



QRev Discharge Measurement Report

1 of 6

Station Name: 03262024_Training_KrumboBridge

Station Number:

Measurement Date: 2024.03.26

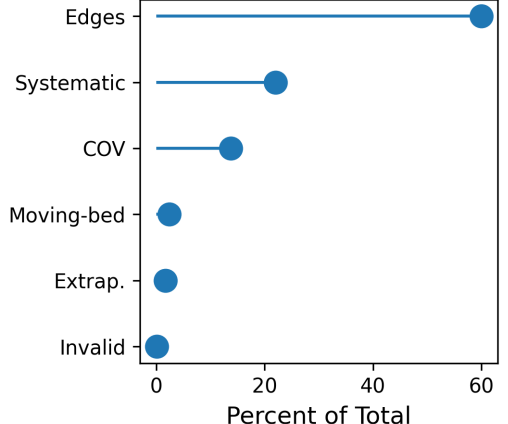
Measurement Number: 0

Discharge: 171.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 13:59:53

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	171.0	Mean Velocity (ft/s):	1.951
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.975
Version:	4.36	Total Duration (s):	855.2	Mean Depth (ft):	3.186
ADCP		Start Time:	14:53:57	Max. Depth (ft):	4.533
Manufacturer:	TRDI	End Time:	15:09:04	Width (ft):	27.477
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.90
Serial Number:	885	Stage End:	0.00	Area (ft2):	87.530
Firmware:	31.16	Mean Stage:	0.00	Area COV (%):	2.11
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.223	Uncertainty	
Premeasurement		Top Extrap:	Power	Uncertainty Method: QRev	
W. Temp. (C):	7.3	Bottom Extrap:	Power	95% Total Uncertainty: 6.4 	
W. Temp. ADCP (C):		Extrap Exponent:	0.2728		
System Test:	Passed	Discharg COV (%):	2.84		
Compass Cal/Eval:	1.66	Top Q (%):	16.75		
Magnetic Variaton:	13.5	Measured Q (%):	49.53		
MovBed Test Type:	Loop	Left Q (%):	6.56		
MovBed Test Quality:	Good	Right Q (%):	9.96		
MovBed Test Dur.(s):	171.2	Bottom Q (%):	17.20		
Max MovBed (%):	1.15	Invalid Cells Q (%):	0.00		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.92		

Automated QA Messages:

WARNINGS

- Edges: Edge Q is greater than 5%;

Cautions

- Compass: Evaluation result > 1 deg;
- Edges: Excessive boat movement in edge ensembles;
- Moving-Bed Test: Loop test used but compass calibration is caution
- Temperature: Temperature range is 1.1 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;
- Site Info: Station number not entered;
- Edges: User modified right user discharge.



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Comments:

- MMT Remarks:
- [MovBedTst, 2024-05-04 13:41:11, sarah]:
- [Main, 2024-05-04 13:45:14, sarah]: Compass calibration using <2 degree metric rather than <1 degree. Temperature states range is 1.1 C, reviewing data the range is 7.9-8.9 C. Cannot remedy edges greater than 5% due to nature of channel (vegetation issues).
- [Main, 2024-05-04 13:56:57, sarah]: No station number for site.
- [MovBedTst, 2024-05-04 13:57:46, sarah]: Moving bed test caution due to compass calibration metric used.
- [2024-05-04 13:59:47, sarah]: File Saved Q = 170.73 ft3/s (Uncertainty: 6.4%)

ID	File Name
0	0_000_24-03-26.PD0
1	0_001_24-03-26.PD0
2	0_002_24-03-26.PD0
3	0_003_24-03-26.PD0
4	0_004_24-03-26.PD0
5	0_005_24-03-26.PD0
6	0_006_24-03-26.PD0
7	0_007_24-03-26.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	14:53:57	14:56:09	131.9	28.9	83.3	30.3	9.88	16.9	169.0
1	Right	14:56:36	14:58:44	128.5	28.3	81.6	29.7	9.77	18.5	168.0
2	Left	14:59:08	15:00:59	111.3	27.2	79.7	28.4	12.7	16.9	165.0
3	Right	15:01:15	15:03:05	109.4	27.5	82.9	27.5	12.7	18.4	169.0
4	Left	15:03:30	15:04:55	85.0	29.8	87.8	30.9	14.1	13.7	176.0
5	Right	15:05:08	15:07:15	127.2	29.8	87.3	31.1	7.94	16.9	173.0
6	Left	15:07:44	15:08:55	71.1	29.9	89.8	30.5	12.1	16.5	179.0
7	Right	15:09:04	15:10:35	90.9	27.4	84.2	26.7	10.3	18.1	167.0
				855.2	28.6	84.6	29.4	11.2	17.0	171.0



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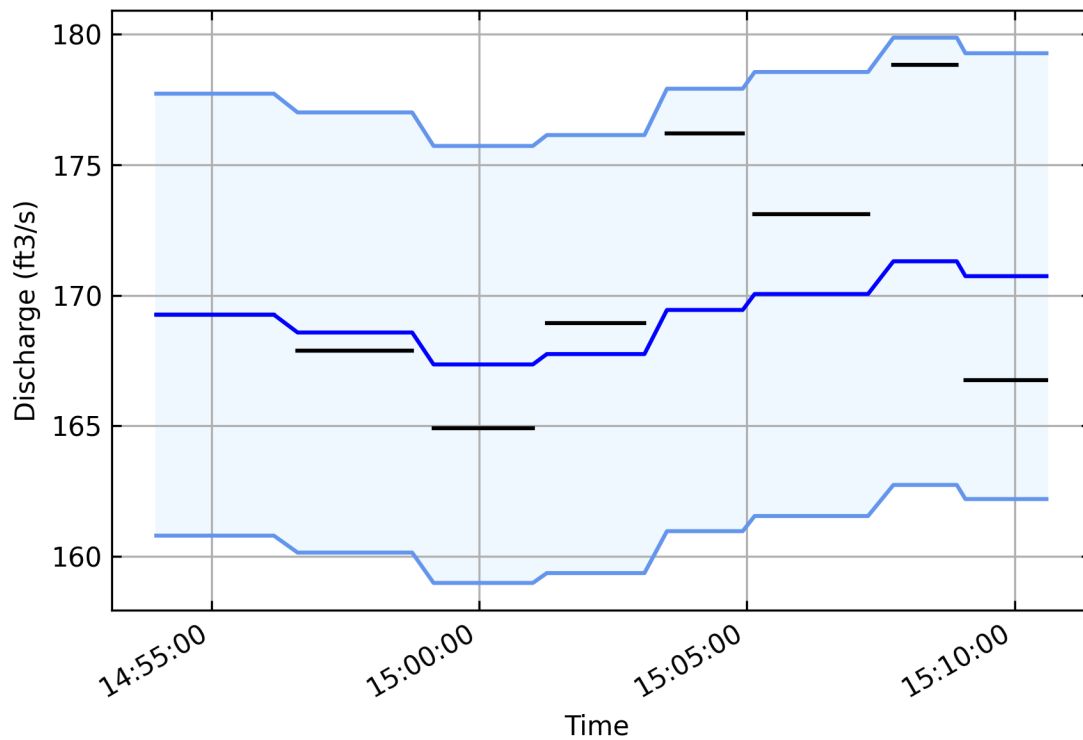
Discharge: 171.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 13:59:53

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	1.52	10	0.3535	Triangular	1.83	10	0.3535
1	Right	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535
2	Left	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535
3	Right	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535
4	Left	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535
5	Right	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535
6	Left	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535
7	Right	Triangular	1.52	10	0.3535	Triangular	1.83	10	0.3535





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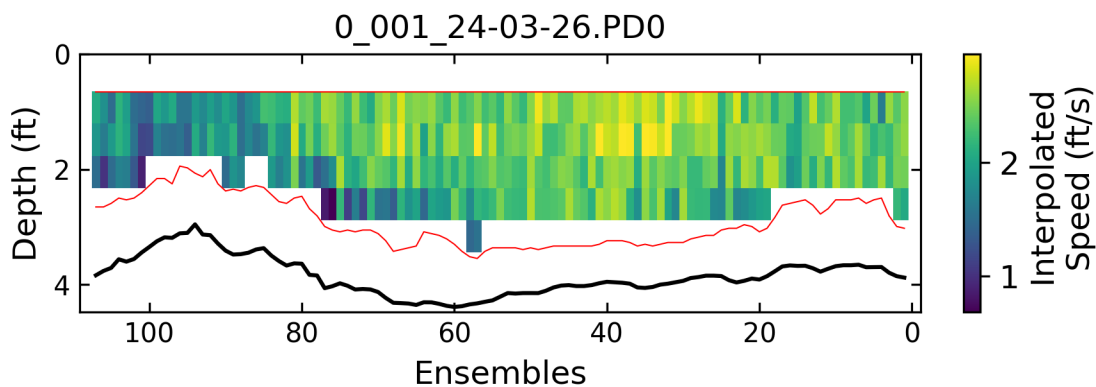
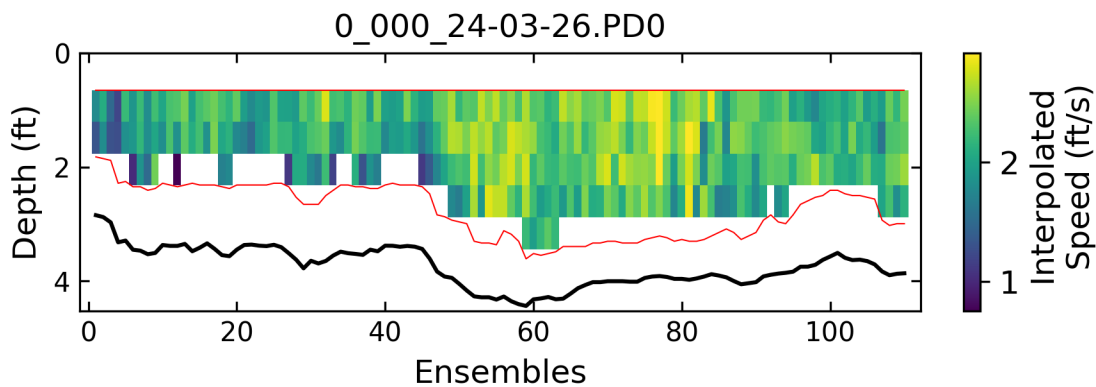
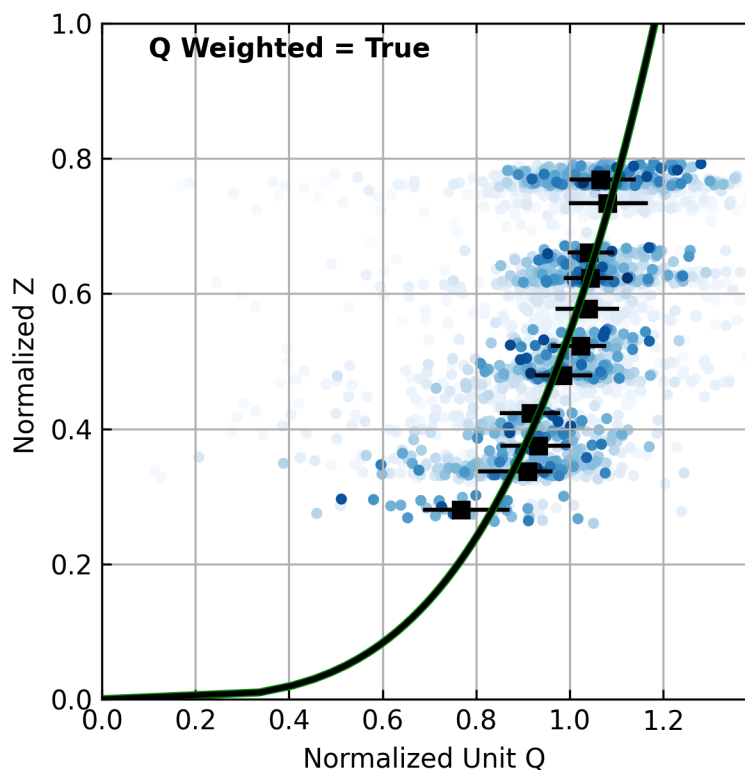
Measurement Number: 0

Discharge: 171.0

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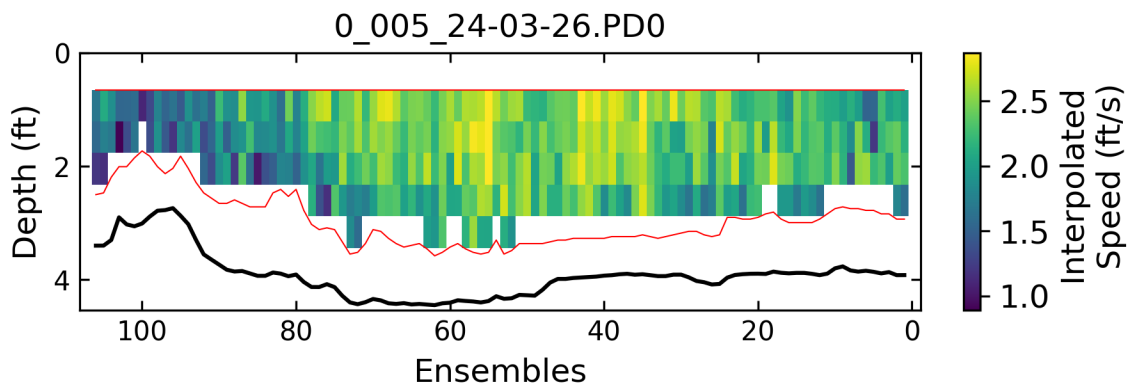
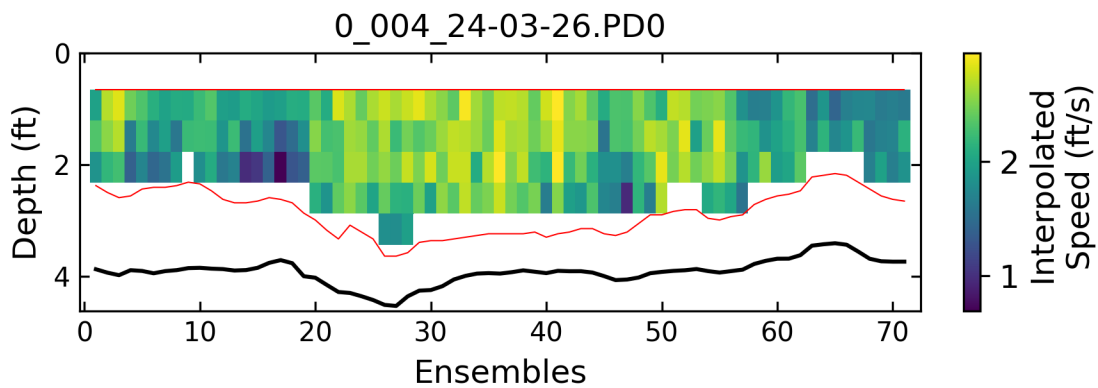
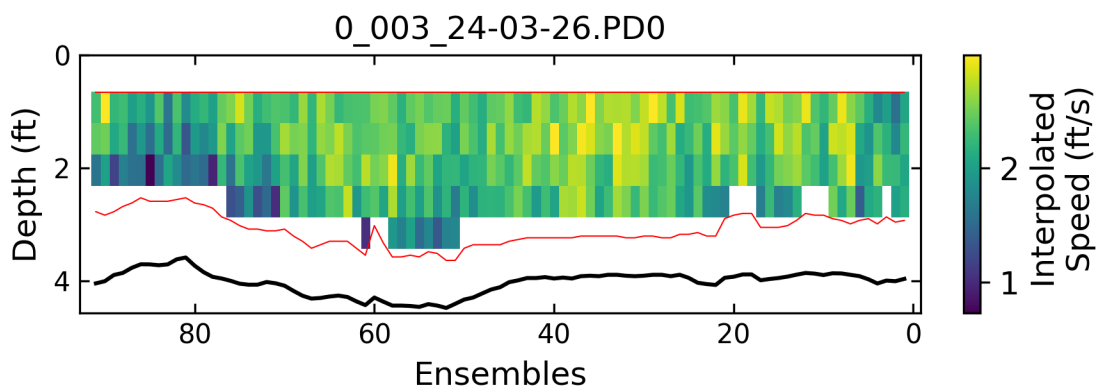
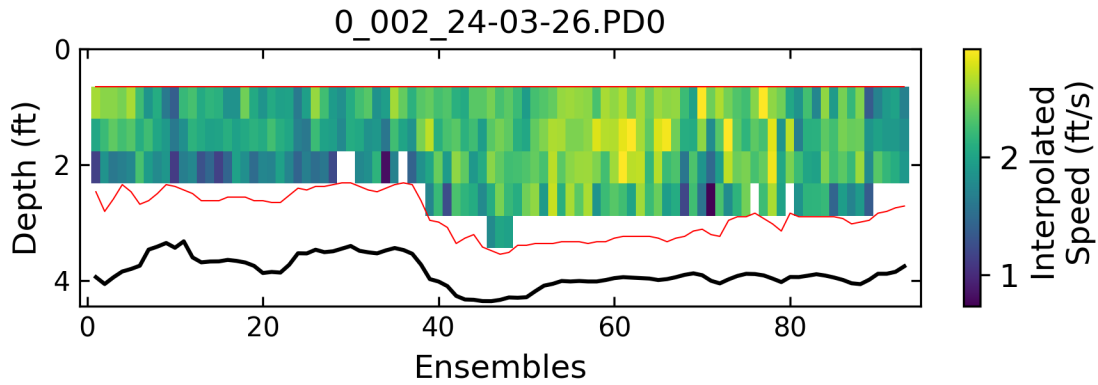
Measurement Number: 0

Discharge: 171.0

Stage: 0.00

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