

Discharge Measurement Summary

Site name Center2
Site number 04
Operator(s) TMiller
File name Center2_20230512-110336.ft
Comment

Start time	5/12/2023 10:03 AM	Sensor type	Top Setting
End time	5/12/2023 10:59 AM	Handheld serial number	FT2H2219029
Start location latitude	43.029	Probe serial number	FT2P2219014
Start location longitude	-118.842	Probe firmware	1.30
Calculations engine	FlowTracker2	Handheld software	1.7

# Stations	Avg interval (s)	Total discharge (m³/s)
27	40	0.4197

Total width (m)	Total area (m²)	Wetted Perimeter (m)
6.888	3.70609	7.405

Mean SNR (dB)	Mean depth (m)	Mean velocity (m/s)
38	0.538	0.1133

Mean temp (°C)	Max depth (m)	Max velocity (m/s)
11.310	0.792	0.1548

Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.1%	1.9%
Velocity	0.2%	1.6%
Width	0.1%	0.1%
Method	0.9%	
# Stations	1.9%	
Overall	2.3%	2.7%

Discharge equation	Mid Section
Discharge uncertainty	IVE
Discharge reference	Rated

Data Collection Settings	
Salinity	0.000 PSS-78
Temperature	-
Sound speed	-
Mounting correction	0.000 %

Summary overview

No changes were made to this file
Quality control warnings



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Station Warning Settings

Station discharge OK

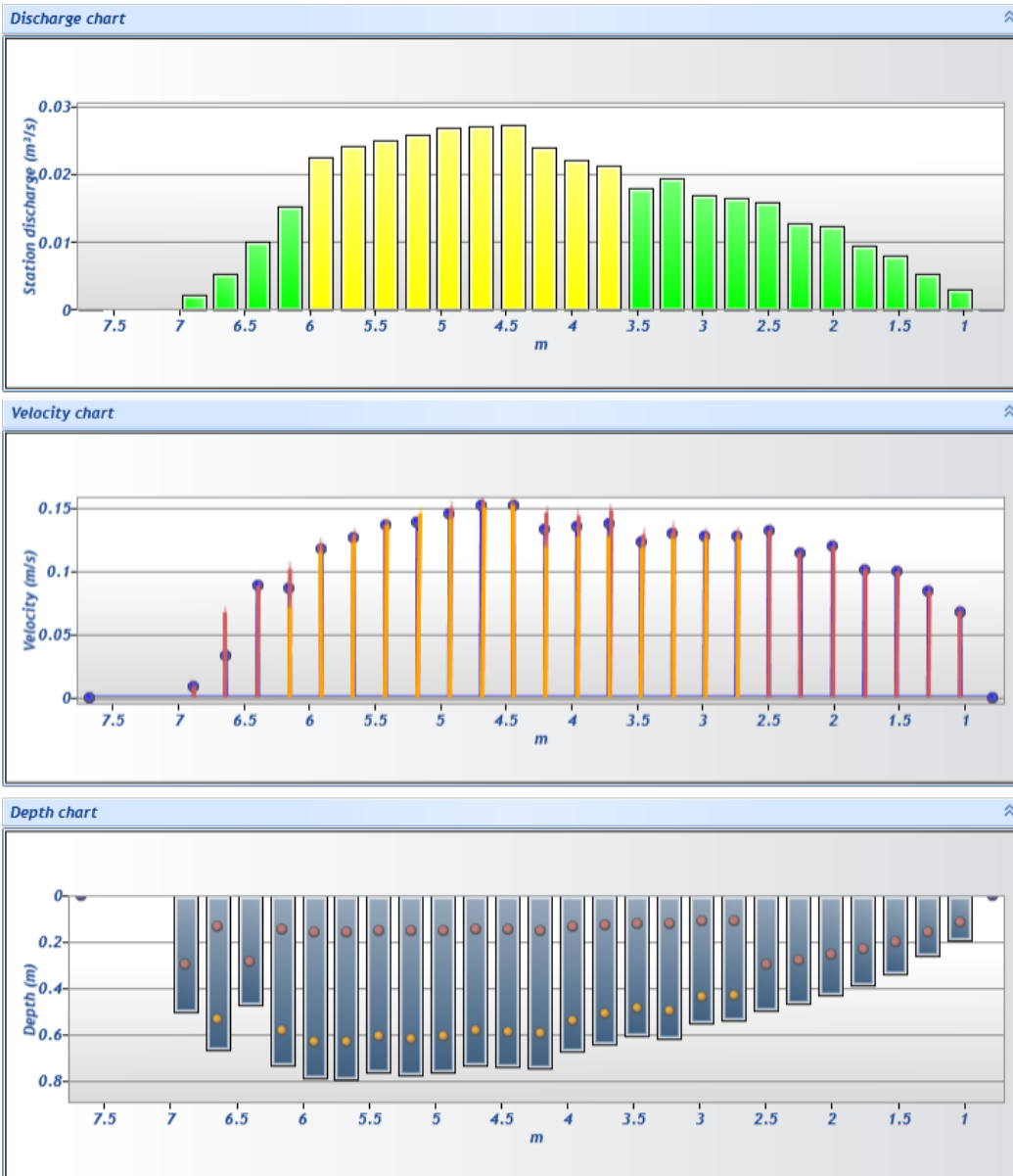
Station discharge < 5.00%

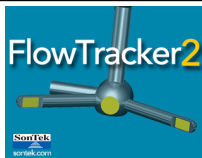
Station discharge caution

5.00% >= Station discharge < 10.00%

Station discharge warning

Station discharge >= 10.00%



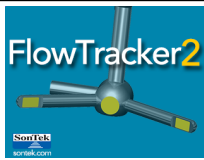


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Measurement results

St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Samples	Velocity (m/s)	Correction	Mean Velocity (m/s)	Area (m ²)	Flow (m ³ /s)	%Q	
0	10:03 AM	0.792	None	0.000	0.0000	0.000	0	0.0000	1.0000	0.0681	0.00000	0.0000	0.00	✓
1	10:03 AM	1.036	0.6	0.189	0.6000	0.113	80	0.0681	1.0000	0.0681	0.04608	0.0031	0.75	✓
2	10:06 AM	1.280	0.6	0.259	0.6000	0.155	80	0.0840	1.0000	0.0840	0.06317	0.0053	1.26	✓
3	10:08 AM	1.524	0.6	0.338	0.6000	0.203	80	0.0994	1.0000	0.0994	0.08250	0.0082	1.95	✓
4	10:09 AM	1.768	0.6	0.387	0.6000	0.232	80	0.1014	1.0000	0.1014	0.09439	0.0096	2.28	✓
5	10:11 AM	2.012	0.6	0.430	0.6000	0.258	80	0.1194	1.0000	0.1194	0.10479	0.0125	2.98	✓
6	10:12 AM	2.256	0.6	0.466	0.6000	0.280	80	0.1141	1.0000	0.1141	0.11371	0.0130	3.09	✓
7	10:14 AM	2.499	0.6	0.494	0.6000	0.296	80	0.1321	1.0000	0.1321	0.12040	0.0159	3.79	✓
8	10:15 AM	2.743	0.2/0.8	0.536	0.2000	0.107	80	0.1298	1.0000	0.1276	0.13081	0.0167	3.98	✓
8	10:15 AM	2.743	0.2/0.8	0.536	0.8000	0.429	80	0.1254	1.0000	0.1276	0.13081	0.0167	3.98	✓
9	10:18 AM	2.987	0.2/0.8	0.549	0.2000	0.110	80	0.1294	1.0000	0.1270	0.13378	0.0170	4.05	✓
9	10:18 AM	2.987	0.2/0.8	0.549	0.8000	0.439	80	0.1246	1.0000	0.1270	0.13378	0.0170	4.05	✓
10	10:20 AM	3.231	0.2/0.8	0.619	0.2000	0.124	80	0.1340	1.0000	0.1298	0.15087	0.0196	4.67	✓
10	10:20 AM	3.231	0.2/0.8	0.619	0.8000	0.495	80	0.1256	1.0000	0.1298	0.15087	0.0196	4.67	✓
11	10:23 AM	3.475	0.2/0.8	0.604	0.2000	0.121	80	0.1288	1.0000	0.1236	0.14716	0.0182	4.33	✓
11	10:23 AM	3.475	0.2/0.8	0.604	0.8000	0.483	80	0.1184	1.0000	0.1236	0.14716	0.0182	4.33	✓
12	10:25 AM	3.719	0.2/0.8	0.640	0.2000	0.128	80	0.1478	1.0000	0.1373	0.15608	0.0214	5.11	✓
12	10:25 AM	3.719	0.2/0.8	0.640	0.8000	0.512	80	0.1268	1.0000	0.1373	0.15608	0.0214	5.11	✓
13	10:28 AM	3.962	0.2/0.8	0.674	0.2000	0.135	80	0.1436	1.0000	0.1354	0.16425	0.0222	5.30	✓
13	10:28 AM	3.962	0.2/0.8	0.674	0.8000	0.539	80	0.1272	1.0000	0.1354	0.16425	0.0222	5.30	✓
14	10:30 AM	4.206	0.2/0.8	0.744	0.2000	0.149	80	0.1460	1.0000	0.1325	0.18135	0.0240	5.72	✓
14	10:30 AM	4.206	0.2/0.8	0.744	0.8000	0.595	80	0.1189	1.0000	0.1325	0.18135	0.0240	5.72	✓
15	10:33 AM	4.450	0.2/0.8	0.738	0.2000	0.148	80	0.1528	1.0000	0.1522	0.17986	0.0274	6.52	✓
15	10:33 AM	4.450	0.2/0.8	0.738	0.8000	0.590	80	0.1515	1.0000	0.1522	0.17986	0.0274	6.52	✓
16	10:35 AM	4.694	0.2/0.8	0.732	0.2000	0.146	80	0.1548	1.0000	0.1523	0.17837	0.0272	6.47	✓
16	10:35 AM	4.694	0.2/0.8	0.732	0.8000	0.585	80	0.1498	1.0000	0.1523	0.17837	0.0272	6.47	✓
17	10:38 AM	4.938	0.2/0.8	0.759	0.2000	0.152	80	0.1503	1.0000	0.1457	0.18506	0.0270	6.42	✓
17	10:38 AM	4.938	0.2/0.8	0.759	0.8000	0.607	80	0.1410	1.0000	0.1457	0.18506	0.0270	6.42	✓
18	10:40 AM	5.182	0.2/0.8	0.771	0.2000	0.154	80	0.1317	1.0000	0.1385	0.18804	0.0260	6.20	✓
18	10:40 AM	5.182	0.2/0.8	0.771	0.8000	0.617	80	0.1453	1.0000	0.1385	0.18804	0.0260	6.20	✓
19	10:42 AM	5.425	0.2/0.8	0.759	0.2000	0.152	80	0.1355	1.0000	0.1361	0.18506	0.0252	6.00	✓
19	10:42 AM	5.425	0.2/0.8	0.759	0.8000	0.607	80	0.1367	1.0000	0.1361	0.18506	0.0252	6.00	✓
20	10:45 AM	5.669	0.2/0.8	0.792	0.2000	0.158	80	0.1291	1.0000	0.1259	0.19324	0.0243	5.80	✓
20	10:45 AM	5.669	0.2/0.8	0.792	0.8000	0.634	80	0.1227	1.0000	0.1259	0.19324	0.0243	5.80	✓
21	10:47 AM	5.913	0.2/0.8	0.786	0.2000	0.157	80	0.1214	1.0000	0.1180	0.19175	0.0226	5.39	✓
21	10:47 AM	5.913	0.2/0.8	0.786	0.8000	0.629	80	0.1146	1.0000	0.1180	0.19175	0.0226	5.39	✓
22	10:50 AM	6.157	0.2/0.8	0.732	0.2000	0.146	80	0.1016	1.0000	0.0861	0.17837	0.0154	3.66	✓
22	10:50 AM	6.157	0.2/0.8	0.732	0.8000	0.585	80	0.0706	1.0000	0.0861	0.17837	0.0154	3.66	✓
23	10:52 AM	6.401	0.6	0.472	0.6000	0.283	80	0.0885	1.0000	0.0885	0.11520	0.0102	2.43	✓
24	10:55 AM	6.645	0.2/0.8	0.668	0.2000	0.134	80	0.0671	1.0000	0.0332	0.16277	0.0054	1.29	✓
24	10:55 AM	6.645	0.2/0.8	0.668	0.8000	0.534	80	-0.0007	1.0000	0.0332	0.16277	0.0054	1.29	✓
25	10:57 AM	6.888	0.6	0.500	0.6000	0.300	80	0.0090	1.0000	0.0090	0.25901	0.0023	0.55	✓
26	10:59 AM	7.681	None	0.000	0.0000	0.000	0	0.0000		0.0090	0.00000	0.0000	0.00	✓

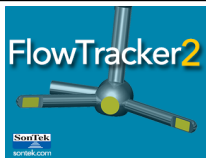


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Quality Control Settings	
Maximum depth change	50.00%
Maximum spacing change	100.00%
SNR threshold	10 dB
Standard error threshold	0.0100 m/s
Spike threshold	10.00%
Maximum velocity angle	20.0 deg
Maximum tilt angle	5.0 deg

Quality control warnings							
St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Warnings
24	10:55 AM	6.645	0.2/0.8	0.668	0.2000	0.134	Boundary Interference
24	10:55 AM	6.645	0.2/0.8	0.668	0.8000	0.534	Boundary Interference
25	10:57 AM	6.888	0.6	0.500	0.6000	0.300	Boundary Interference,SNR Threshold Variation
26	10:59 AM	7.681	None	0.000	0.0000	0.000	Stn Spacing > QC,Water Depth > QC



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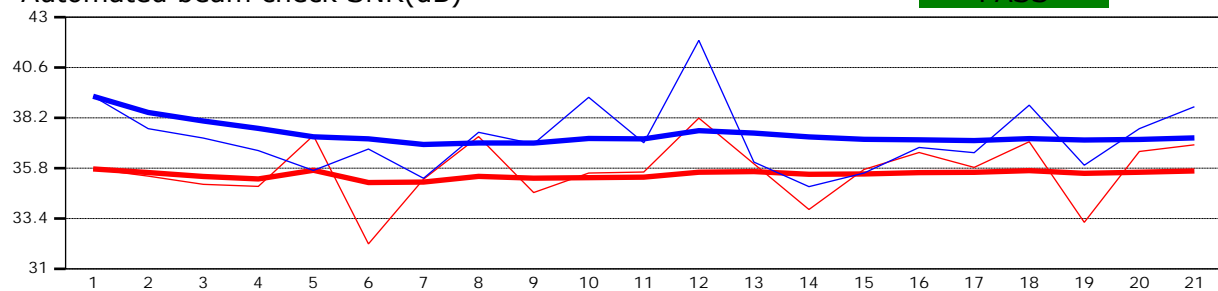
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Beam 1	
Beam 2	

Automated beam check Start time 5/12/2023 10:02:44 AM

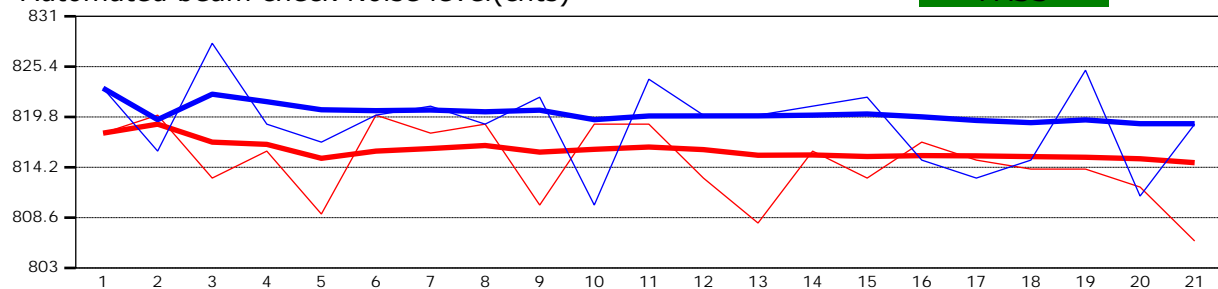
Automated beam check SNR(dB)

PASS



Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



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Beam 1	
Beam 2	

Automated beam check Start time 5/12/2023 10:02:44 AM

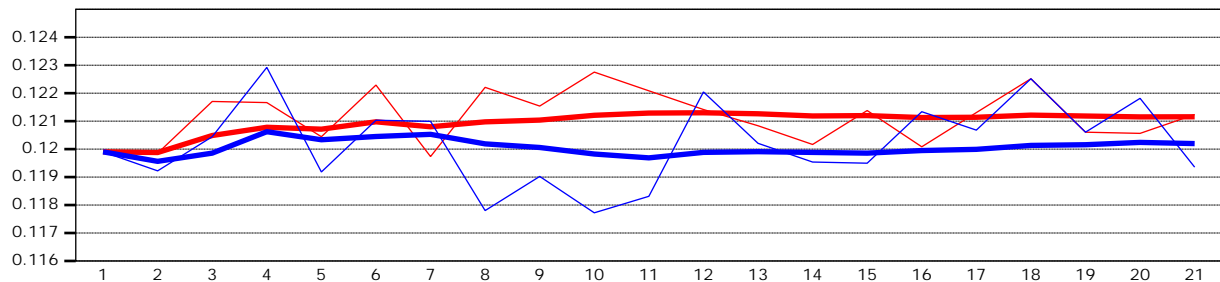
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(m)

PASS



Automated beam check Quality control warnings

No quality control warnings