



QRev Discharge Measurement Report

1 of 5

Station Name: 08292024_Diamond

Station Number:

Measurement Date: 2024.08.29

Measurement Number: 0

Discharge: 53.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.09.02 12:44:20

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	53.0	Mean Velocity (ft/s):	1.157														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.955														
Version:	4.37	Total Duration (s):	1307.3	Mean Depth (ft):	1.618														
ADCP		Start Time:	15:30:54	Max. Depth (ft):	2.542														
Manufacturer:	TRDI	End Time:	15:51:15	Width (ft):	28.311														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.60														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	45.788														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.42														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.133	Uncertainty															
Premeasurement		Top Extrap:	Power	Uncertainty Method: QRev															
W. Temp. (C):	20.738889	Bottom Extrap:	Power	95% Total Uncertainty: 4.9 <table><caption>Uncertainty Components</caption><tr><th>Component</th><th>Value (%)</th></tr><tr><td>COV</td><td>4.9</td></tr><tr><td>Systematic</td><td>3.5</td></tr><tr><td>Moving-bed</td><td>0.4</td></tr><tr><td>Edges</td><td>0.1</td></tr><tr><td>Invalid</td><td>0.0</td></tr><tr><td>Extrap.</td><td>0.0</td></tr></table>		Component	Value (%)	COV	4.9	Systematic	3.5	Moving-bed	0.4	Edges	0.1	Invalid	0.0	Extrap.	0.0
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COV	4.9																		
Systematic	3.5																		
Moving-bed	0.4																		
Edges	0.1																		
Invalid	0.0																		
Extrap.	0.0																		
W. Temp. ADCP (C):		Extrap Exponent:	0.3474																
System Test:	Passed	Discharg COV (%):	3.51																
Compass Cal/Eval:	0.43	Top Q (%):	27.18																
Magnetic Variaton:	13.5	Measured Q (%):	52.53																
MovBed Test Type:	Loop	Left Q (%):	2.49																
MovBed Test Quality:	Good	Right Q (%):	0.10																
MovBed Test Dur.(s):	279.9	Bottom Q (%):	17.71																
Max MovBed (%):	0.05	Invalid Cells Q (%):	0.09																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.34																

Automated QA Messages:

WARNINGS

Cautions

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

Comments:

- MMT Remarks:
- [Main, 2024-09-02 12:42:45, sarah]: Still experiencing slow moving water/eddys on right edge causing some uncontrollable boat movements. No station number for this site.
- [2024-09-02 12:44:15, sarah]: File Saved Q = 53.00 ft³/s (Uncertainty: 4.9%)

ID File Name

0 08292024_Diamond_0_000_24-08-29.PD0



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ID	File Name
1	08292024_Diamond_0_001_24-08-29.PD0
2	08292024_Diamond_0_002_24-08-29.PD0
3	08292024_Diamond_0_003_24-08-29.PD0
4	08292024_Diamond_0_004_24-08-29.PD0
5	08292024_Diamond_0_005_24-08-29.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	15:30:54	15:34:14	200.1	14.36	29.59	9.62	1.63	0.32	55.52
1	Right	15:34:43	15:38:27	223.3	14.24	27.25	8.91	0.79	-0.41	50.77
2	Left	15:38:41	15:42:10	209.6	14.68	28.56	9.77	1.03	0.38	54.42
3	Right	15:43:00	15:46:48	228.3	14.7	27.68	9.34	1.36	-0.19	52.89
4	Left	15:47:00	15:50:43	223.5	14.15	27.15	9.51	1.96	0.58	53.34
5	Right	15:51:15	15:54:57	222.4	14.3	26.83	9.17	1.14	-0.38	51.04
				1307.3	14.4	27.84	9.38	1.32	0.05	53.0

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	2.50	10	0.3535	Triangular	2.50	10	0.3535
1	Right	Triangular	2.50	10	0.3535	Triangular	2.50	10	0.3535
2	Left	Triangular	2.50	10	0.3535	Triangular	2.50	10	0.3535
3	Right	Triangular	2.50	10	0.3535	Triangular	2.50	10	0.3535
4	Left	Triangular	2.50	10	0.3535	Triangular	2.50	10	0.3535
5	Right	Triangular	2.50	10	0.3535	Triangular	2.50	10	0.3535



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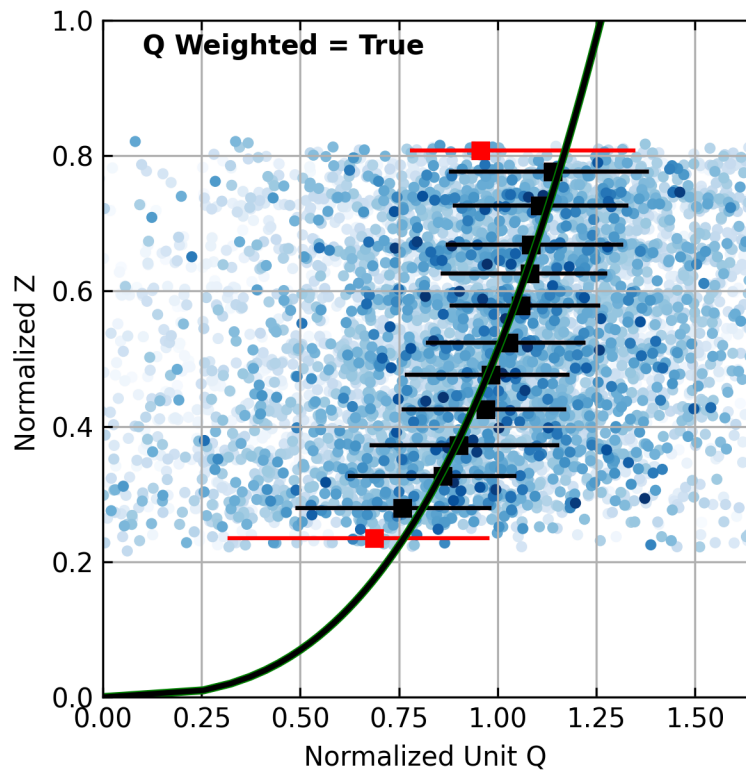
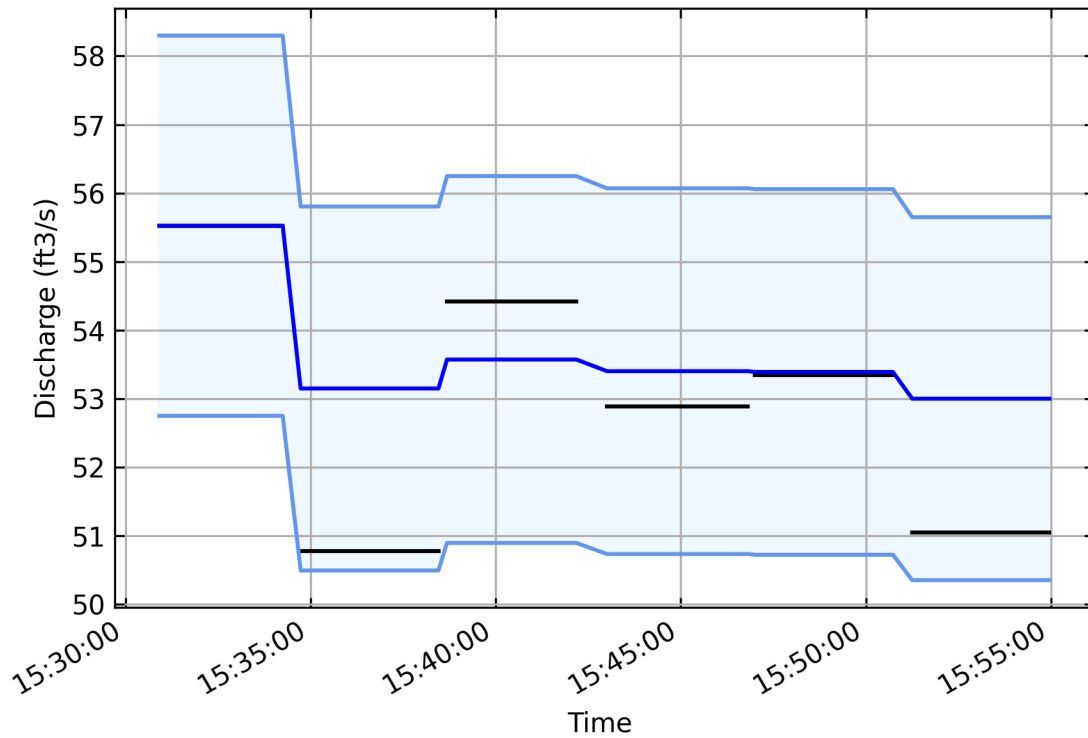
Measurement Number: 0

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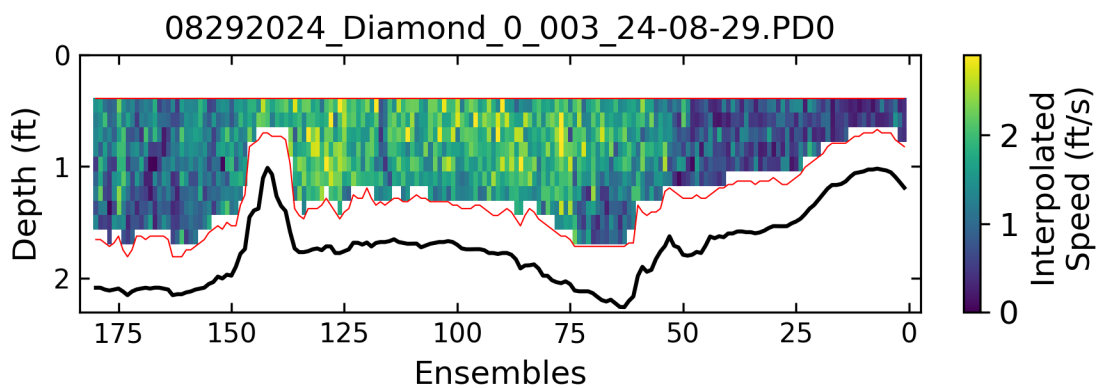
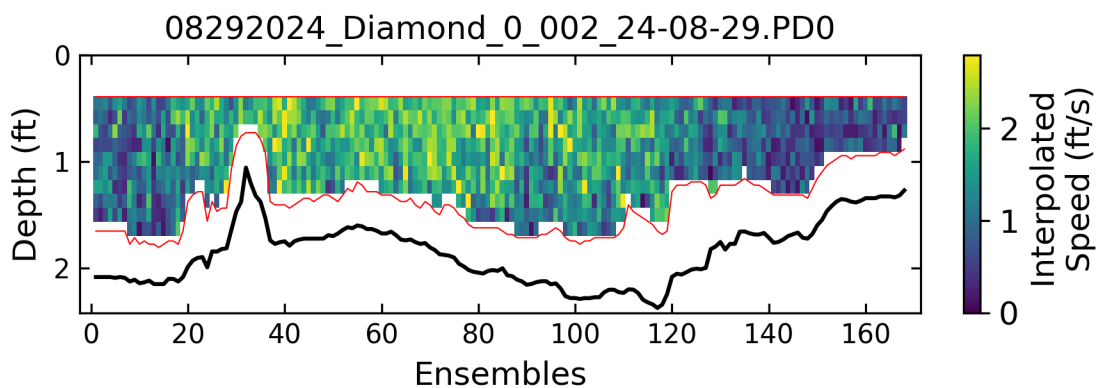
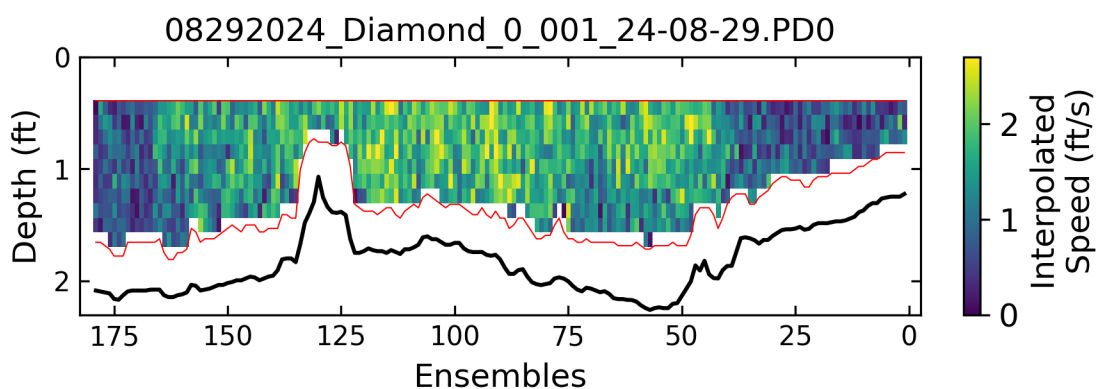
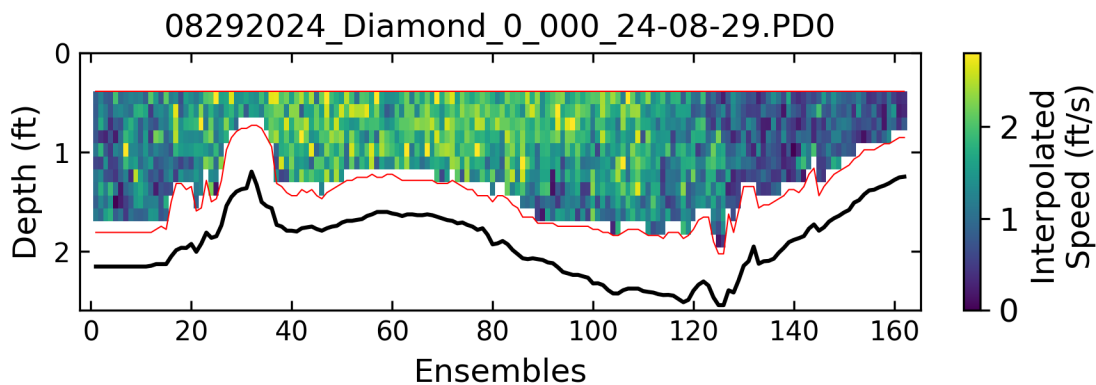
Measurement Number: 0

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Stage: 0.00

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