Table A1. Locations and plots of cross-sectional velocity direction, velocity projected in the mean velocity direction, and average velocity for the measured water column on May 30, 2007.

[The average velocity is the mean absolute value of all velocities, not just in the projected direction. While making these measurements, the boat travels across the channel bank to bank, but depending on weather and flow conditions, the track may not be exactly straight. Deviations in boat track would not affect the final discharge values but would give an exaggerated length travelled. Several discharge measurements were made at each location and the discharge measurements used to produce the cross section plots were selected to minimize this error. However, since these cross-sectional plots include all information from the boat track, these cross-sections should not be used for detailed bathymetric work without further processing.]

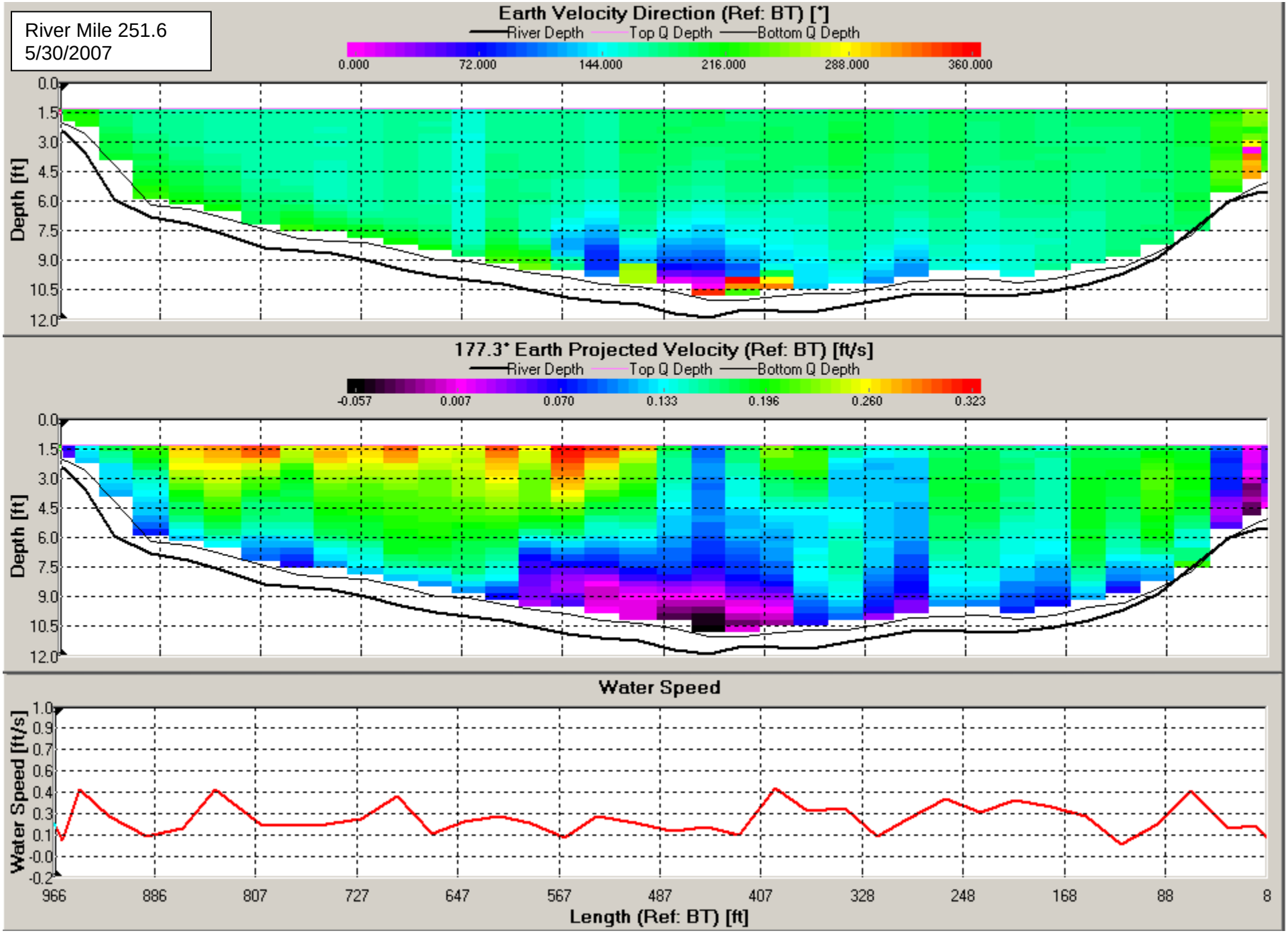
Summary of locations for acoustic Doppler cross-sections on May 30, 2007.

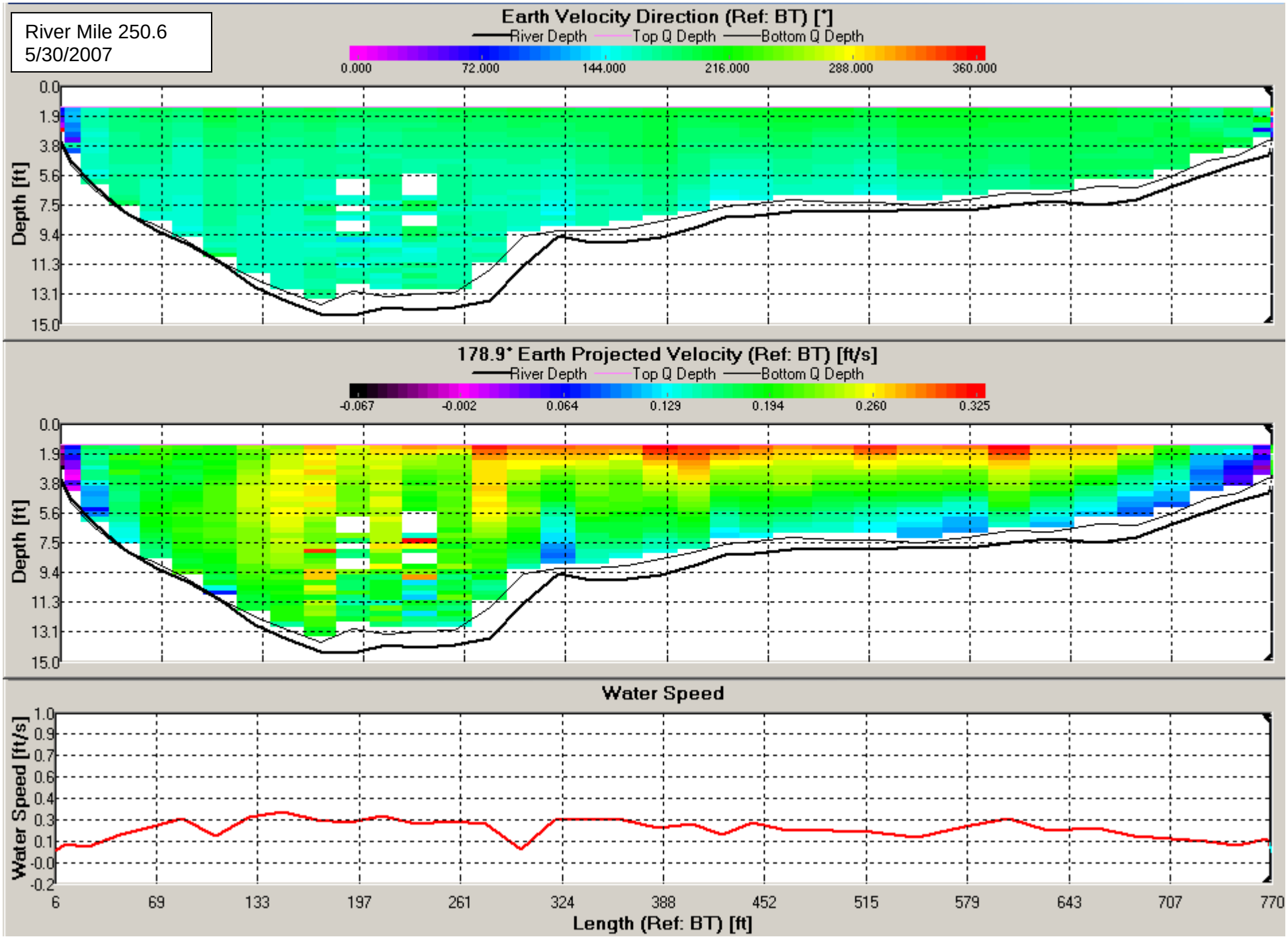
Klamath River

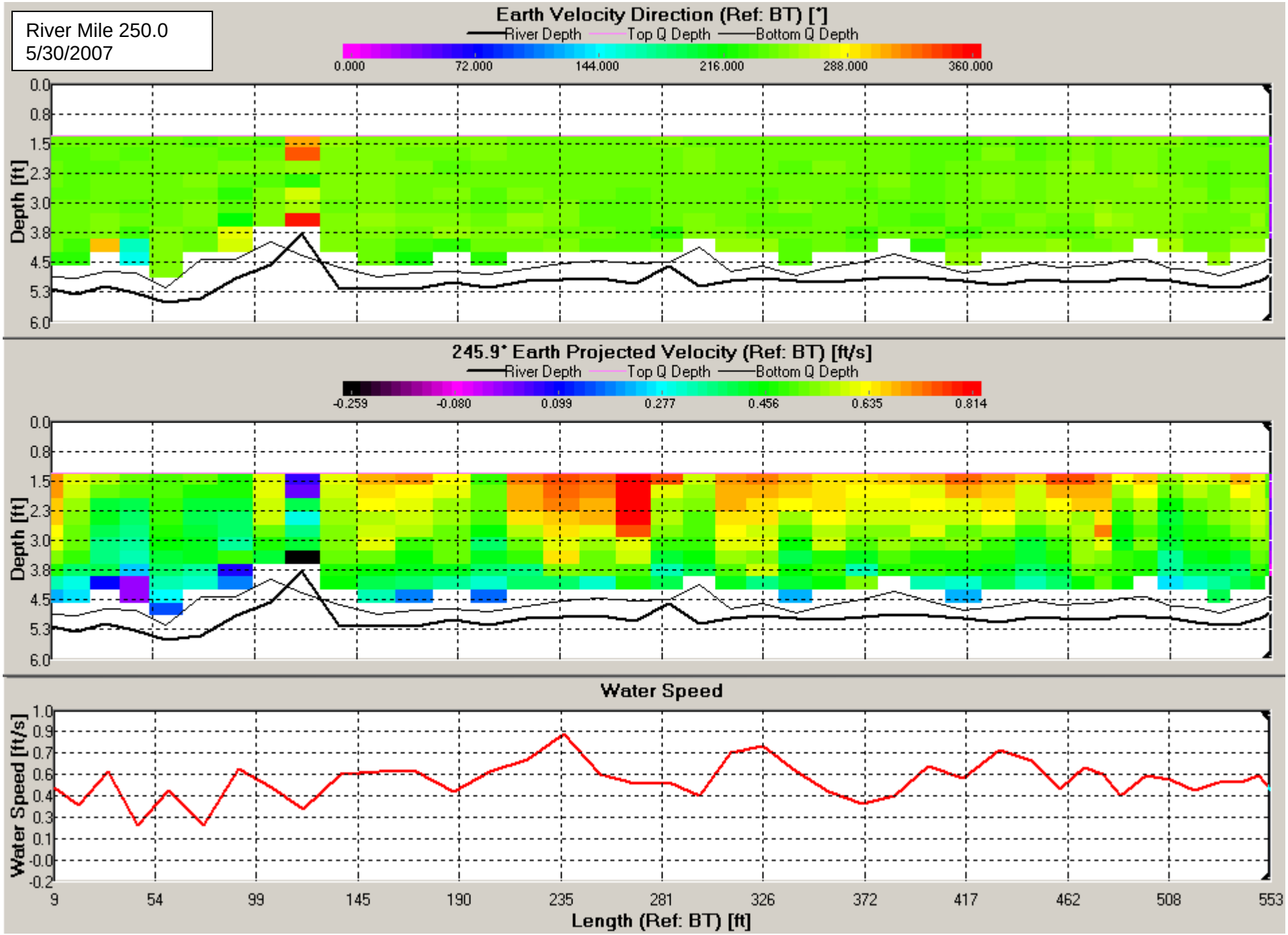
River Mile	***Coordinates N and W (NAD83/WGS84)***	***Site Description***	***Date***
251.6	42 12 07, 121 46 30	Klamath River downstream of railroad bridge	5/30/2007
250.6	42 11 26, 121 47 00	Klamath River downstream of Highway 140	5/30/2007
250.0	42 10 55, 121 47 19	Klamath River above Lost River	5/30/2007
249.2	42 10 28, 121 48 01	Klamath River downstream of Highway 97 100 ft	5/30/2007
245.7	42 08 43, 121 51 05	Klamath River Miller Island	5/30/2007
244.5	42 07 34, 121 51 06	Klamath River above marsh	5/30/2007
240.5	42 05 15, 121 52 15	Klamath River upstream of Straits Drain	5/30/2007
239.6	42 05 05, 121 53 03	Klamath River downstream of Straits Drain outlet	5/30/2007
236.3	42 07 20, 121 54 30	Klamath River	5/30/2007
234.8	42 07 39, 121 55 42	Klamath River near Highway 66	5/30/2007
233.5	42 08 13, 121 57 00	Klamath River above Keno Dam	5/30/2007

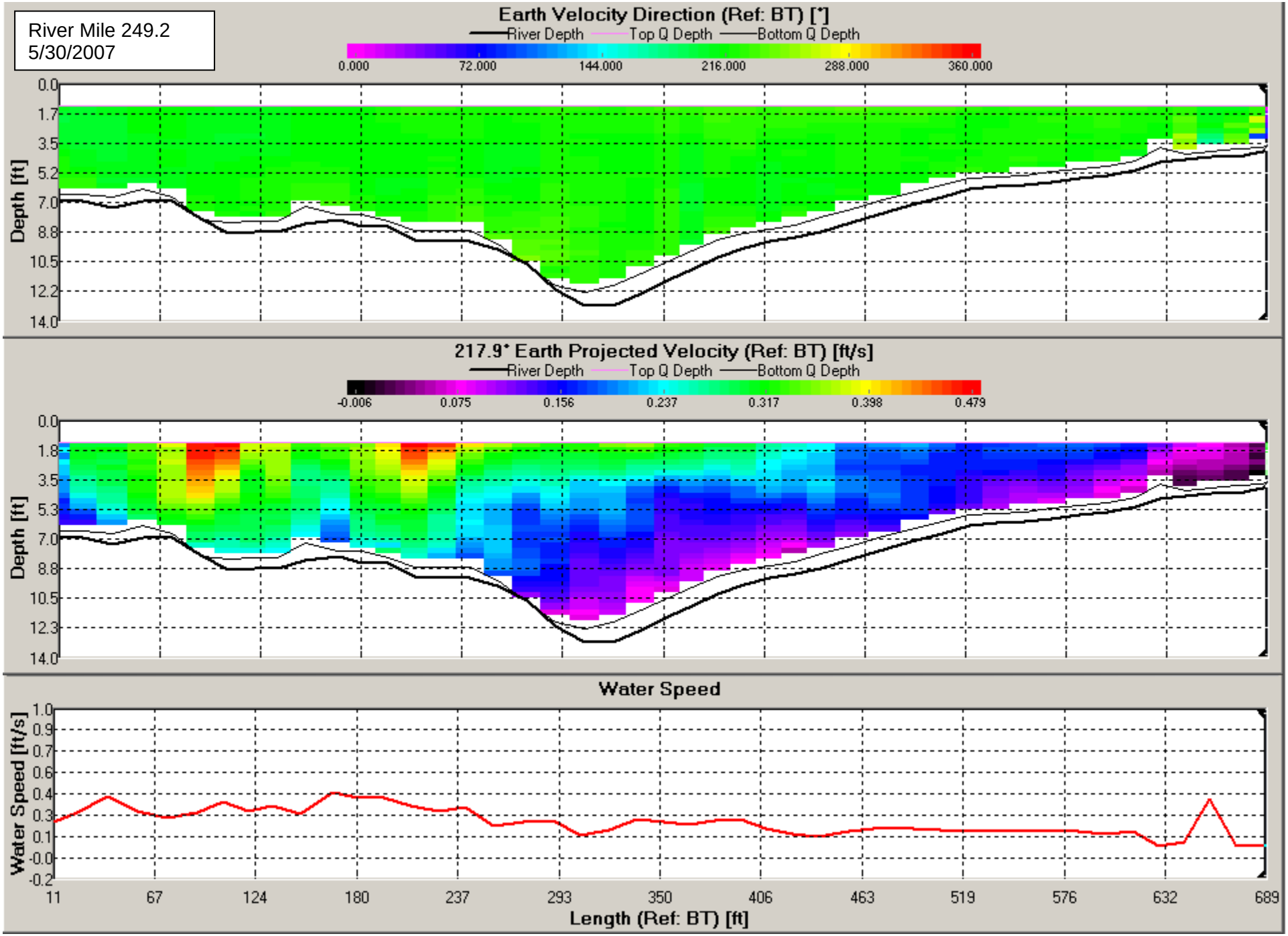
Major Input or Output

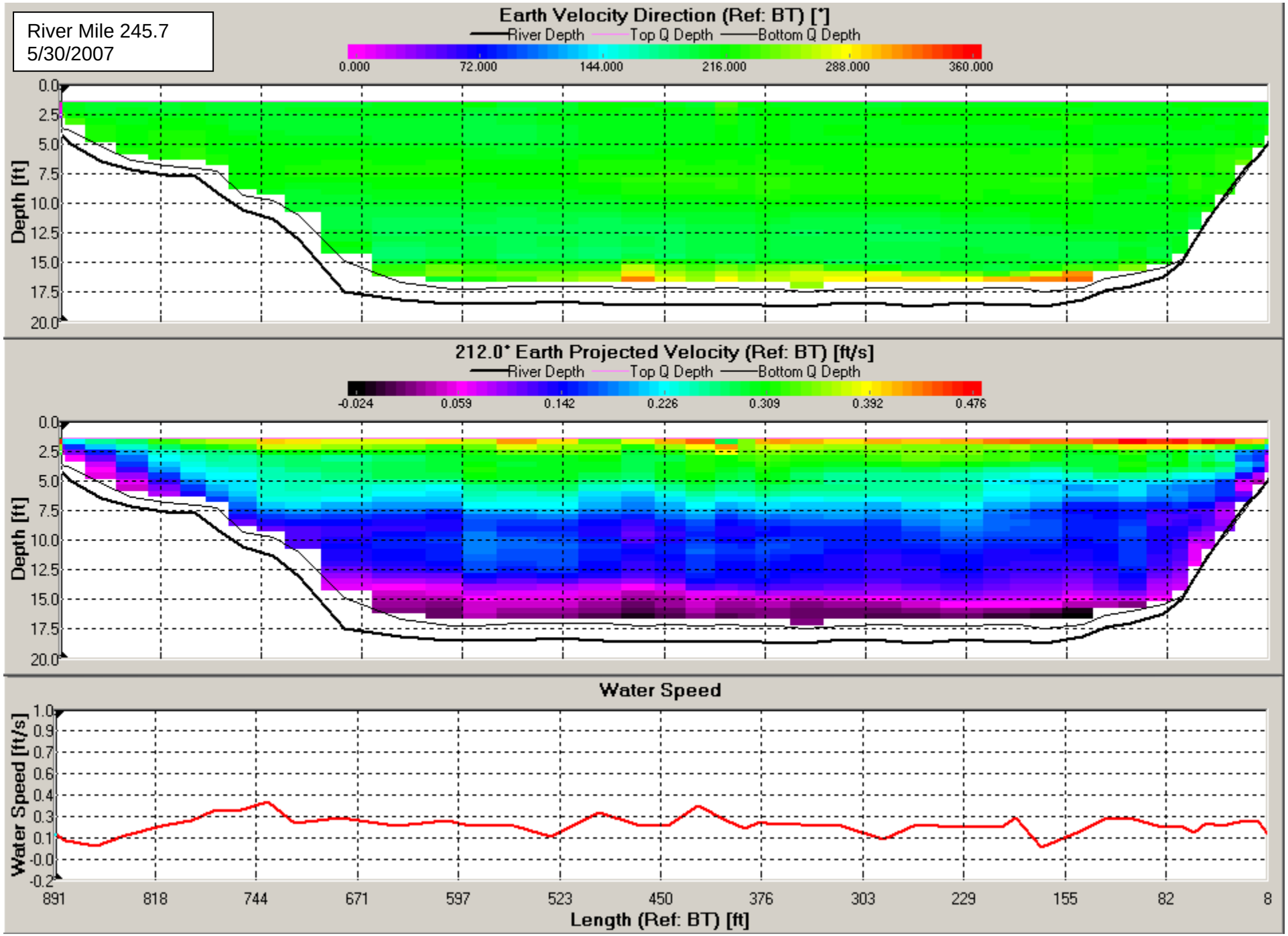
River Mile (intersection with Klamath R)	***Coordinates N and W (NAD83/WGS84)***	***Description***	***Date***
249.8	42 10 04, 121 46 26	Lost River Diversion Channel	5/30/2007

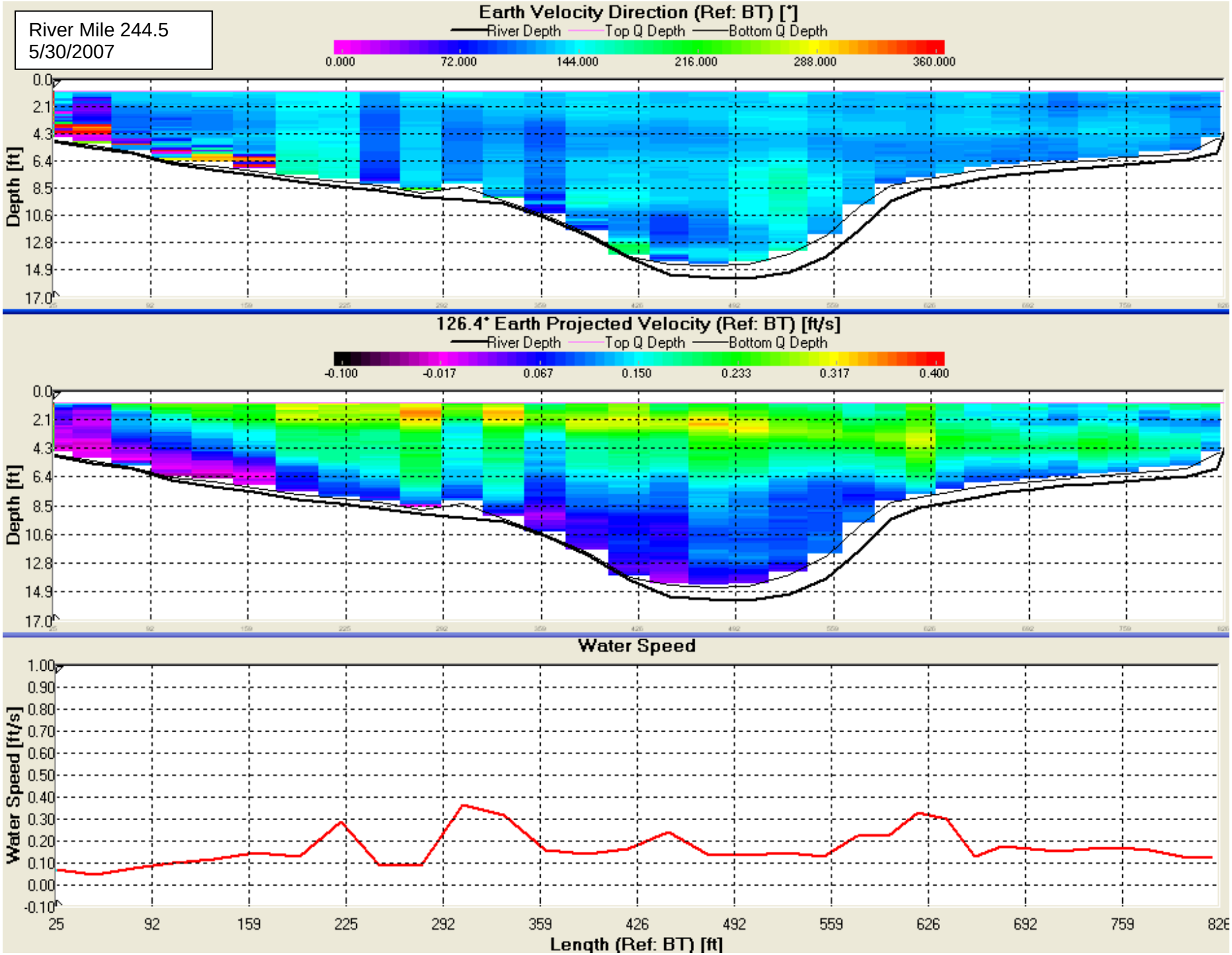

River Mile 251.6
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
1.5
3.0
4.5
6.0
7.5
9.0
10.5
12.0
177.3° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.057
0.007
0.070
0.133
0.196
0.260
0.323
Depth [ft]
0.0
1.5
3.0
4.5
6.0
7.5
9.0
10.5
12.0
Water Speed
Water Speed [ft/s]
1.0
0.9
0.7
0.6
0.4
0.3
0.1
-0.0
-0.2
966
886
807
727
647
567
487
407
328
248
168
88
8
Length (Ref: BT) [ft]

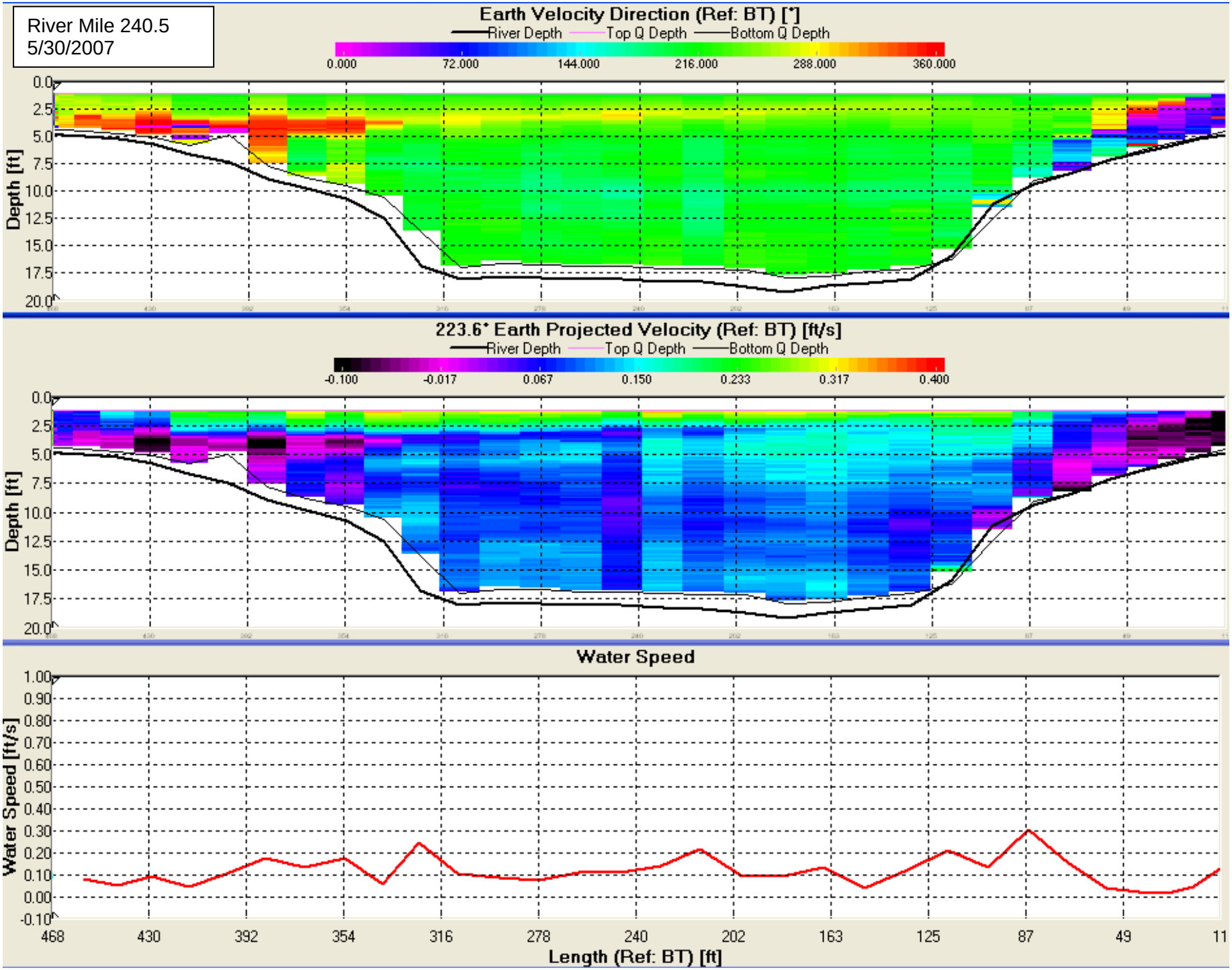

River Mile 250.6
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
1.9
3.8
5.6
7.5
9.4
11.3
13.1
15.0
178.9° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.067
-0.002
0.064
0.129
0.194
0.260
0.325
Depth [ft]
0.0
1.9
3.8
5.6
7.5
9.4
11.3
13.1
15.0
Water Speed
Water Speed [ft/s]
1.0
0.9
0.7
0.6
0.4
0.3
0.1
-0.0
-0.2
6
69
133
197
261
324
388
452
515
579
643
707
770
Length (Ref: BT) [ft]

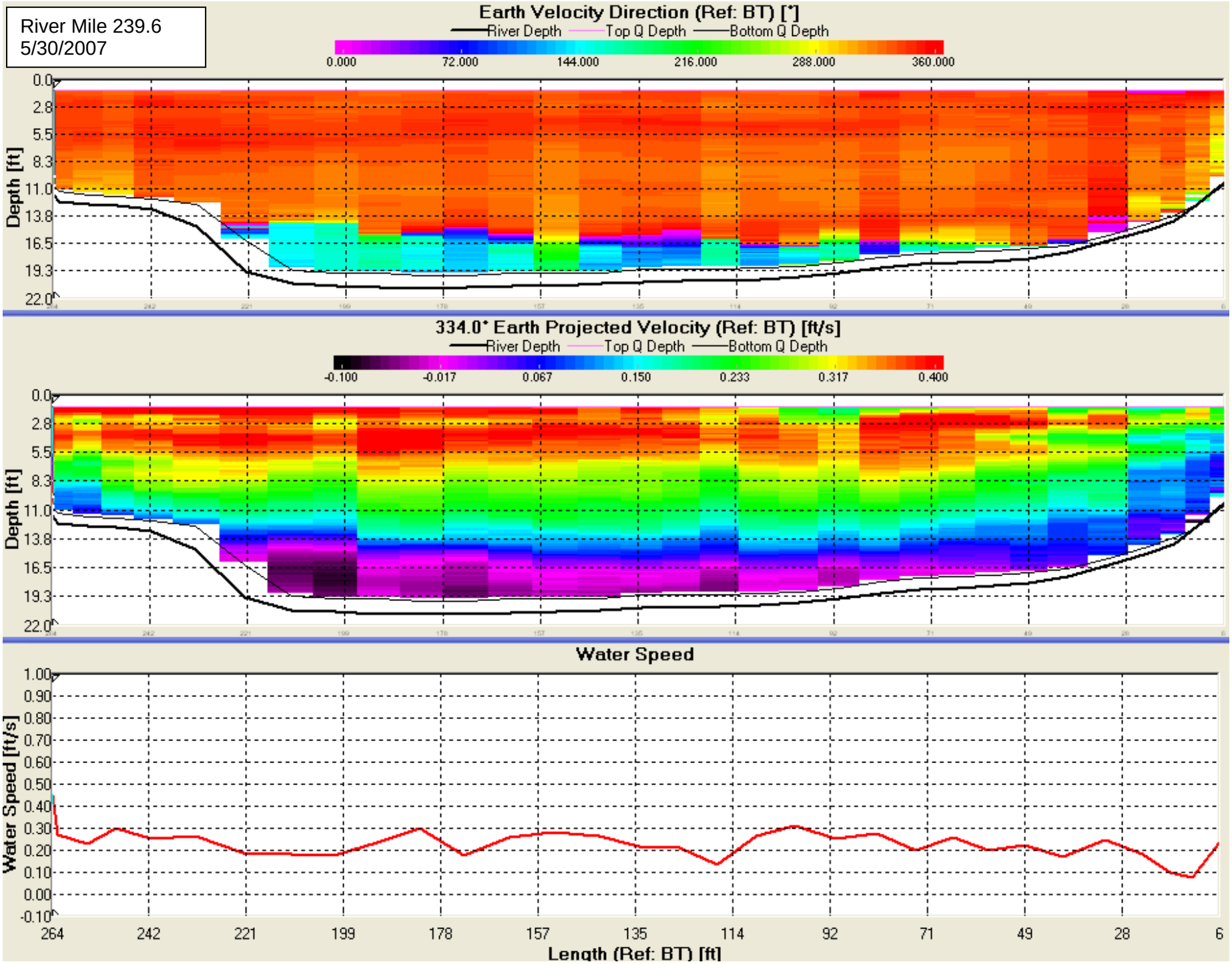

River Mile 250.0
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
0.8
1.5
2.3
3.0
3.8
4.5
5.3
6.0
245.9° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.259
-0.080
0.099
0.277
0.456
0.635
0.814
Depth [ft]
Water Speed
Water Speed [ft/s]
1.0
0.9
0.7
0.6
0.4
0.3
0.1
-0.0
-0.2
9
54
99
145
190
235
281
326
372
417
462
508
553
Length (Ref: BT) [ft]

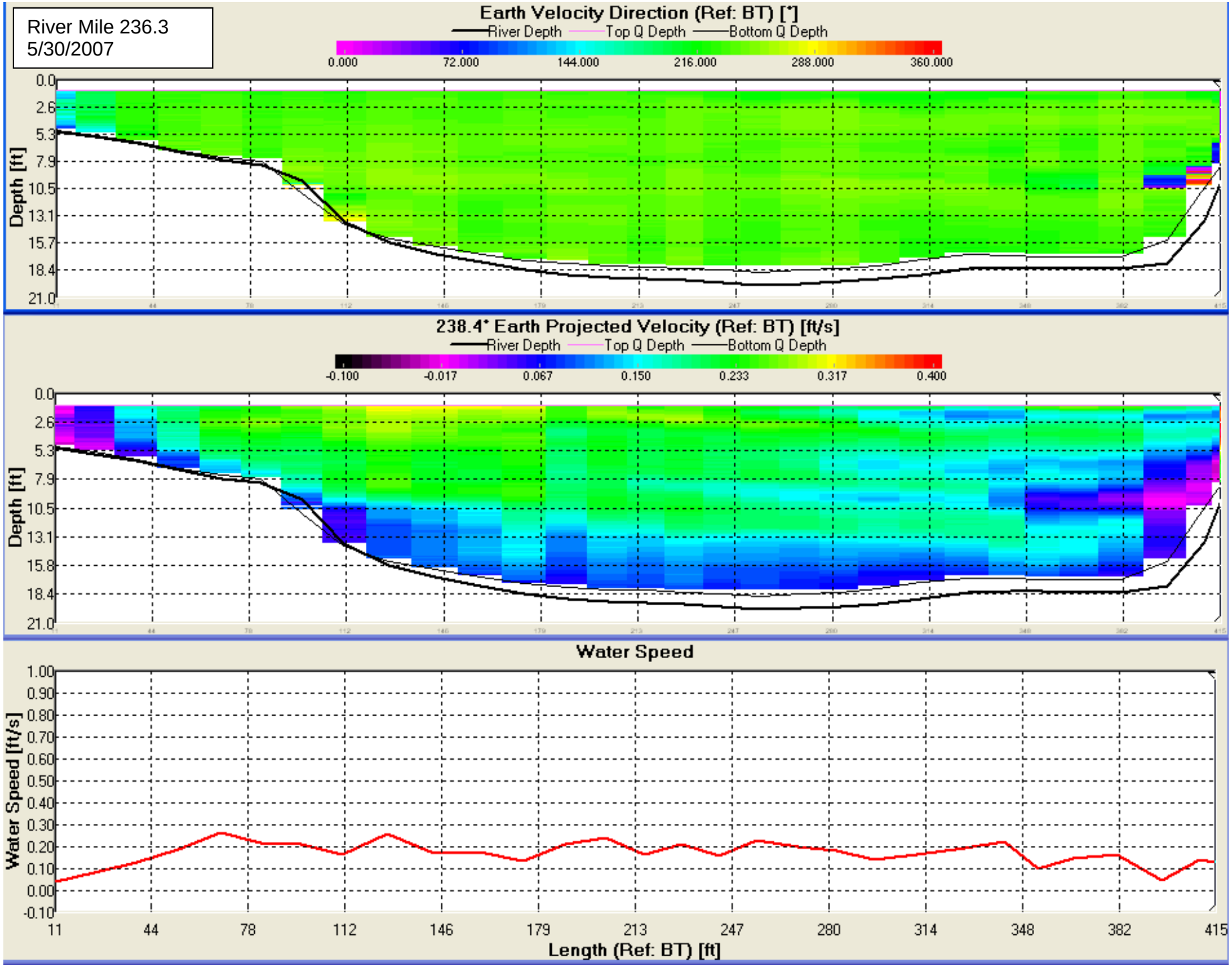

River Mile 249.2
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
1.7
3.5
5.2
7.0
8.8
10.5
12.2
14.0
217.9° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.006
0.075
0.156
0.237
0.317
0.398
0.479
Depth [ft]
0.0
1.8
3.5
5.3
7.0
8.8
10.5
12.3
14.0
Water Speed
Water Speed [ft/s]
1.0
0.9
0.7
0.6
0.4
0.3
0.1
-0.0
-0.2
11
67
124
180
237
293
350
406
463
519
576
632
689
Length (Ref: BT) [ft]

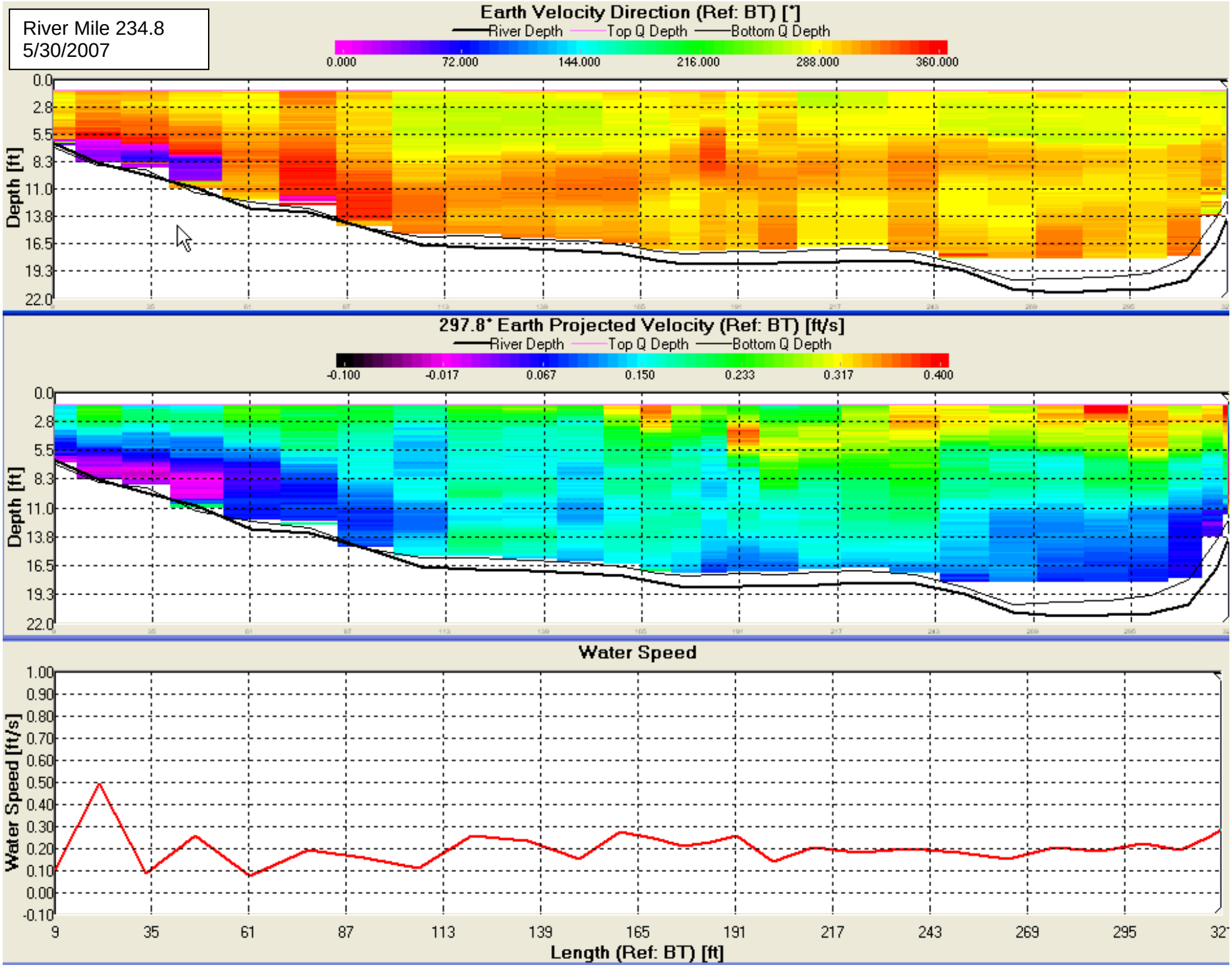

River Mile 245.7
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
212.0° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.024
0.059
0.142
0.226
0.309
0.392
0.476
Depth [ft]
Water Speed
Water Speed [ft/s]
1.0
0.9
0.7
0.6
0.4
0.3
0.1
-0.0
-0.2
891
818
744
671
597
523
450
376
303
229
155
82
8
Length (Ref: BT) [ft]

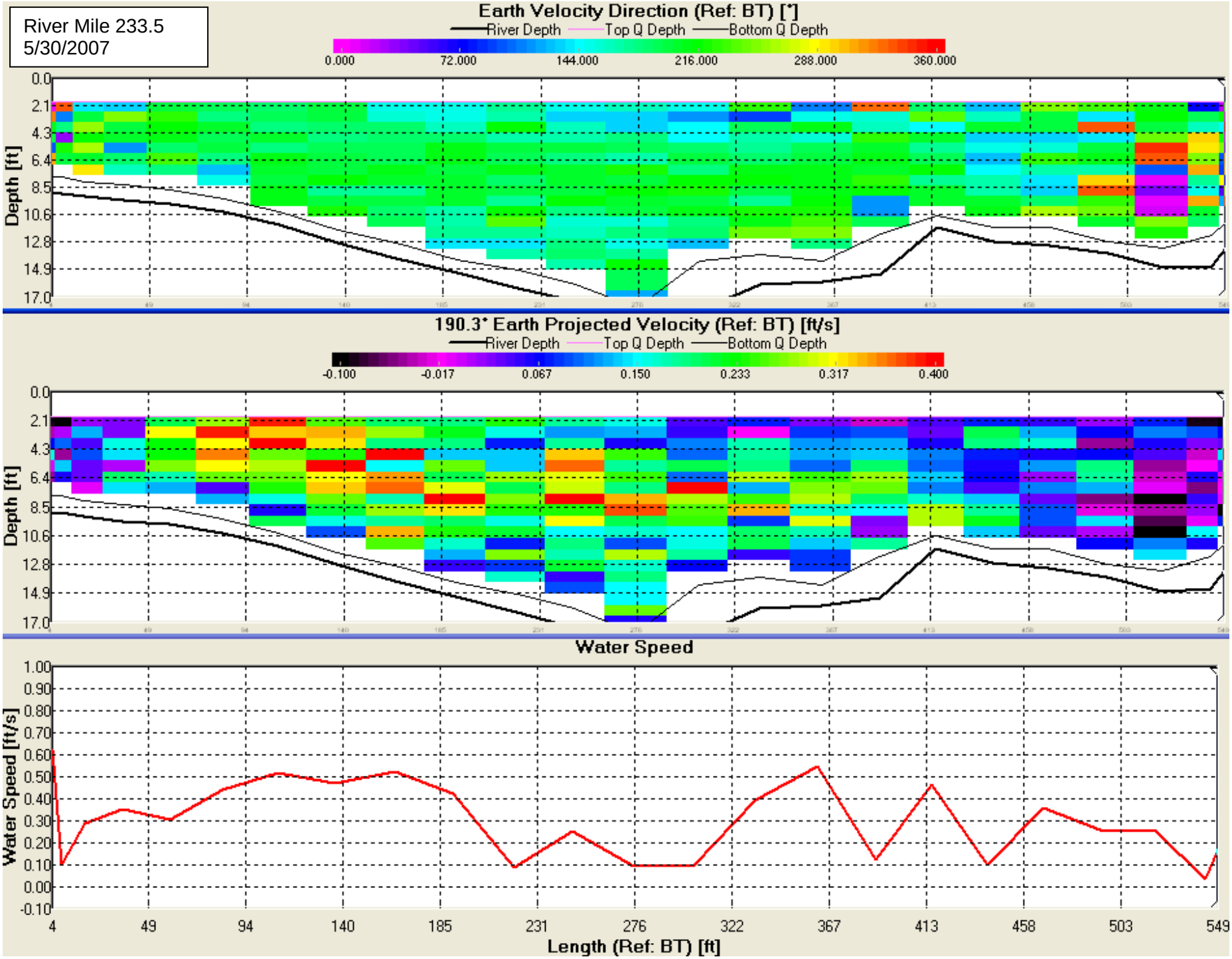

River Mile 244.5
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
2.1
4.3
6.4
8.5
10.6
12.8
14.9
17.0
126.4° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.100
-0.017
0.067
0.150
0.233
0.317
0.400
Depth [ft]
Water Speed
Water Speed [ft/s]
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
-0.10
25
92
159
225
292
359
426
492
559
626
692
759
826
Length (Ref: BT) [ft]

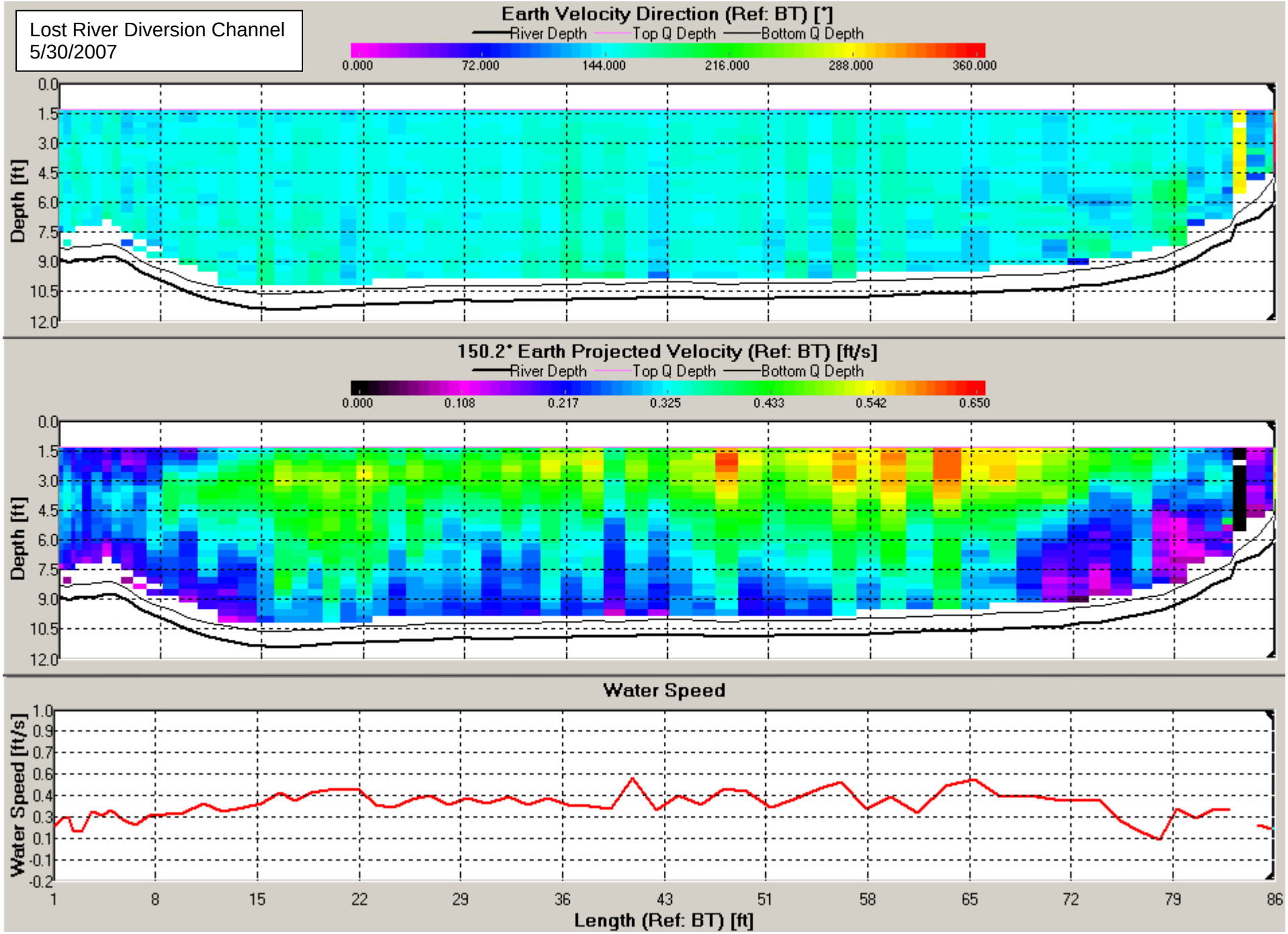

River Mile 240.5
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
223.6° Earth Projected Velocity (Ref: BT) [ft/s]
-0.100
-0.017
0.067
0.150
0.233
0.317
0.400
Water Speed
Water Speed [ft/s]
Length (Ref: BT) [ft]


River Mile 239.6
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
2.8
5.5
8.3
11.0
13.8
16.5
19.3
22.0
334.0° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.100
-0.017
0.067
0.150
0.233
0.317
0.400
Depth [ft]
Water Speed
Water Speed [ft/s]
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
-0.10
264
242
221
199
178
157
135
114
92
71
49
28
6
Length (Ref: BT) [ft]


River Mile 236.3
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
2.6
5.3
7.9
10.5
13.1
15.7
18.4
21.0
238.4° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.100
-0.017
0.067
0.150
0.233
0.317
0.400
Depth [ft]
0.0
2.6
5.3
7.9
10.5
13.1
15.8
18.4
21.0
Water Speed
Water Speed [ft/s]
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
-0.10
11
44
78
112
146
179
213
247
280
314
348
382
415
Length (Ref: BT) [ft]


River Mile 234.8
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
2.8
5.5
8.3
11.0
13.8
16.5
19.3
22.0
297.8° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.100
-0.017
0.067
0.150
0.233
0.317
0.400
Depth [ft]
Water Speed
Water Speed [ft/s]
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
-0.10
9
35
61
87
113
139
165
191
217
243
269
295
Length (Ref: BT) [ft]


River Mile 233.5
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
2.1
4.3
6.4
8.5
10.6
12.8
14.9
17.0
190.3° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
-0.100
-0.017
0.067
0.150
0.233
0.317
0.400
Depth [ft]
Water Speed
Water Speed [ft/s]
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
-0.10
4
49
94
140
185
231
276
322
367
413
458
503
549
Length (Ref: BT) [ft]


Lost River Diversion Channel
5/30/2007
Earth Velocity Direction (Ref: BT) [°]
River Depth
Top Q Depth
Bottom Q Depth
0.000
72.000
144.000
216.000
288.000
360.000
Depth [ft]
0.0
1.5
3.0
4.5
6.0
7.5
9.0
10.5
12.0
150.2° Earth Projected Velocity (Ref: BT) [ft/s]
River Depth
Top Q Depth
Bottom Q Depth
0.000
0.108
0.217
0.325
0.433
0.542
0.650
Depth [ft]
Water Speed
Water Speed [ft/s]
1.0
0.9
0.7
0.6
0.4
0.3
0.1
-0.1
-0.2
1
8
15
22
29
36
43
51
58
65
72
79
86
Length (Ref: BT) [ft]