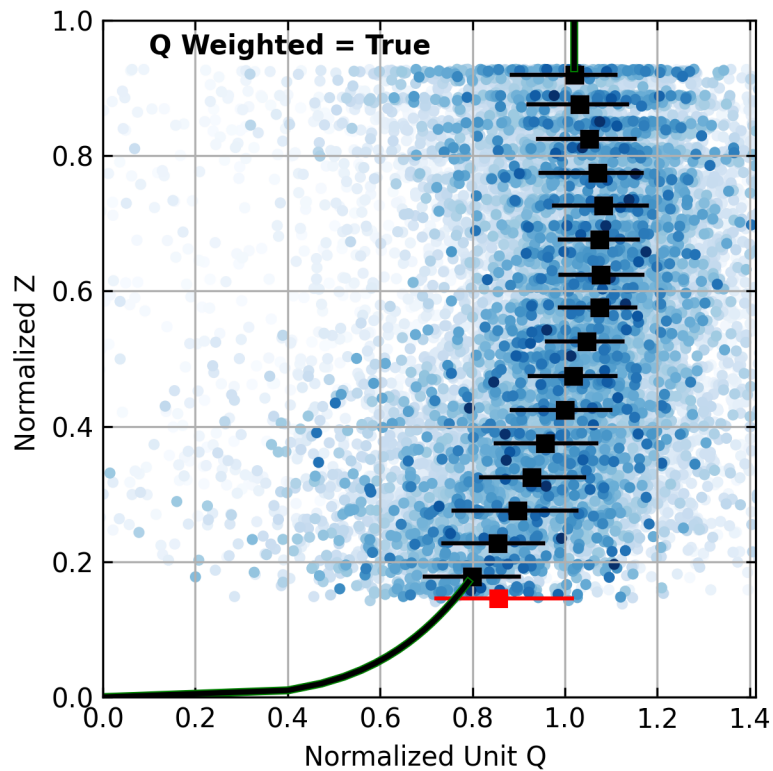
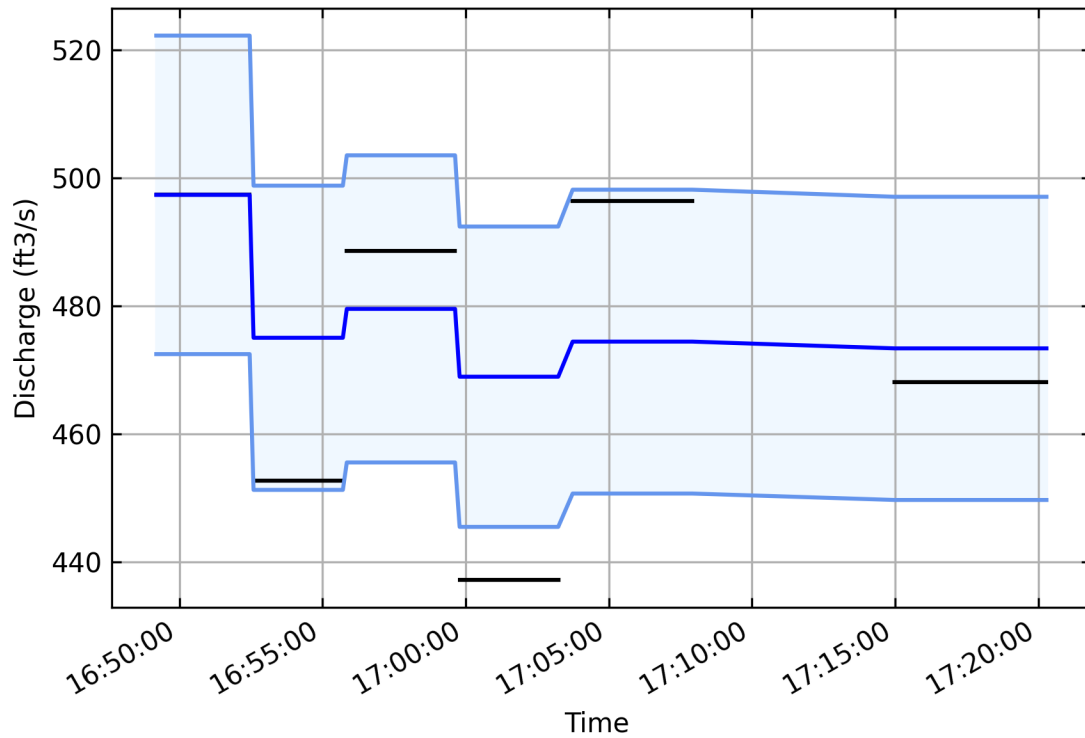
Measurement Number: 0

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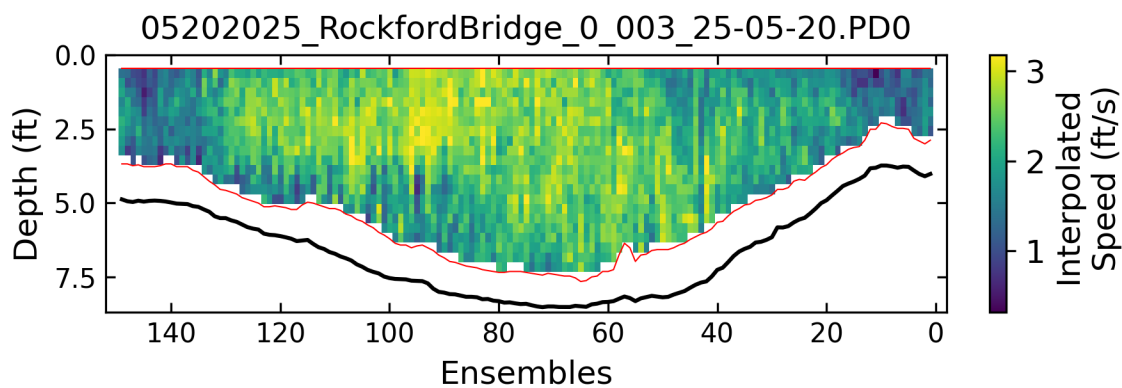
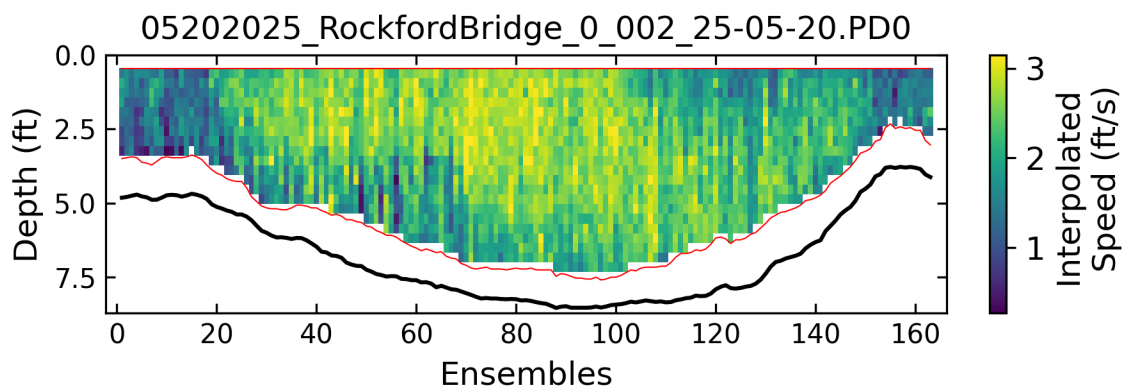
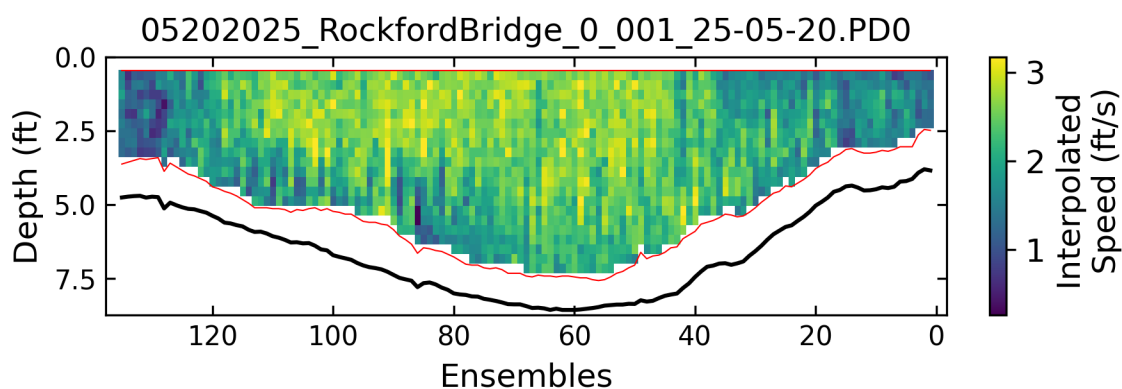
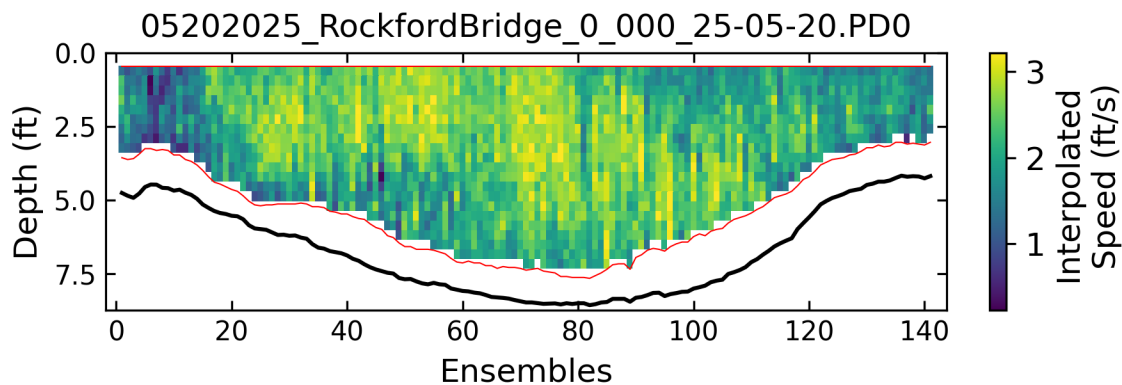
Measurement Number: 0

Discharge: 473.0

Stage: 0.00

User Rating: Not Rated

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