



QRev Discharge Measurement Report

1 of 5

Station Name: 07082025_S4Remauli

Station Number:

Measurement Date: 2025.07.08

Measurement Number: 0

Discharge: 136.92

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.17 16:23:24

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	136.92	Mean Velocity (ft/s):	1.838														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.543														
Version:	4.37	Total Duration (s):	1216.5	Mean Depth (ft):	2.951														
ADCP		Start Time:	16:24:32	Max. Depth (ft):	4.408														
Manufacturer:	TRDI	End Time:	16:42:44	Width (ft):	25.246														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.31														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	74.487														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.49														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.137	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	23.622222	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.2 <table><caption>Uncertainty Components</caption><tr><th>Component</th><th>Value (%)</th></tr><tr><td>COV</td><td>5.2</td></tr><tr><td>Systematic</td><td>3.3</td></tr><tr><td>Extrap.</td><td>1.2</td></tr><tr><td>Moving-bed</td><td>1.1</td></tr><tr><td>Edges</td><td>0.9</td></tr><tr><td>Invalid</td><td>0.0</td></tr></table>		Component	Value (%)	COV	5.2	Systematic	3.3	Extrap.	1.2	Moving-bed	1.1	Edges	0.9	Invalid	0.0
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Moving-bed	1.1																		
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Invalid	0.0																		
W. Temp. ADCP (C):		Extrap Exponent:	0.2768																
System Test:	Passed	Discharg COV (%):	3.58																
Compass Cal/Eval:	0.46	Top Q (%):	10.30																
Magnetic Variaton:	13.5	Measured Q (%):	73.20																
MovBed Test Type:	Loop	Left Q (%):	1.27																
MovBed Test Quality:	Good	Right Q (%):	1.18																
MovBed Test Dur.(s):	215.5	Bottom Q (%):	14.05																
Max MovBed (%):	0.95	Invalid Cells Q (%):	0.07																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.88																

Automated QA Messages:

WARNINGS

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-07-17 16:18:08, ADCPH]: There is no station number for this site. Measurement conditions were sunny and hot, high 80s and low 90s F. ADCP WT was equilibrated in the shade of the bridge and was in range of independent WT. During measurement, some eddies created by the bridge supports caused unwanted boat movement near the edges that could not be avoided. Currents in the center of the channel tended to pull and release the boat, resulting in some unwanted movement on the ADCP ship track.
- [2025-07-17 16:23:17, ADCPH]: File Saved Q = 136.92 ft3/s (Uncertainty: 5.2%)



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2 of 5

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ID	File Name
0	07082025_S4Remauli_0_000_25-07-08.PD0
1	07082025_S4Remauli_0_001_25-07-08.PD0
2	07082025_S4Remauli_0_002_25-07-08.PD0
3	07082025_S4Remauli_0_003_25-07-08.PD0
4	07082025_S4Remauli_0_004_25-07-08.PD0
5	07082025_S4Remauli_0_005_25-07-08.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	16:24:32	16:27:46	193.2	15.12	102.23	19.91	1.65	1.79	140.7
1	Right	16:27:59	16:31:40	221.0	13.03	93.49	17.23	2.36	1.78	127.89
2	Left	16:31:59	16:35:18	198.6	14.37	103.25	20.15	1.51	1.6	140.89
3	Right	16:35:25	16:38:47	202.0	14.01	101.12	19.62	1.62	1.52	137.9
4	Left	16:39:11	16:42:32	200.5	13.78	99.18	18.75	1.88	1.53	135.12
5	Right	16:42:44	16:46:05	201.2	14.28	102.07	19.74	1.43	1.5	139.03
				1216.5	14.1	100.22	19.23	1.74	1.62	136.92

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	2.00	10	0.3535
1	Right	Triangular	3.00	10	0.3535	Triangular	2.00	10	0.3535
2	Left	Triangular	3.00	10	0.3535	Triangular	2.00	10	0.3535
3	Right	Triangular	3.00	10	0.3535	Triangular	2.00	10	0.3535
4	Left	Triangular	3.00	10	0.3535	Triangular	2.00	10	0.3535
5	Right	Triangular	3.00	10	0.3535	Triangular	2.00	10	0.3535



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3 of 5

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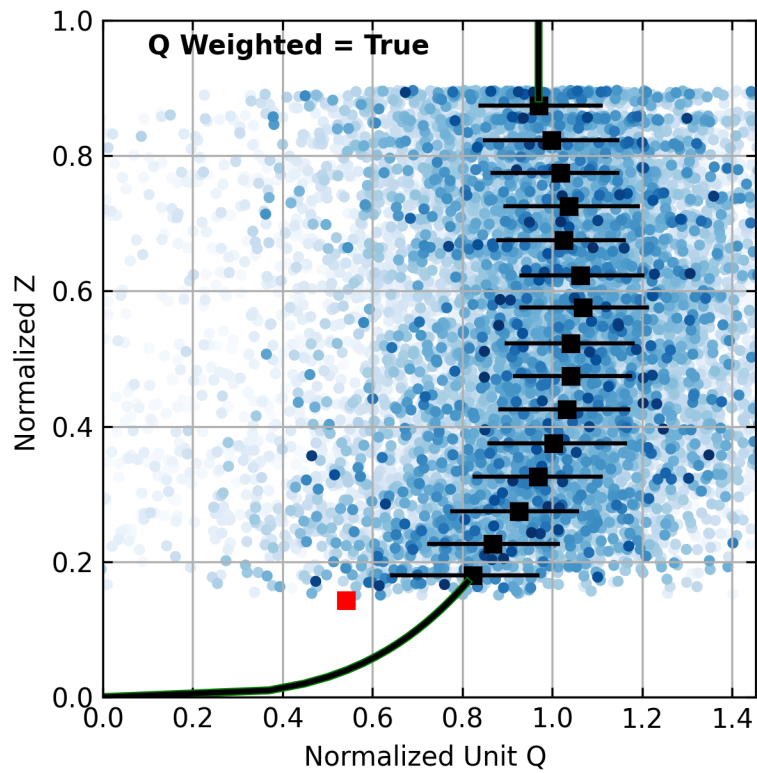
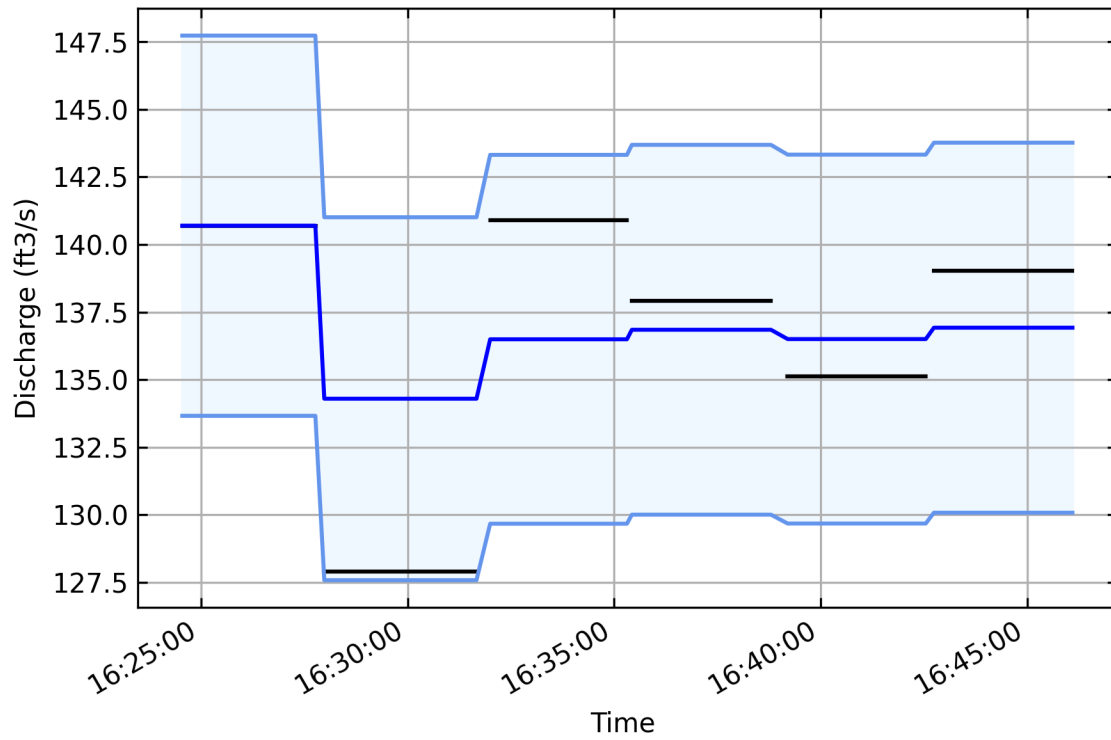
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4 of 5

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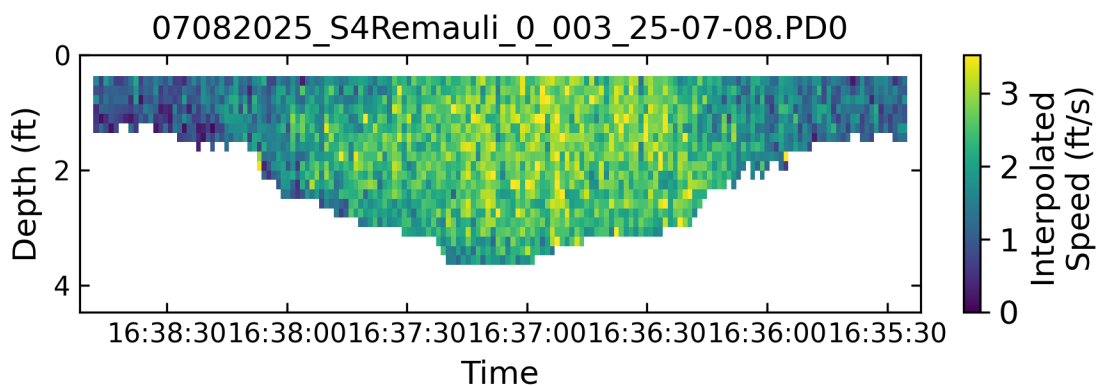
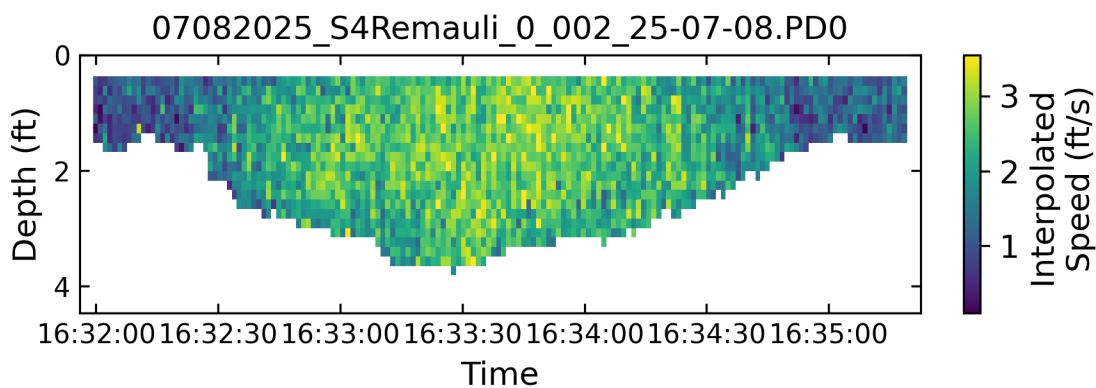
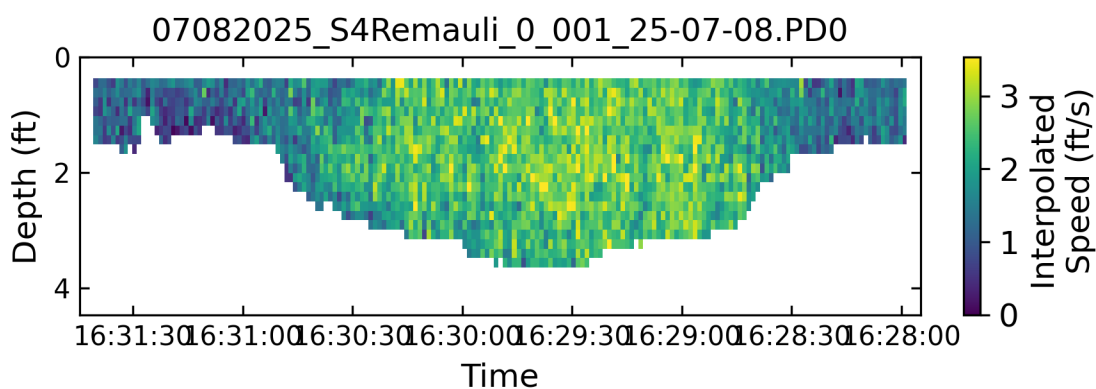
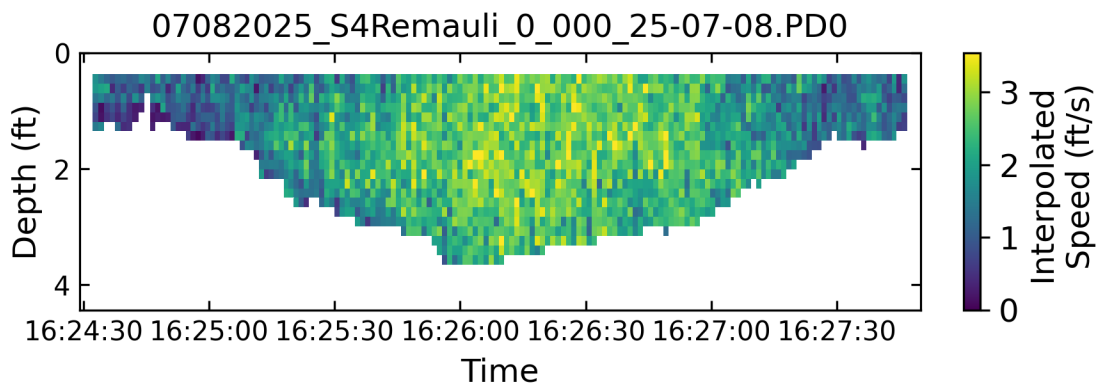
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