



QRev Discharge Measurement Report

1 of 5

Station Name: 08302024_Sodhouse

Station Number:

Measurement Date: 2024.08.30

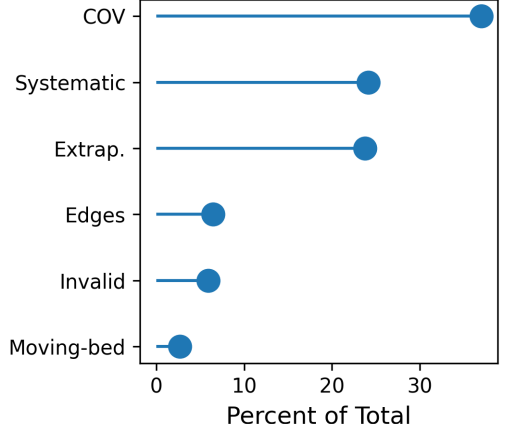
Measurement Number: 0

Discharge: 30.28

Stage: 0.00

User Rating: Not Rated

Processed: 2024.09.02 13:00:59

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	30.28	Mean Velocity (ft/s):	0.577
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.150
Version:	4.37	Total Duration (s):	1371.8	Mean Depth (ft):	2.068
ADCP		Start Time:	11:15:21	Max. Depth (ft):	3.367
Manufacturer:	TRDI	End Time:	11:52:31	Width (ft):	25.434
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.61
Serial Number:	2673	Stage End:	0.00	Area (ft2):	52.589
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.66
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.105	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	15.722222	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.1 	
W. Temp. ADCP (C):		Extrap Exponent:	0.1667		
System Test:	Passed	Discharg COV (%):	3.54		
Compass Cal/Eval:	0.60	Top Q (%):	15.94		
Magnetic Variaton:	13.5	Measured Q (%):	62.27		
MovBed Test Type:	Loop	Left Q (%):	3.91		
MovBed Test Quality:	Warnings	Right Q (%):	1.27		
MovBed Test Dur.(s):	297.8	Bottom Q (%):	16.61		
Max MovBed (%):	0.14	Invalid Cells Q (%):	0.83		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	6.60		

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 2.6 C;

Cautions

- bt-Int. Q for consecutive invalid ensembles exceeds 3.0%;
- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Moving-Bed Test: The moving-bed test(s) has warnings, please review tests to determine validity;
- Site Info: Station number not entered;
- Extrapolation: User modified default automatic setting.

Comments:

- MMT Remarks:
- [Extrap, 2024-09-02 12:54:28, sarah]: Automatic chosen extrapolation best fit.



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Processed: 2024.09.02 13:00:59

Comments:

- [Main, 2024-09-02 12:55:13, sarah]: No moving bed, still having extreme issues with zero bins at edges. Originally thought it could be caused by vegetation missed during cleaning, however, this visit observed small fish in the water column. When throwing gravel in near ADCP zero bin issues stop and come back, zeroes could likely be caused by these small fish moving in front of the sensor.
- [Main, 2024-09-02 13:00:28, sarah]: Very slow moving water causing some uncontrollable boat movements.
- [2024-09-02 13:00:55, sarah]: File Saved Q = 30.28 ft³/s (Uncertainty: 6.1%)

ID	File Name
0	08302024_Sodhouse_0_000_24-08-30.PD0
1	08302024_Sodhouse_0_001_24-08-30.PD0
6	08302024_Sodhouse_0_006_24-08-30.PD0
9	08302024_Sodhouse_0_009_24-08-30.PD0
10	08302024_Sodhouse_0_010_24-08-30.PD0
13	08302024_Sodhouse_0_013_24-08-30.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	11:15:21	11:19:23	242.2	5.0	19.23	4.6	1.19	0.46	30.49
1	Right	11:19:42	11:23:30	227.8	5.12	19.24	4.44	1.06	0.15	30.02
6	Left	11:27:16	11:31:04	227.5	5.15	19.52	5.54	1.06	0.52	31.78
9	Right	11:38:23	11:42:42	258.5	4.47	18.31	5.19	1.45	0.09	29.52
10	Left	11:42:59	11:46:33	214.5	5.01	19.16	5.35	1.11	0.46	31.08
13	Right	11:52:31	11:55:52	201.2	4.2	17.68	5.07	1.23	0.63	28.81
				1371.8	4.83	18.86	5.03	1.18	0.39	30.28

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	3.00	10	0.3535	Triangular	3.50	10	0.3535
1	Right	Triangular	3.00	10	0.3535	Triangular	3.50	10	0.3535
6	Left	Triangular	3.00	10	0.3535	Triangular	3.50	10	0.3535
9	Right	Triangular	3.00	10	0.3535	Triangular	3.50	10	0.3535
10	Left	Triangular	3.00	10	0.3535	Triangular	3.50	10	0.3535
13	Right	Triangular	3.00	10	0.3535	Triangular	3.50	10	0.3535



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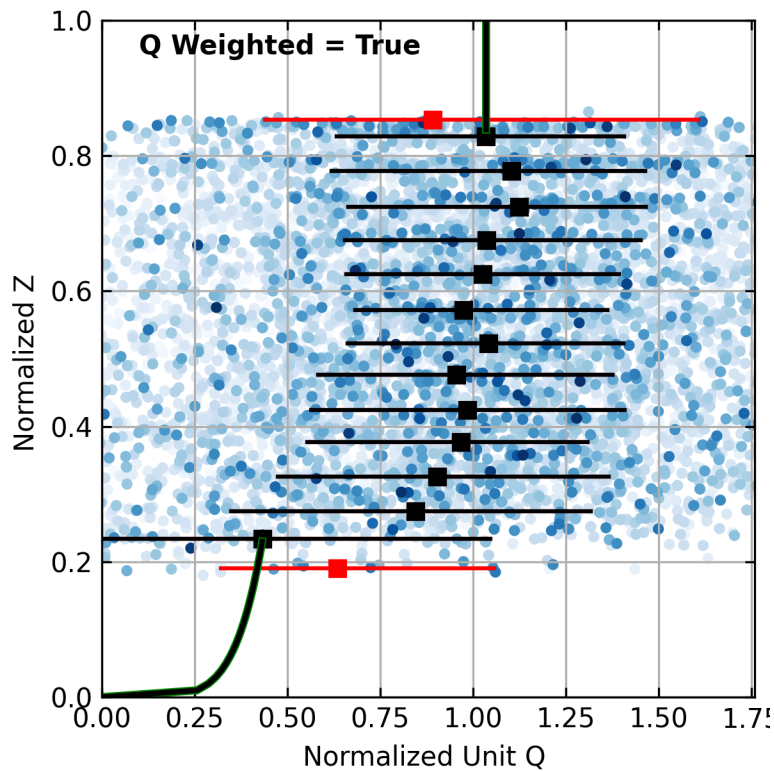
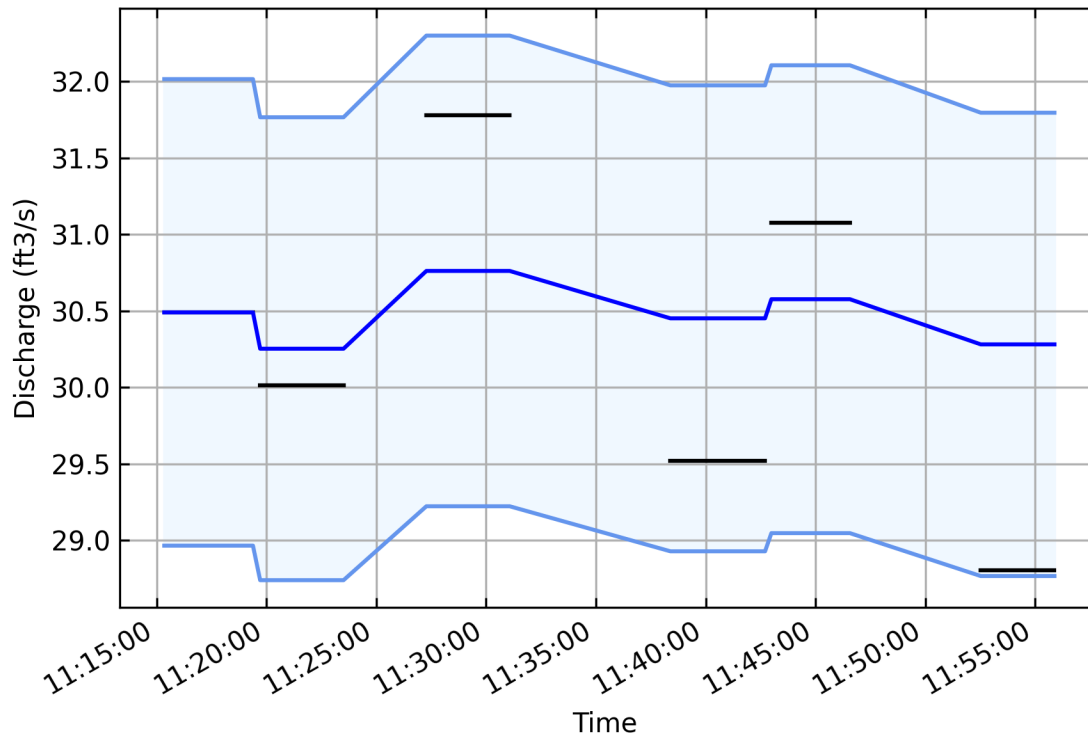
Measurement Number: 0

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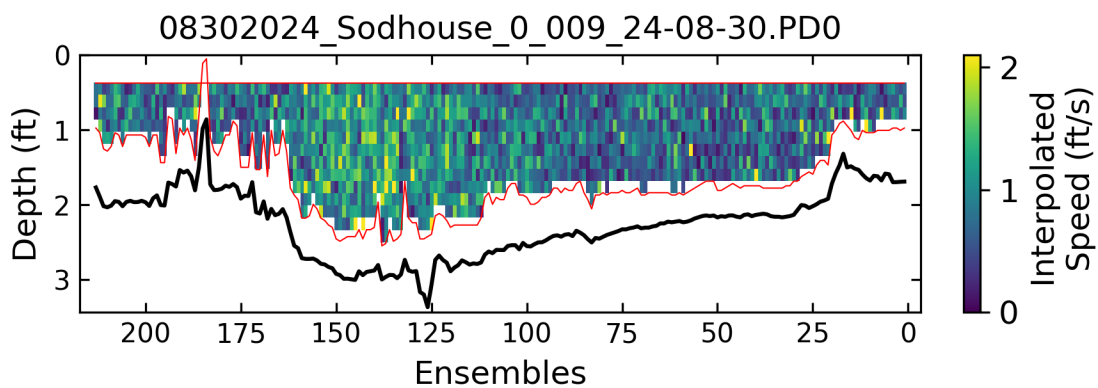
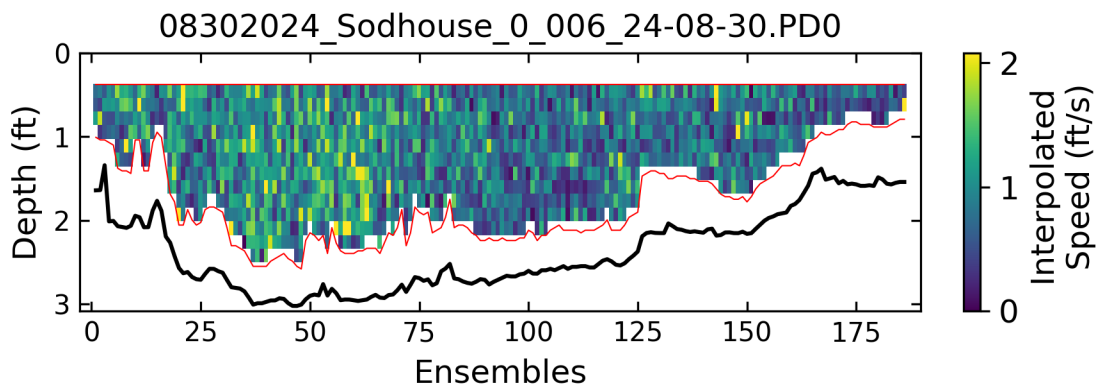
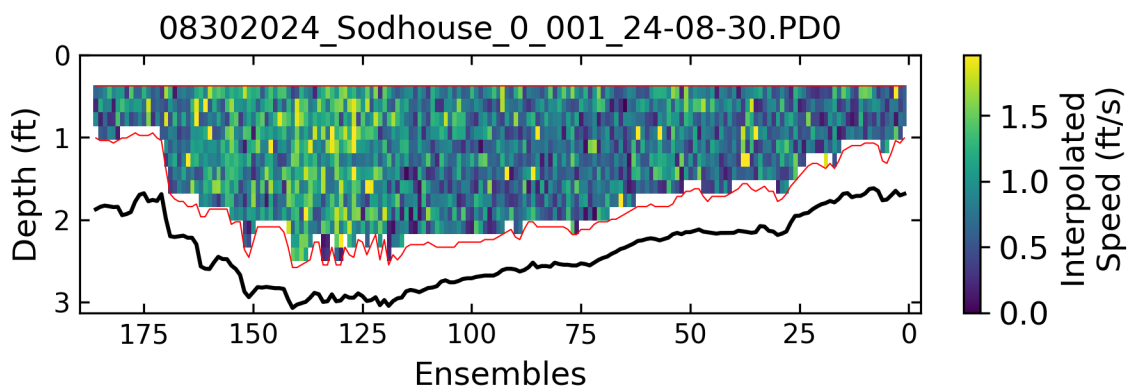
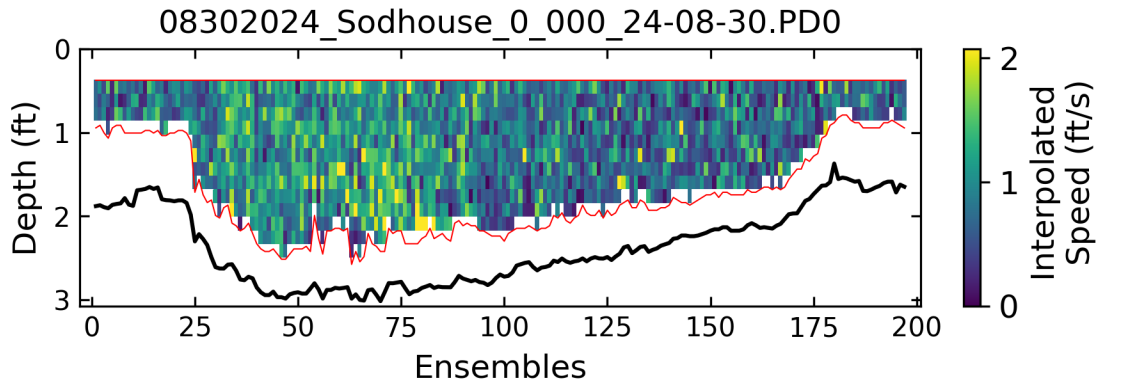
Measurement Number: 0

Discharge: 30.28

Stage: 0.00

User Rating: Not Rated

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Measurement Number: 0

Discharge: 30.28

Stage: 0.00

User Rating: Not Rated

Processed: 2024.09.02 13:01:00

