



QRev Discharge Measurement Report

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Station Name: 05202025_S4Remauli

Station Number:

Measurement Date: 2025.05.20

Measurement Number: 0

Discharge: 532.0

Stage: 0.00

User Rating: Not Rated

Processed: 2025.05.27 10:58:51

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	532.0	Mean Velocity (ft/s):	2.467														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	4.144														
Version:	4.36	Total Duration (s):	1246.7	Mean Depth (ft):	6.956														
ADCP		Start Time:	14:27:04	Max. Depth (ft):	8.959														
Manufacturer:	TRDI	End Time:	14:46:10	Width (ft):	30.991														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.58														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	215.593														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.81														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.179	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	11.877778	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.0 <table><thead><tr><th>Factor</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>58</td></tr><tr><td>Systematic</td><td>25</td></tr><tr><td>Edges</td><td>10</td></tr><tr><td>Moving-bed</td><td>10</td></tr><tr><td>Extrap.</td><td>5</td></tr><tr><td>Invalid</td><td>5</td></tr></tbody></table>		Factor	Percent of Total	COV	58	Systematic	25	Edges	10	Moving-bed	10	Extrap.	5	Invalid	5
Factor	Percent of Total																		
COV	58																		
Systematic	25																		
Edges	10																		
Moving-bed	10																		
Extrap.	5																		
Invalid	5																		
W. Temp. ADCP (C):		Extrap Exponent:	0.2195																
System Test:	Passed	Discharg COV (%):	4.42																
Compass Cal/Eval:	1.06	Top Q (%):	4.34																
Magnetic Variaton:	13.5	Measured Q (%):	75.10																
MovBed Test Type:	Loop	Left Q (%):	2.70																
MovBed Test Quality:	Good	Right Q (%):	3.04																
MovBed Test Dur.(s):	254.9	Bottom Q (%):	14.82																
Max MovBed (%):	1.31	Invalid Cells Q (%):	0.00																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.24																

Automated QA Messages:

WARNINGS

Cautions

- 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
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-05-27 10:56:07, sarah]: There is no station number for this site. Acceptable compass calibration metric followed is less than two degrees. Slight wind and water currents caused some erratic boat movement on edges of transects. Cloudy and cool measurement conditions did not causes differences in WT between independent and ADCP. Which is typically present when ADCP is in direct sun.



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Comments:

- [2025-05-27 10:58:44, sarah]: File Saved Q = 531.74 ft3/s (Uncertainty: 6.0%)

ID	File Name
0	05202025_S4Remauli_0_000_25-05-20.PD0
1	05202025_S4Remauli_0_001_25-05-20.PD0
2	05202025_S4Remauli_0_002_25-05-20.PD0
3	05202025_S4Remauli_0_003_25-05-20.PD0
4	05202025_S4Remauli_0_004_25-05-20.PD0
5	05202025_S4Remauli_0_005_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	14:27:04	14:30:43	218.8	23.7	415.0	81.0	15.6	17.9	553.0
1	Right	14:31:11	14:34:44	213.4	21.7	380.0	75.4	14.2	13.8	505.0
2	Left	14:34:57	14:38:19	202.1	24.0	400.0	74.1	14.1	16.8	529.0
3	Right	14:38:38	14:42:05	206.5	21.8	382.0	78.2	12.9	11.6	506.0
4	Left	14:42:34	14:45:52	198.1	24.4	424.0	79.2	14.8	20.3	562.0
5	Right	14:46:10	14:49:38	207.7	22.9	396.0	84.7	14.5	16.6	535.0
				1246.7	23.1	399.0	78.8	14.4	16.2	532.0

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	1.22	10	0.3535	Triangular	1.07	10	0.3535
1	Right	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535
2	Left	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535
3	Right	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535
4	Left	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535
5	Right	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535



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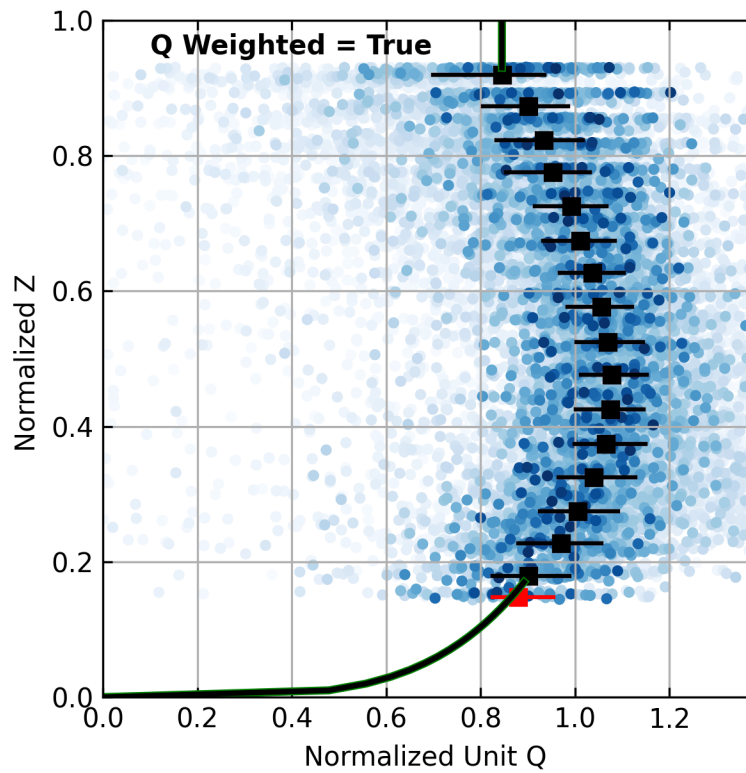
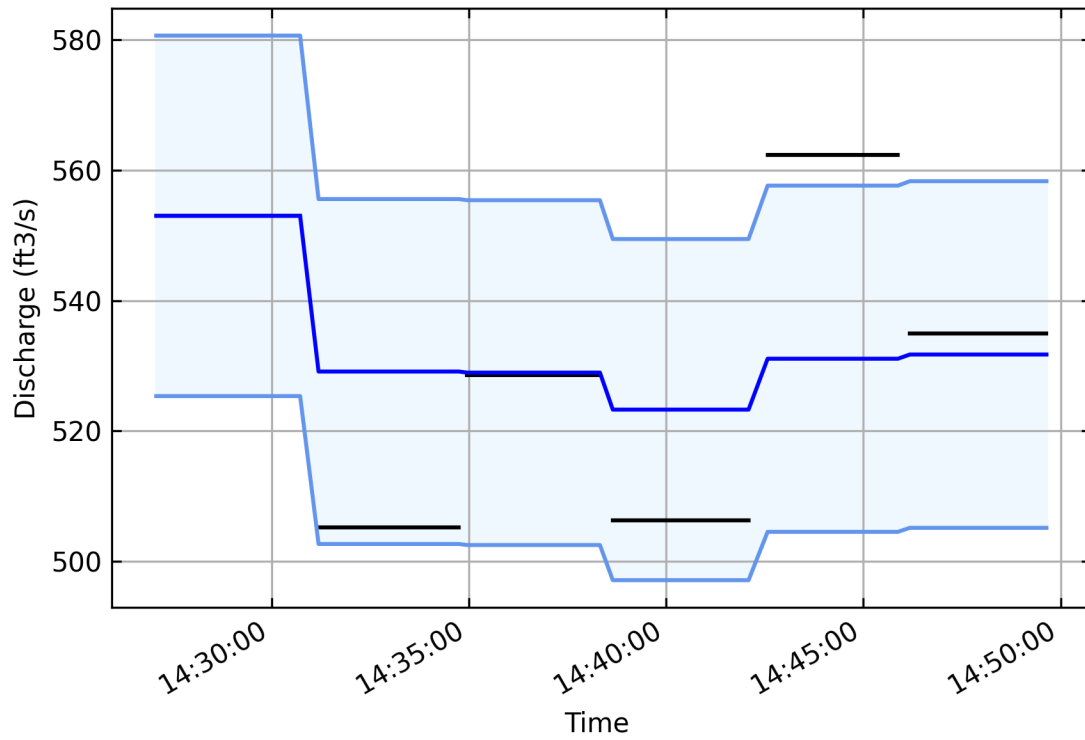
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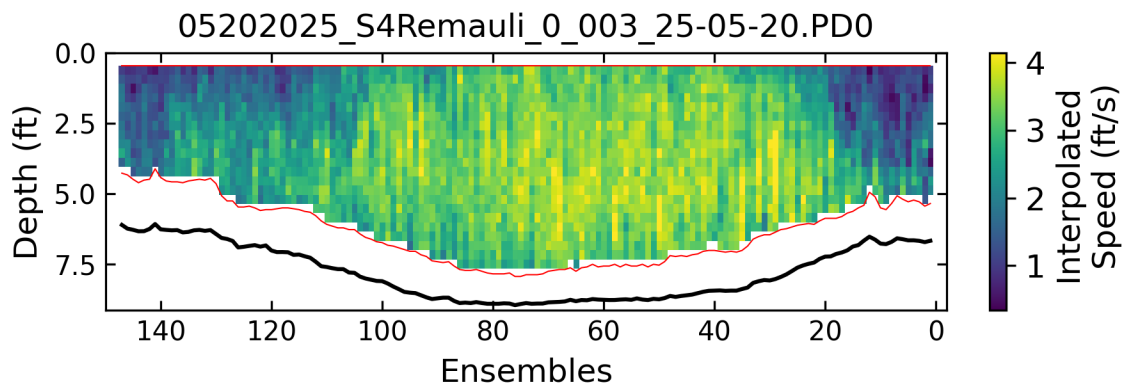
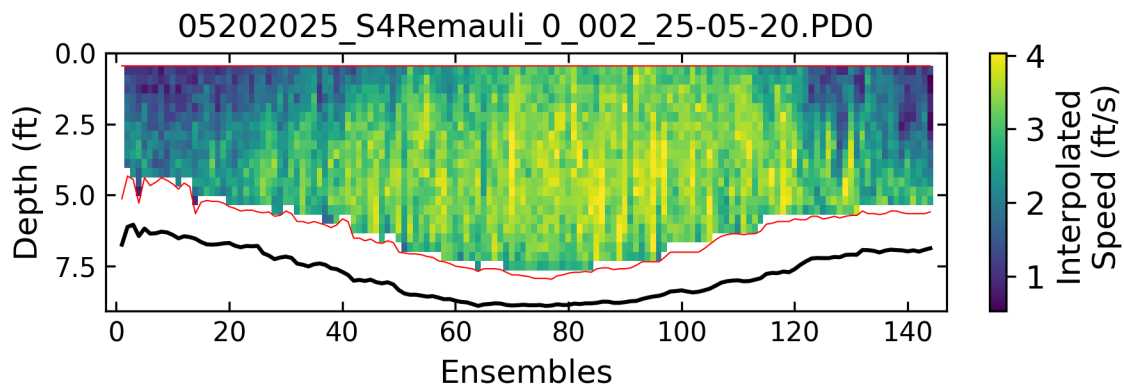
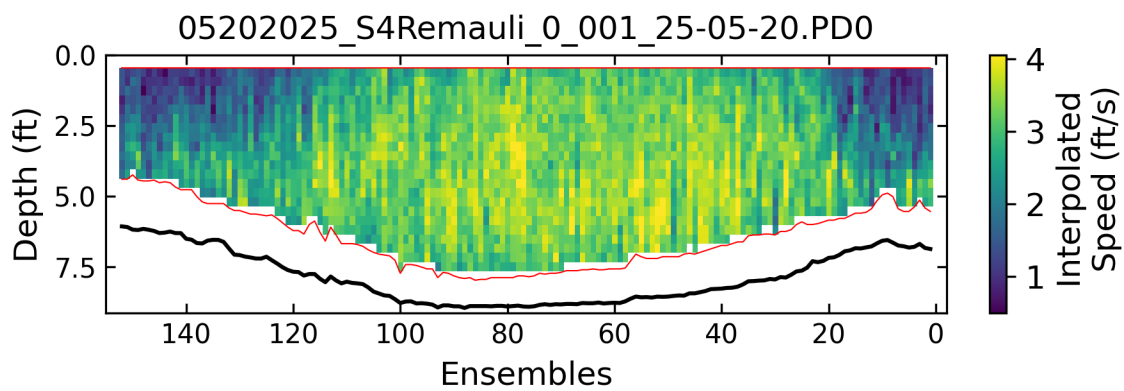
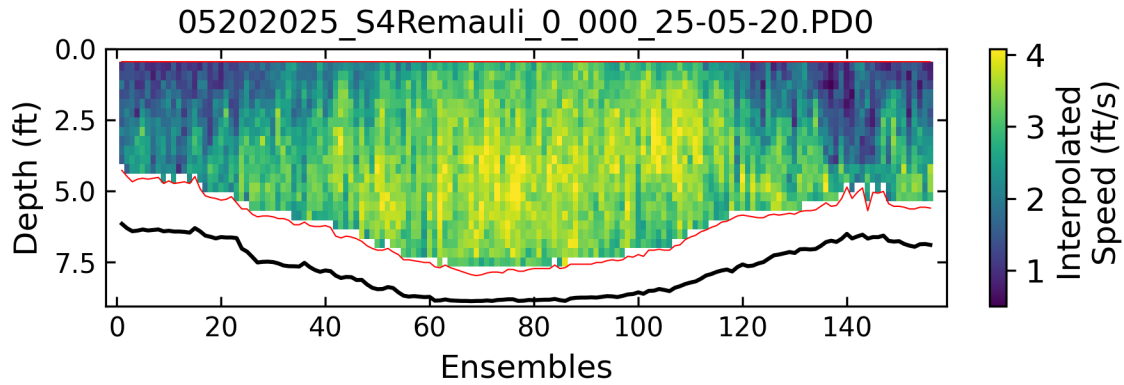
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