



QRev Discharge Measurement Report

1 of 5

Station Name: 08202025_S4Remauli

Station Number:

Measurement Date: 2025.08.20

Measurement Number: 0

Discharge: 75.46

Stage: 0.00

User Rating: Not Rated

Processed: 2025.08.21 13:27:34

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	75.46	Mean Velocity (ft/s):	1.556														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.344														
Version:	4.37	Total Duration (s):	1323.6	Mean Depth (ft):	2.088														
ADCP		Start Time:	14:28:04	Max. Depth (ft):	3.325														
Manufacturer:	TRDI	End Time:	14:58:30	Width (ft):	23.242														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.74														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	48.525														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	4.11														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.120	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	20.15	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.3 <table><tr><th>Component</th><th>Value (%)</th></tr><tr><td>COV</td><td>4.11</td></tr><tr><td>Extrap.</td><td>3.74</td></tr><tr><td>Systematic</td><td>2.09</td></tr><tr><td>Moving-bed</td><td>0.12</td></tr><tr><td>Edges</td><td>0.12</td></tr><tr><td>Invalid</td><td>0.02</td></tr></table>		Component	Value (%)	COV	4.11	Extrap.	3.74	Systematic	2.09	Moving-bed	0.12	Edges	0.12	Invalid	0.02
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W. Temp. ADCP (C):		Extrap Exponent:	0.4472																
System Test:	Passed	Discharg COV (%):	3.98																
Compass Cal/Eval:	0.67	Top Q (%):	14.69																
Magnetic Variaton:	0.0	Measured Q (%):	69.22																
MovBed Test Type:	Loop	Left Q (%):	1.32																
MovBed Test Quality:	Good	Right Q (%):	1.23																
MovBed Test Dur.(s):	194.9	Bottom Q (%):	13.54																
Max MovBed (%):	0.65	Invalid Cells Q (%):	0.02																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	2.78																

Automated QA Messages:

WARNINGS

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Transects: ['08202025_S4Remauli_0_008_25-08-20', '08202025_S4Remauli_0_009_25-08-20'] have battery voltage less than 10.5
- Site Info: Station number not entered;

Comments:

- MMT Remarks:



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Comments:

- [Main, 2025-08-21 13:13:05, ADCPH]: There is no station number for this location. As in previous measurements at this location, water currents are complex, causing pulling and pushing on the boat resulting in unwanted boat movements. This was particularly apparent on both edges during this measurement, with one transect edge having excessive movement that was unavoidable. This unwanted boat movement and complex water flow directions on edges likely effected the extrapolation. During measurement, user noticed random and transient BT loss that was not the result of debris in the channel. This may have been caused by small fish interrupting the sensor, which has occurred at other sites. Measurement conditions were sunny and hot (mid 80s F), with some northerly wind.
- [2025-08-21 13:27:28, ADCPH]: File Saved Q = 75.46 ft3/s (Uncertainty: 6.3%)

ID	File Name
0	08202025_S4Remauli_0_001_25-08-20.PD0
1	08202025_S4Remauli_0_004_25-08-20.PD0
2	08202025_S4Remauli_0_006_25-08-20.PD0
3	08202025_S4Remauli_0_007_25-08-20.PD0
4	08202025_S4Remauli_0_008_25-08-20.PD0
5	08202025_S4Remauli_0_009_25-08-20.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	14:28:04	14:31:55	231.3	11.2	50.45	10.26	0.75	1.17	73.83
1	Right	14:39:54	14:43:27	213.0	10.75	53.8	10.1	0.89	1.09	76.63
2	Left	14:45:45	14:49:07	201.1	11.0	49.55	9.25	0.9	0.73	71.42
3	Right	14:49:14	14:53:47	273.4	10.19	50.82	9.64	2.01	0.84	73.5
4	Left	14:54:41	14:57:46	184.3	12.0	54.89	10.52	0.62	0.77	78.8
5	Right	14:58:30	15:02:11	220.5	11.38	53.91	11.54	0.79	0.96	78.59
				1323.6	11.09	52.24	10.22	1.0	0.93	75.46

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



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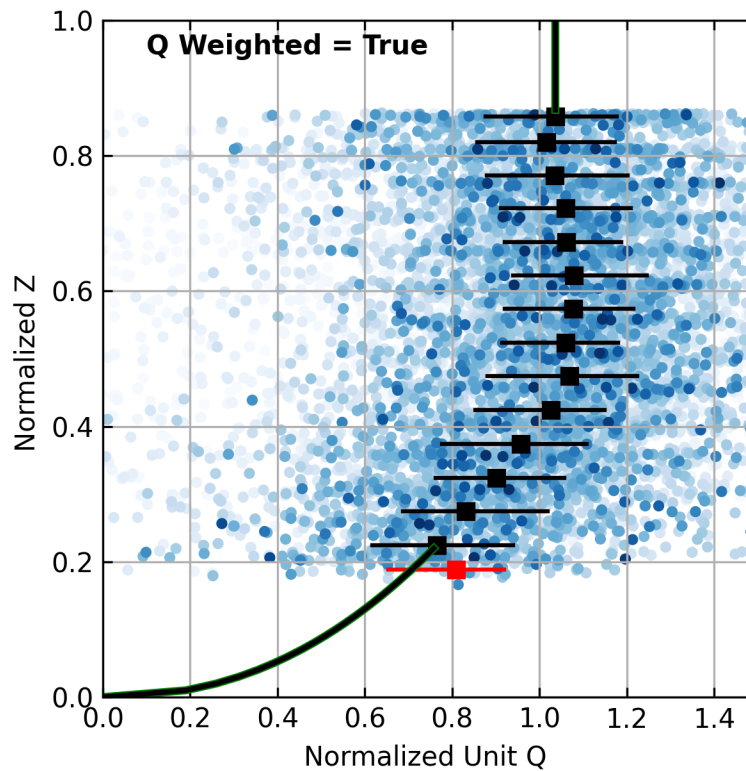
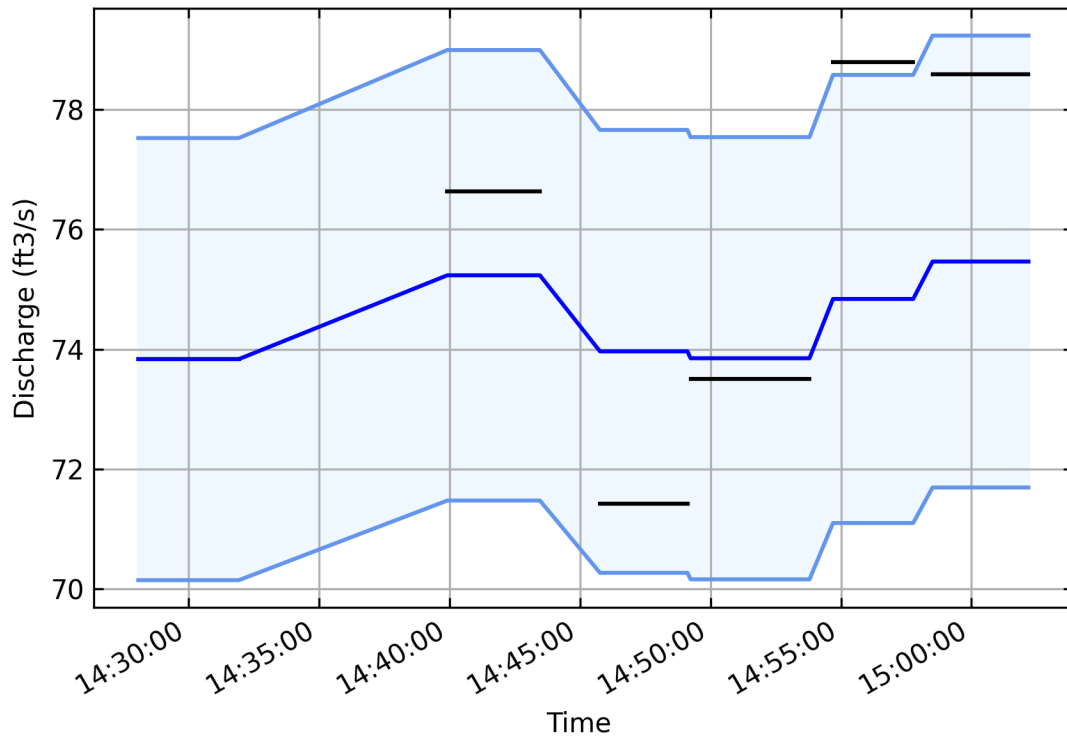
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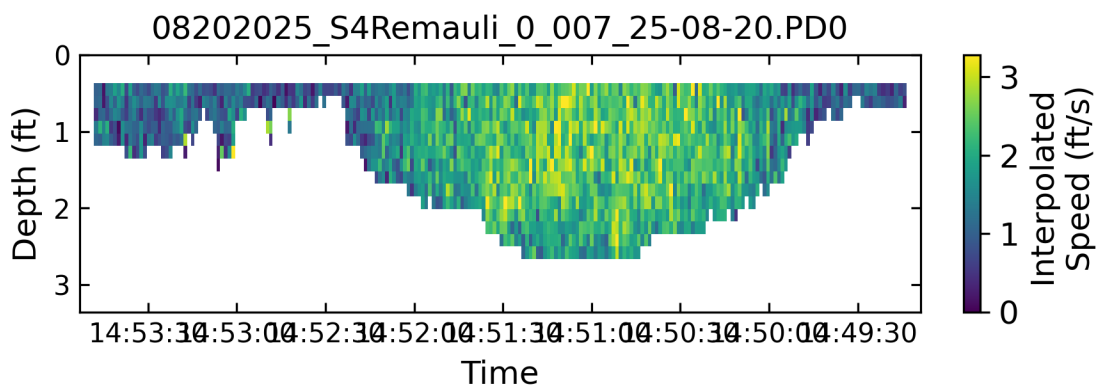
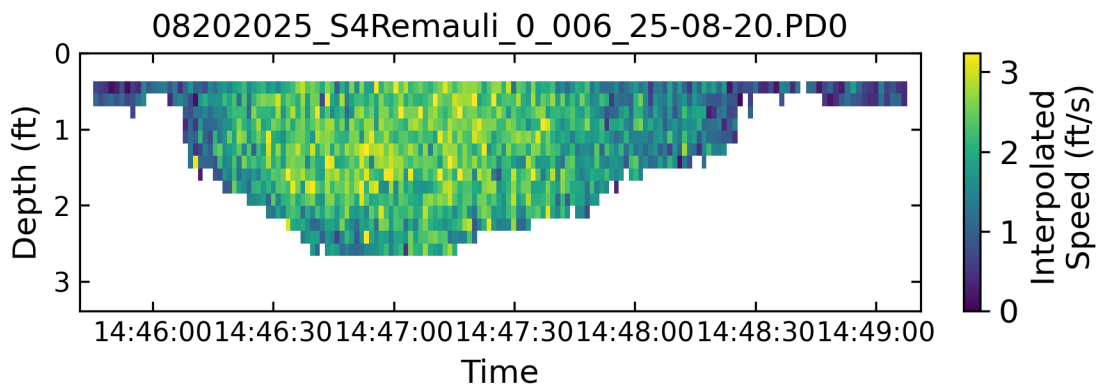
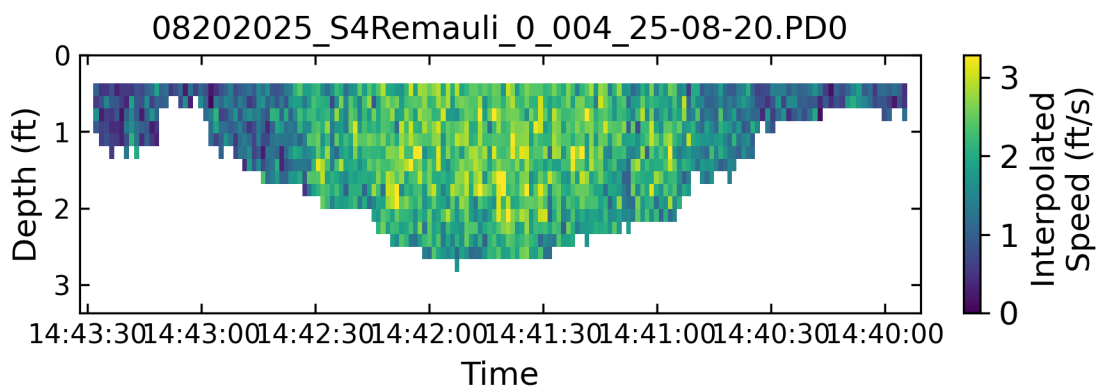
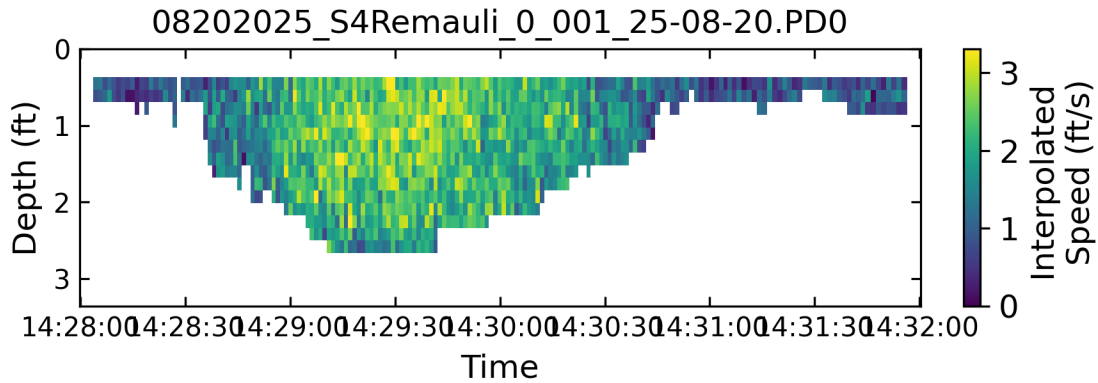
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