



QRev Discharge Measurement Report

1 of 5

Station Name: 03262024_Training_DiamondBridge

Station Number:

Measurement Date: 2024.03.26

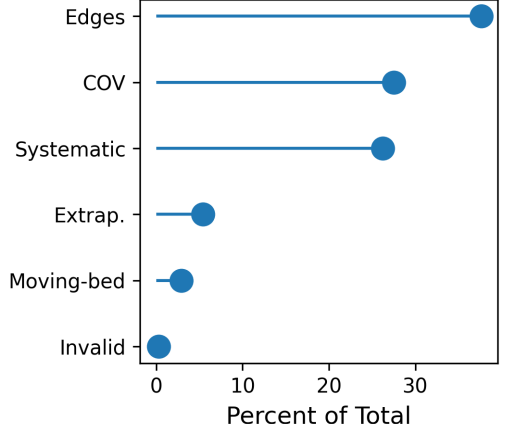
Measurement Number: 0

Discharge: 167.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 14:57:13

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	167.0	Mean Velocity (ft/s):	1.555
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.572
Version:	4.36	Total Duration (s):	959.0	Mean Depth (ft):	2.964
ADCP		Start Time:	16:23:35	Max. Depth (ft):	4.489
Manufacturer:	TRDI	End Time:	16:42:32	Width (ft):	36.214
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.71
Serial Number:	885	Stage End:	0.00	Area (ft2):	107.376
Firmware:	31.16	Mean Stage:	0.00	Area COV (%):	4.27
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.192	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	6.9	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.9 	
W. Temp. ADCP (C):		Extrap Exponent:	0.2778		
System Test:	Passed	Discharg COV (%):	2.93		
Compass Cal/Eval:	0.30	Top Q (%):	12.79		
Magnetic Variaton:	13.5	Measured Q (%):	65.61		
MovBed Test Type:	Loop	Left Q (%):	4.06		
MovBed Test Quality:	Good	Right Q (%):	7.92		
MovBed Test Dur.(s):	165.8	Bottom Q (%):	9.62		
Max MovBed (%):	0.84	Invalid Cells Q (%):	0.06		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.55		

Automated QA Messages:

WARNINGS

- Edges: Edge Q is greater than 5%;

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Temperature: Temperature range is 1.3 degrees C which is greater than 1 degree;
- Transects: The number of invalid ensembles at the left edge exceeds 5 percent;
- Transects: The number of invalid ensembles at the right edge exceeds 5 percent;
- Transects: ['0_001_24-03-26', '0_002_24-03-26', '0_003_24-03-26', '0_004_24-03-26', '0_005_24-03-26', '0_006_24-03-26'] have battery voltage less than 10.5
- Site Info: Station number not entered;
- Edges: User modified left user discharge.



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Comments:

- MMT Remarks:
- [Main, 2024-05-04 14:48:33, sarah]: Cannot rectify edge Q >5% due to measurement being 10 ft away from edge (vegetation issues). No station number for site. Temperature range intrinsic to measurement.
- [2024-05-04 14:57:09, sarah]: File Saved Q = 166.76 ft³/s (Uncertainty: 5.9%)

ID	File Name
0	0_001_24-03-26.PD0
1	0_002_24-03-26.PD0
2	0_003_24-03-26.PD0
3	0_004_24-03-26.PD0
4	0_005_24-03-26.PD0
5	0_006_24-03-26.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	16:23:35	16:26:48	193.1	21.6	111.0	14.9	6.68	4.83	160.0
1	Right	16:27:45	16:30:38	173.0	22.9	112.0	18.0	6.49	12.7	172.0
2	Left	16:33:09	16:35:40	151.2	20.3	113.0	16.0	6.81	15.8	172.0
3	Right	16:36:05	16:38:13	127.4	21.9	102.0	16.1	6.78	16.1	163.0
4	Left	16:39:38	16:42:20	162.2	20.8	111.0	14.9	6.62	13.3	166.0
5	Right	16:42:32	16:45:04	152.1	20.6	107.0	16.3	7.21	16.5	168.0
				959.0	21.3	109.0	16.0	6.77	13.2	167.0

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	3.05	10	0.3535
1	Right	Triangular	1.22	10	0.3535	Triangular	3.05	10	0.3535
2	Left	Triangular	1.22	10	0.3535	Triangular	3.05	10	0.3535
3	Right	Triangular	1.22	10	0.3535	Triangular	3.05	10	0.3535
4	Left	Triangular	1.22	10	0.3535	Triangular	3.05	10	0.3535
5	Right	Triangular	1.22	10	0.3535	Triangular	3.05	10	0.3535



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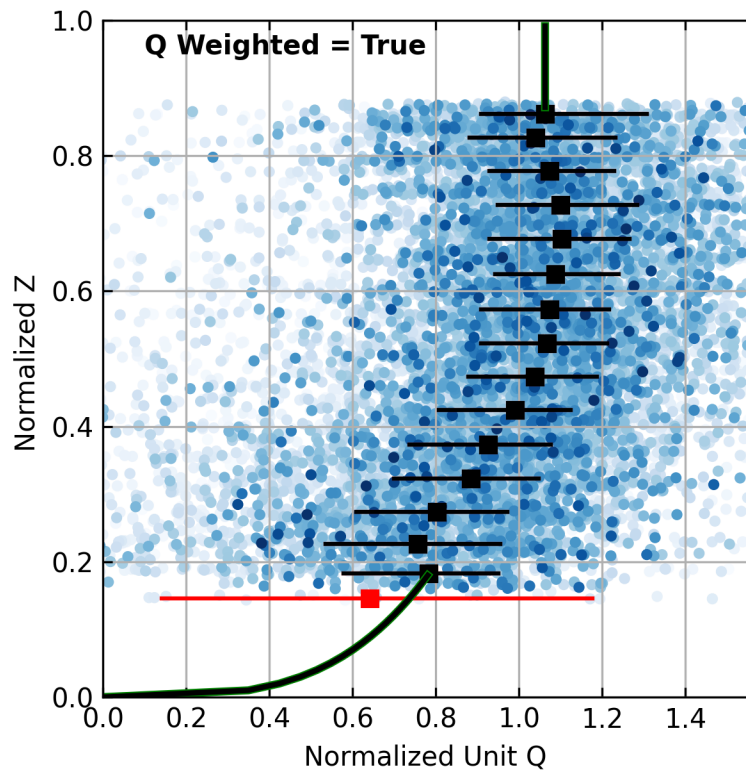
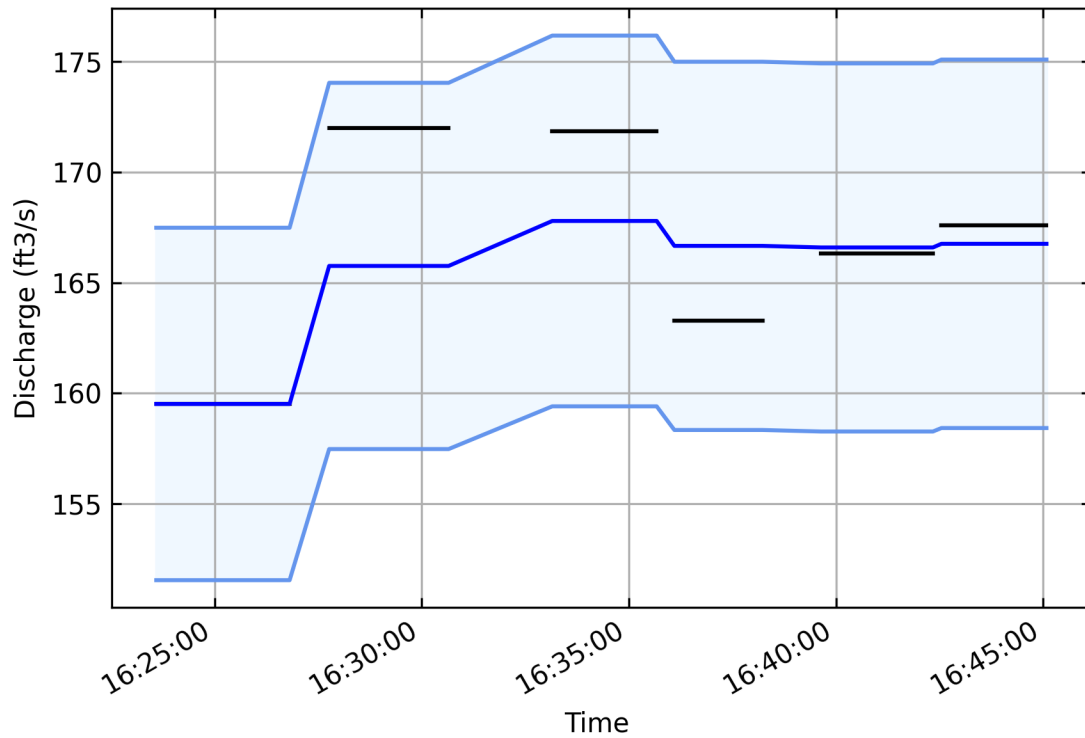
Measurement Number: 0

Discharge: 167.0

Stage: 0.00

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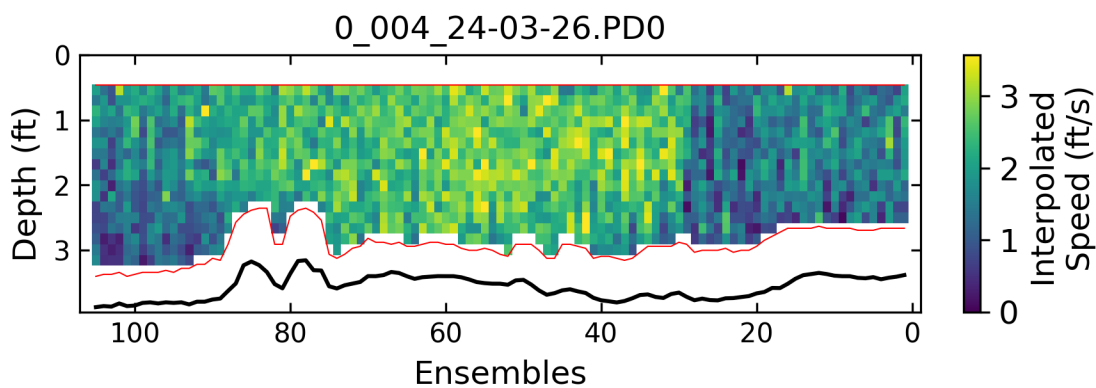
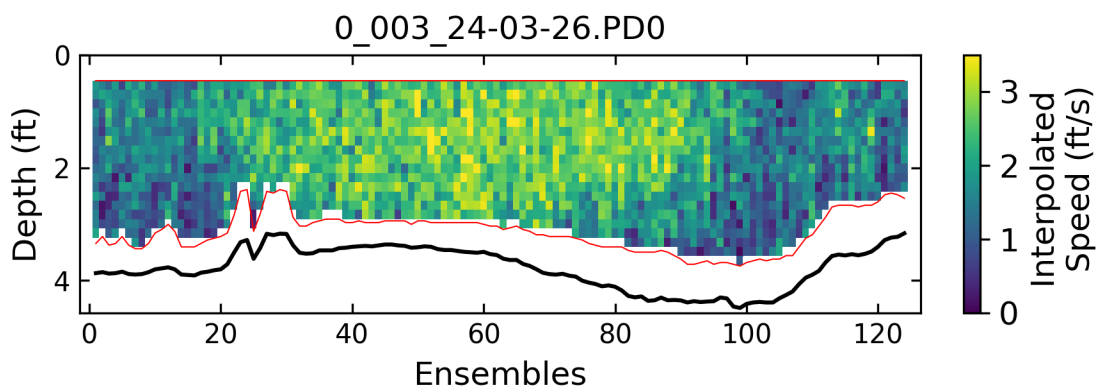
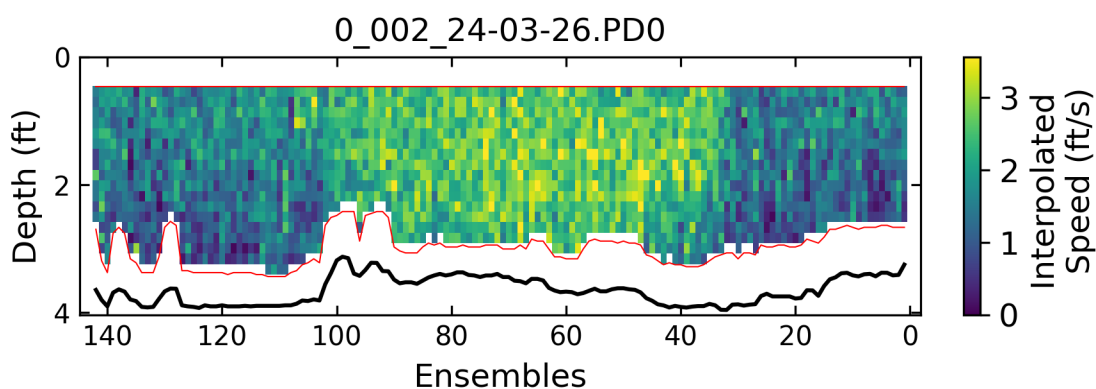
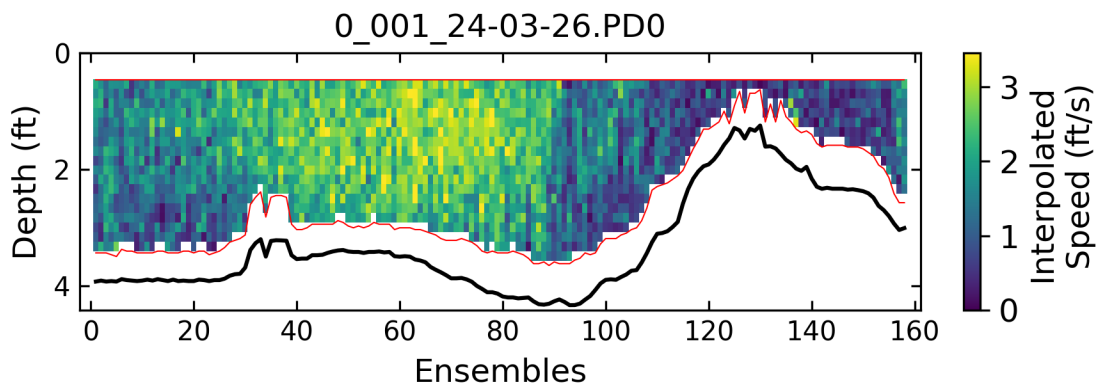
Measurement Number: 0

Discharge: 167.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 14:57:14





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Discharge: 167.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 14:57:14

