



QRev Discharge Measurement Report

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Station Name: S4Remauli_06032025

Station Number:

Measurement Date: 2025.06.03

Measurement Number: 0

Discharge: 546.54

Stage: 0.00

User Rating: Not Rated

Processed: 2025.06.06 08:26:22

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	546.54	Mean Velocity (ft/s):	2.488														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	4.101														
Version:	4.37	Total Duration (s):	1134.5	Mean Depth (ft):	7.029														
ADCP		Start Time:	16:19:01	Max. Depth (ft):	9.025														
Manufacturer:	TRDI	End Time:	16:40:47	Width (ft):	31.271														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.19														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	219.866														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	5.22														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.195	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	14.577778	Bottom Extrap:	No Slip	95% Total Uncertainty: 7.6 <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>70</td></tr><tr><td>Systematic</td><td>20</td></tr><tr><td>Edges</td><td>5</td></tr><tr><td>Moving-bed</td><td>5</td></tr><tr><td>Invalid</td><td>5</td></tr><tr><td>Extrap.</td><td>5</td></tr></tbody></table>		Component	Percent of Total	COV	70	Systematic	20	Edges	5	Moving-bed	5	Invalid	5	Extrap.	5
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COV	70																		
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Edges	5																		
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Invalid	5																		
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W. Temp. ADCP (C):		Extrap Exponent:	0.1894																
System Test:	Passed	Discharg COV (%):	6.30																
Compass Cal/Eval:	1.68	Top Q (%):	4.22																
Magnetic Variaton:	13.5	Measured Q (%):	73.37																
MovBed Test Type:	Loop	Left Q (%):	2.53																
MovBed Test Quality:	Good	Right Q (%):	2.74																
MovBed Test Dur.(s):	228.1	Bottom Q (%):	14.80																
Max MovBed (%):	2.01	Invalid Cells Q (%):	-0.01																
Q Correction (%):	2.39	Invalid Ensembles Q (%):	2.10																

Automated QA Messages:

WARNINGS

Cautions

- bt-Int. Q for consecutive invalid ensembles exceeds 3.0%;
- Compass: Evaluation result > 1 deg;
- Moving-Bed Test: A moving-bed is present.
- Moving-Bed: BT based moving-bed correction applied.
- Moving-Bed Test: Loop test used but compass calibration is caution
- Transects: ['S4Remauli_06032025_0_000_25-06-03', 'S4Remauli_06032025_0_002_25-06-03', 'S4Remauli_06032025_0_003_25-06-03', 'S4Remauli_06032025_0_004_25-06-03', 'S4Remauli_06032025_0_005_25-06-03', 'S4Remauli_06032025_0_007_25-06-03'] have battery voltage less than 10.5
- Site Info: Station number not entered;



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Comments:

- MMT Remarks:
- [Main, 2025-06-06 08:20:36, sarah]: There is no station number for this site. The metric used for compass calibration is less than 2 degrees. The moving bed test indicated a moving bed present and a correction was applied. BT loss in one of the transects is ~4.5%, hydrographer assumed in field that the amount of loss was less than 3% and did not retake transect. Measurement conditions had very slow moving water at both edges, along with occasional wind caused some unwanted boat movement in these areas of the channel. Weather was sunny and warm, no issues between ADCP and independent WT.
- [2025-06-06 08:26:16, sarah]: File Saved Q = 546.54 ft³/s (Uncertainty: 7.6%)

ID	File Name
0	S4Remauli_06032025_0_000_25-06-03.PD0
2	S4Remauli_06032025_0_002_25-06-03.PD0
3	S4Remauli_06032025_0_003_25-06-03.PD0
4	S4Remauli_06032025_0_004_25-06-03.PD0
5	S4Remauli_06032025_0_005_25-06-03.PD0
7	S4Remauli_06032025_0_007_25-06-03.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft ³ /s)	Middle Q (ft ³ /s)	Bottom Q (ft ³ /s)	Left Q (ft ³ /s)	Right Q (ft ³ /s)	Total Q (ft ³ /s)
0	Left	16:19:01	16:22:00	179.6	22.46	398.17	85.03	14.14	12.38	546.05
2	Right	16:23:20	16:26:37	196.3	23.57	408.95	81.07	12.02	14.77	553.06
3	Left	16:26:56	16:30:01	185.1	24.02	404.08	75.86	15.43	18.36	549.01
4	Right	16:30:22	16:33:26	183.7	23.63	411.94	82.26	15.06	15.3	557.4
5	Left	16:33:45	16:36:49	183.6	24.77	434.85	88.08	12.54	15.46	589.64
7	Right	16:40:47	16:44:13	206.2	19.89	347.92	73.09	13.89	13.72	484.11
				1134.5	23.06	400.99	80.9	13.85	15.0	546.54

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	4.00	10	0.3535	Triangular	3.50	10	0.3535
2	Right	Triangular	3.50	10	0.3535	Triangular	4.00	10	0.3535
3	Left	Triangular	3.50	10	0.3535	Triangular	4.00	10	0.3535
4	Right	Triangular	3.50	10	0.3535	Triangular	4.00	10	0.3535
5	Left	Triangular	3.50	10	0.3535	Triangular	4.00	10	0.3535
7	Right	Triangular	4.00	10	0.3535	Triangular	3.50	10	0.3535



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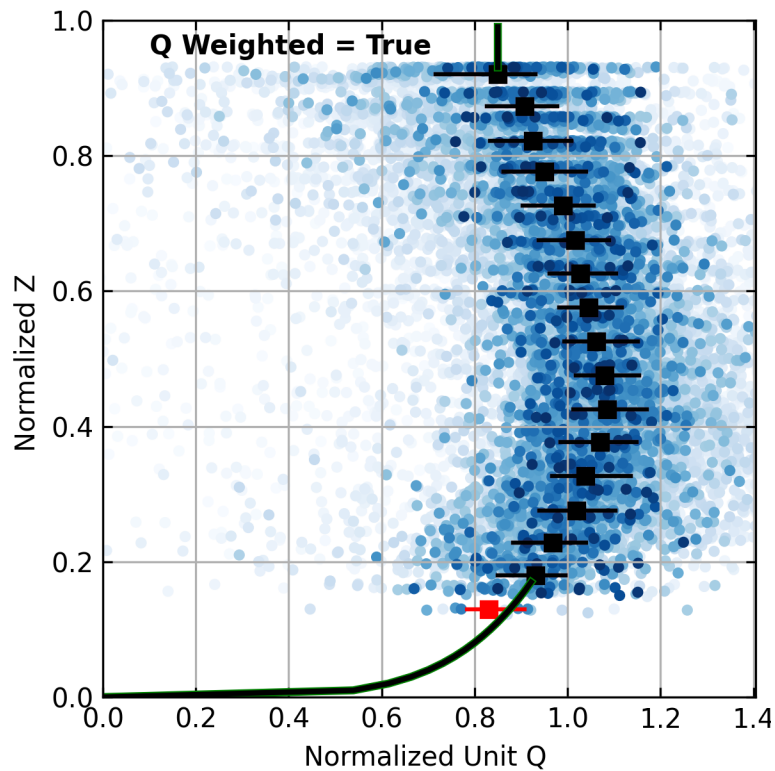
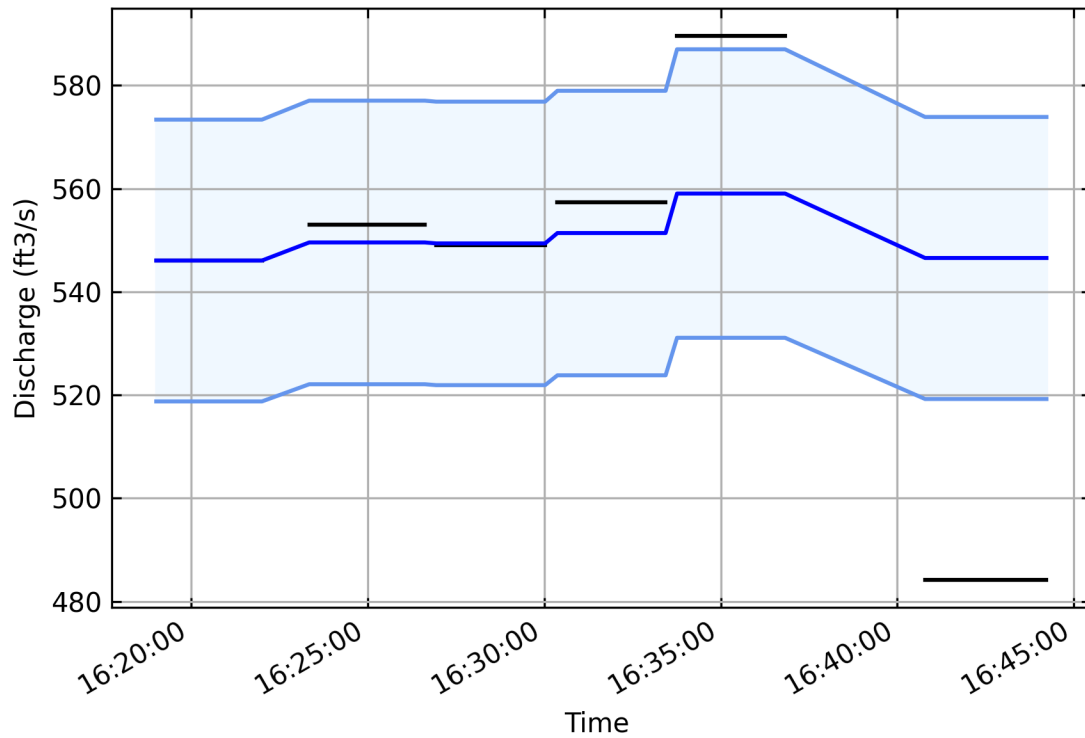
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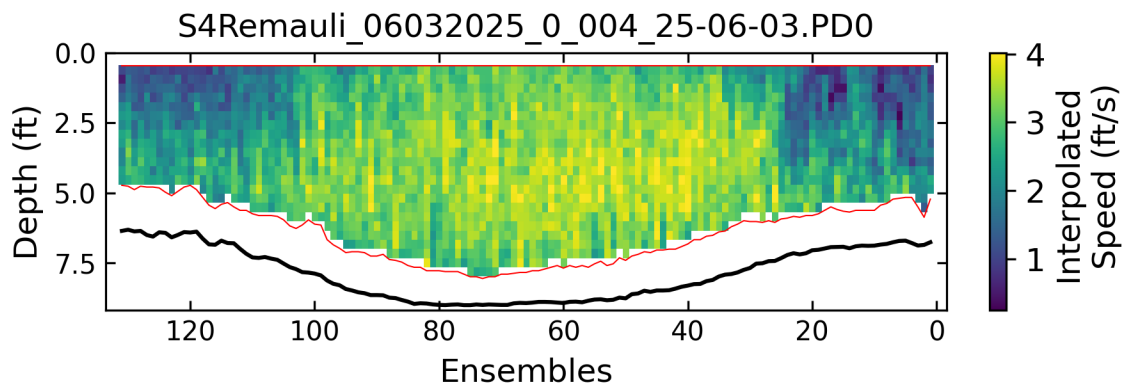
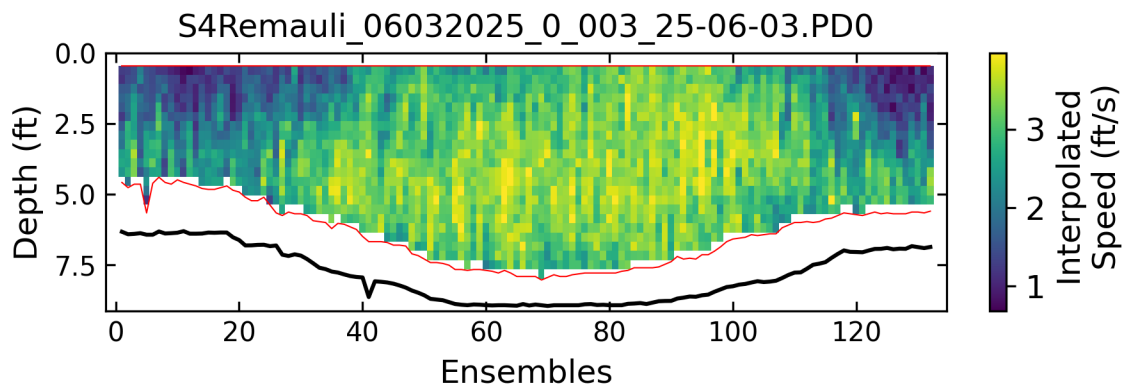
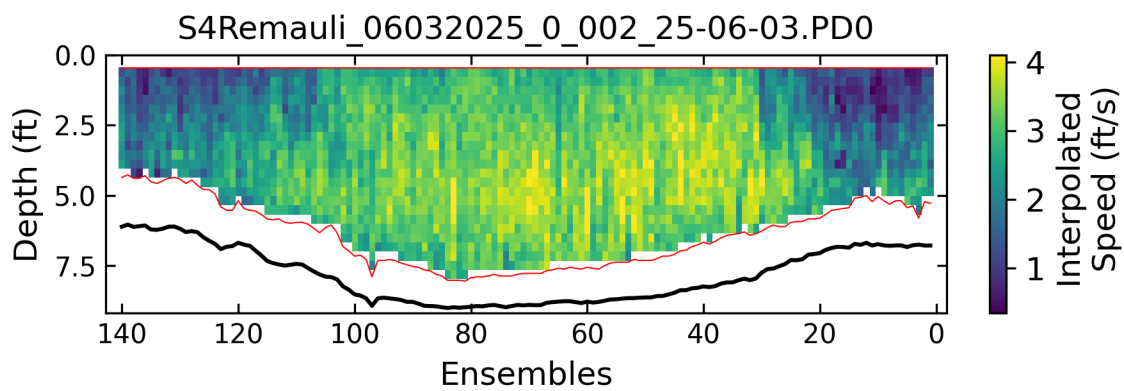
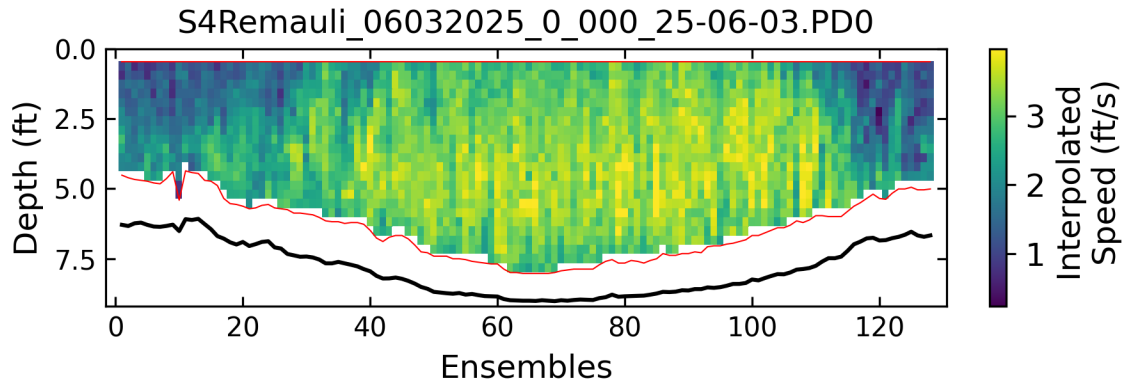
Measurement Number: 0

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