



QRev Discharge Measurement Report

1 of 6

Station Name: 07292024_Sodhouse

Station Number:

Measurement Date: 2024.07.29

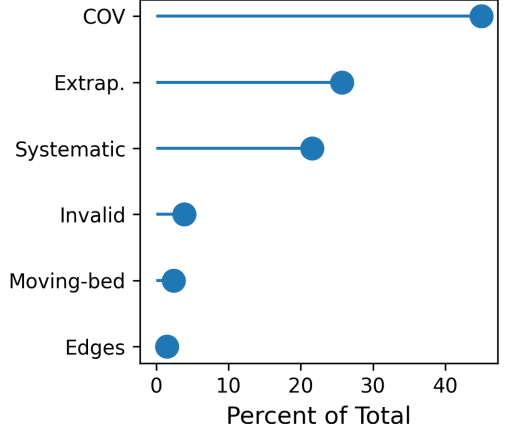
Measurement Number: 0

Discharge: 71.76

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.08 10:15:46

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	71.76	Mean Velocity (ft/s):	0.926
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.541
Version:	4.37	Total Duration (s):	2091.9	Mean Depth (ft):	2.882
ADCP		Start Time:	17:22:47	Max. Depth (ft):	4.383
Manufacturer:	TRDI	End Time:	18:04:16	Width (ft):	26.898
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	3.05
Serial Number:	2673	Stage End:	0.00	Area (ft2):	77.512
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.53
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.125	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	22.122222	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.5 	
W. Temp. ADCP (C):		Extrap Exponent:	0.4758		
System Test:	Passed	Discharg COV (%):	5.18		
Compass Cal/Eval:	0.51	Top Q (%):	12.96		
Magnetic Variaton:	13.5	Measured Q (%):	72.13		
MovBed Test Type:	Loop	Left Q (%):	1.39		
MovBed Test Quality:	Warnings	Right Q (%):	1.20		
MovBed Test Dur.(s):	330.3	Bottom Q (%):	12.32		
Max MovBed (%):	0.45	Invalid Cells Q (%):	0.70		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	5.67		

Automated QA Messages:

WARNINGS

Cautions

- 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;
- Transects: ['07292024_Sodhouse_0_000_24-07-29', '07292024_Sodhouse_0_001_24-07-29', '07292024_Sodhouse_0_002_24-07-29', '07292024_Sodhouse_0_004_24-07-29', '07292024_Sodhouse_0_006_24-07-29', '07292024_Sodhouse_0_007_24-07-29', '07292024_Sodhouse_0_008_24-07-29', '07292024_Sodhouse_0_009_24-07-29'] have battery voltage less than 10.5
- Site Info: Station number not entered;
- Extrapolation: User modified default automatic setting.



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User Rating: Not Rated

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Comments:

- MMT Remarks:
- [Extrap, 2024-08-08 10:12:11, sarah]: Automated extrapolation chosen best fit.
- [MovBedTst, 2024-08-08 10:13:05, sarah]: Moving bed test accurate, possible carp or vegetation caught on rocks in the transect could be causing zero bin issues along the transect. Transect has been recently cleaned before measurement, however, a lot of vegetation has been moving through this section and could be caught in bottom.
- [Main, 2024-08-08 10:14:53, sarah]: No station number for this location. High winds during measurement caused some variation in discharge averages of transects.
- [2024-08-08 10:15:41, sarah]: File Saved Q = 71.76 ft³/s (Uncertainty: 6.5%)

ID	File Name
0	07292024_Sodhouse_0_000_24-07-29.PD0
1	07292024_Sodhouse_0_001_24-07-29.PD0
2	07292024_Sodhouse_0_002_24-07-29.PD0
4	07292024_Sodhouse_0_004_24-07-29.PD0
6	07292024_Sodhouse_0_006_24-07-29.PD0
7	07292024_Sodhouse_0_007_24-07-29.PD0
8	07292024_Sodhouse_0_008_24-07-29.PD0
9	07292024_Sodhouse_0_009_24-07-29.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	17:22:47	17:26:59	252.2	8.89	53.37	10.21	0.82	0.76	74.05
1	Right	17:27:11	17:31:31	260.3	9.68	54.48	9.13	1.02	0.69	74.99
2	Left	17:31:39	17:35:28	229.0	9.4	55.27	10.47	0.73	0.67	76.54
4	Right	17:37:23	17:41:35	251.6	8.64	50.16	7.93	1.37	0.78	68.87
6	Left	17:49:15	17:53:59	284.4	9.77	48.91	8.96	0.97	1.14	69.76
7	Right	17:54:14	17:58:44	270.0	8.47	47.81	6.47	1.3	1.09	65.15
8	Left	17:59:00	18:04:04	304.1	10.03	52.25	8.99	1.2	0.75	73.21
9	Right	18:04:16	18:08:16	240.3	9.54	51.83	8.54	0.6	1.0	71.5
				2091.9	9.3	51.76	8.84	1.0	0.86	71.76



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Measurement Date: 2024.07.29

Measurement Number: 0

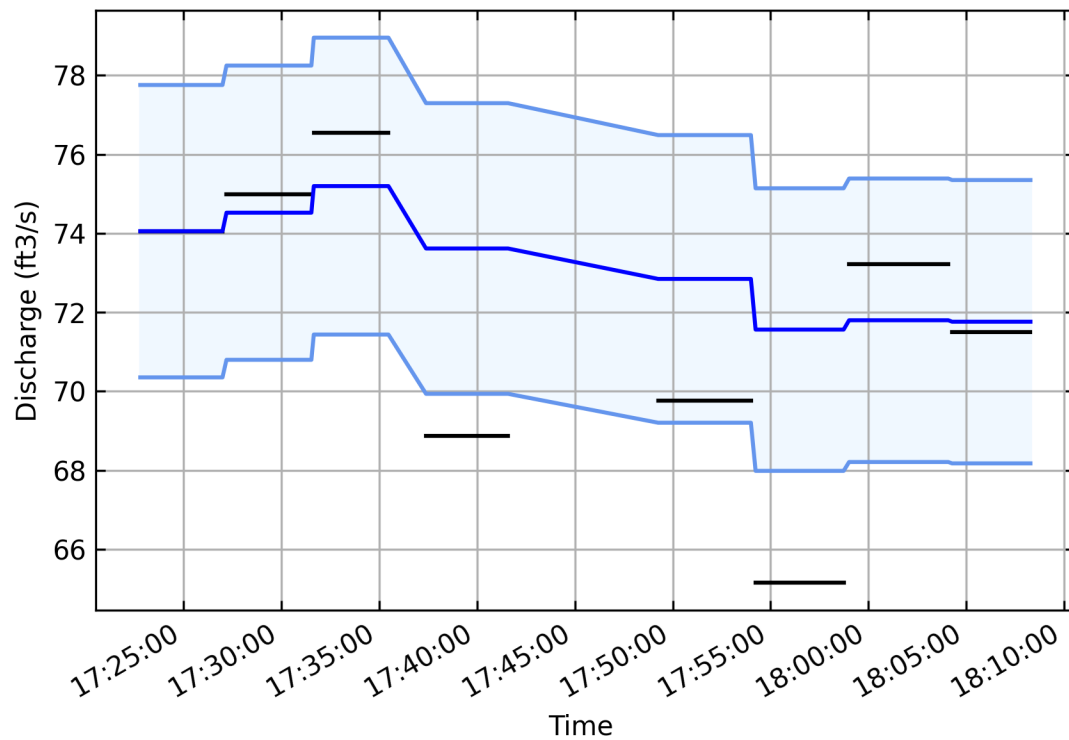
Discharge: 71.76

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.08 10:15:47

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	2.00	10	0.3535	Triangular	3.00	10	0.3535
1	Right	Triangular	2.00	10	0.3535	Triangular	3.00	10	0.3535
2	Left	Triangular	2.00	10	0.3535	Triangular	3.00	10	0.3535
4	Right	Triangular	3.00	10	0.3535	Triangular	2.00	10	0.3535
6	Left	Triangular	2.00	10	0.3535	Triangular	3.00	10	0.3535
7	Right	Triangular	2.00	10	0.3535	Triangular	3.00	10	0.3535
8	Left	Triangular	2.00	10	0.3535	Triangular	3.00	10	0.3535
9	Right	Triangular	2.00	10	0.3535	Triangular	3.00	10	0.3535





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Station Name: 07292024_Sodhouse

Station Number:

Measurement Date: 2024.07.29

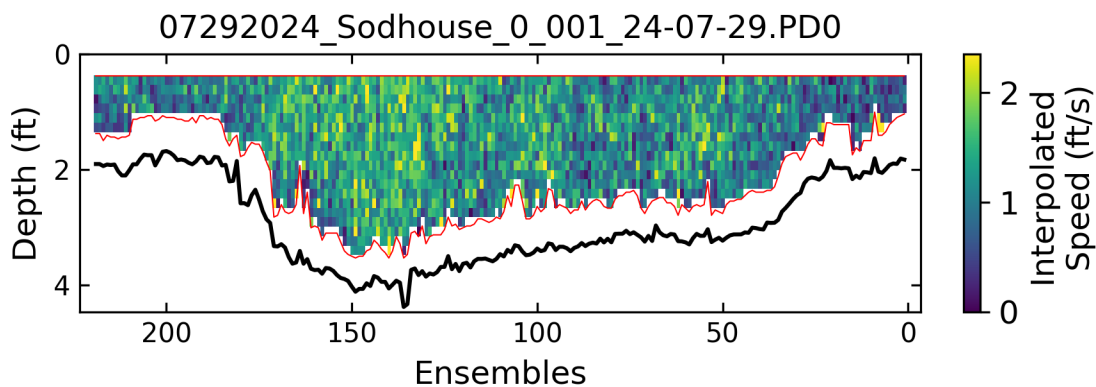
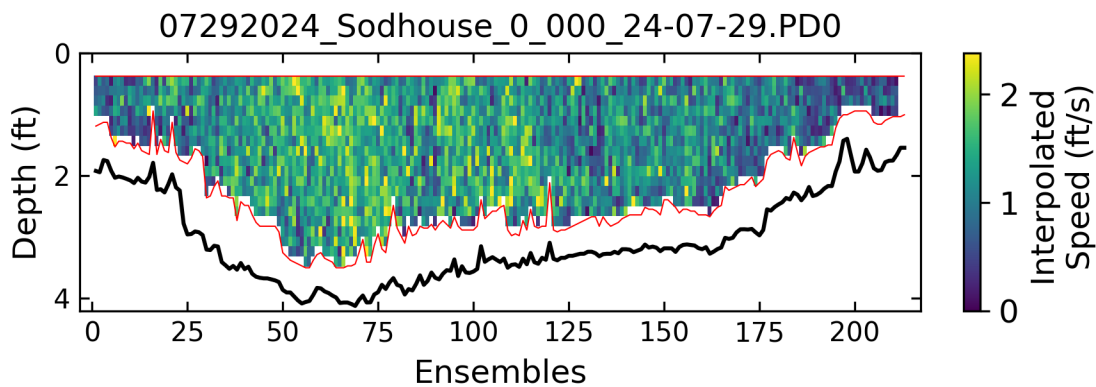
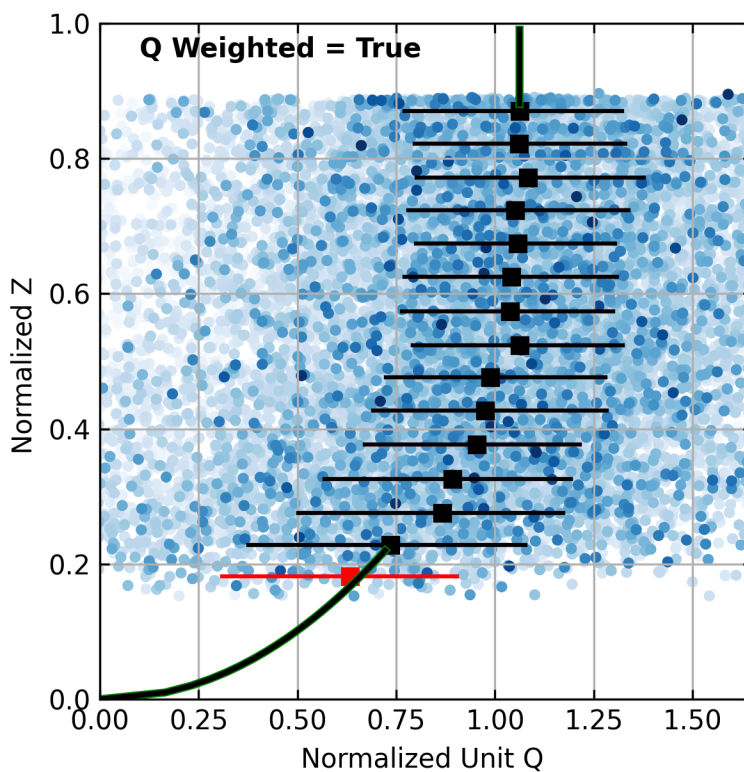
Measurement Number: 0

Discharge: 71.76

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.08 10:15:47





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Measurement Date: 2024.07.29

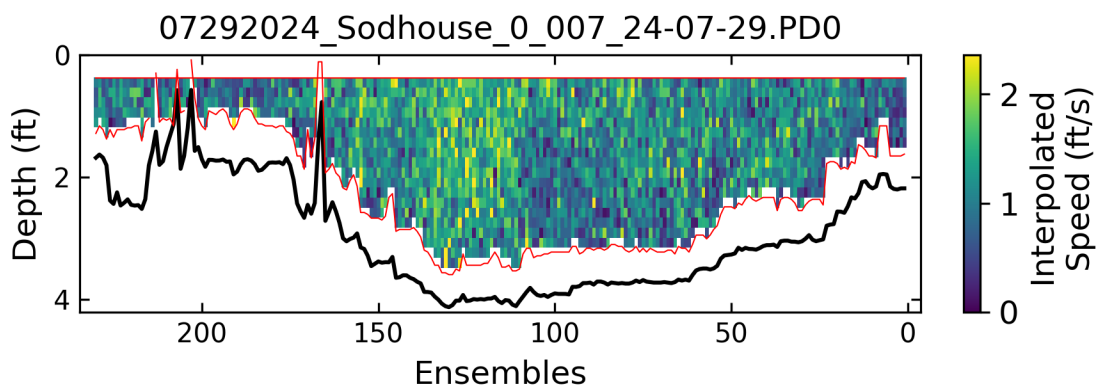
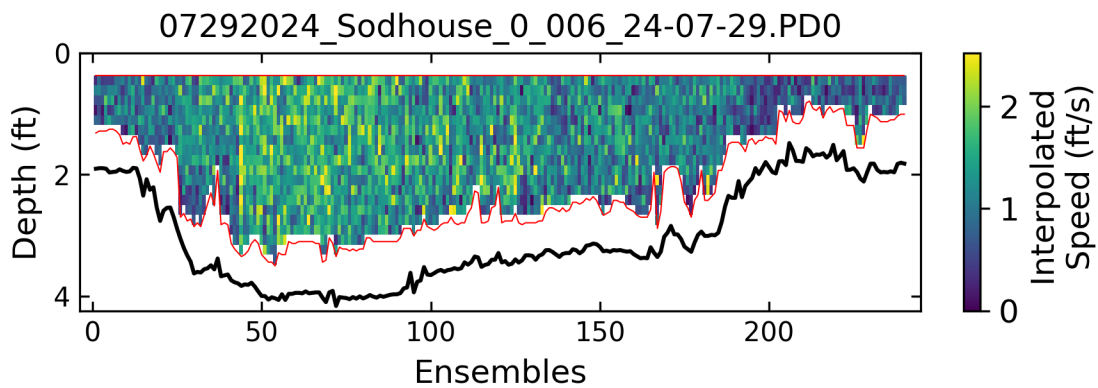
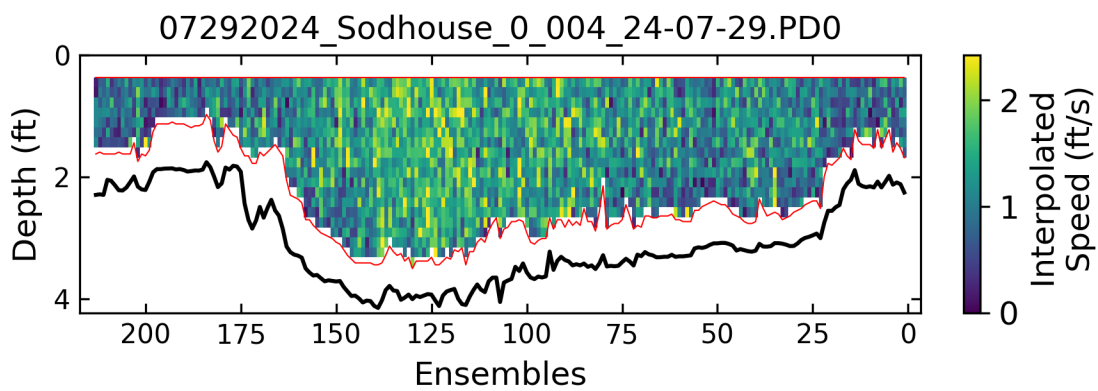
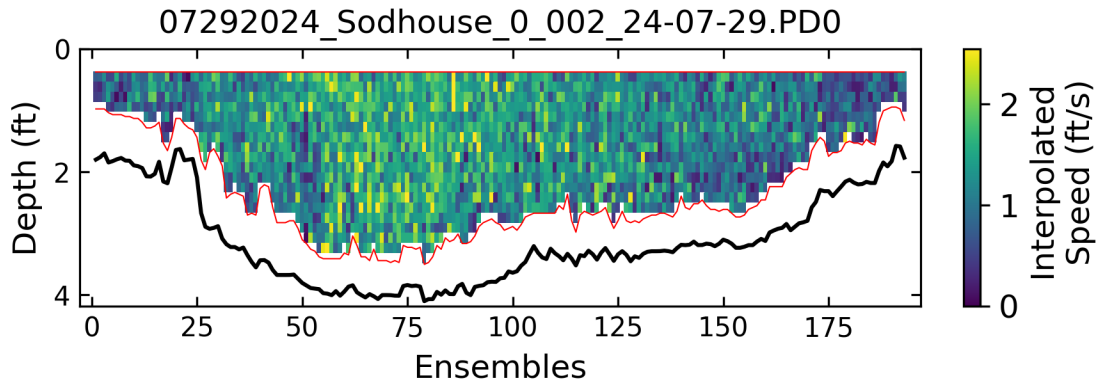
Measurement Number: 0

Discharge: 71.76

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.08 10:15:47





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Station Number:

Measurement Date: 2024.07.29

Measurement Number: 0

Discharge: 71.76

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.08 10:15:48

