



QRev Discharge Measurement Report

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Station Name: 04182024_KrumboBridge

Station Number:

Measurement Date: 2024.04.18

Measurement Number: 0

Discharge: 302.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 15:42:51

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	302.0	Mean Velocity (ft/s):	2.237
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	4.168
Version:	4.36	Total Duration (s):	1415.1	Mean Depth (ft):	4.718
ADCP		Start Time:	12:06:20	Max. Depth (ft):	6.172
Manufacturer:	TRDI	End Time:	12:28:06	Width (ft):	28.656
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	7.33
Serial Number:	2404	Stage End:	0.00	Area (ft2):	135.062
Firmware:	31.17	Mean Stage:	0.00	Area COV (%):	7.45
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.322	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	6.75	Bottom Extrap:	No Slip	95% Total Uncertainty: 12.6 COV Systematic Moving-bed Edges Extrap. Invalid 0 20 40 60 80 Percent of Total	
W. Temp. ADCP (C):		Extrap Exponent:	0.1667		
System Test:	Passed	Discharg COV (%):	11.06		
Compass Cal/Eval:	0.60	Top Q (%):	7.77		
Magnetic Variaton:	0.0	Measured Q (%):	74.05		
MovBed Test Type:	Loop	Left Q (%):	2.70		
MovBed Test Quality:	Warnings	Right Q (%):	3.61		
MovBed Test Dur.(s):	244.3	Bottom Q (%):	11.88		
Max MovBed (%):	1.35	Invalid Cells Q (%):	-0.00		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.59		

Automated QA Messages:

WARNINGS

Cautions

- bt-Int. Q for consecutive invalid ensembles exceeds 3.0%;
- Edges: Excessive boat movement in edge ensembles;
- Edges: The percent of invalid ensembles exceeds 25% in one or more transects.
- Moving-Bed Test: The moving-bed test(s) has warnings, please review tests to determine validity;
- 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 left user discharge.
- Extrapolation: User modified default automatic setting.



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Automated QA Messages:

- Moving-Bed Test: User modified valid test settings.

Comments:

- MMT Remarks:
- [MovBedTst, 2024-05-04 15:36:01, sarah]: Using final moving bed test with 1.4% error.
- [MovBedTst, 2024-05-04 15:36:34, sarah]: Using final moving bed test for 1.4% error.
- [Main, 2024-05-04 15:38:14, sarah]: Excessive boat movement due to using loaner ADCP small boat, resulting in excessive movement and invalid edge ensembles that cannot be rectified.
- [Main, 2024-05-04 15:41:23, sarah]: No station number for this site.
- [2024-05-04 15:42:46, sarah]: File Saved Q = 302.10 ft³/s (Uncertainty: 12.6%)

ID	File Name
0	04182024_KrumboBridge_0_000_24-04-18.PD0
1	04182024_KrumboBridge_0_001_24-04-18.PD0
2	04182024_KrumboBridge_0_002_24-04-18.PD0
3	04182024_KrumboBridge_0_003_24-04-18.PD0
4	04182024_KrumboBridge_0_004_24-04-18.PD0
5	04182024_KrumboBridge_0_005_24-04-18.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft3/s)	Middle Q	Bottom Q	Left Q (ft3/s)	Right Q (ft3/s)	Total Q (ft3/s)
						(ft3/s)	(ft3/s)			
0	Left	12:06:20	12:10:40	260.2	24.9	250.0	36.4	3.75	7.4	322.0
1	Right	12:10:55	12:14:35	220.4	23.5	206.0	38.2	8.8	6.03	283.0
2	Left	12:14:46	12:18:19	212.2	21.3	197.0	32.5	8.74	11.9	272.0
3	Right	12:19:11	12:23:02	231.9	28.7	259.0	47.0	10.6	13.1	358.0
4	Left	12:23:54	12:27:44	230.6	21.3	220.0	40.2	7.05	14.6	303.0
5	Right	12:28:06	12:32:25	259.9	21.2	210.0	21.0	9.96	12.3	274.0
				1415.1	23.5	224.0	35.9	8.15	10.9	302.0



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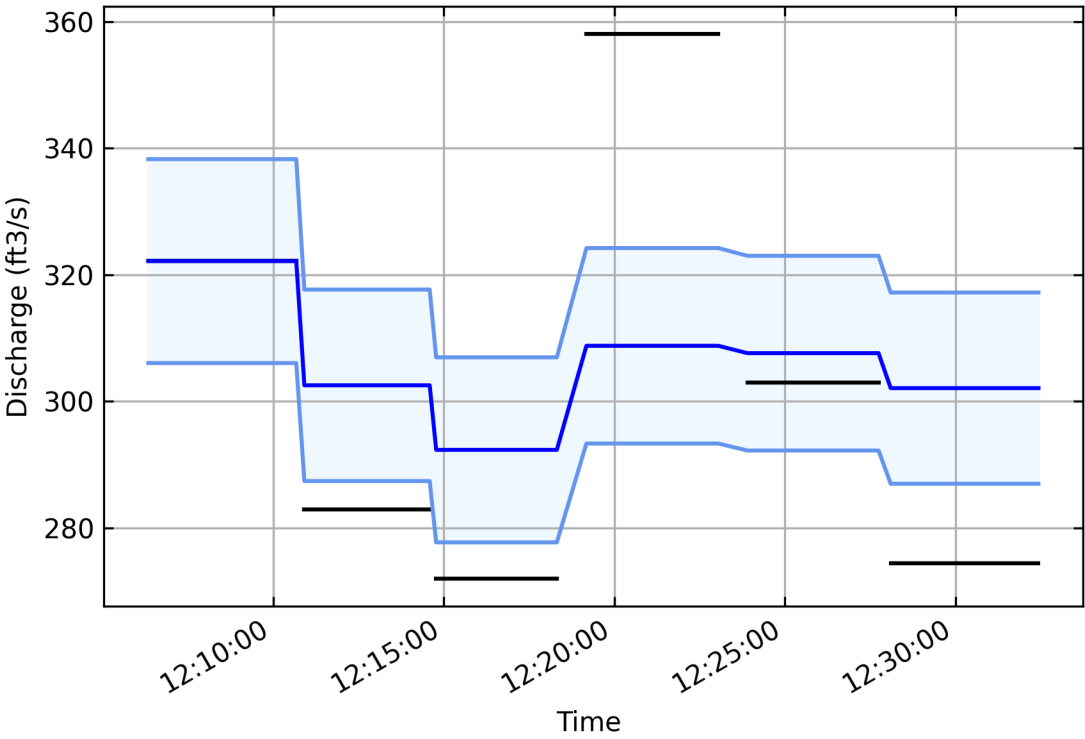
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Transect ID	Start Edge	Left Edge Type	Left Dist. (ft)	Left Edge # Ens.	Left Edge Coeff.	Right Edge Type	Right Dist (ft)	Right Edge # Ens.	Right Edge Coeff.
0	Left	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
1	Right	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
2	Left	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
3	Right	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
4	Left	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
5	Right	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535





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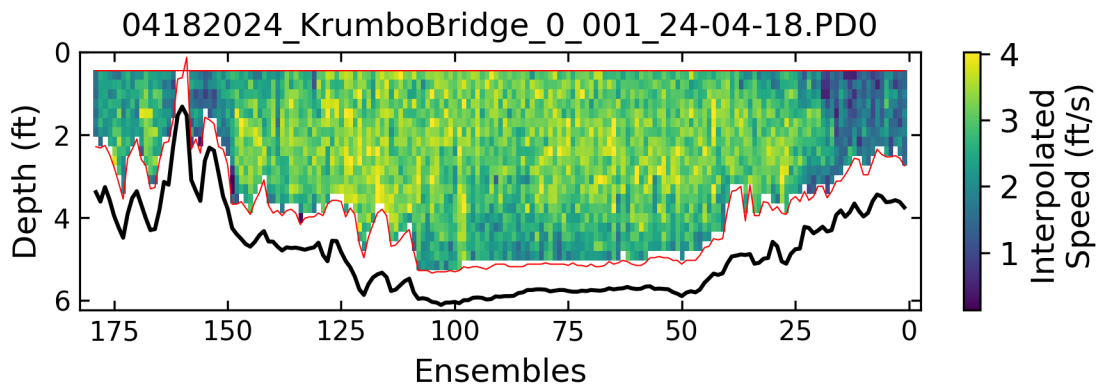
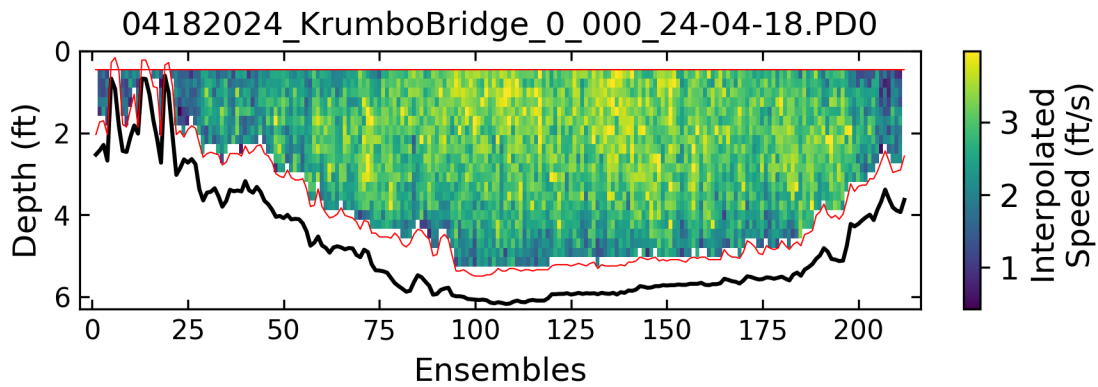
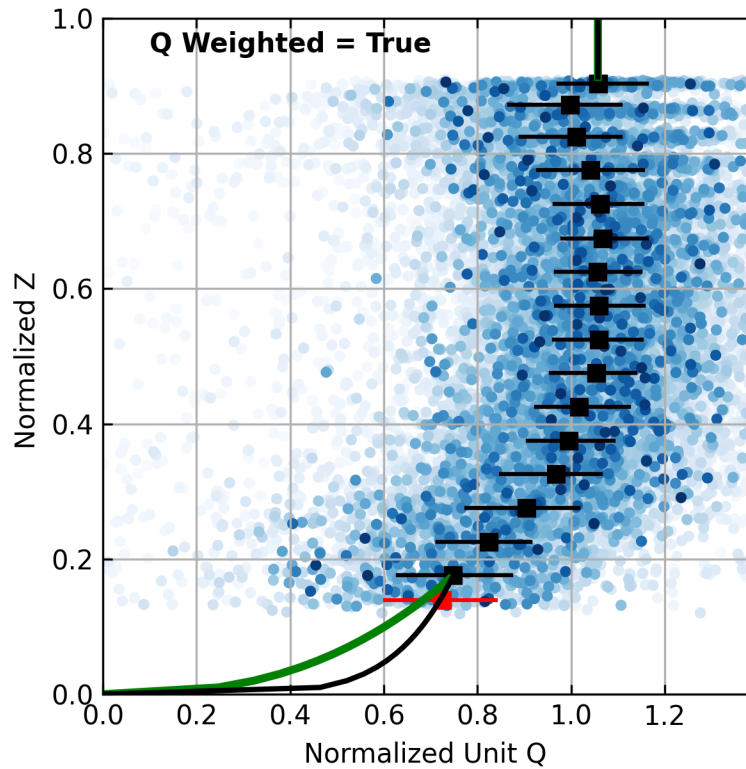
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