



QRev Discharge Measurement Report

1 of 5

Station Name: RockfordBridge_06042025

Station Number:

Measurement Date: 2025.06.04

Measurement Number: 0

Discharge: 477.82

Stage: 0.00

User Rating: Not Rated

Processed: 2025.06.06 08:32:21

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	477.82	Mean Velocity (ft/s):	1.933														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.264														
Version:	4.37	Total Duration (s):	1743.5	Mean Depth (ft):	6.286														
ADCP		Start Time:	13:37:19	Max. Depth (ft):	8.810														
Manufacturer:	TRDI	End Time:	14:15:07	Width (ft):	39.327														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.22														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	247.175														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.14														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.194	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	14.7	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.7 <table><tr><th>Component</th><th>Percent of Total</th></tr><tr><td>COV</td><td>5.7</td></tr><tr><td>Systematic</td><td>2.5</td></tr><tr><td>Extrap.</td><td>1.0</td></tr><tr><td>Moving-bed</td><td>0.5</td></tr><tr><td>Edges</td><td>0.5</td></tr><tr><td>Invalid</td><td>0.5</td></tr></table>		Component	Percent of Total	COV	5.7	Systematic	2.5	Extrap.	1.0	Moving-bed	0.5	Edges	0.5	Invalid	0.5
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Edges	0.5																		
Invalid	0.5																		
W. Temp. ADCP (C):		Extrap Exponent:	0.3037																
System Test:	Passed	Discharg COV (%):	5.15																
Compass Cal/Eval:	0.88	Top Q (%):	6.31																
Magnetic Variaton:	13.5	Measured Q (%):	77.31																
MovBed Test Type:	Loop	Left Q (%):	1.41																
MovBed Test Quality:	Good	Right Q (%):	1.81																
MovBed Test Dur.(s):	245.4	Bottom Q (%):	13.16																
Max MovBed (%):	1.52	Invalid Cells Q (%):	0.00																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.09																

Automated QA Messages:

WARNINGS

Cautions

- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-06-06 08:28:54, sarah]: There is no station number for this location. Measurement conditions were sunny and warm (mid-70s), ADCP took around 40 minutes to equilibrate to independent temperature. Consistent with previous measurements at this site, transects from left to right are typically higher than right to left. No moving bed recorded at this site this time. Some unwanted boat movement occurred on right side due to slow moving water.
- [2025-06-06 08:32:13, sarah]: File Saved Q = 477.82 ft3/s (Uncertainty: 5.7%)

ID File Name

0 RockfordBridge_06042025_0_000_25-06-04.PDO



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ID	File Name
1	RockfordBridge_06042025_0_001_25-06-04.PD0
2	RockfordBridge_06042025_0_004_25-06-04.PD0
3	RockfordBridge_06042025_0_005_25-06-04.PD0
4	RockfordBridge_06042025_0_006_25-06-04.PD0
5	RockfordBridge_06042025_0_007_25-06-04.PD0
6	RockfordBridge_06042025_0_008_25-06-04.PD0
7	RockfordBridge_06042025_0_009_25-06-04.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	13:37:19	13:40:46	206.7	31.23	374.12	60.96	7.4	10.31	484.03
1	Right	13:41:10	13:44:32	201.5	27.54	342.09	60.75	7.76	9.4	447.54
2	Left	13:53:20	13:57:18	238.0	30.89	374.8	65.72	7.55	7.26	486.22
3	Right	13:57:58	14:01:33	215.0	28.48	357.47	63.24	7.04	8.86	465.08
4	Left	14:02:22	14:05:50	208.6	33.91	402.57	66.86	5.34	6.36	515.03
5	Right	14:06:10	14:09:50	219.1	28.24	342.6	58.7	6.65	7.95	444.14
6	Left	14:10:58	14:14:50	232.0	30.85	389.68	64.05	6.24	9.95	500.77
7	Right	14:15:07	14:18:49	222.6	30.24	371.86	62.86	5.79	9.02	479.77
				1743.5	30.17	369.4	62.89	6.72	8.64	477.82

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	3.00	10	0.3535	Triangular	4.00	10	0.3535
1	Right	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535
2	Left	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535
3	Right	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535
4	Left	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535
5	Right	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535
6	Left	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535
7	Right	Triangular	3.00	10	0.3535	Triangular	4.00	10	0.3535



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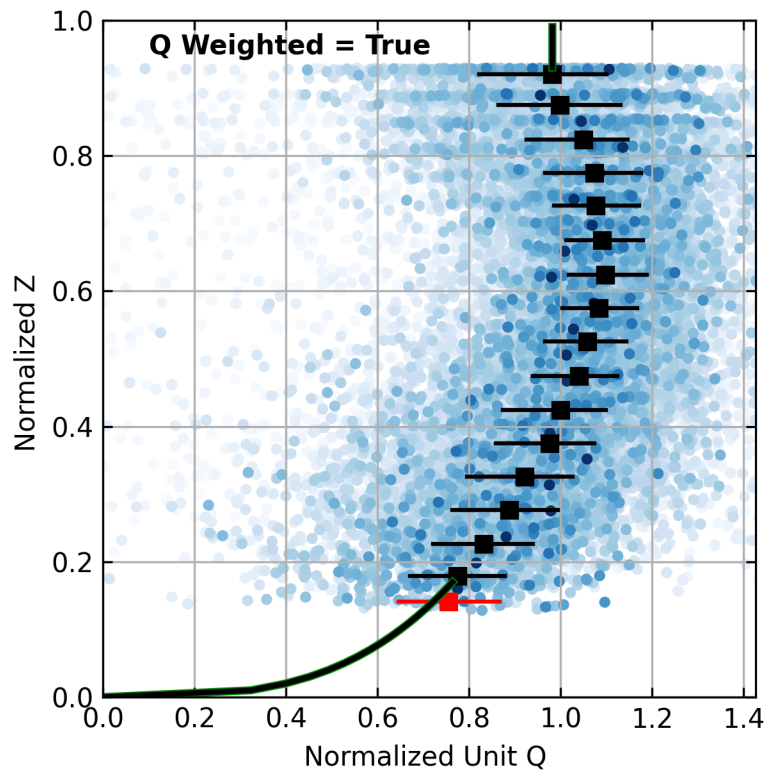
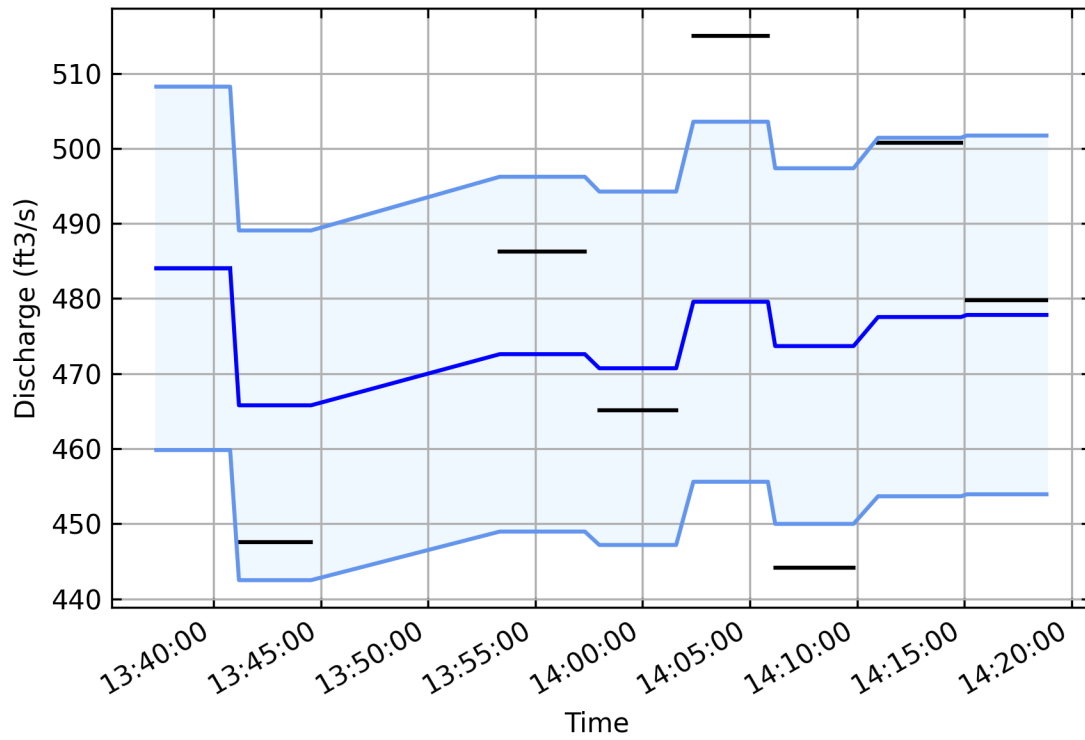
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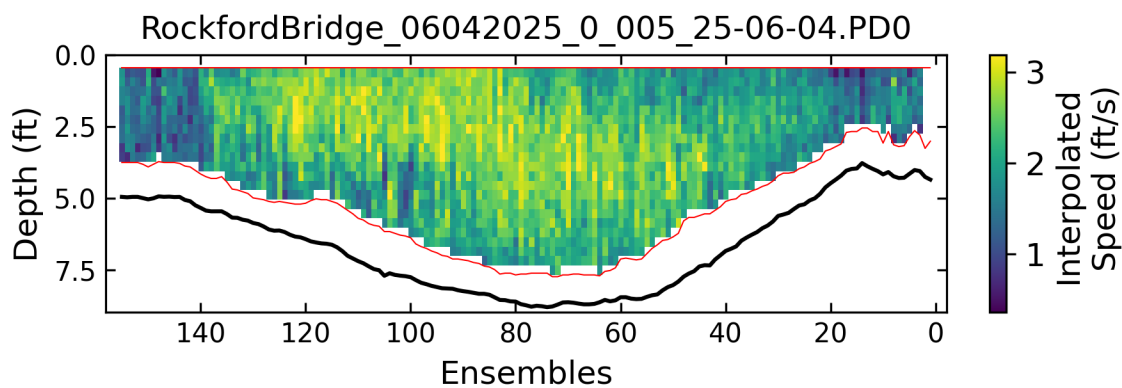
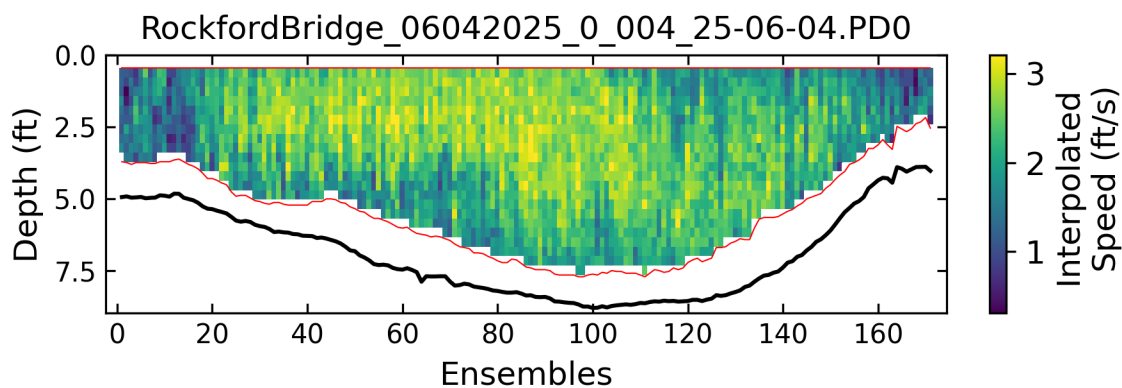
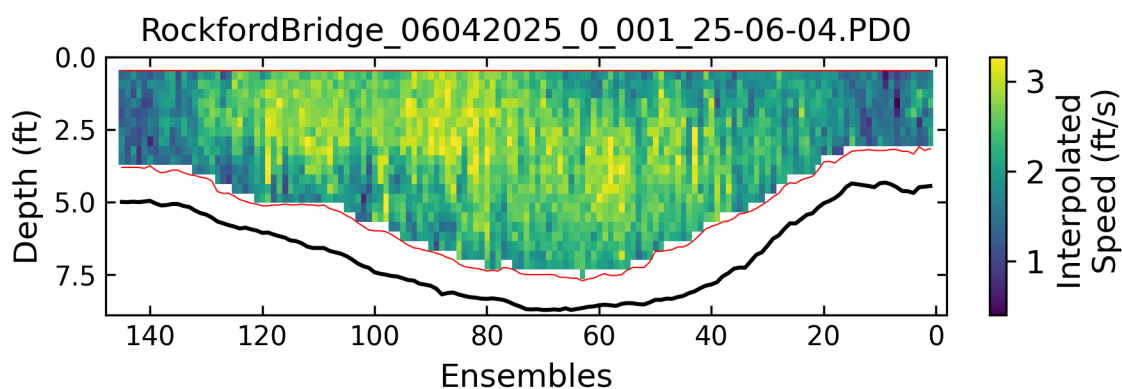
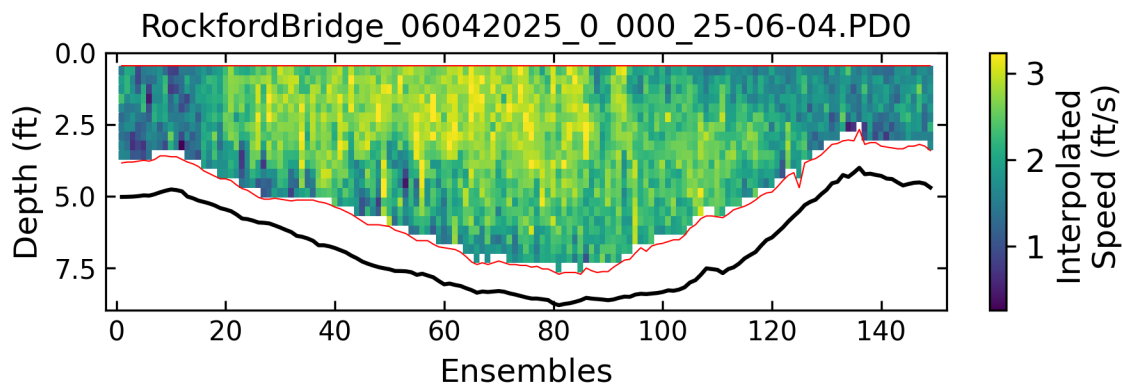
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