Columbia River Project Water Use Plan

Columbia White Sturgeon Management Plan

Mid Columbia River White Sturgeon Spawning Habitat Assessment and Mid Columbia River Effects of Flow Changes on Incubation and Early Rearing Sturgeon

Implementation Years 1-4

Reference: CLBMON-20 and CLBMON-54 Appendices

Effects of Flow Changes on White Sturgeon Spawning, Incubation, and Early Rearing Habitats in the Middle Columbia River

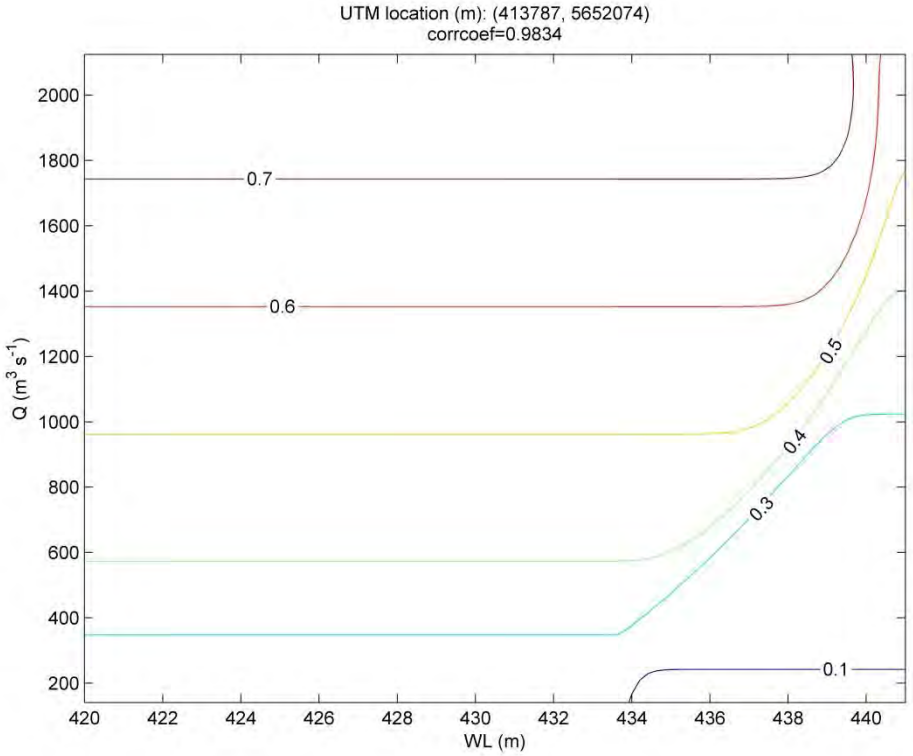
Study Period: June 2010 to August 2014

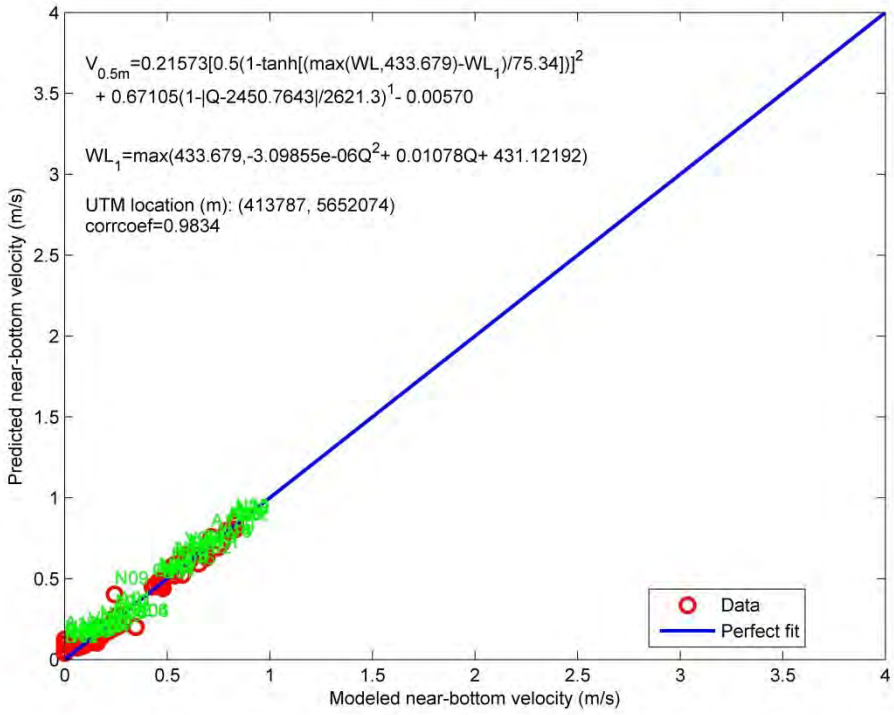
Golder Associates
ASL Environmental Sciences

September 12, 2014

Appendix A: Empirical function analysis at the 34 selected egg mat sites.

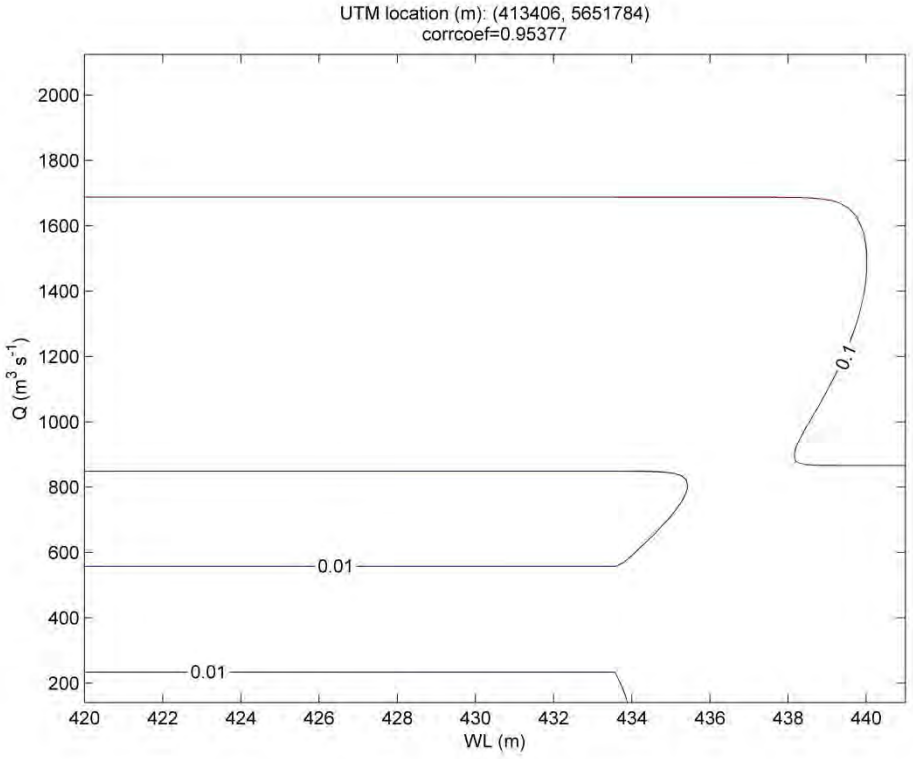
Site 1

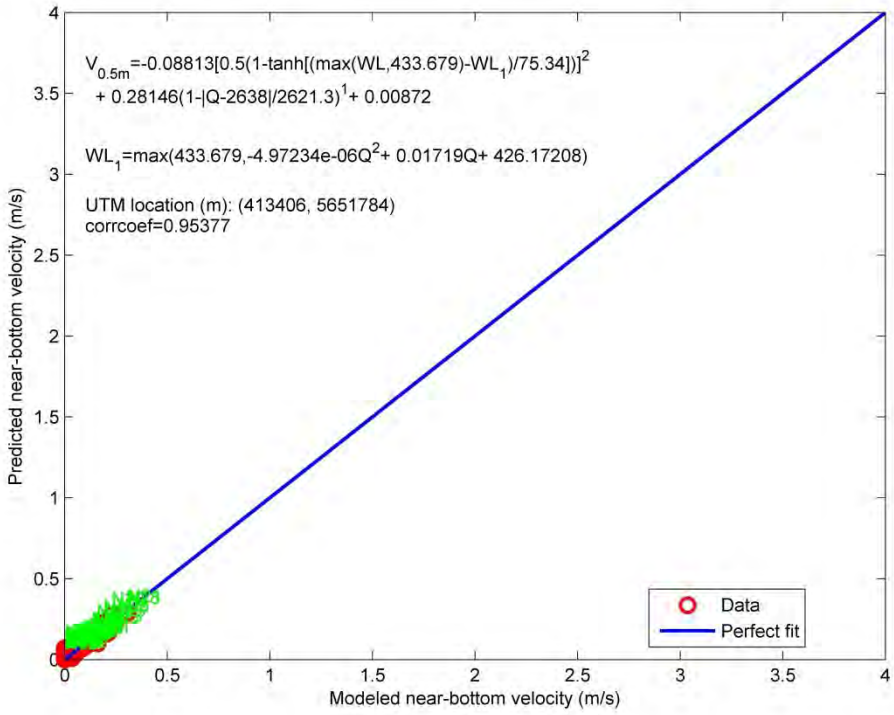

UTM location (m): (413787, 5652074)
corrcoef=0.9834
Q (m3 s-1)
WL (m)
0.7
0.6
0.5
0.4
0.3
0.1


V0.5m=0.21573[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 0.67105(1-|Q-2450.7643|/2621.3)1- 0.00570
WL1=max(433.679,-3.09855e-06Q2+ 0.01078Q+ 431.12192)
UTM location (m): (413787, 5652074)
corrcoef=0.9834
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

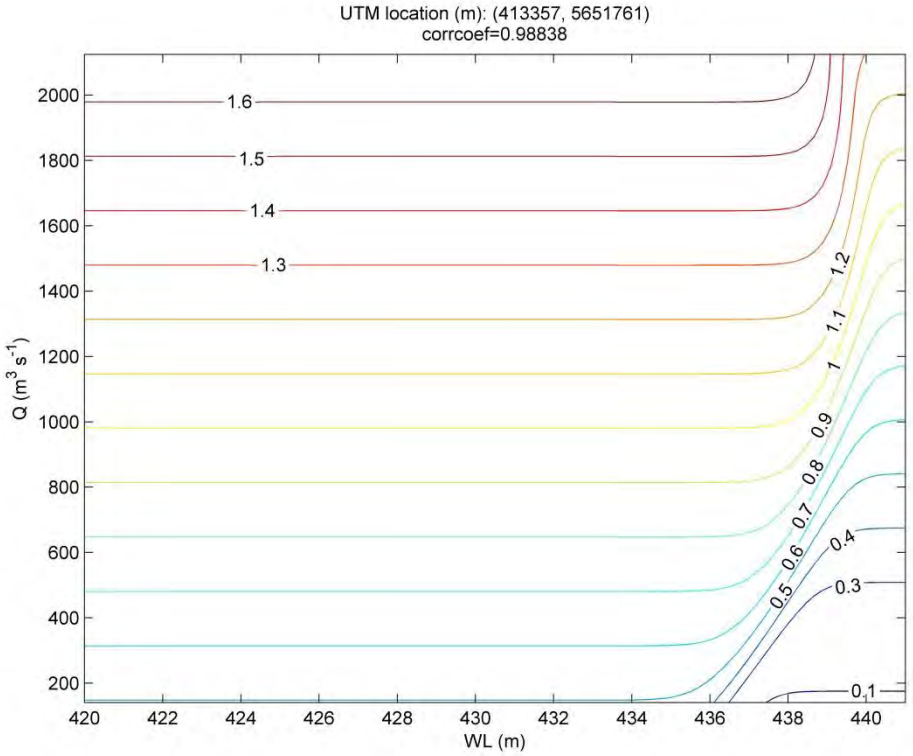
Site 2 (Dry)

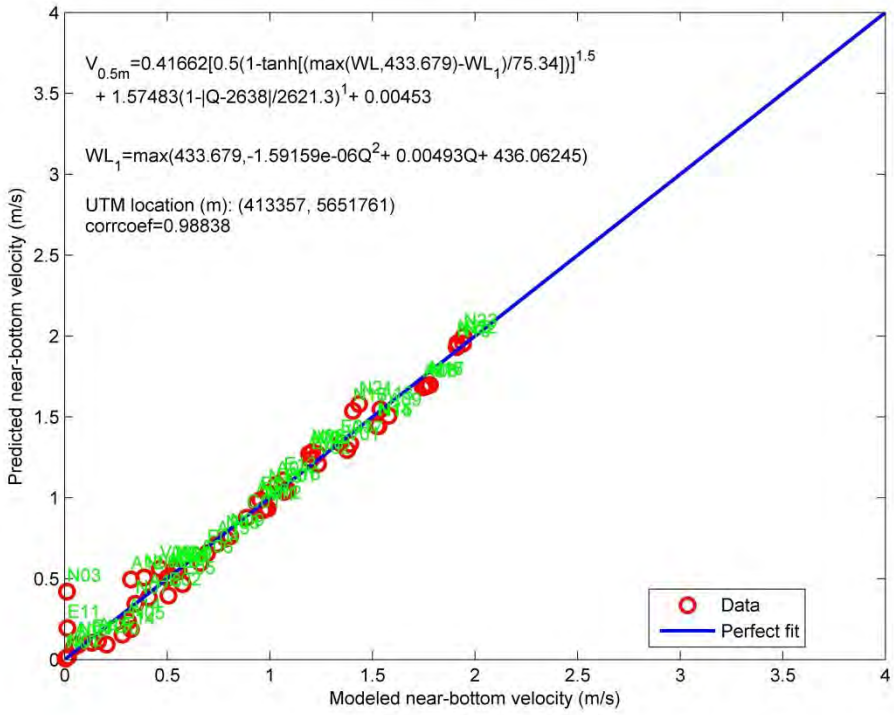
Site 3


UTM location (m): (413406, 5651784)
corrcoef=0.95377
Q (m3 s-1)
WL (m)
0.1
0.01
0.01

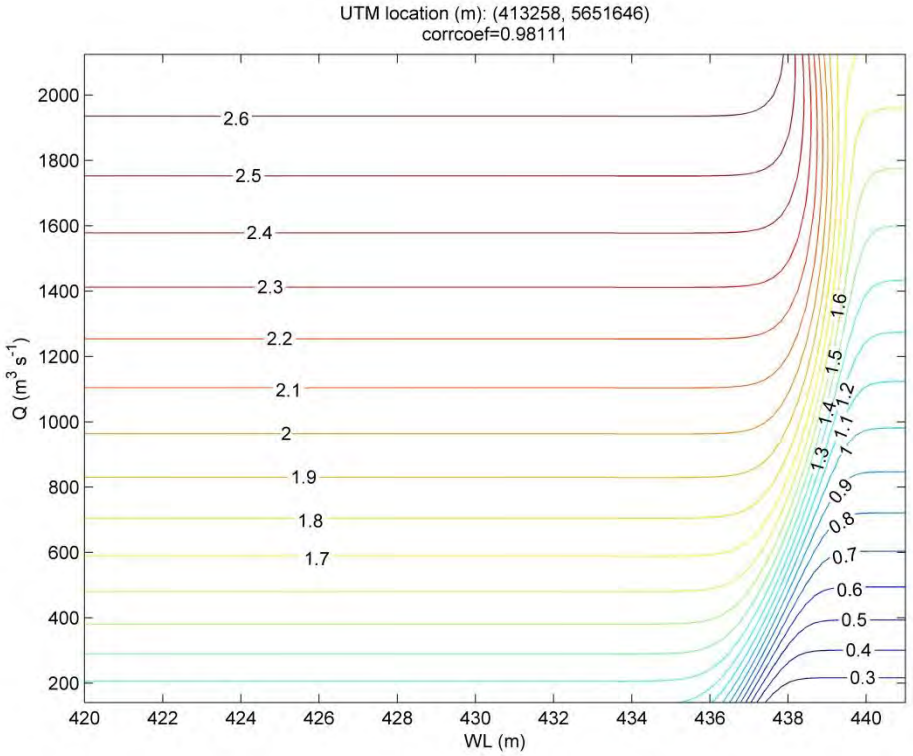

V0.5m=-0.08813[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 0.28146(1-|Q-2638|/2621.3)1+ 0.00872
WL1=max(433.679,-4.97234e-06Q2+ 0.01719Q+ 426.17208)
UTM location (m): (413406, 5651784)
corrcoef=0.95377
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

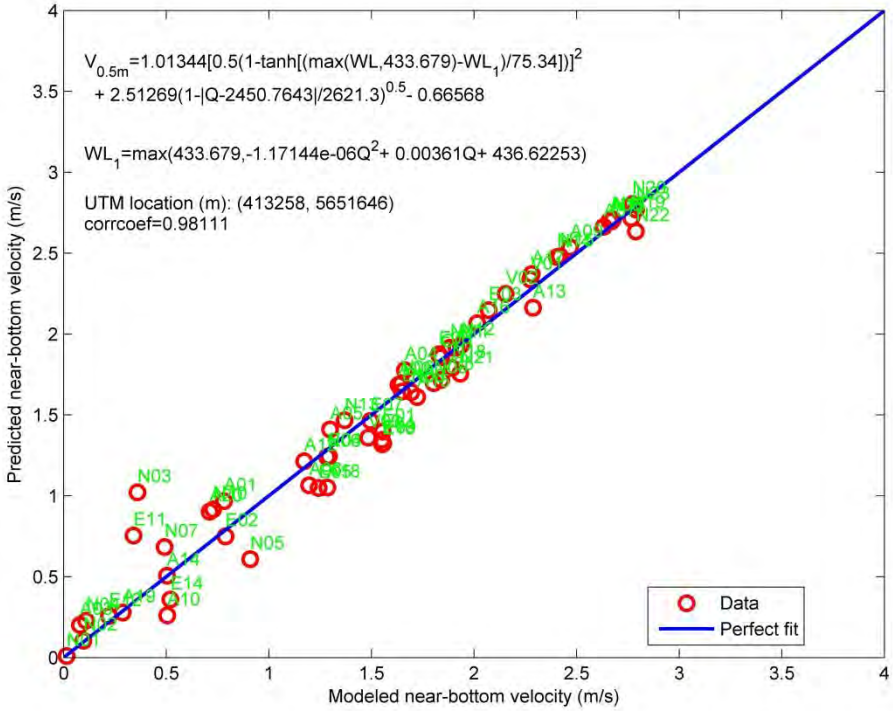
Site 4


UTM location (m): (413357, 5651761)
corrcoef=0.98838
Q (m3 s-1)
WL (m)
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

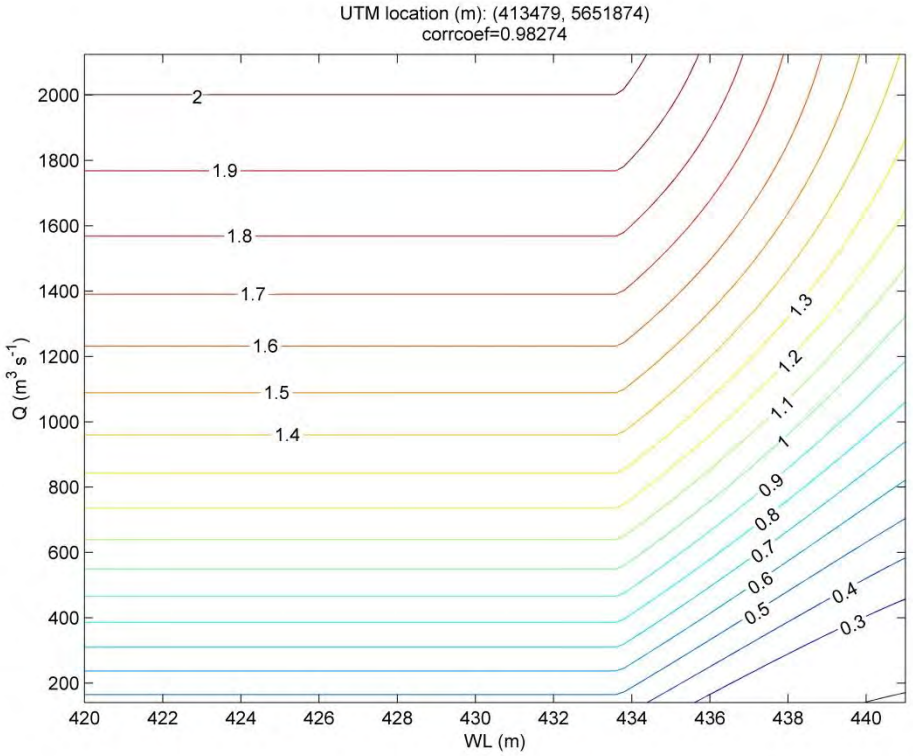

V0.5m=0.41662[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1.5
+ 1.57483(1-|Q-2638|/2621.3)1+ 0.00453
WL1=max(433.679,-1.59159e-06Q2+ 0.00493Q+ 436.06245)
UTM location (m): (413357, 5651761)
corrcoef=0.98838
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

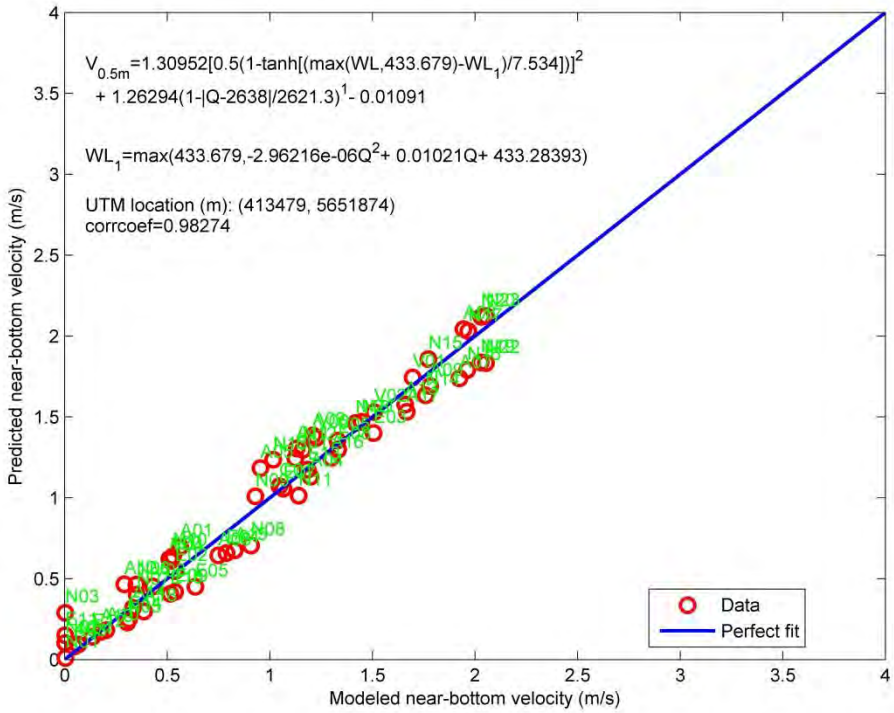
Site 5


UTM location (m): (413258, 5651646)
corrcoef=0.98111
Q (m3 s-1)
WL (m)
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

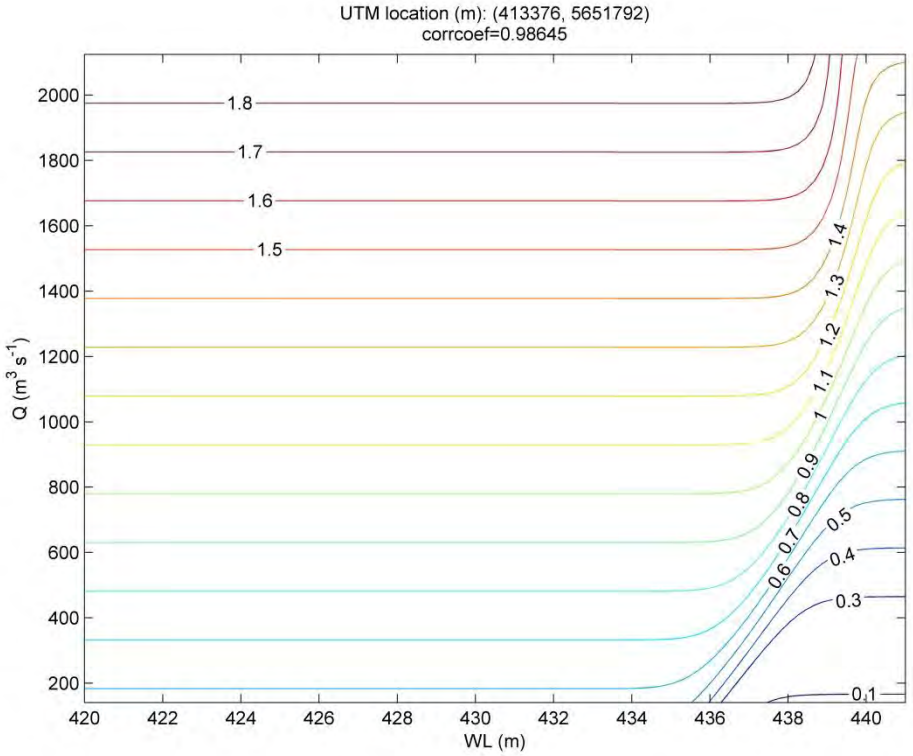

V0.5m=1.01344[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 2.51269(1-|Q-2450.7643|/2621.3)0.5- 0.66568
WL1=max(433.679,-1.17144e-06Q2+ 0.00361Q+ 436.62253)
UTM location (m): (413258, 5651646)
corrcoef=0.98111
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

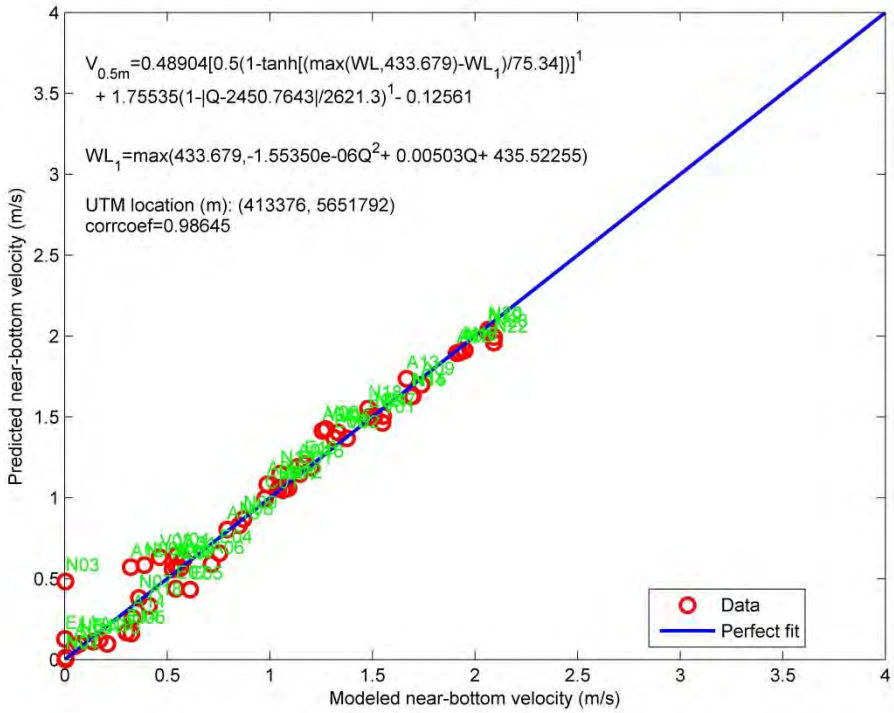
Site 6


UTM location (m): (413479, 5651874)
corrcoef=0.98274
Q (m3 s-1)
WL (m)
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

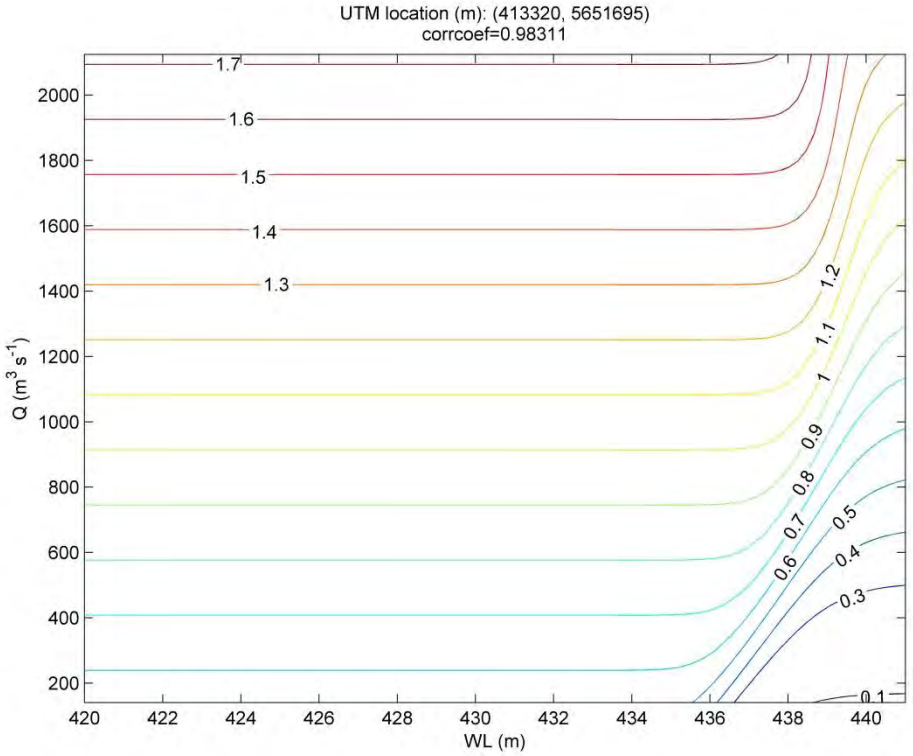

V0.5m=1.30952[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 1.26294(1-|Q-2638|/2621.3)1- 0.01091
WL1=max(433.679,-2.96216e-06Q2+ 0.01021Q+ 433.28393)
UTM location (m): (413479, 5651874)
corrcoef=0.98274
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

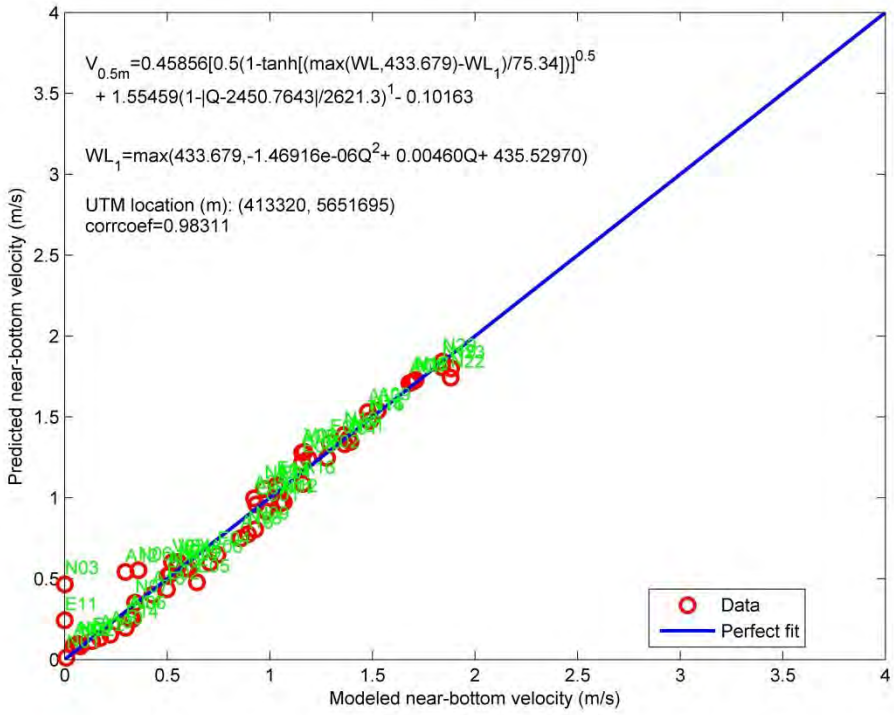
Site 7


UTM location (m): (413376, 5651792)
corrcoef=0.98645
Q (m3 s-1)
WL (m)
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

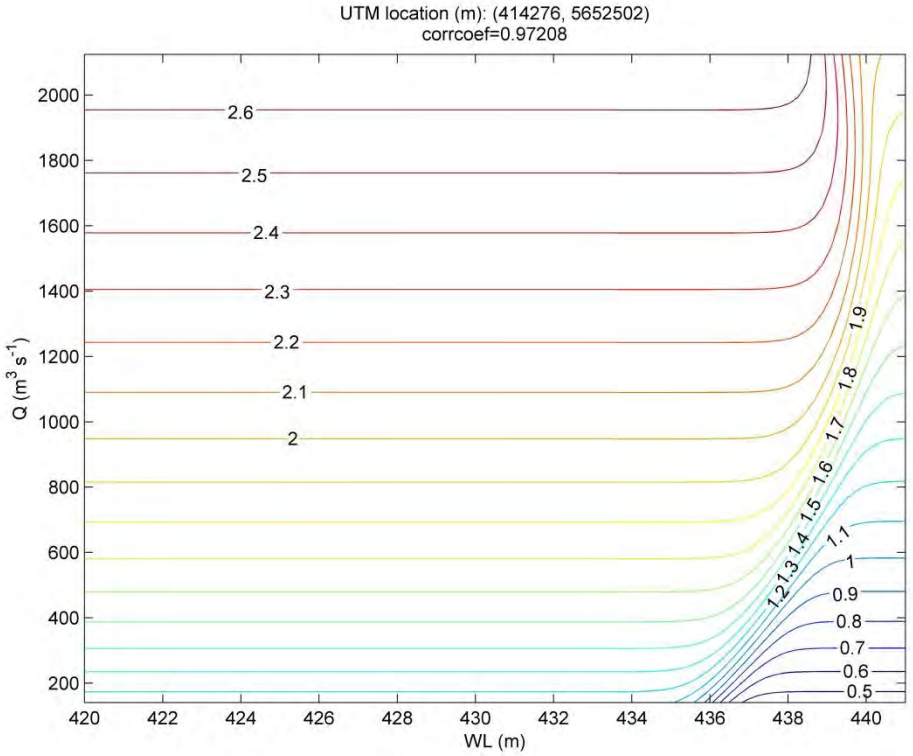

V0.5m=0.48904[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1
+ 1.75535(1-|Q-2450.7643|/2621.3)1- 0.12561
WL1=max(433.679,-1.55350e-06Q2+ 0.00503Q+ 435.52255)
UTM location (m): (413376, 5651792)
corrcoef=0.98645
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

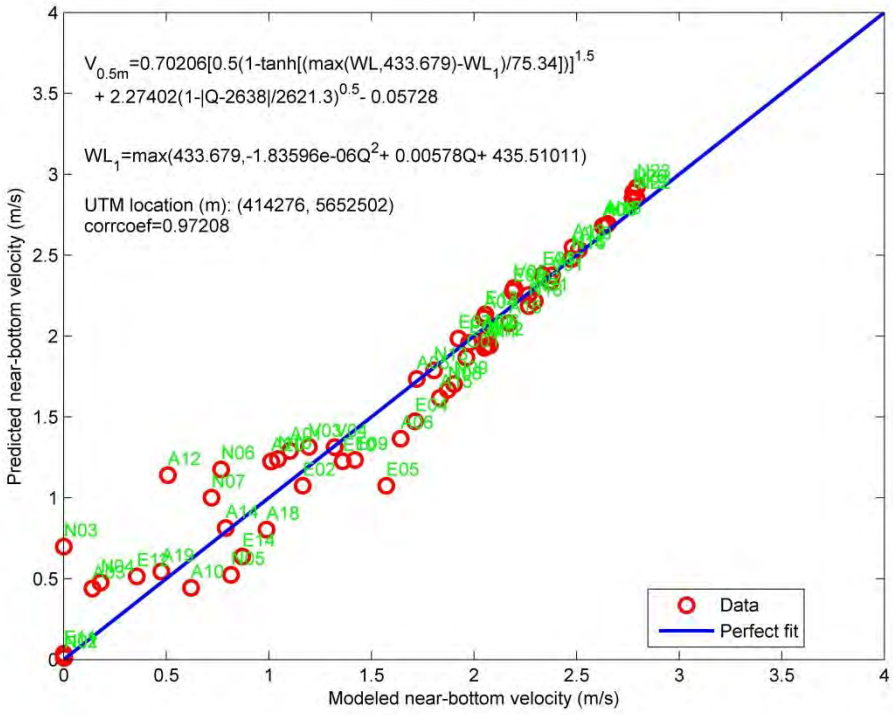
Site 8


UTM location (m): (413320, 5651695)
corrcoef=0.98311
Q (m3 s-1)
WL (m)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

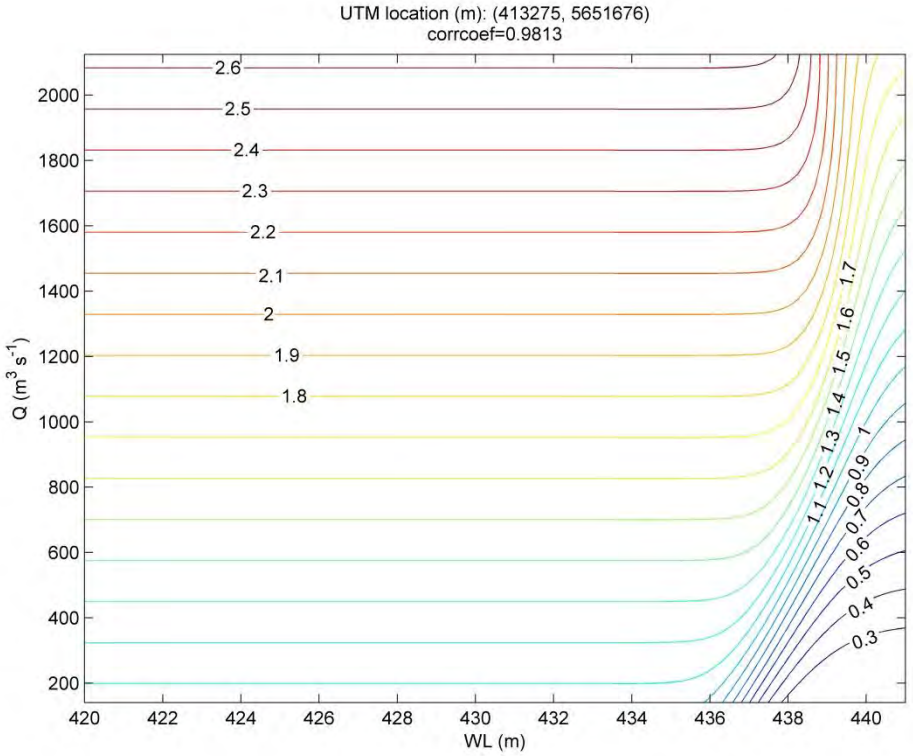

V0.5m=0.45856[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]0.5
+ 1.55459(1-|Q-2450.7643|/2621.3)1- 0.10163
WL1=max(433.679,-1.46916e-06Q2+ 0.00460Q+ 435.52970)
UTM location (m): (413320, 5651695)
corrcoef=0.98311
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
N03
E11
Data
Perfect fit

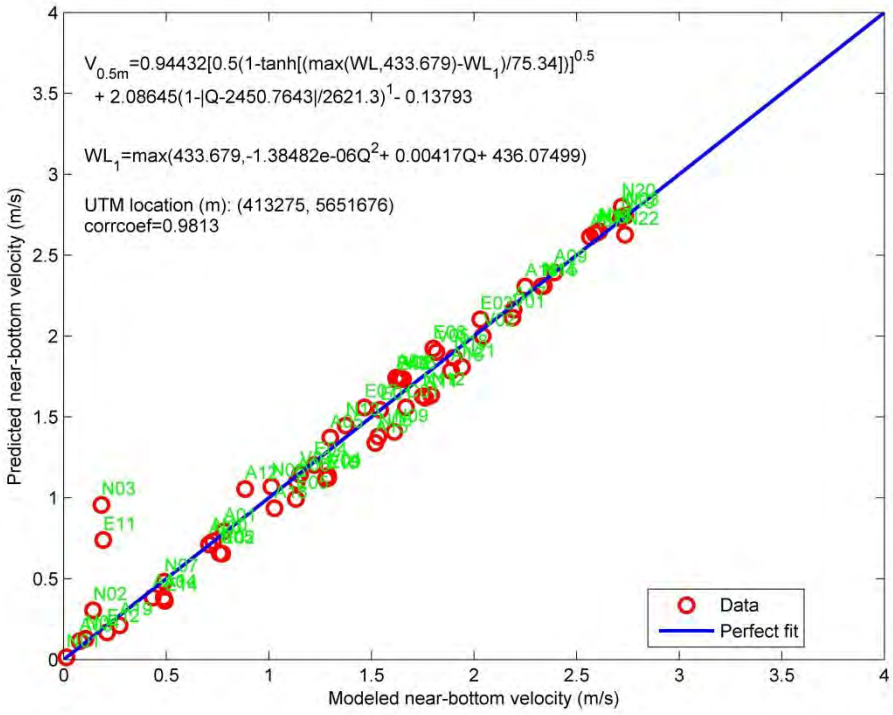
Site 9


UTM location (m): (414276, 5652502)
corrcoef=0.97208
Q (m3 s-1)
WL (m)
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

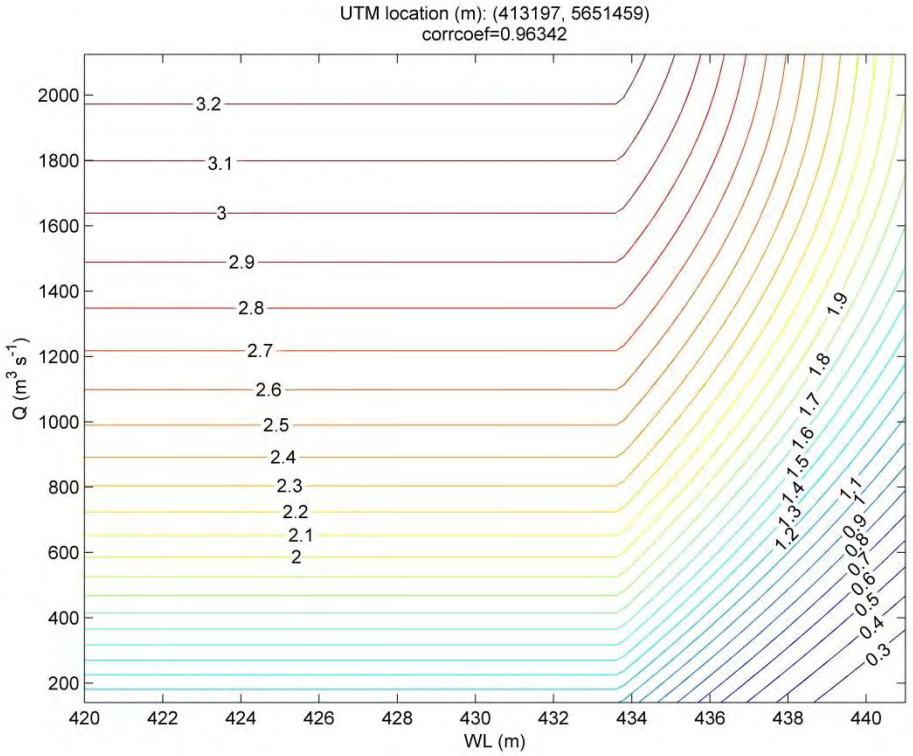

V0.5m=0.70206[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1.5
+ 2.27402(1-|Q-2638|/2621.3)0.5- 0.05728
WL1=max(433.679,-1.83596e-06Q2+ 0.00578Q+ 435.51011)
UTM location (m): (414276, 5652502)
corrcoef=0.97208
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

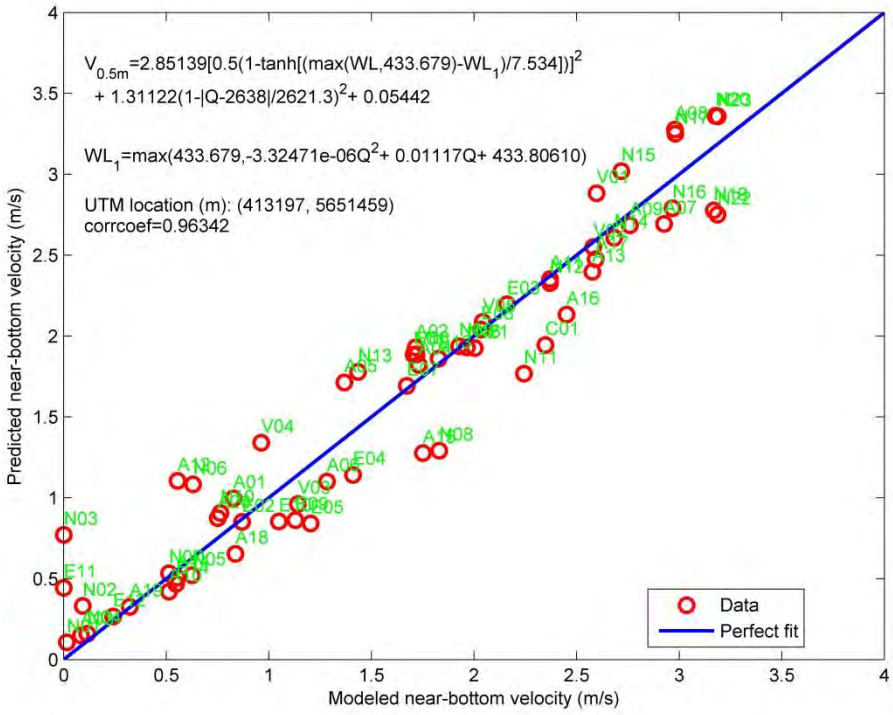
Site 10


UTM location (m): (413275, 5651676)
corrcoef=0.9813
Q (m3 s-1)
WL (m)
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

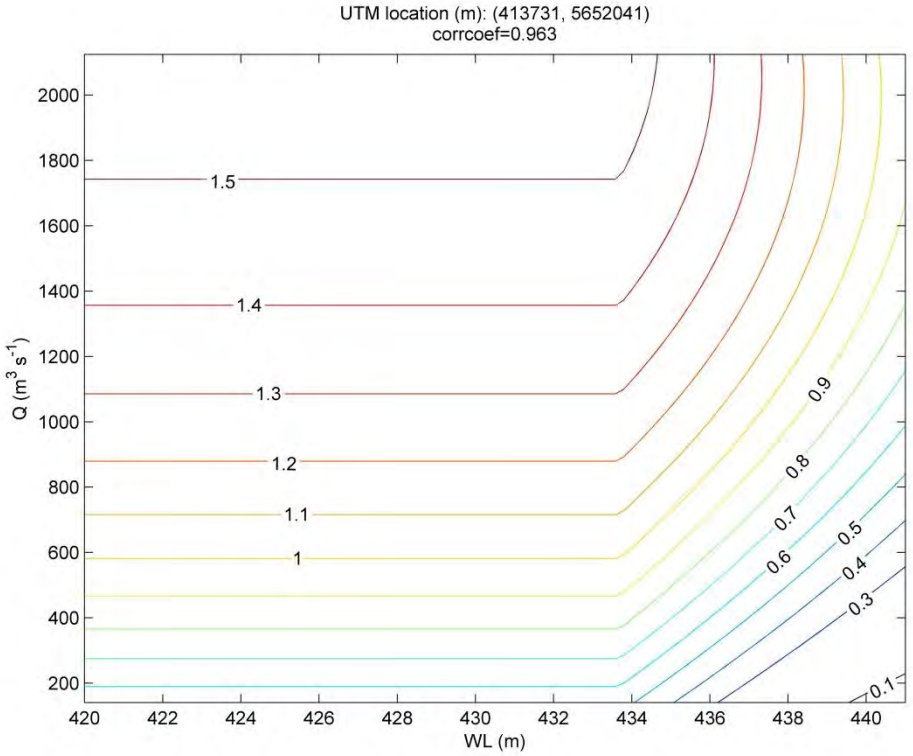

V0.5m=0.94432[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]0.5
+ 2.08645(1-|Q-2450.7643|/2621.3)1- 0.13793
WL1=max(433.679,-1.38482e-06Q2+ 0.00417Q+ 436.07499)
UTM location (m): (413275, 5651676)
corrcoef=0.9813
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

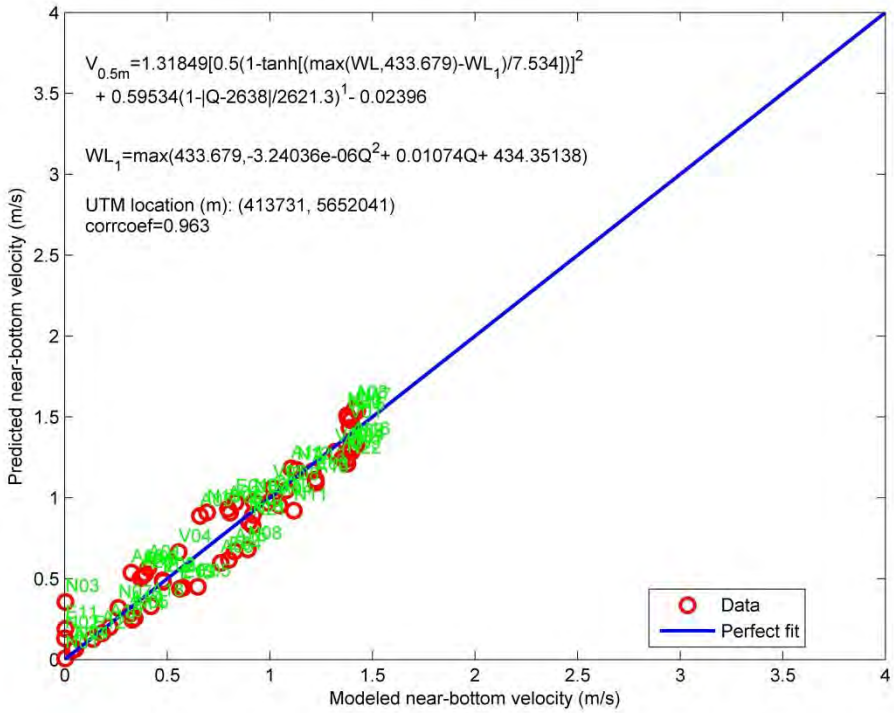
Site 11


UTM location (m): (413197, 5651459)
corrcoef=0.96342
Q (m3 s-1)
WL (m)
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

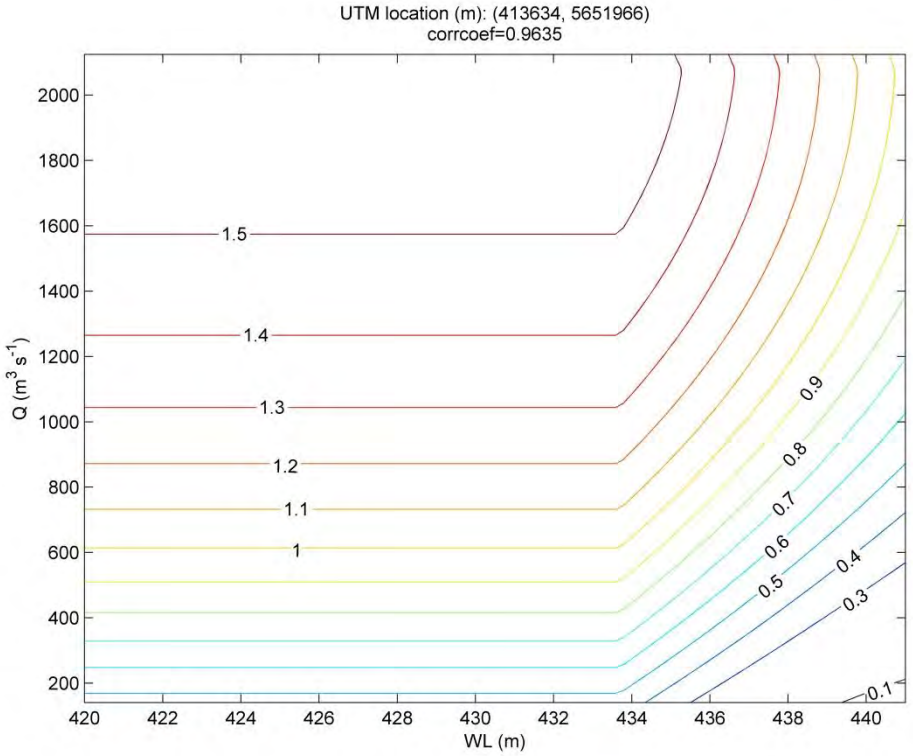

V0.5m=2.85139[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 1.31122(1-|Q-2638|/2621.3)2+ 0.05442
WL1=max(433.679,-3.32471e-06Q2+ 0.01117Q+ 433.80610)
UTM location (m): (413197, 5651459)
corrcoef=0.96342
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

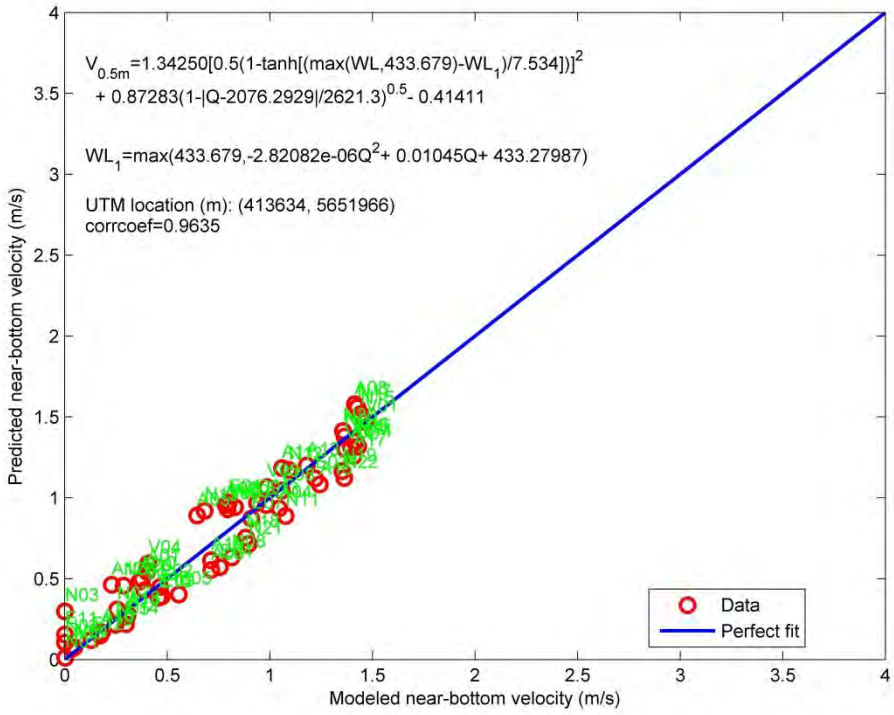
Site 12


UTM location (m): (413731, 5652041)
corrcoef=0.963
Q (m3 s-1)
WL (m)
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

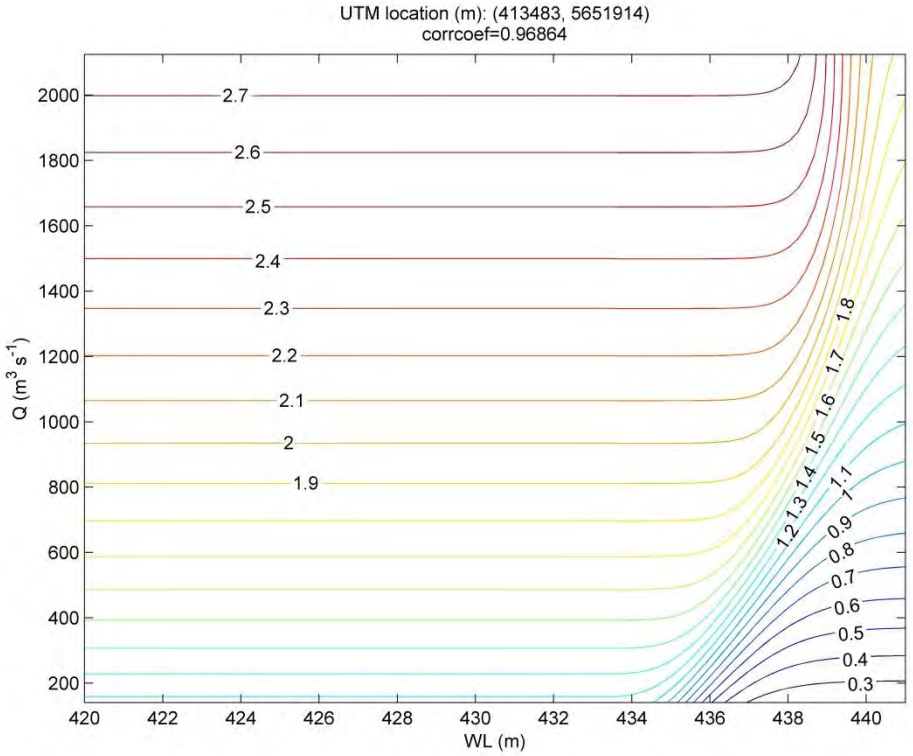

V0.5m=1.31849[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 0.59534(1-|Q-2638|/2621.3)1- 0.02396
WL1=max(433.679,-3.24036e-06Q2+ 0.01074Q+ 434.35138)
UTM location (m): (413731, 5652041)
corrcoef=0.963
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

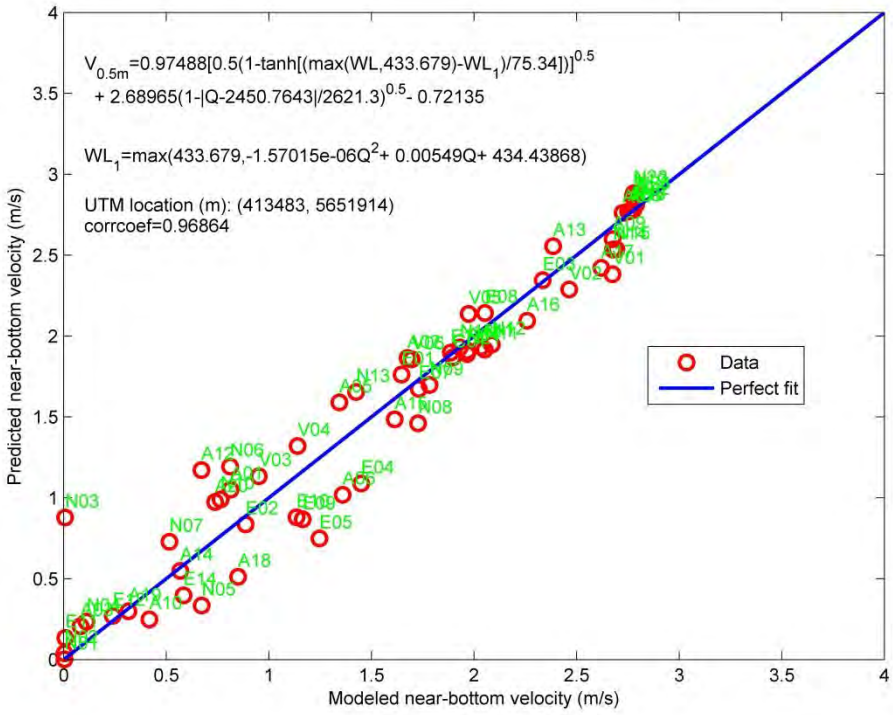
Site 13


UTM location (m): (413634, 5651966)
corrcoef=0.9635
Q (m3 s-1)
WL (m)
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

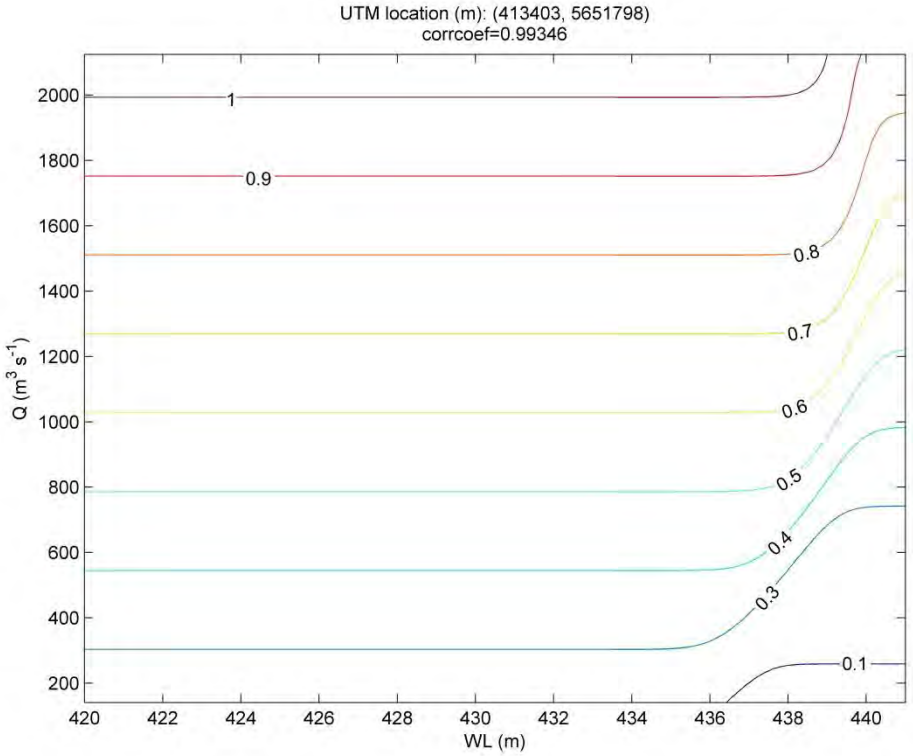

V0.5m=1.34250[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 0.87283(1-|Q-2076.2929|/2621.3)0.5- 0.41411
WL1=max(433.679,-2.82082e-06Q2+ 0.01045Q+ 433.27987)
UTM location (m): (413634, 5651966)
corrcoef=0.9635
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

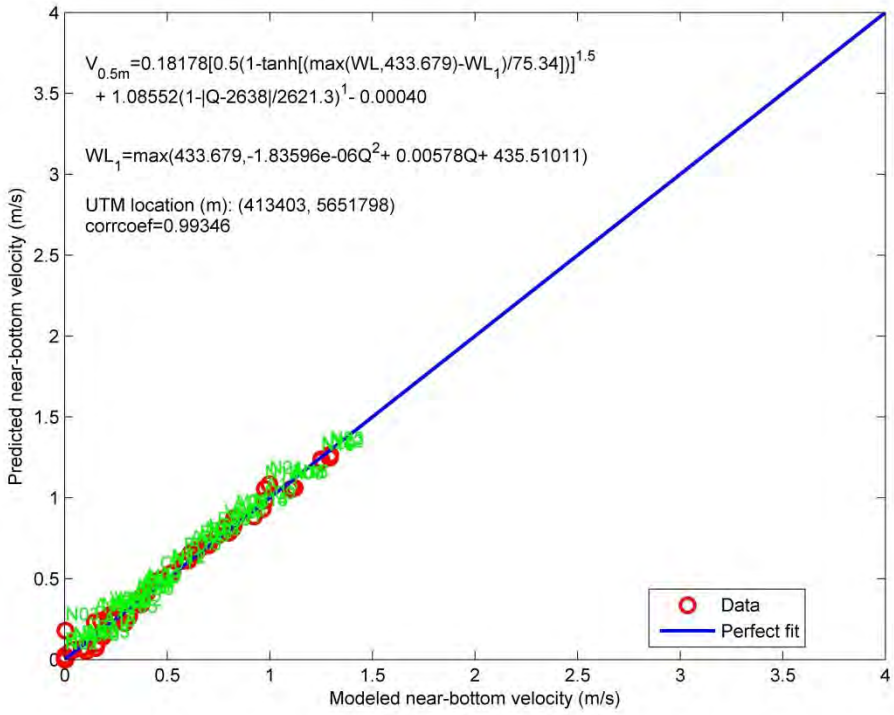
Site 14


UTM location (m): (413483, 5651914)
corrcoef=0.96864
Q (m3 s-1)
WL (m)
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

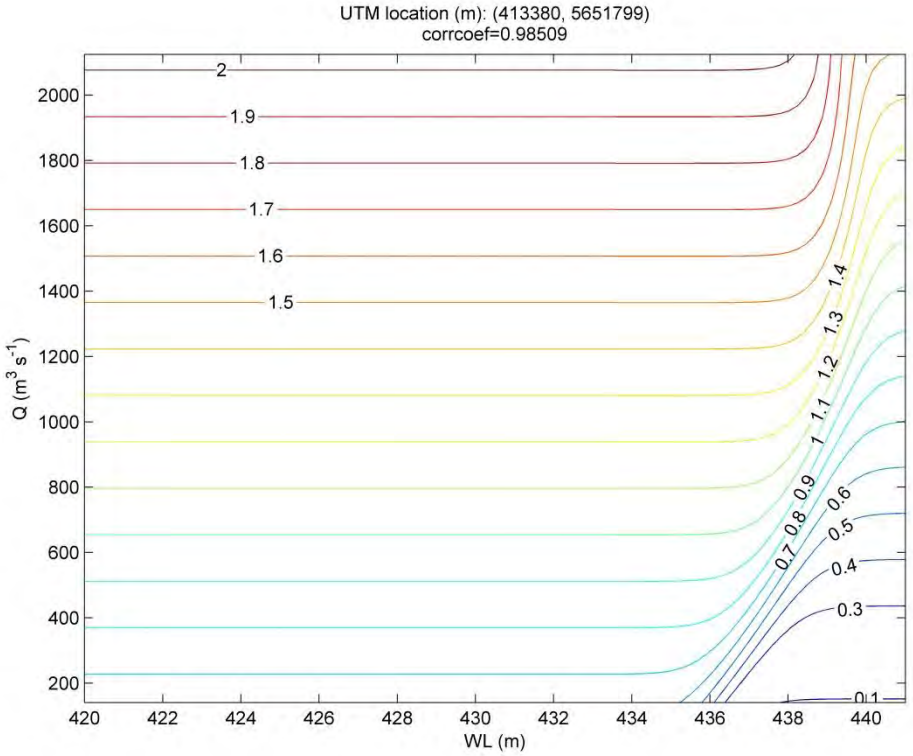

V0.5m=0.97488[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]0.5
+ 2.68965(1-|Q-2450.7643|/2621.3)0.5- 0.72135
WL1=max(433.679,-1.57015e-06Q2+ 0.00549Q+ 434.43868)
UTM location (m): (413483, 5651914)
corrcoef=0.96864
Data
Perfect fit
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)

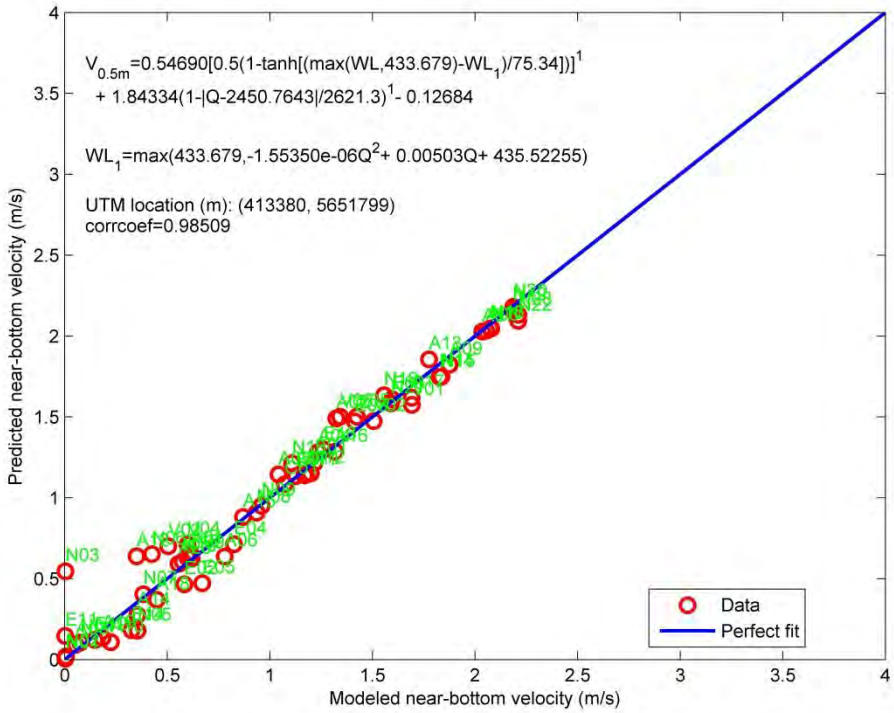
Site 15


UTM location (m): (413403, 5651798)
corrcoef=0.99346
Q (m3 s-1)
WL (m)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

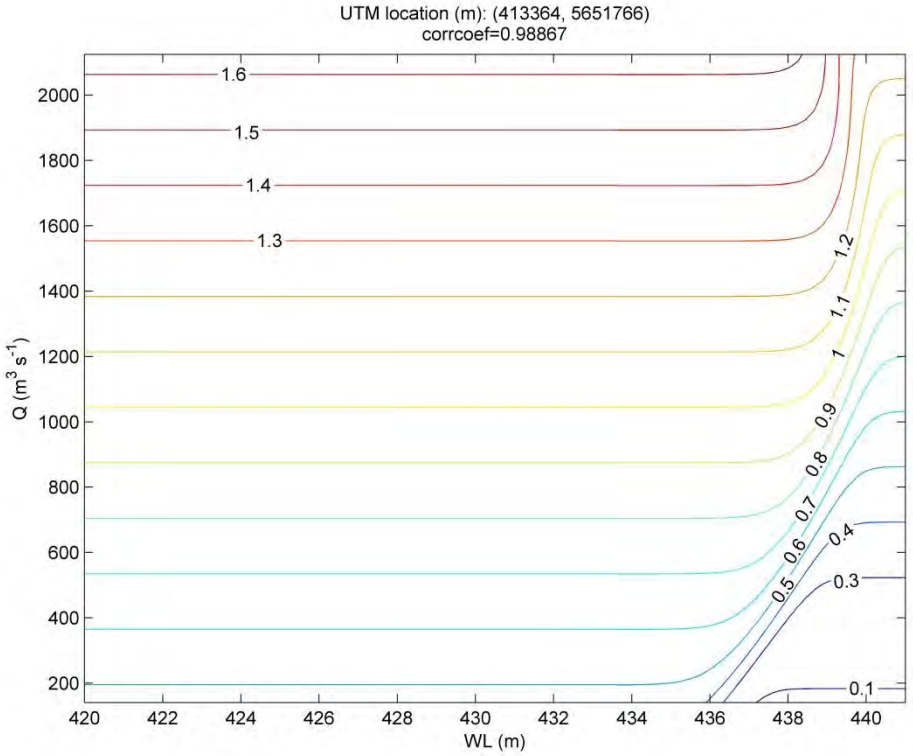

V0.5m=0.18178[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1.5
+ 1.08552(1-|Q-2638|/2621.3)1- 0.00040
WL1=max(433.679,-1.83596e-06Q2+ 0.00578Q+ 435.51011)
UTM location (m): (413403, 5651798)
corrcoef=0.99346
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

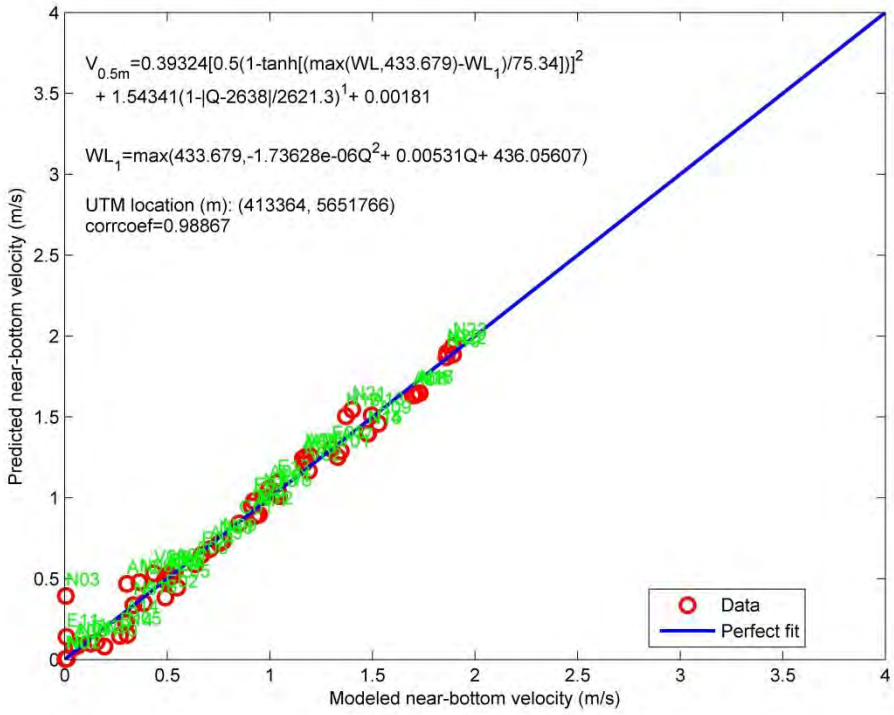
Site 16


UTM location (m): (413380, 5651799)
corrcoef=0.98509
Q (m3 s-1)
WL (m)
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

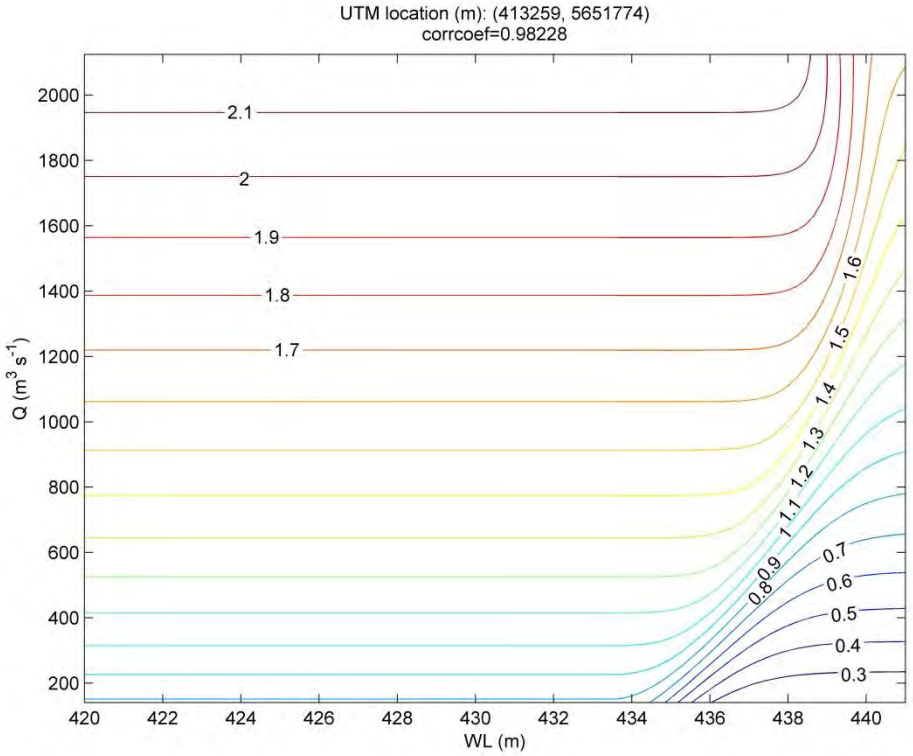

V0.5m=0.54690[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1
+ 1.84334(1-|Q-2450.7643|/2621.3)1- 0.12684
WL1=max(433.679,-1.55350e-06Q2+ 0.00503Q+ 435.52255)
UTM location (m): (413380, 5651799)
corrcoef=0.98509
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

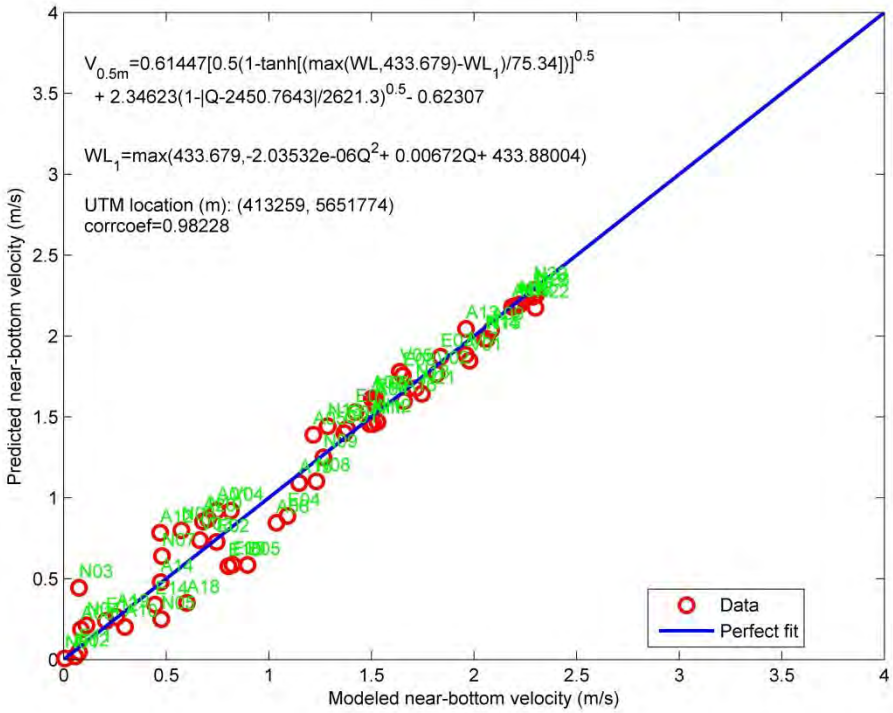
Site 17


UTM location (m): (413364, 5651766)
corrcoef=0.98867
Q (m3 s-1)
WL (m)
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

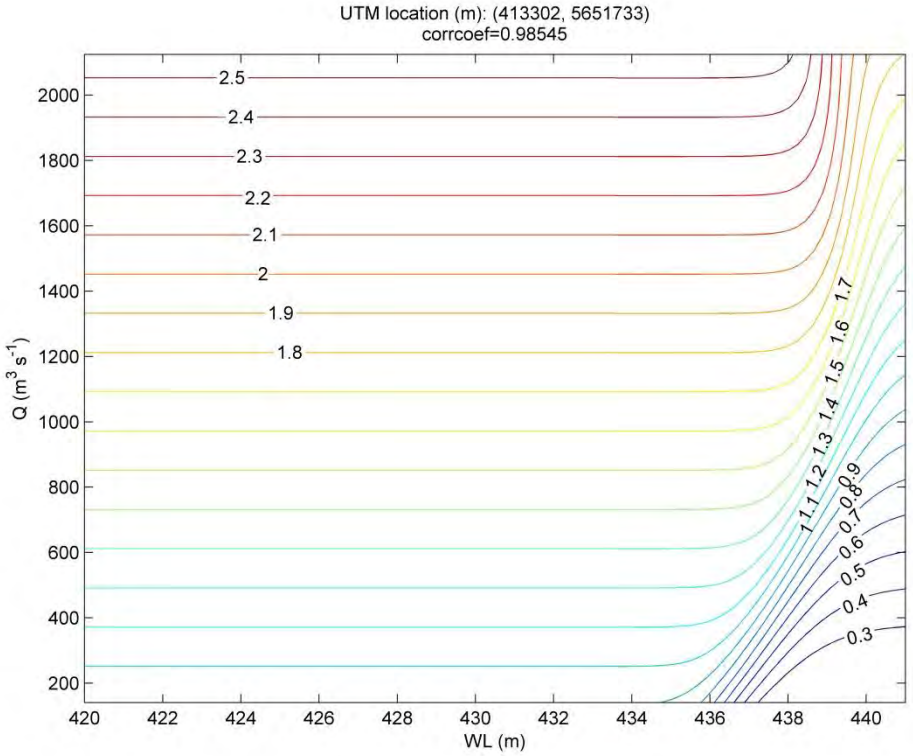

V0.5m=0.39324[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 1.54341(1-|Q-2638|/2621.3)1+ 0.00181
WL1=max(433.679,-1.73628e-06Q2+ 0.00531Q+ 436.05607)
UTM location (m): (413364, 5651766)
corrcoef=0.98867
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

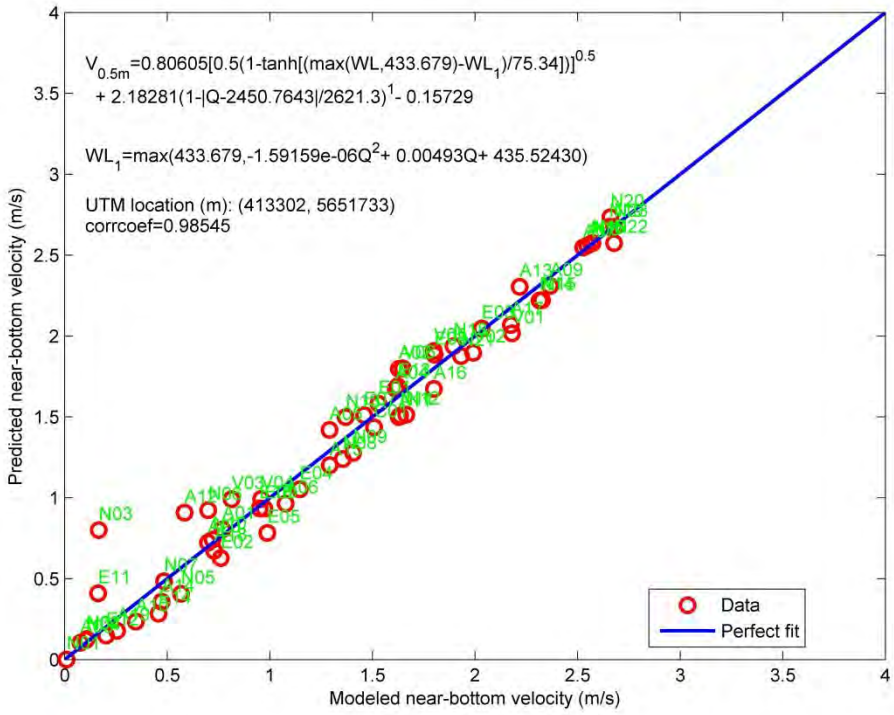
Site 18


UTM location (m): (413259, 5651774)
corrcoef=0.98228
Q (m3 s-1)
WL (m)
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

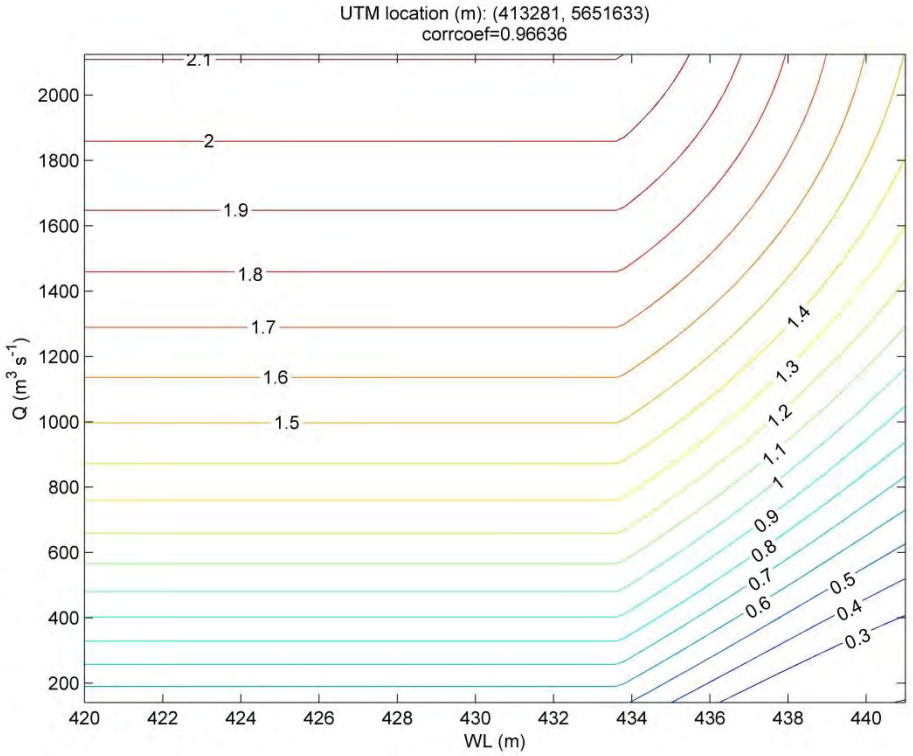

V0.5m=0.61447[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]0.5
+ 2.34623(1-|Q-2450.7643|/2621.3)0.5- 0.62307
WL1=max(433.679,-2.03532e-06Q2+ 0.00672Q+ 433.88004)
UTM location (m): (413259, 5651774)
corrcoef=0.98228
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

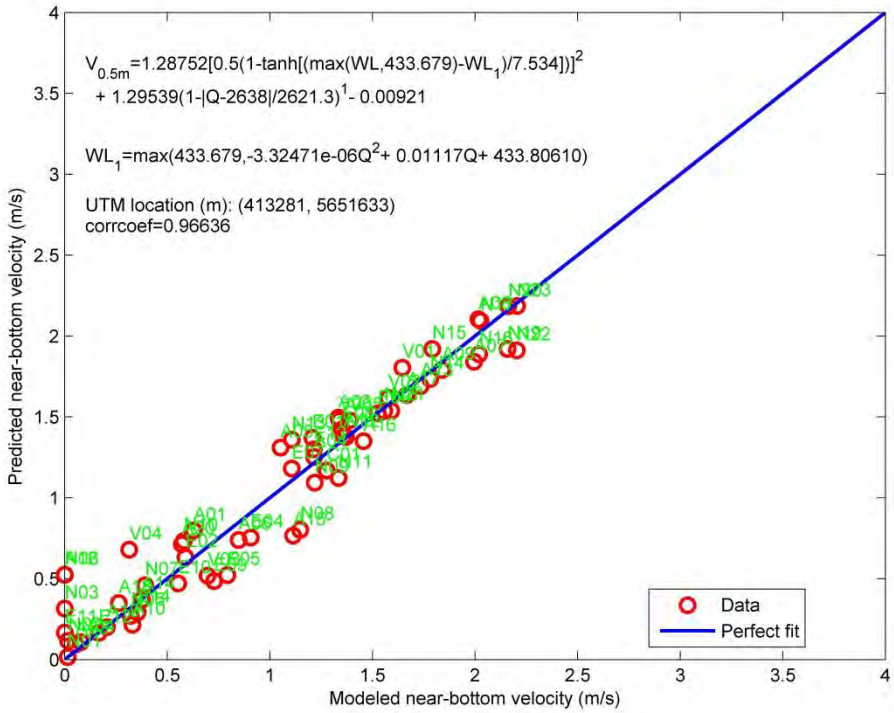
Site 19


UTM location (m): (413302, 5651733)
corrcoef=0.98545
Q (m3 s-1)
WL (m)
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

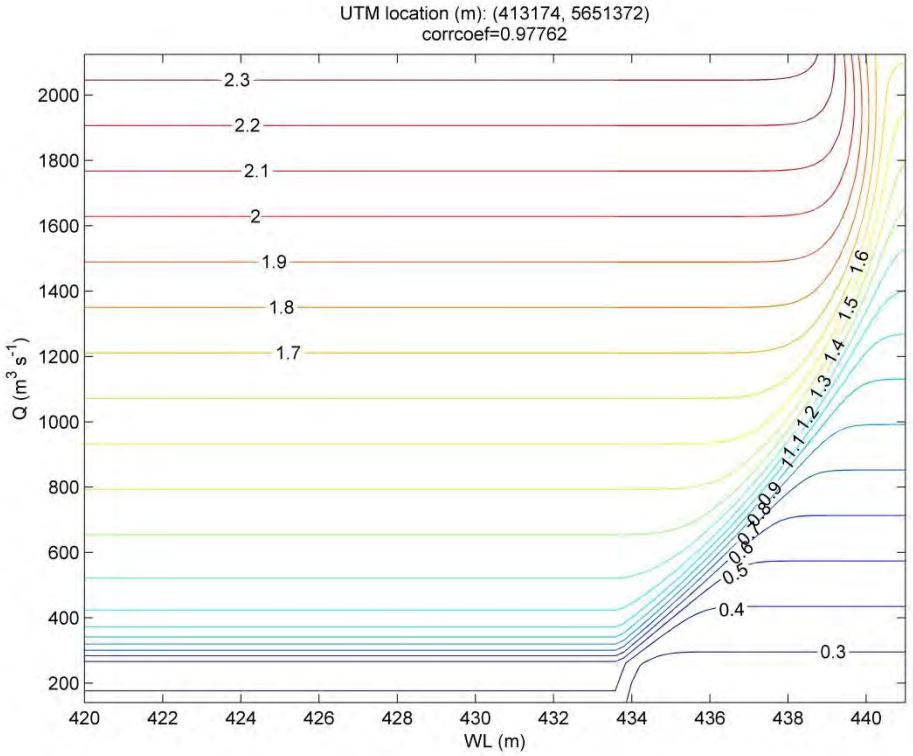

V0.5m=0.80605[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]0.5
+ 2.18281(1-|Q-2450.7643|/2621.3)1- 0.15729
WL1=max(433.679,-1.59159e-06Q2+ 0.00493Q+ 435.52430)
UTM location (m): (413302, 5651733)
corrcoef=0.98545
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

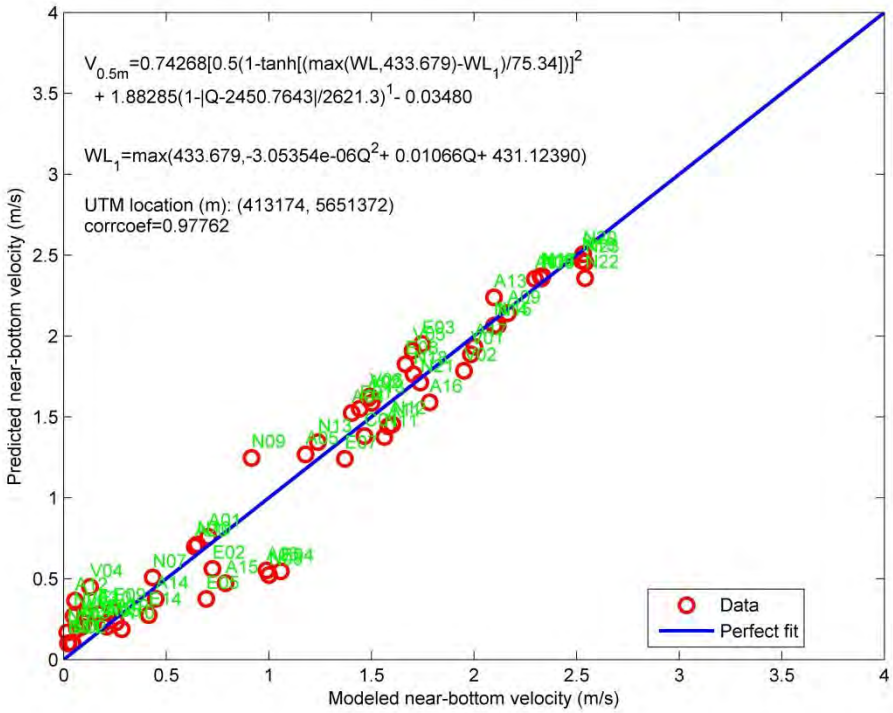
Site 20


UTM location (m): (413281, 5651633)
corrcoef=0.96636
Q (m3 s-1)
WL (m)
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

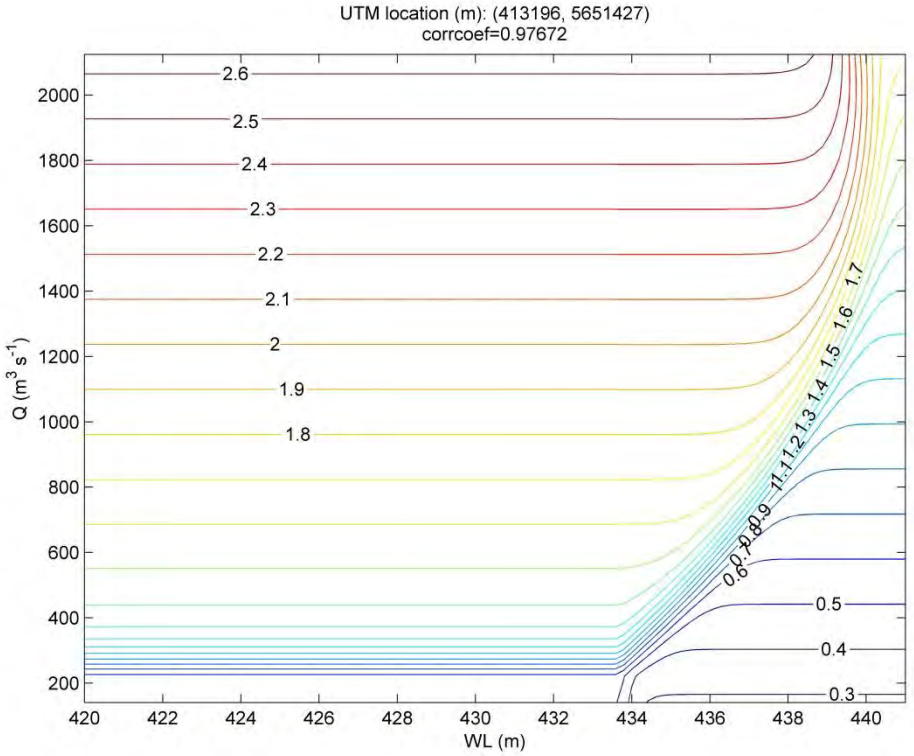

V0.5m=1.28752[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 1.29539(1-|Q-2638|/2621.3)1- 0.00921
WL1=max(433.679,-3.32471e-06Q2+ 0.01117Q+ 433.80610)
UTM location (m): (413281, 5651633)
corrcoef=0.96636
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

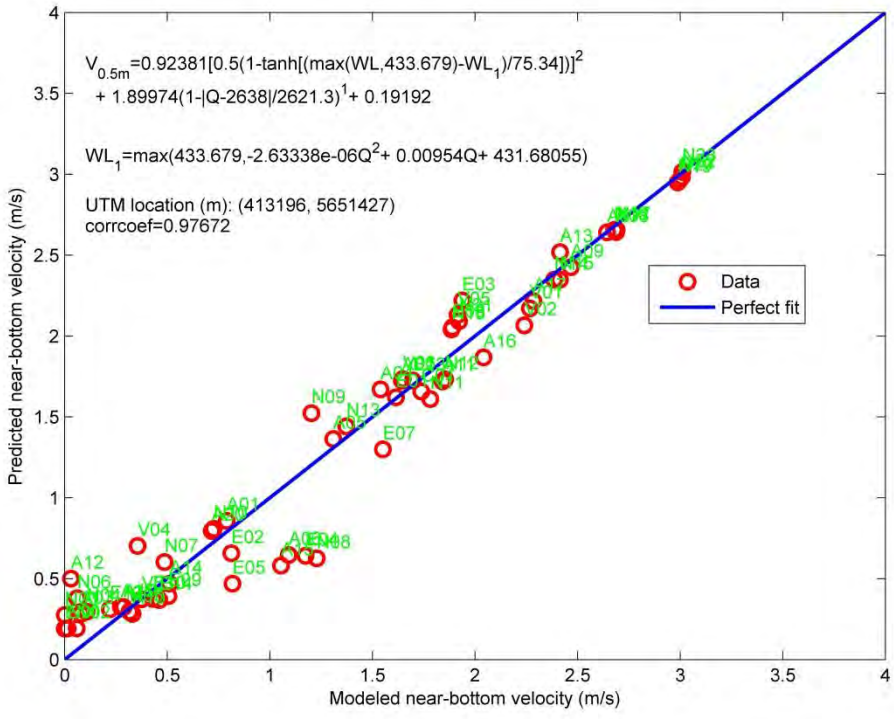
Site 21


UTM location (m): (413174, 5651372)
corrcoef=0.97762
Q (m3 s-1)
WL (m)
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

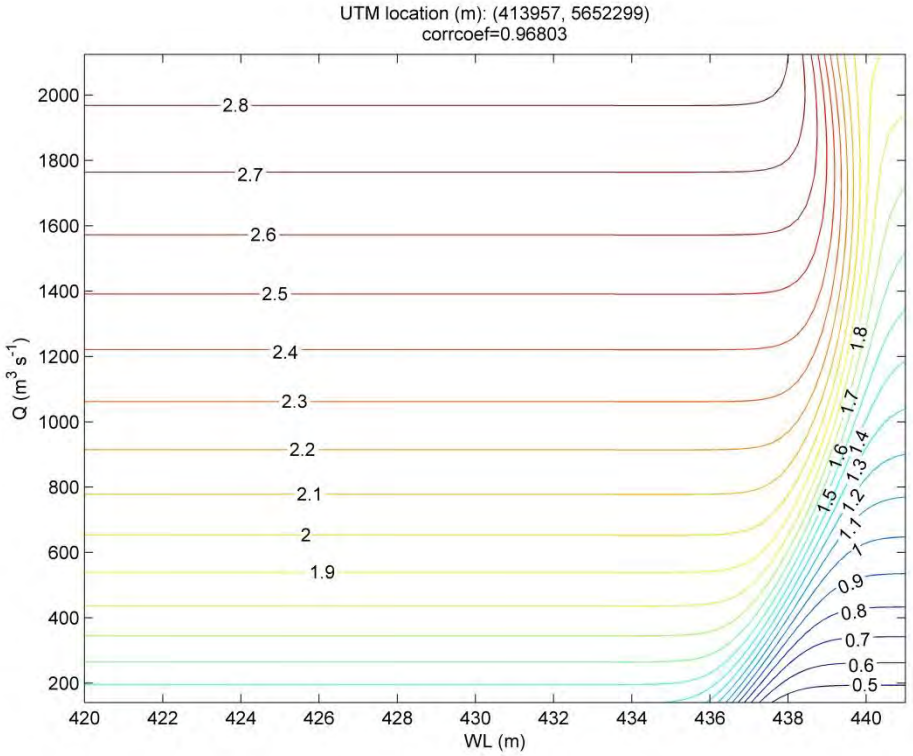

V0.5m=0.74268[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 1.88285(1-|Q-2450.7643|/2621.3)1- 0.03480
WL1=max(433.679,-3.05354e-06Q2+ 0.01066Q+ 431.12390)
UTM location (m): (413174, 5651372)
corrcoef=0.97762
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

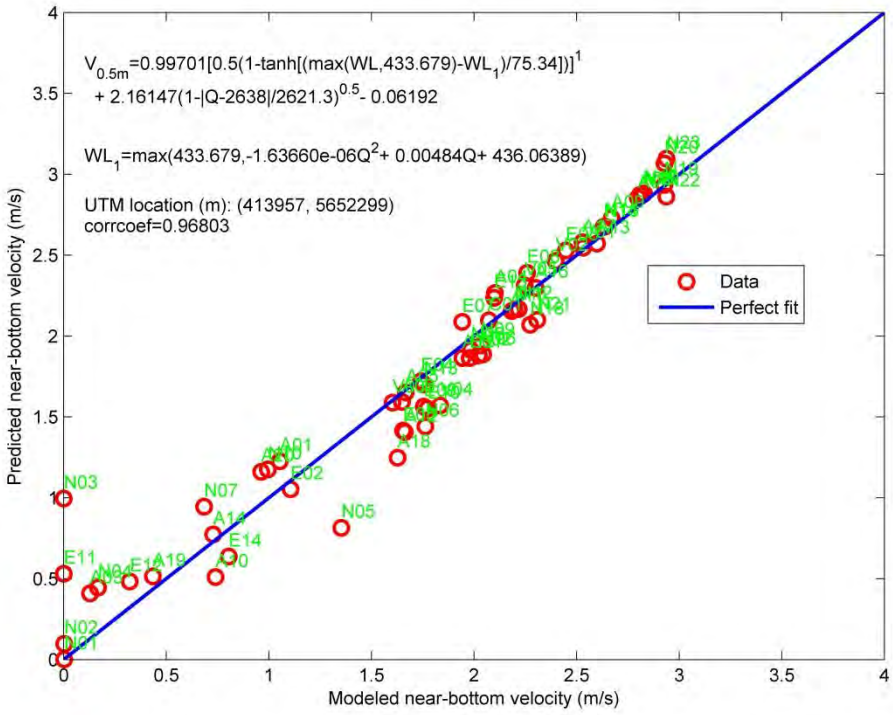
Site 22


UTM location (m): (413196, 5651427)
corrcoef=0.97672
Q (m3 s-1)
WL (m)
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

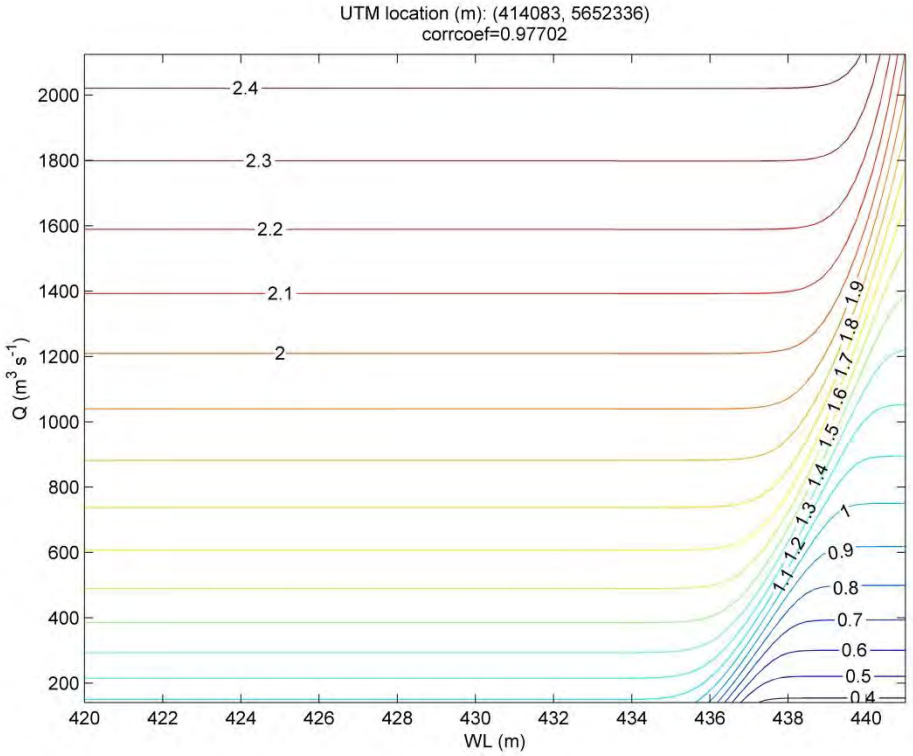

V0.5m=0.92381[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 1.89974(1-|Q-2638|/2621.3)1+ 0.19192
WL1=max(433.679,-2.63338e-06Q2+ 0.00954Q+ 431.68055)
UTM location (m): (413196, 5651427)
corrcoef=0.97672
Data
Perfect fit
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)

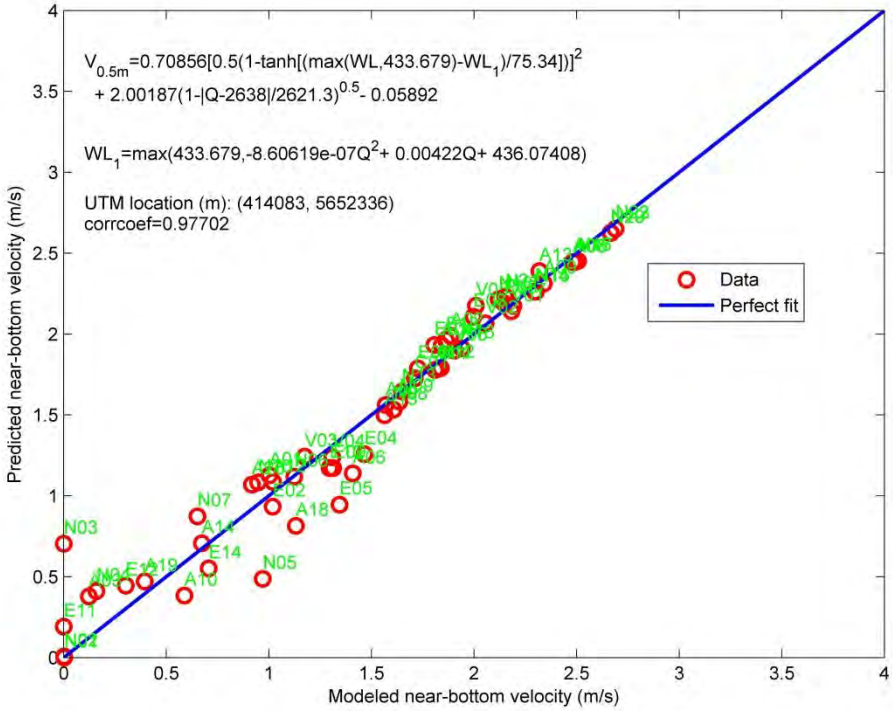
Site 23


UTM location (m): (413957, 5652299)
corrcoef=0.96803
Q (m3 s-1)
WL (m)
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

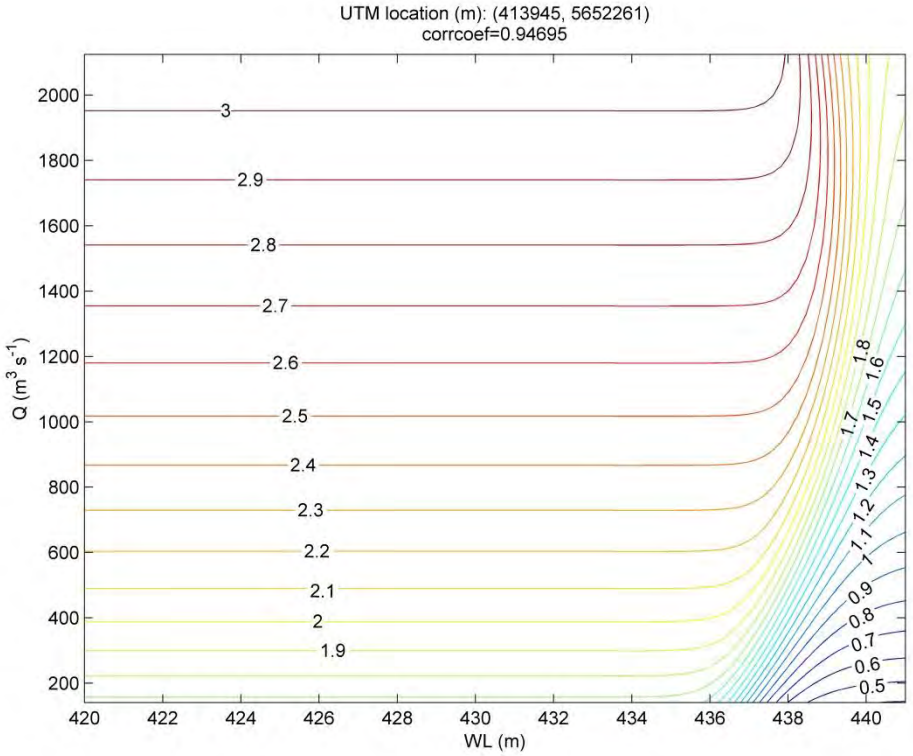

V0.5m=0.99701[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1
+ 2.16147(1-|Q-2638|/2621.3)0.5- 0.06192
WL1=max(433.679,-1.63660e-06Q2+ 0.00484Q+ 436.06389)
UTM location (m): (413957, 5652299)
corrcoef=0.96803
Data
Perfect fit
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)

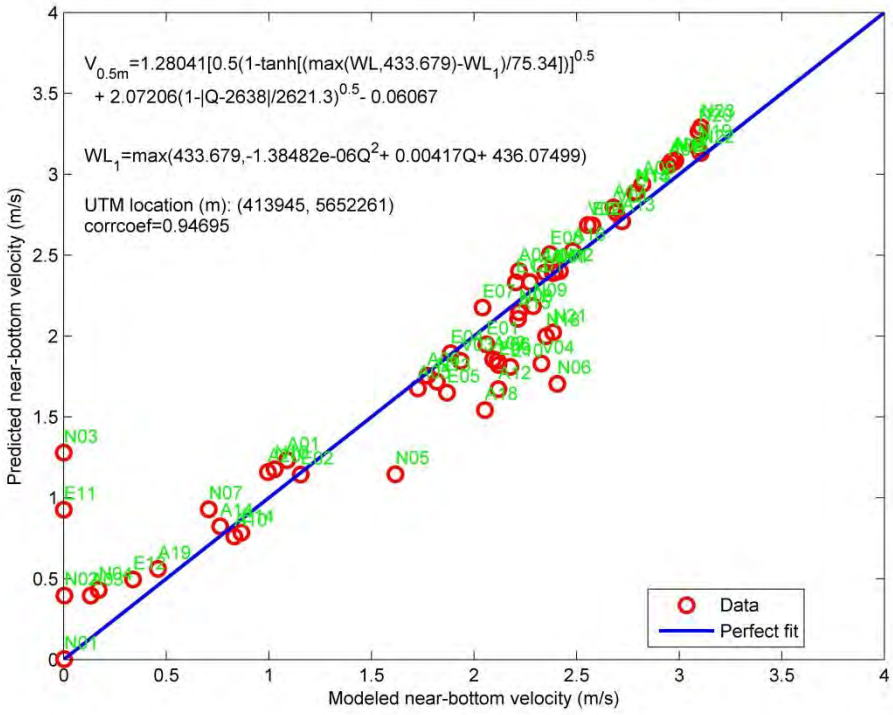
Site 24


UTM location (m): (414083, 5652336)
corrcoef=0.97702
Q (m3 s-1)
WL (m)
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

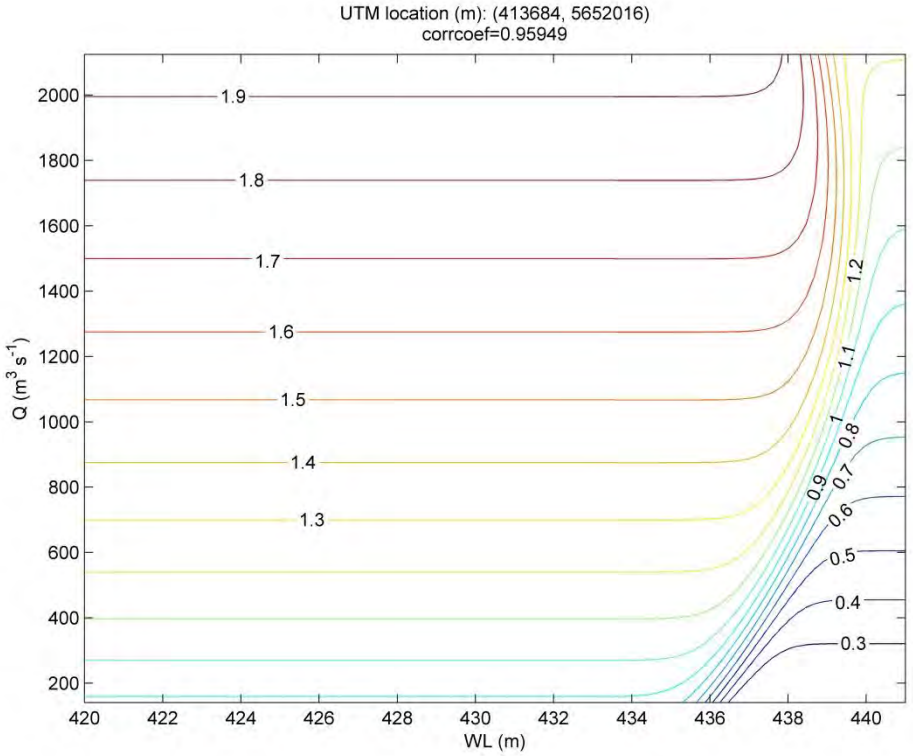

V0.5m=0.70856[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 2.00187(1-|Q-2638|/2621.3)0.5- 0.05892
WL1=max(433.679,-8.60619e-07Q2+ 0.00422Q+ 436.07408)
UTM location (m): (414083, 5652336)
corrcoef=0.97702
Data
Perfect fit
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)

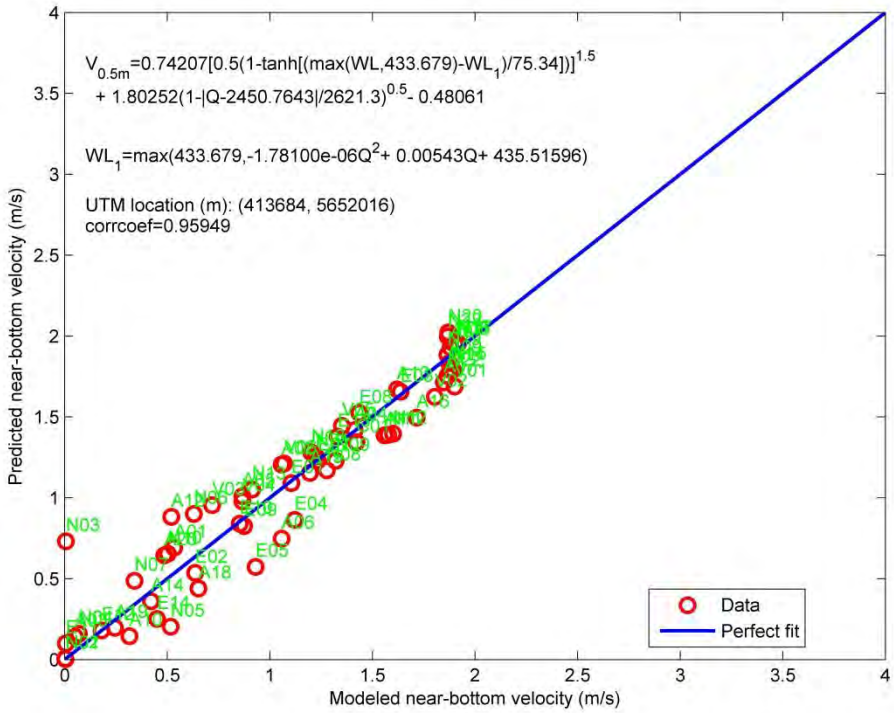
Site 25


UTM location (m): (413945, 5652261)
corrcoef=0.94695
Q (m3 s-1)
WL (m)
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
0.9
0.8
0.7
0.6
0.5

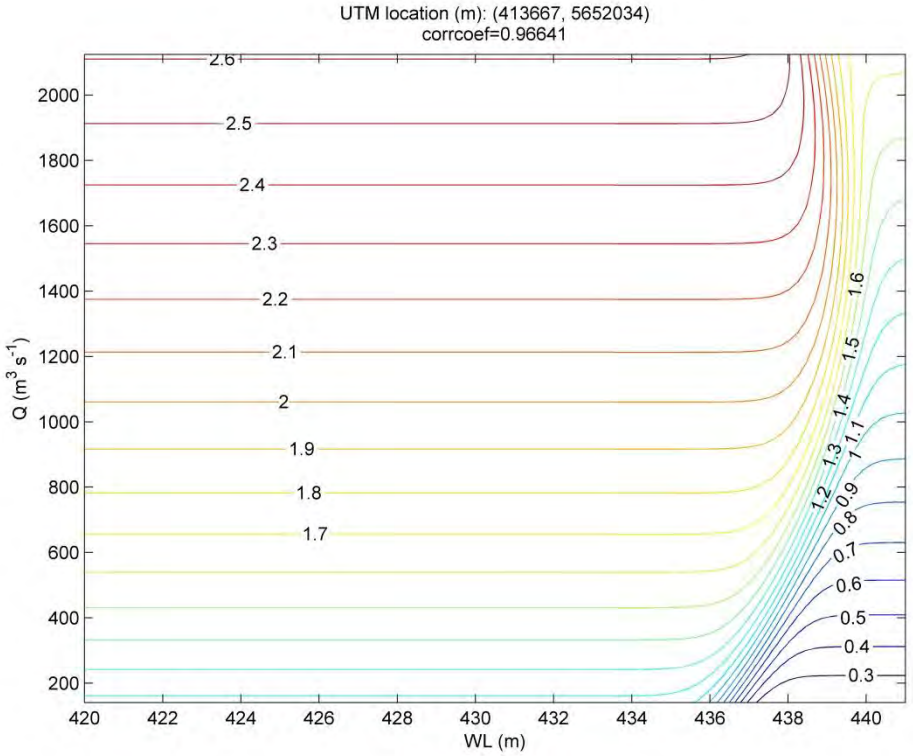

V0.5m=1.28041[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]0.5
+ 2.07206(1-|Q-2638|/2621.3)0.5- 0.06067
WL1=max(433.679,-1.38482e-06Q2+ 0.00417Q+ 436.07499)
UTM location (m): (413945, 5652261)
corrcoef=0.94695
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

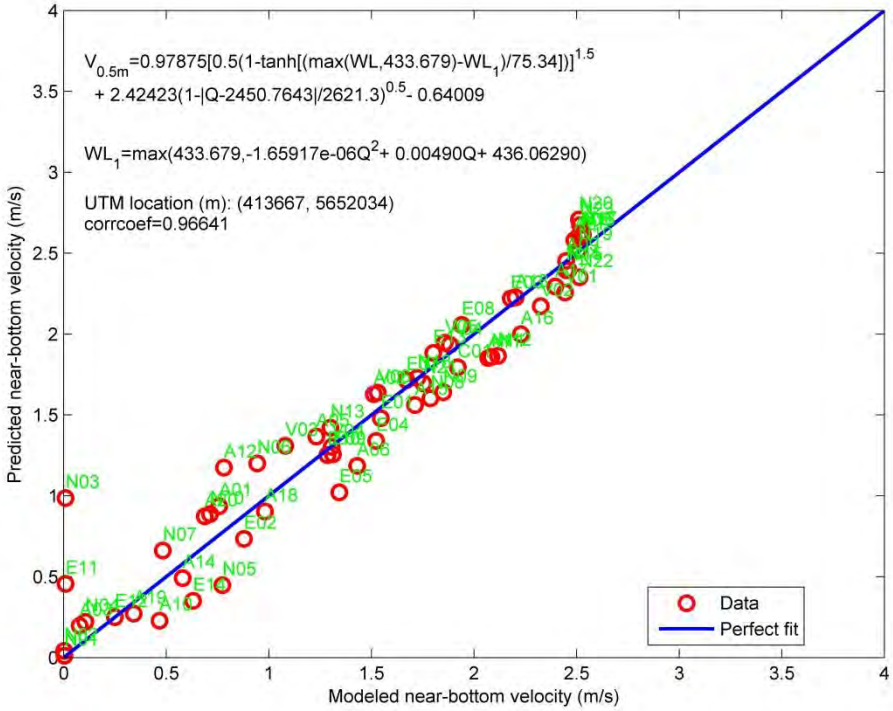
Site 26


UTM location (m): (413684, 5652016)
corrcoef=0.95949
Q (m3 s-1)
WL (m)
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

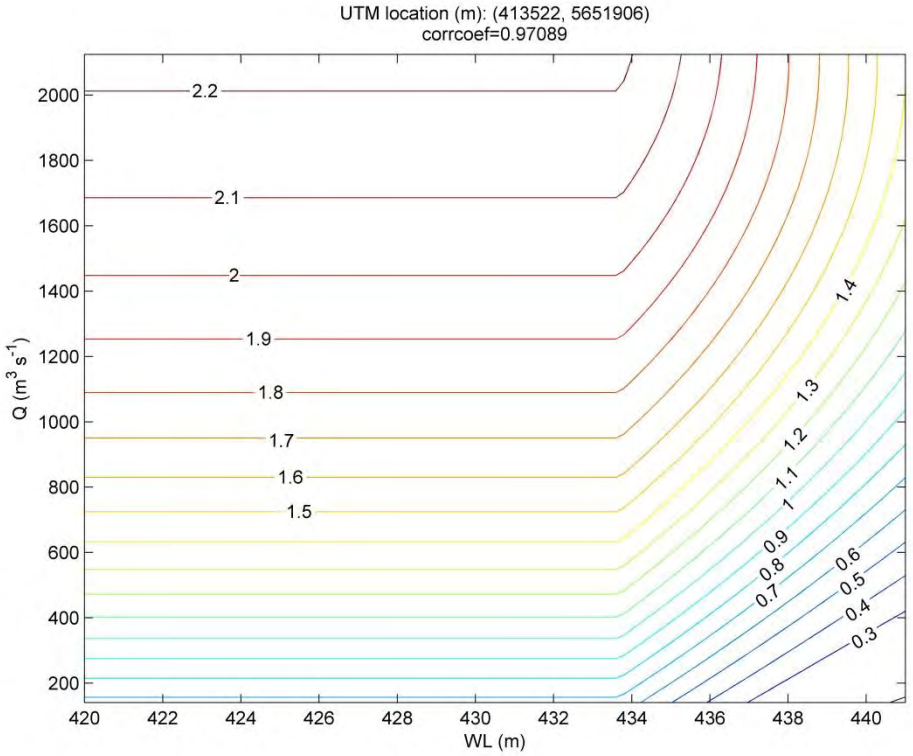

V0.5m=0.74207[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1.5
+ 1.80252(1-|Q-2450.7643|/2621.3)0.5- 0.48061
WL1=max(433.679,-1.78100e-06Q2+ 0.00543Q+ 435.51596)
UTM location (m): (413684, 5652016)
corrcoef=0.95949
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

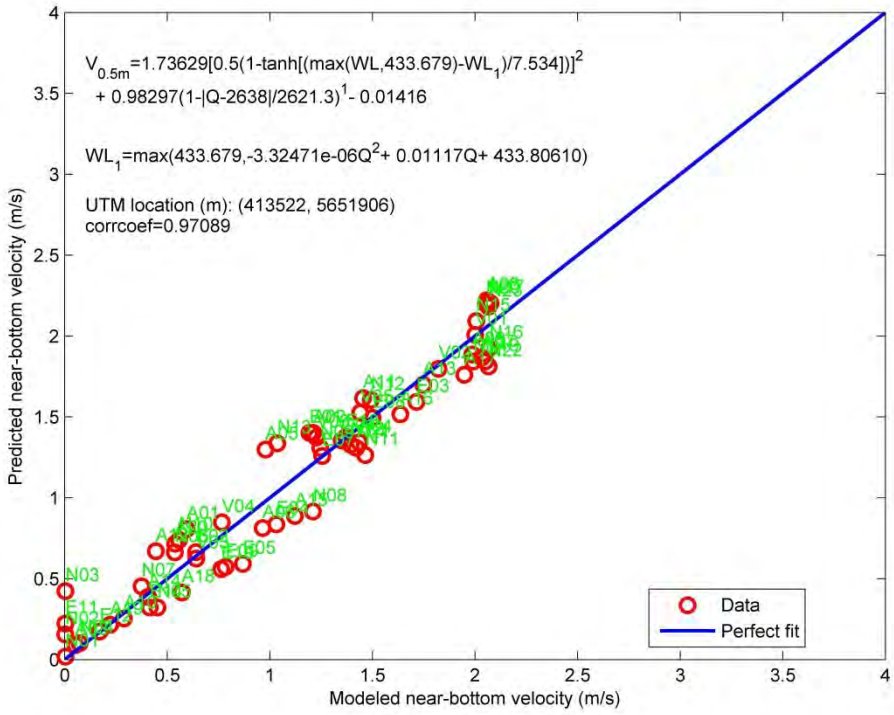
Site 27


UTM location (m): (413667, 5652034)
corrcoef=0.96641
Q (m3 s-1)
WL (m)
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

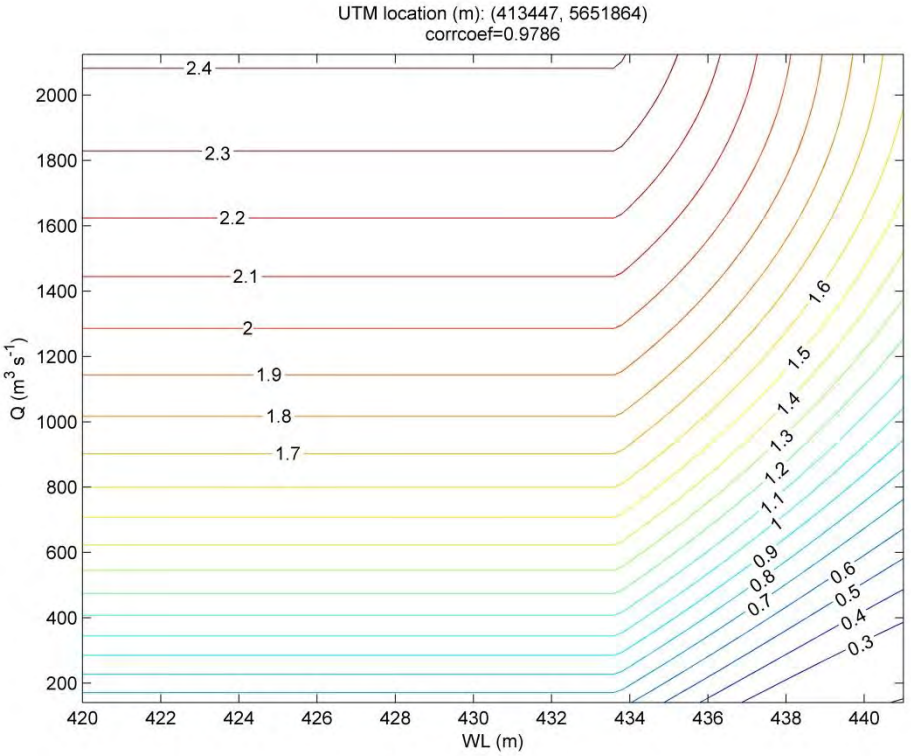

V0.5m=0.97875[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1.5
+ 2.42423(1-|Q-2450.7643|/2621.3)0.5- 0.64009
WL1=max(433.679,-1.65917e-06Q2+ 0.00490Q+ 436.06290)
UTM location (m): (413667, 5652034)
corrcoef=0.96641
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

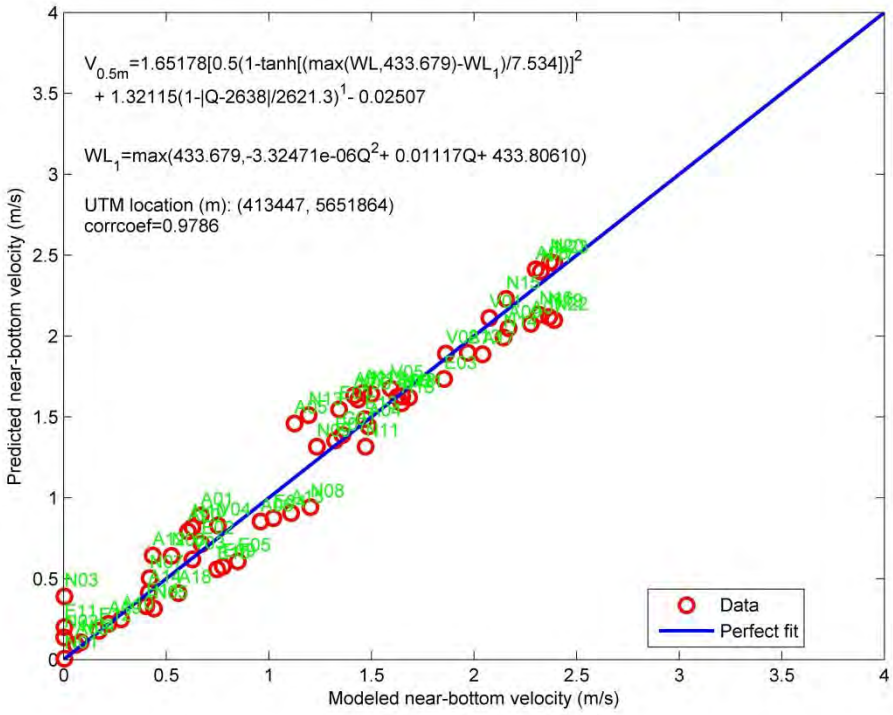
Site 28


UTM location (m): (413522, 5651906)
corrcoef=0.97089
Q (m3 s-1)
WL (m)
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

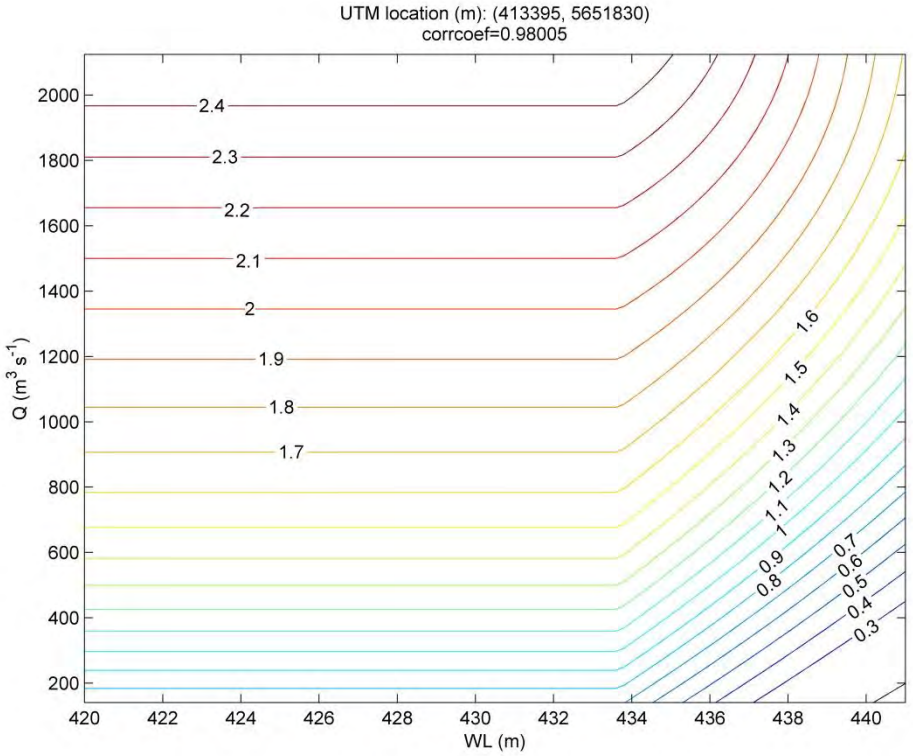

V0.5m=1.73629[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 0.98297(1-|Q-2638|/2621.3)1- 0.01416
WL1=max(433.679,-3.32471e-06Q2+ 0.01117Q+ 433.80610)
UTM location (m): (413522, 5651906)
corrcoef=0.97089
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

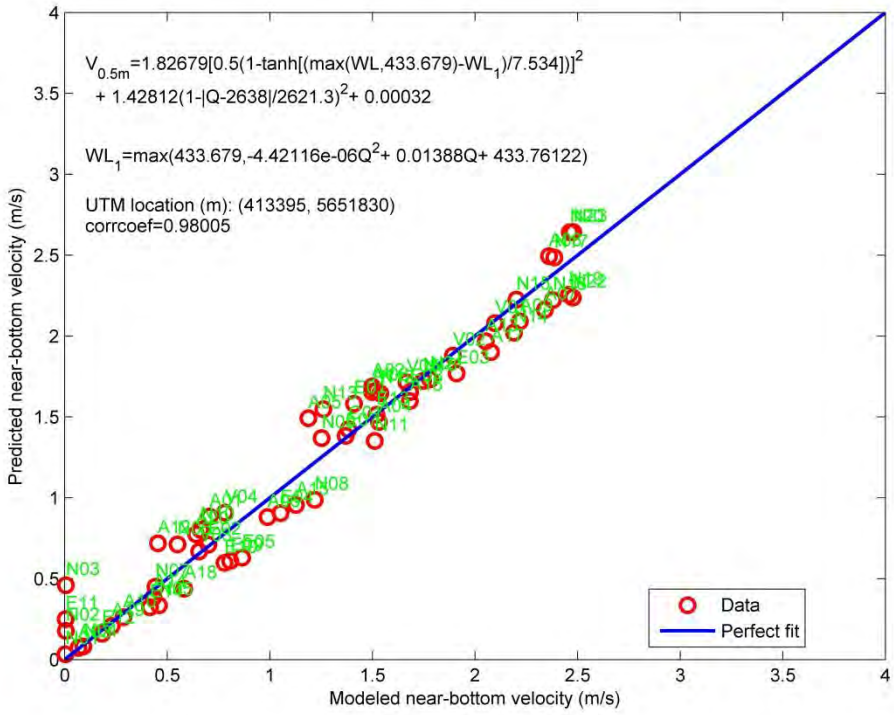
Site 29


UTM location (m): (413447, 5651864)
corrcoef=0.9786
Q (m3 s-1)
WL (m)
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

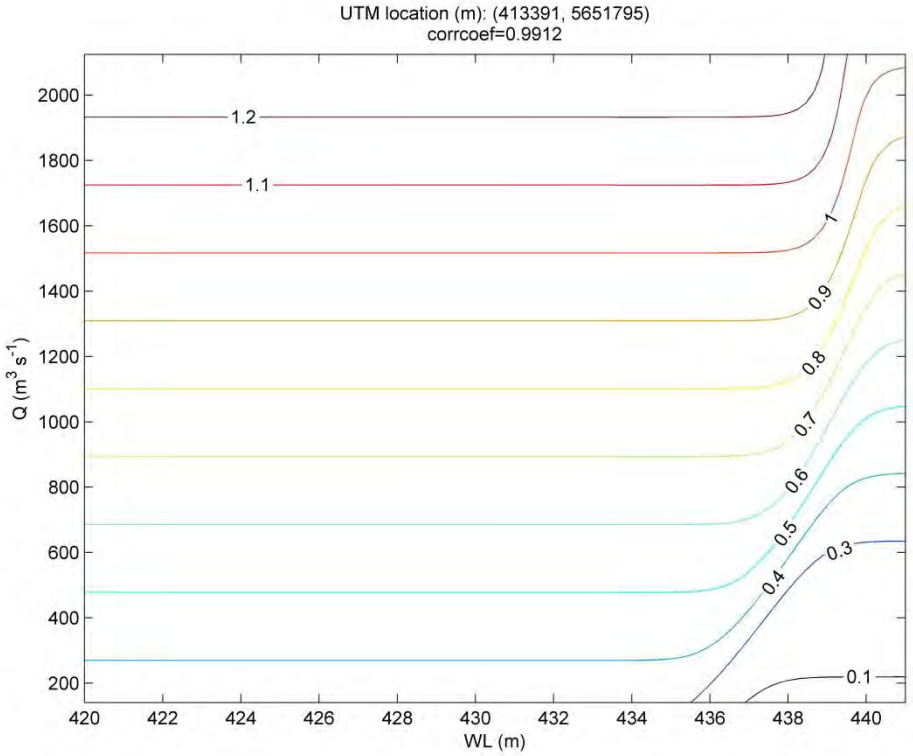

V0.5m=1.65178[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 1.32115(1-|Q-2638|/2621.3)1- 0.02507
WL1=max(433.679,-3.32471e-06Q2+ 0.01117Q+ 433.80610)
UTM location (m): (413447, 5651864)
corrcoef=0.9786
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

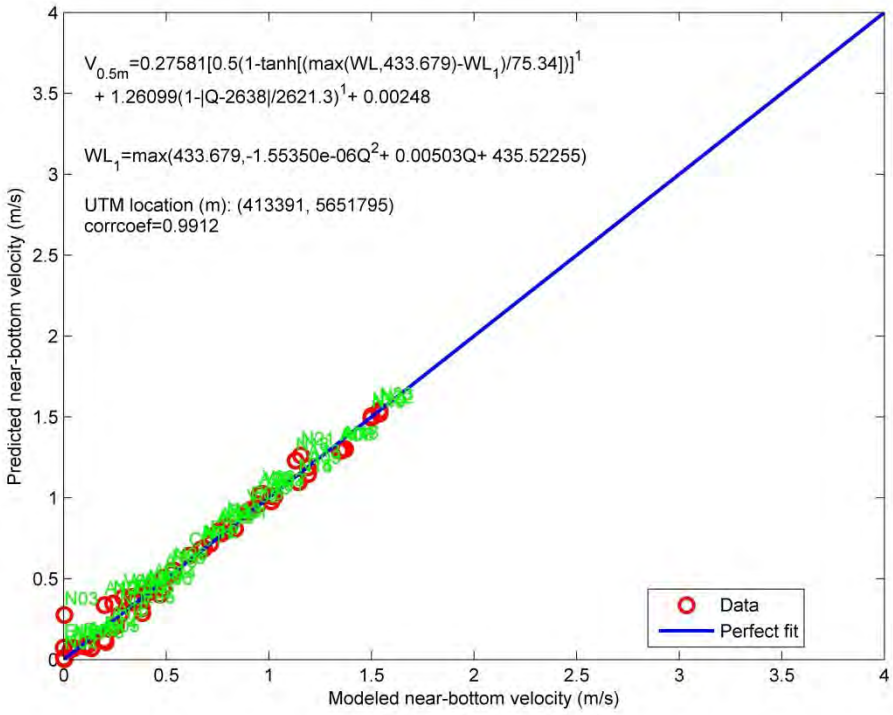
Site 30


UTM location (m): (413395, 5651830)
corrcoef=0.98005
Q (m3 s-1)
WL (m)
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

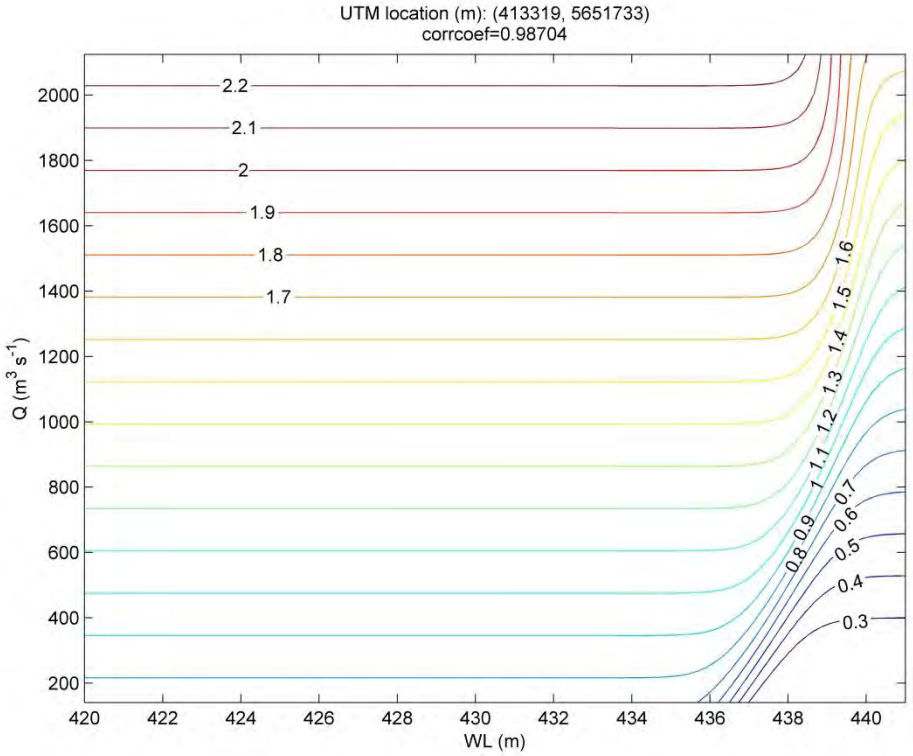

V0.5m=1.82679[0.5(1-tanh[(max(WL,433.679)-WL1)/7.534])]2
+ 1.42812(1-|Q-2638|/2621.3)2+ 0.00032
WL1=max(433.679,-4.42116e-06Q2+ 0.01388Q+ 433.76122)
UTM location (m): (413395, 5651830)
corrcoef=0.98005
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

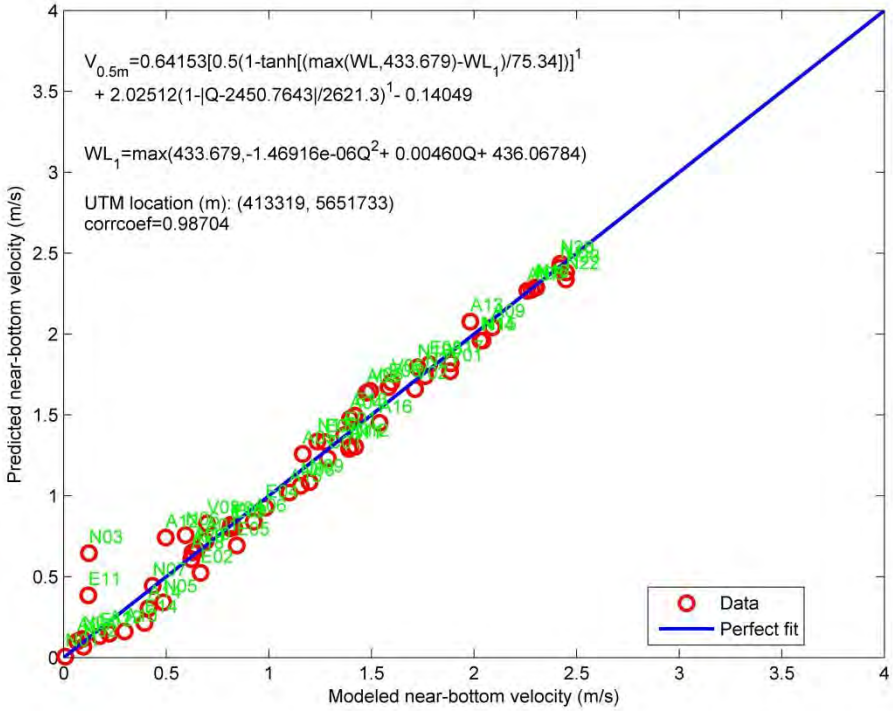
Site 31


UTM location (m): (413391, 5651795)
corrcoef=0.9912
Q (m3 s-1)
WL (m)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1

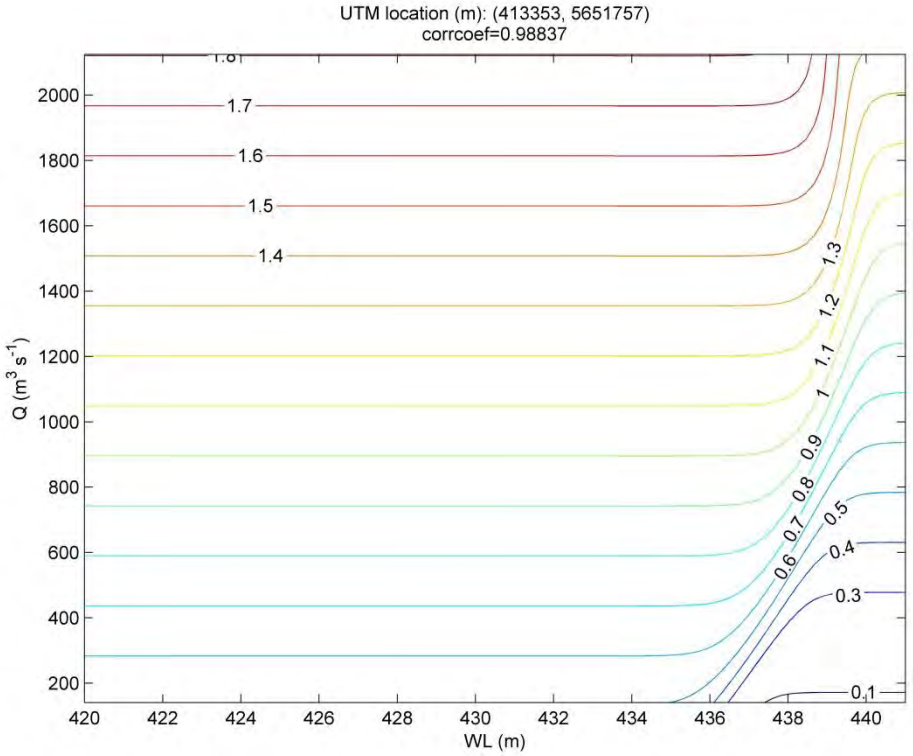

V0.5m=0.27581[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1
+ 1.26099(1-|Q-2638|/2621.3)1+ 0.00248
WL1=max(433.679,-1.55350e-06Q2+ 0.00503Q+ 435.52255)
UTM location (m): (413391, 5651795)
corrcoef=0.9912
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

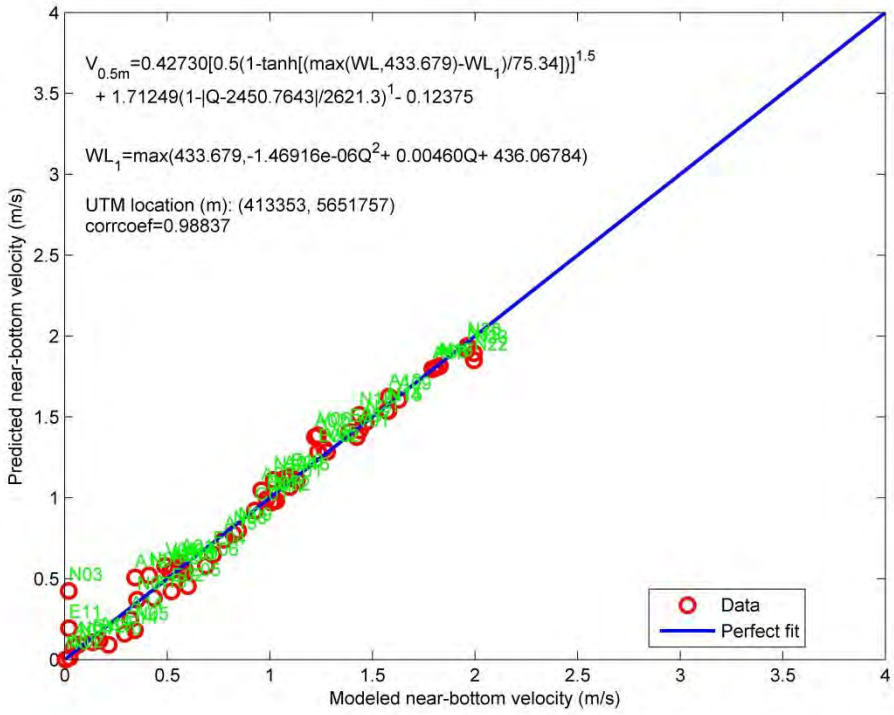
Site 32


UTM location (m): (413319, 5651733)
corrcoef=0.98704
Q (m3 s-1)
WL (m)
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

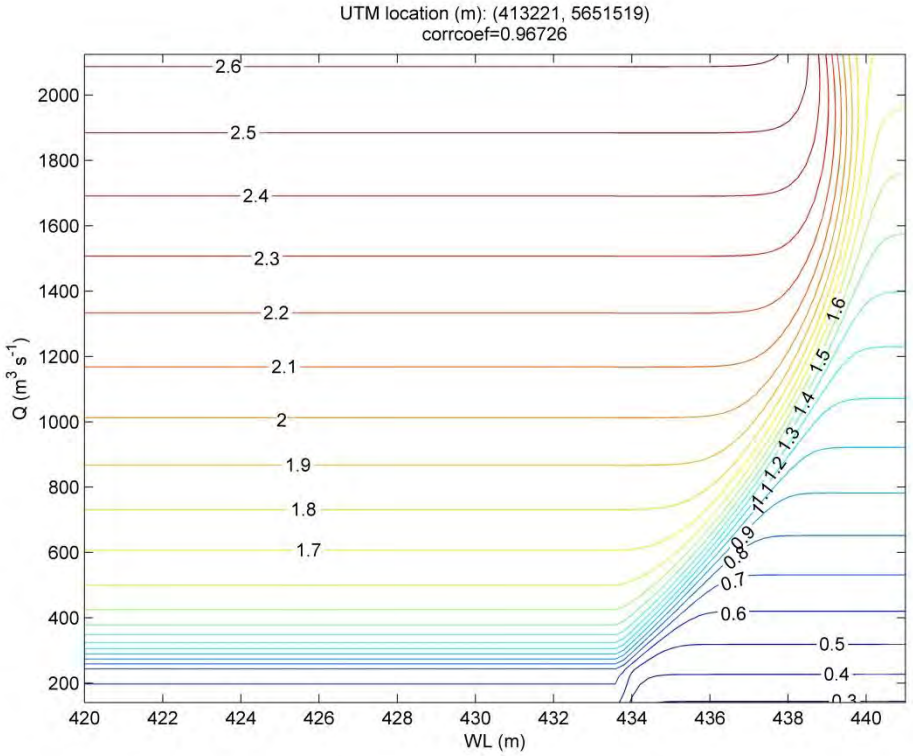

V0.5m=0.64153[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1
+ 2.02512(1-|Q-2450.7643|/2621.3)1- 0.14049
WL1=max(433.679,-1.46916e-06Q2+ 0.00460Q+ 436.06784)
UTM location (m): (413319, 5651733)
corrcoef=0.98704
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

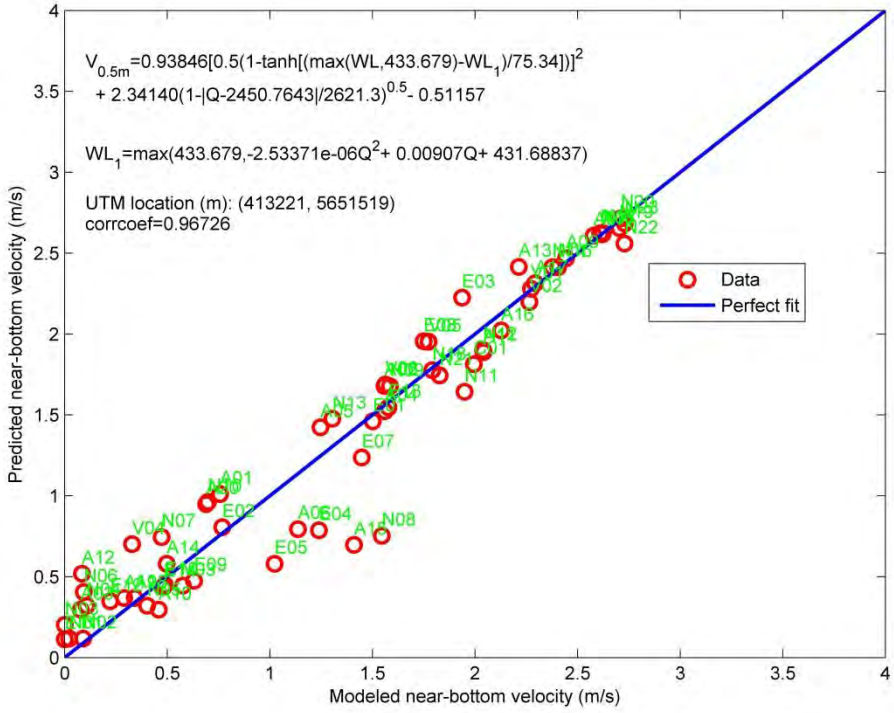
Site 33


UTM location (m): (413353, 5651757)
corrcoef=0.98837
Q (m3 s-1)
WL (m)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1


V0.5m=0.42730[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]1.5
+ 1.71249(1-|Q-2450.7643|/2621.3)1- 0.12375
WL1=max(433.679,-1.46916e-06Q2+ 0.00460Q+ 436.06784)
UTM location (m): (413353, 5651757)
corrcoef=0.98837
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)
Data
Perfect fit

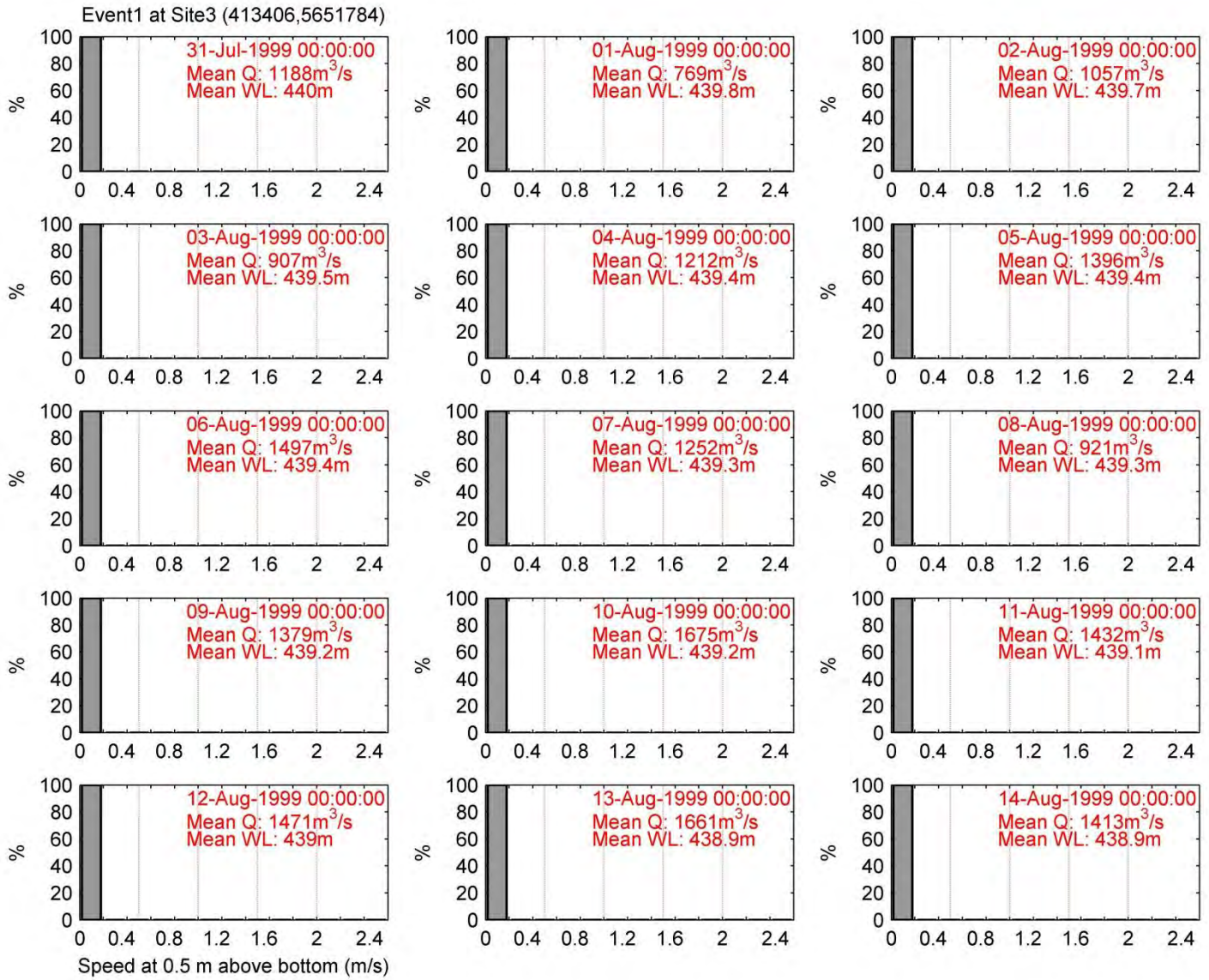
Site 34

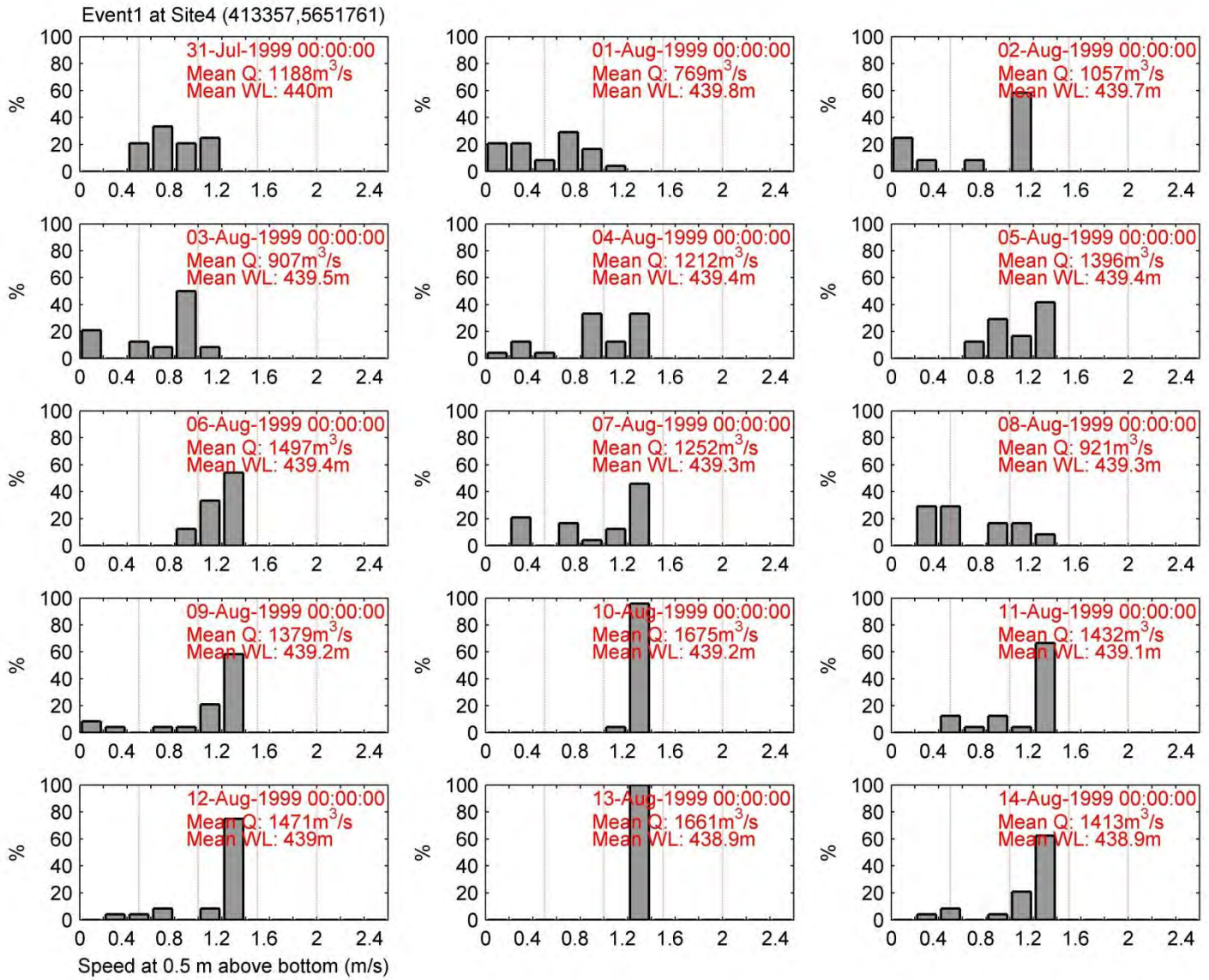

UTM location (m): (413221, 5651519)
corrcoef=0.96726
Q (m3 s-1)
WL (m)

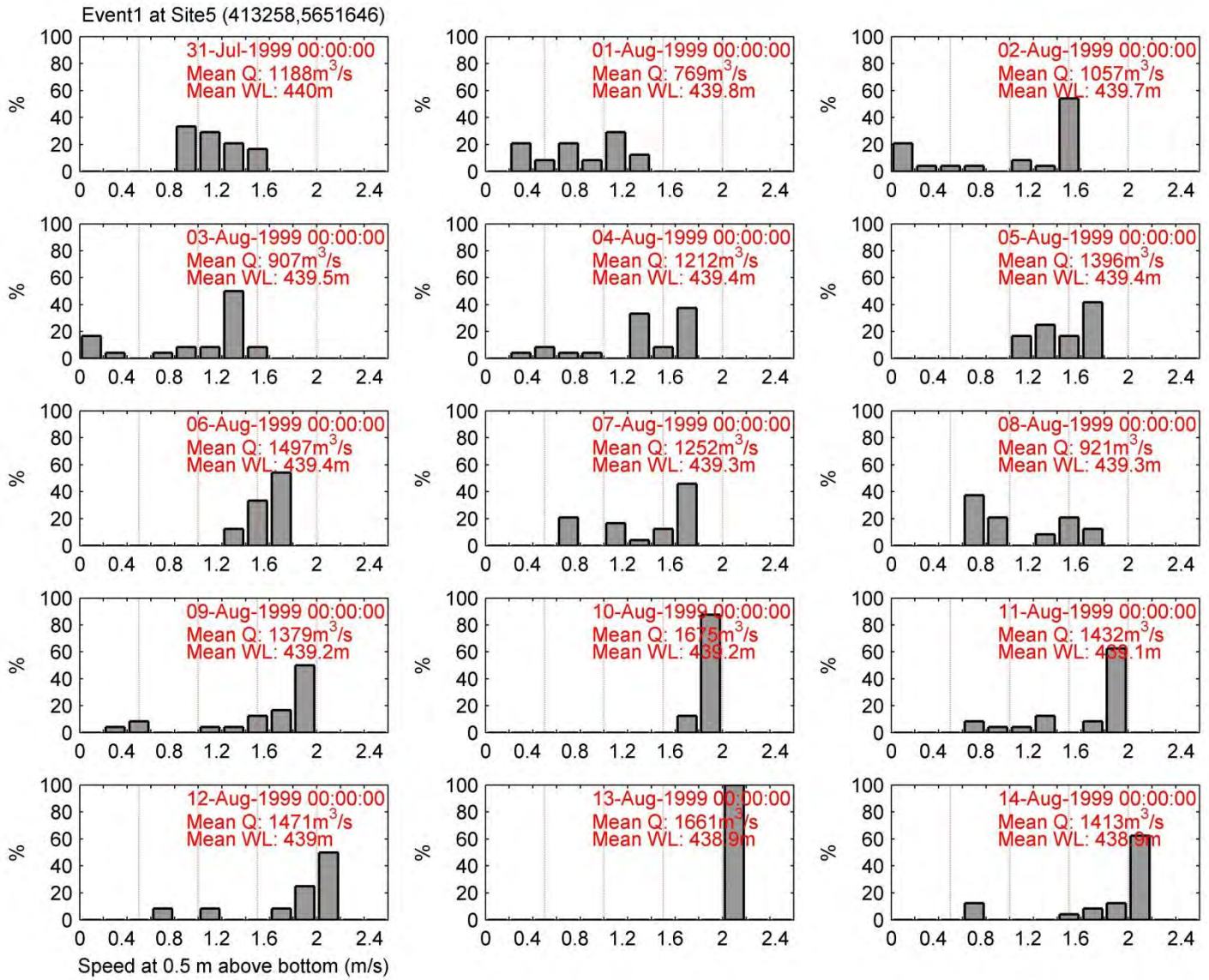

V0.5m=0.93846[0.5(1-tanh[(max(WL,433.679)-WL1)/75.34])]2
+ 2.34140(1-|Q-2450.7643|/2621.3)0.5- 0.51157
WL1=max(433.679,-2.53371e-06Q2+ 0.00907Q+ 431.68837)
UTM location (m): (413221, 5651519)
corrcoef=0.96726
Data
Perfect fit
Predicted near-bottom velocity (m/s)
Modeled near-bottom velocity (m/s)

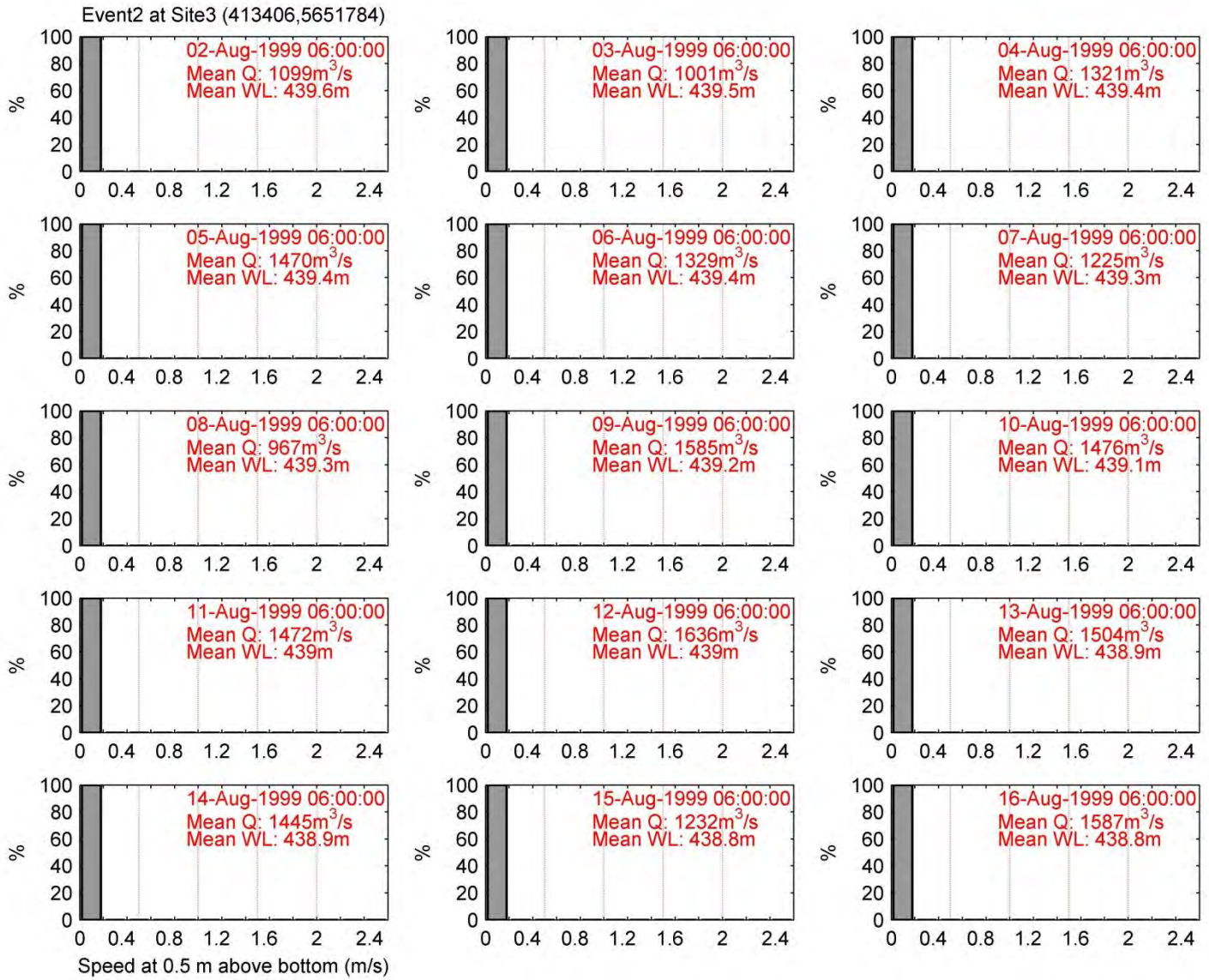
Appendix B: Daily distribution of near bottom velocities at the 34 sites over the 15 day period following each spawning event.

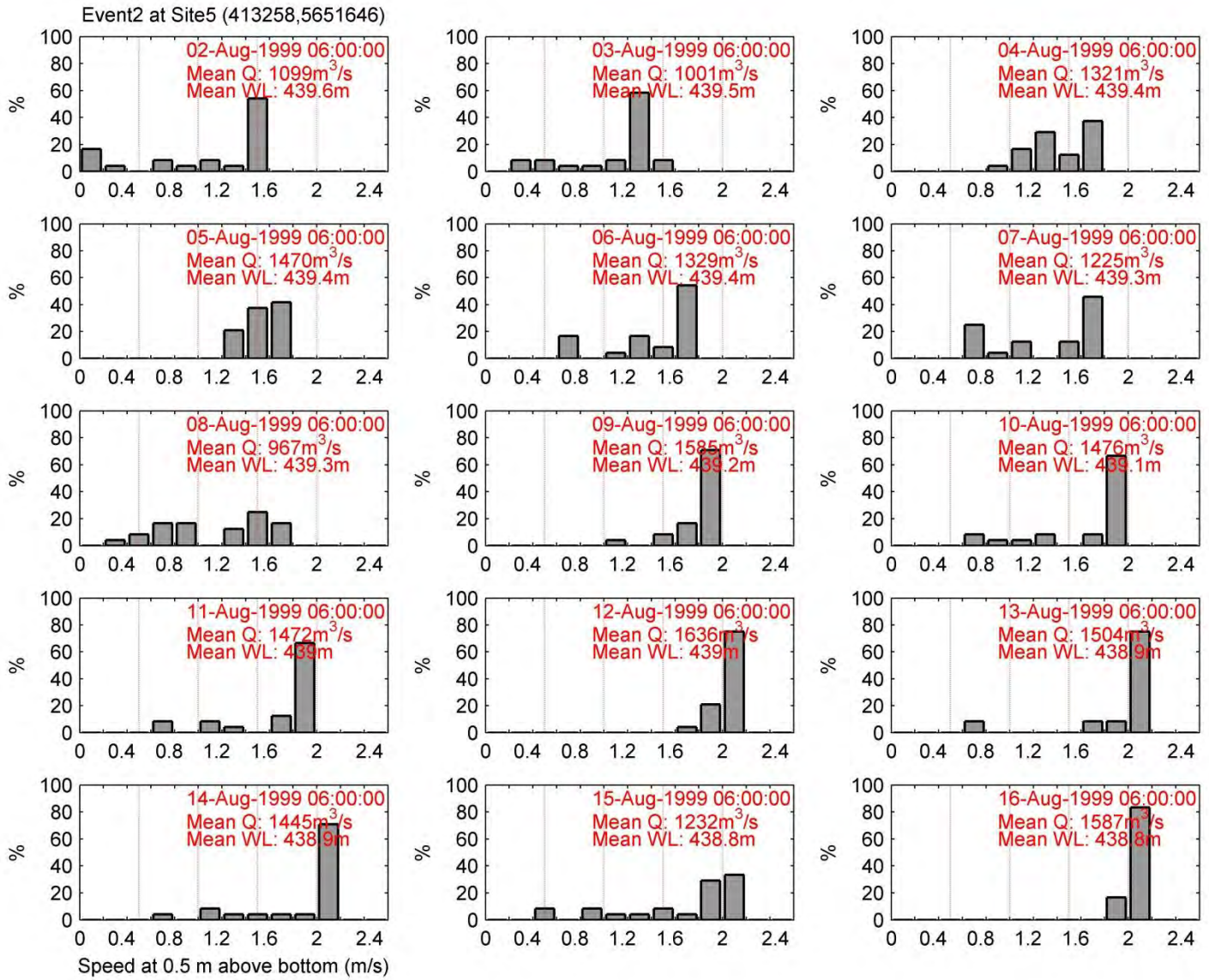
Appendix B: Daily distribution of near bottom velocities at the 34 sites over the 15 day period following each spawning event.

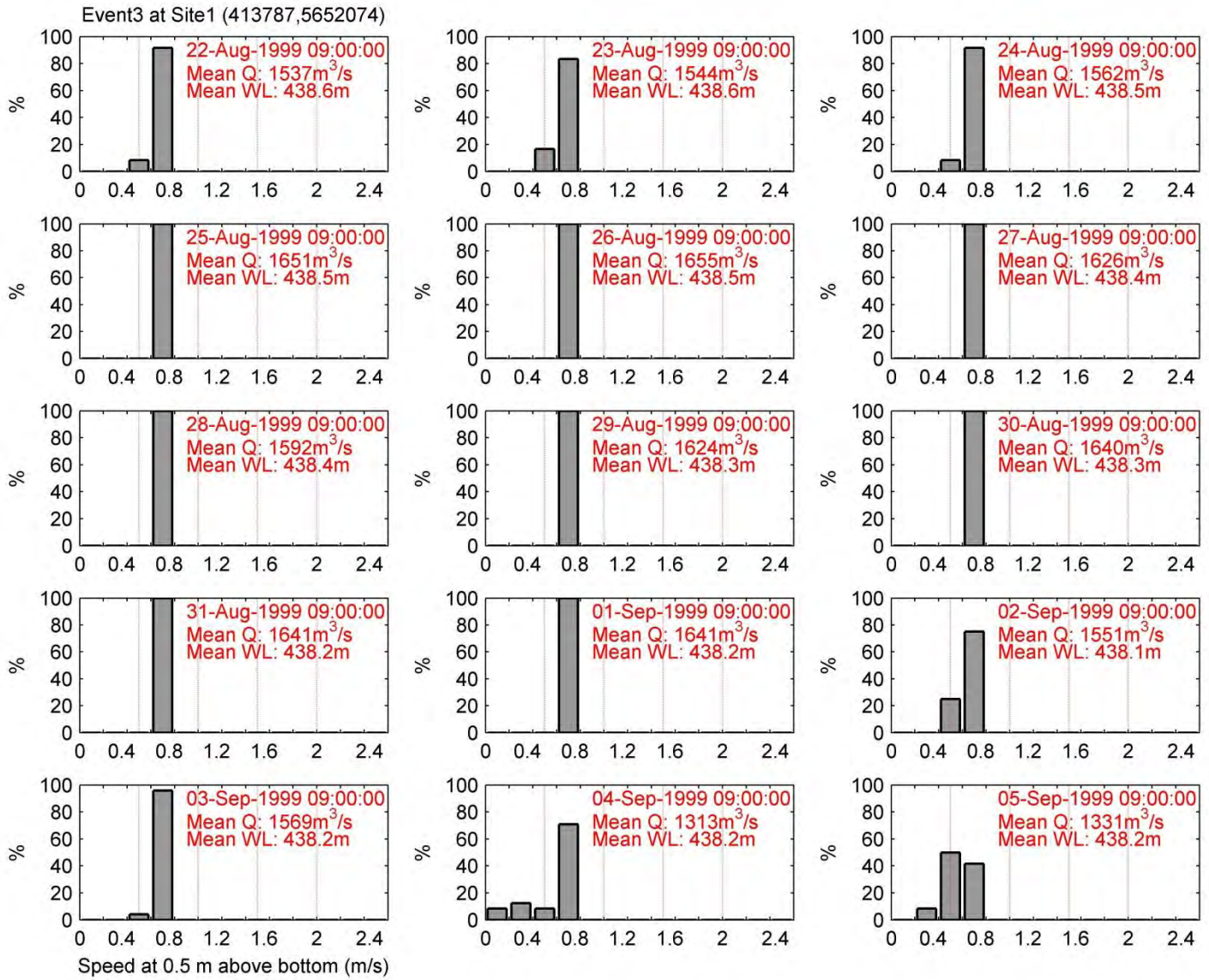

Event1 at Site3 (413406,5651784)
31-Jul-1999 00:00:00
Mean Q: 1188m3/s
Mean WL: 440m
01-Aug-1999 00:00:00
Mean Q: 769m3/s
Mean WL: 439.8m
02-Aug-1999 00:00:00
Mean Q: 1057m3/s
Mean WL: 439.7m
03-Aug-1999 00:00:00
Mean Q: 907m3/s
Mean WL: 439.5m
04-Aug-1999 00:00:00
Mean Q: 1212m3/s
Mean WL: 439.4m
05-Aug-1999 00:00:00
Mean Q: 1396m3/s
Mean WL: 439.4m
06-Aug-1999 00:00:00
Mean Q: 1497m3/s
Mean WL: 439.4m
07-Aug-1999 00:00:00
Mean Q: 1252m3/s
Mean WL: 439.3m
08-Aug-1999 00:00:00
Mean Q: 921m3/s
Mean WL: 439.3m
09-Aug-1999 00:00:00
Mean Q: 1379m3/s
Mean WL: 439.2m
10-Aug-1999 00:00:00
Mean Q: 1675m3/s
Mean WL: 439.2m
11-Aug-1999 00:00:00
Mean Q: 1432m3/s
Mean WL: 439.1m
12-Aug-1999 00:00:00
Mean Q: 1471m3/s
Mean WL: 439m
13-Aug-1999 00:00:00
Mean Q: 1661m3/s
Mean WL: 438.9m
14-Aug-1999 00:00:00
Mean Q: 1413m3/s
Mean WL: 438.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

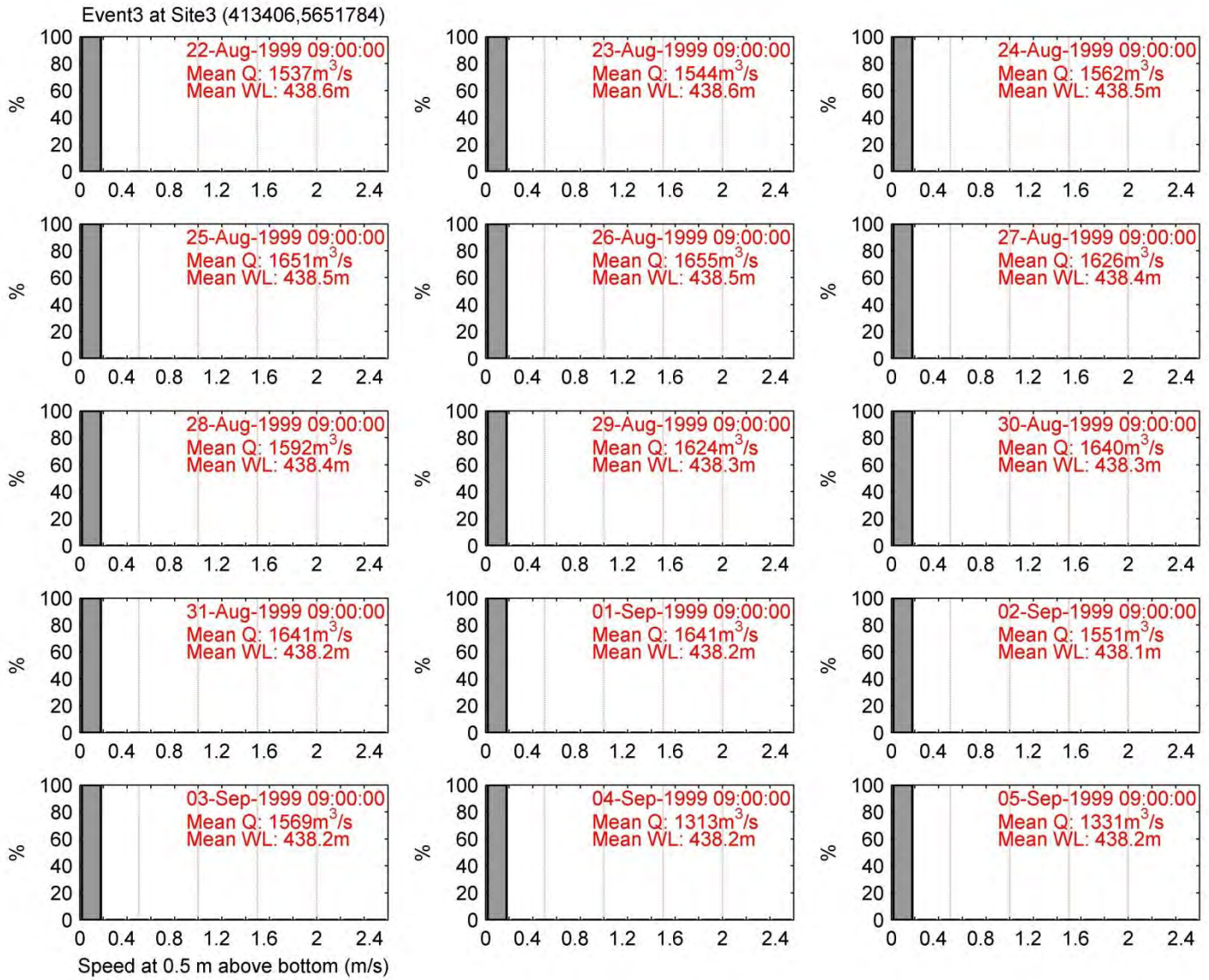

Event1 at Site4 (413357,5651761)
31-Jul-1999 00:00:00
Mean Q: 1188m3/s
Mean WL: 440m
01-Aug-1999 00:00:00
Mean Q: 769m3/s
Mean WL: 439.8m
02-Aug-1999 00:00:00
Mean Q: 1057m3/s
Mean WL: 439.7m
03-Aug-1999 00:00:00
Mean Q: 907m3/s
Mean WL: 439.5m
04-Aug-1999 00:00:00
Mean Q: 1212m3/s
Mean WL: 439.4m
05-Aug-1999 00:00:00
Mean Q: 1396m3/s
Mean WL: 439.4m
06-Aug-1999 00:00:00
Mean Q: 1497m3/s
Mean WL: 439.4m
07-Aug-1999 00:00:00
Mean Q: 1252m3/s
Mean WL: 439.3m
08-Aug-1999 00:00:00
Mean Q: 921m3/s
Mean WL: 439.3m
09-Aug-1999 00:00:00
Mean Q: 1379m3/s
Mean WL: 439.2m
10-Aug-1999 00:00:00
Mean Q: 1675m3/s
Mean WL: 439.2m
11-Aug-1999 00:00:00
Mean Q: 1432m3/s
Mean WL: 439.1m
12-Aug-1999 00:00:00
Mean Q: 1471m3/s
Mean WL: 439m
13-Aug-1999 00:00:00
Mean Q: 1661m3/s
Mean WL: 438.9m
14-Aug-1999 00:00:00
Mean Q: 1413m3/s
Mean WL: 438.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

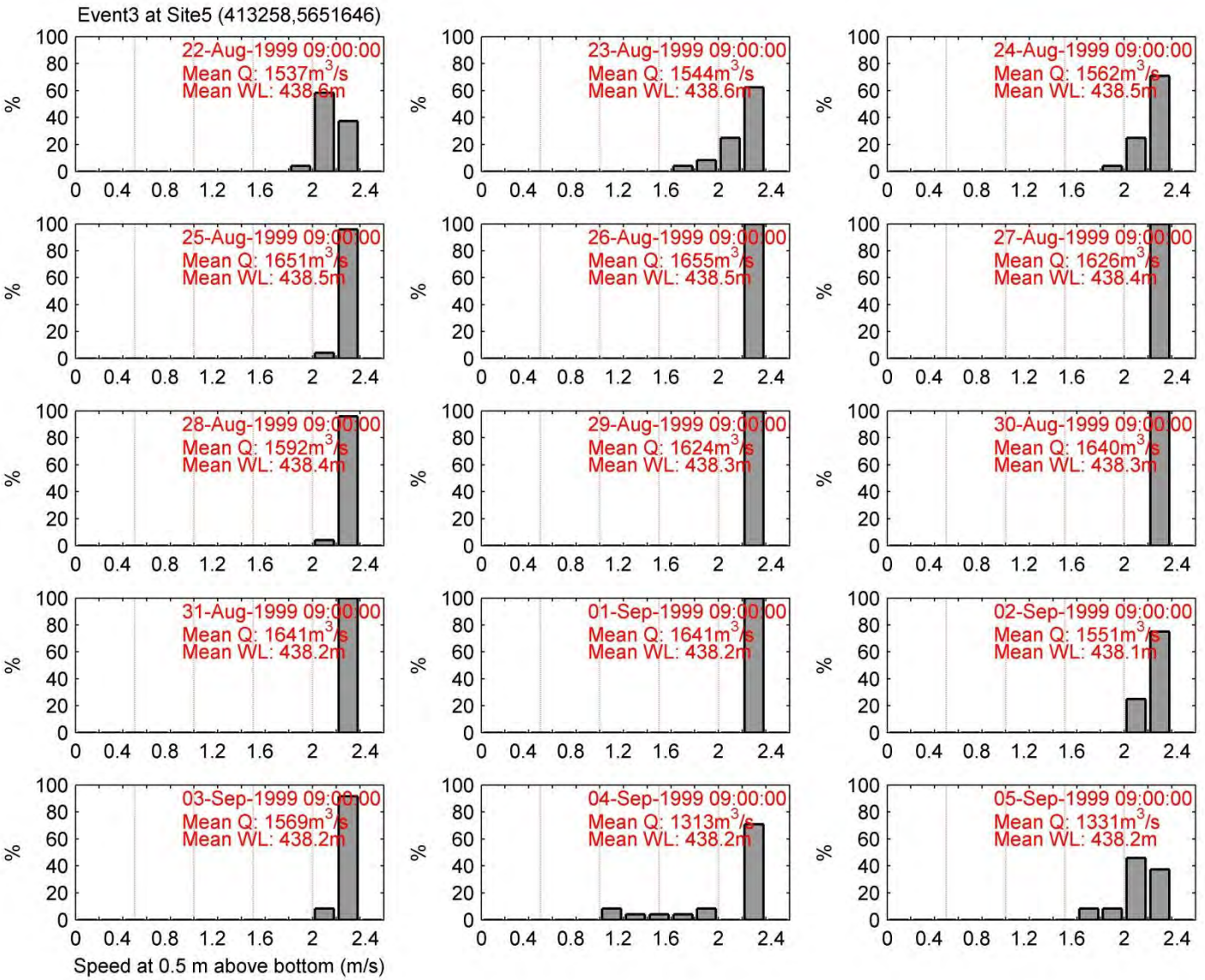

Event1 at Site5 (413258,5651646)
31-Jul-1999 00:00:00
Mean Q: 1188m3/s
Mean WL: 440m
01-Aug-1999 00:00:00
Mean Q: 769m3/s
Mean WL: 439.8m
02-Aug-1999 00:00:00
Mean Q: 1057m3/s
Mean WL: 439.7m
03-Aug-1999 00:00:00
Mean Q: 907m3/s
Mean WL: 439.5m
04-Aug-1999 00:00:00
Mean Q: 1212m3/s
Mean WL: 439.4m
05-Aug-1999 00:00:00
Mean Q: 1396m3/s
Mean WL: 439.4m
06-Aug-1999 00:00:00
Mean Q: 1497m3/s
Mean WL: 439.4m
07-Aug-1999 00:00:00
Mean Q: 1252m3/s
Mean WL: 439.3m
08-Aug-1999 00:00:00
Mean Q: 921m3/s
Mean WL: 439.3m
09-Aug-1999 00:00:00
Mean Q: 1379m3/s
Mean WL: 439.2m
10-Aug-1999 00:00:00
Mean Q: 1675m3/s
Mean WL: 439.2m
11-Aug-1999 00:00:00
Mean Q: 1432m3/s
Mean WL: 439.1m
12-Aug-1999 00:00:00
Mean Q: 1471m3/s
Mean WL: 439m
13-Aug-1999 00:00:00
Mean Q: 1661m3/s
Mean WL: 438.9m
14-Aug-1999 00:00:00
Mean Q: 1413m3/s
Mean WL: 438.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

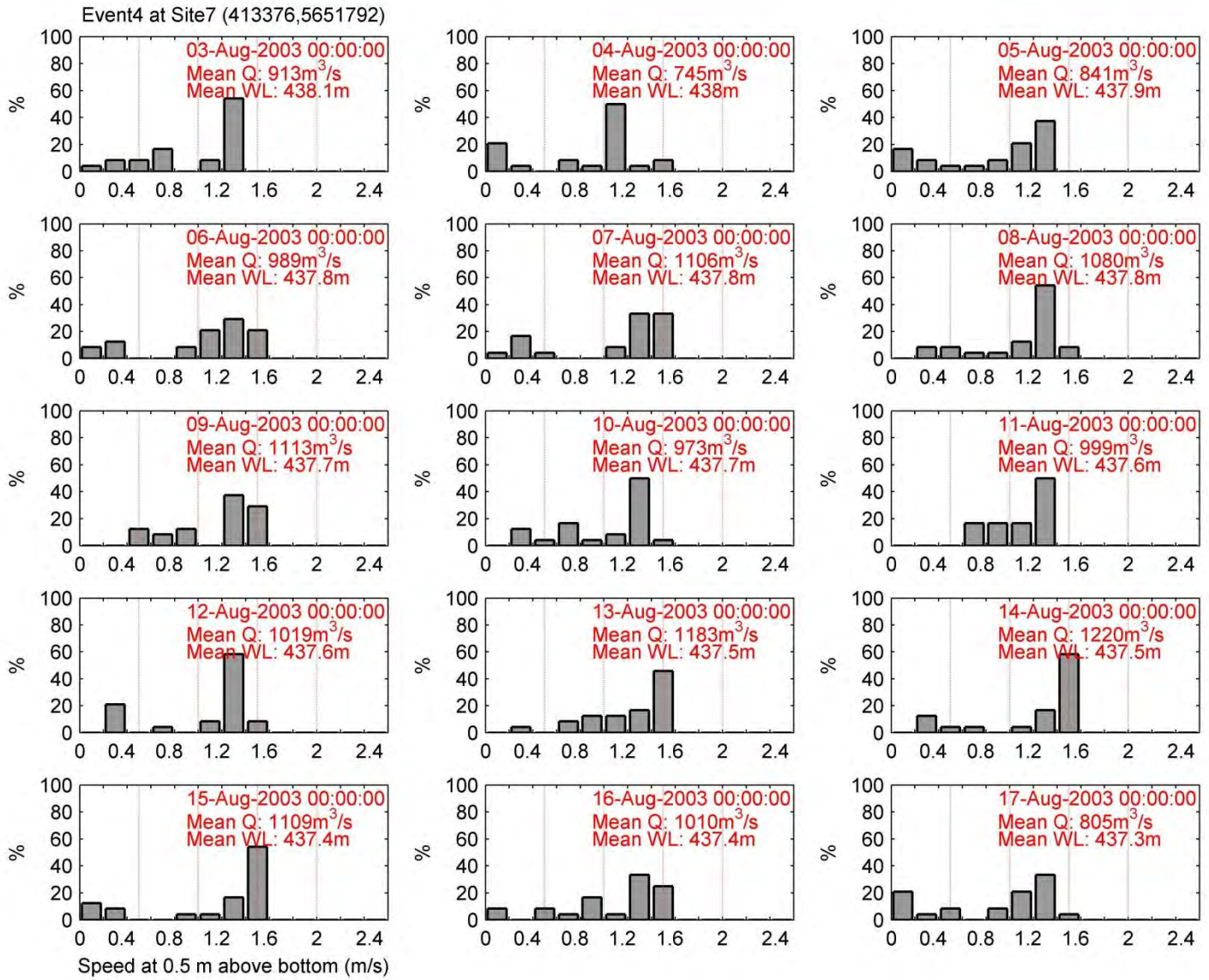

Event2 at Site3 (413406,5651784)
02-Aug-1999 06:00:00
Mean Q: 1099m3/s
Mean WL: 439.6m
03-Aug-1999 06:00:00
Mean Q: 1001m3/s
Mean WL: 439.5m
04-Aug-1999 06:00:00
Mean Q: 1321m3/s
Mean WL: 439.4m
05-Aug-1999 06:00:00
Mean Q: 1470m3/s
Mean WL: 439.4m
06-Aug-1999 06:00:00
Mean Q: 1329m3/s
Mean WL: 439.4m
07-Aug-1999 06:00:00
Mean Q: 1225m3/s
Mean WL: 439.3m
08-Aug-1999 06:00:00
Mean Q: 967m3/s
Mean WL: 439.3m
09-Aug-1999 06:00:00
Mean Q: 1585m3/s
Mean WL: 439.2m
10-Aug-1999 06:00:00
Mean Q: 1476m3/s
Mean WL: 439.1m
11-Aug-1999 06:00:00
Mean Q: 1472m3/s
Mean WL: 439m
12-Aug-1999 06:00:00
Mean Q: 1636m3/s
Mean WL: 439m
13-Aug-1999 06:00:00
Mean Q: 1504m3/s
Mean WL: 438.9m
14-Aug-1999 06:00:00
Mean Q: 1445m3/s
Mean WL: 438.9m
15-Aug-1999 06:00:00
Mean Q: 1232m3/s
Mean WL: 438.8m
16-Aug-1999 06:00:00
Mean Q: 1587m3/s
Mean WL: 438.8m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

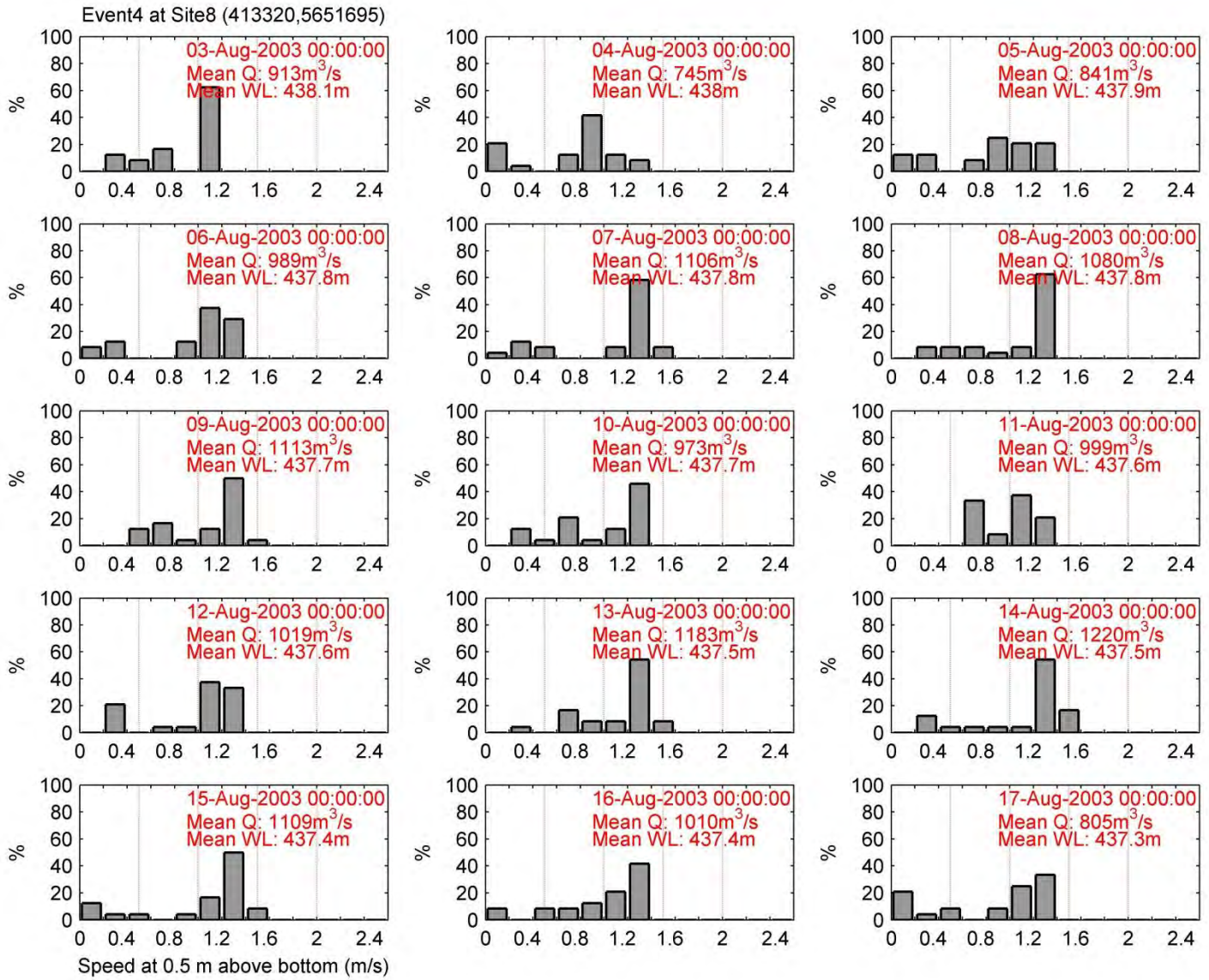

Event2 at Site5 (413258,5651646)
02-Aug-1999 06:00:00
Mean Q: 1099m3/s
Mean WL: 439.6m
03-Aug-1999 06:00:00
Mean Q: 1001m3/s
Mean WL: 439.5m
04-Aug-1999 06:00:00
Mean Q: 1321m3/s
Mean WL: 439.4m
05-Aug-1999 06:00:00
Mean Q: 1470m3/s
Mean WL: 439.4m
06-Aug-1999 06:00:00
Mean Q: 1329m3/s
Mean WL: 439.4m
07-Aug-1999 06:00:00
Mean Q: 1225m3/s
Mean WL: 439.3m
08-Aug-1999 06:00:00
Mean Q: 967m3/s
Mean WL: 439.3m
09-Aug-1999 06:00:00
Mean Q: 1585m3/s
Mean WL: 439.2m
10-Aug-1999 06:00:00
Mean Q: 1476m3/s
Mean WL: 439.1m
11-Aug-1999 06:00:00
Mean Q: 1472m3/s
Mean WL: 439m
12-Aug-1999 06:00:00
Mean Q: 1636m3/s
Mean WL: 439m
13-Aug-1999 06:00:00
Mean Q: 1504m3/s
Mean WL: 438.9m
14-Aug-1999 06:00:00
Mean Q: 1445m3/s
Mean WL: 438.9m
15-Aug-1999 06:00:00
Mean Q: 1232m3/s
Mean WL: 438.8m
16-Aug-1999 06:00:00
Mean Q: 1587m3/s
Mean WL: 438.8m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

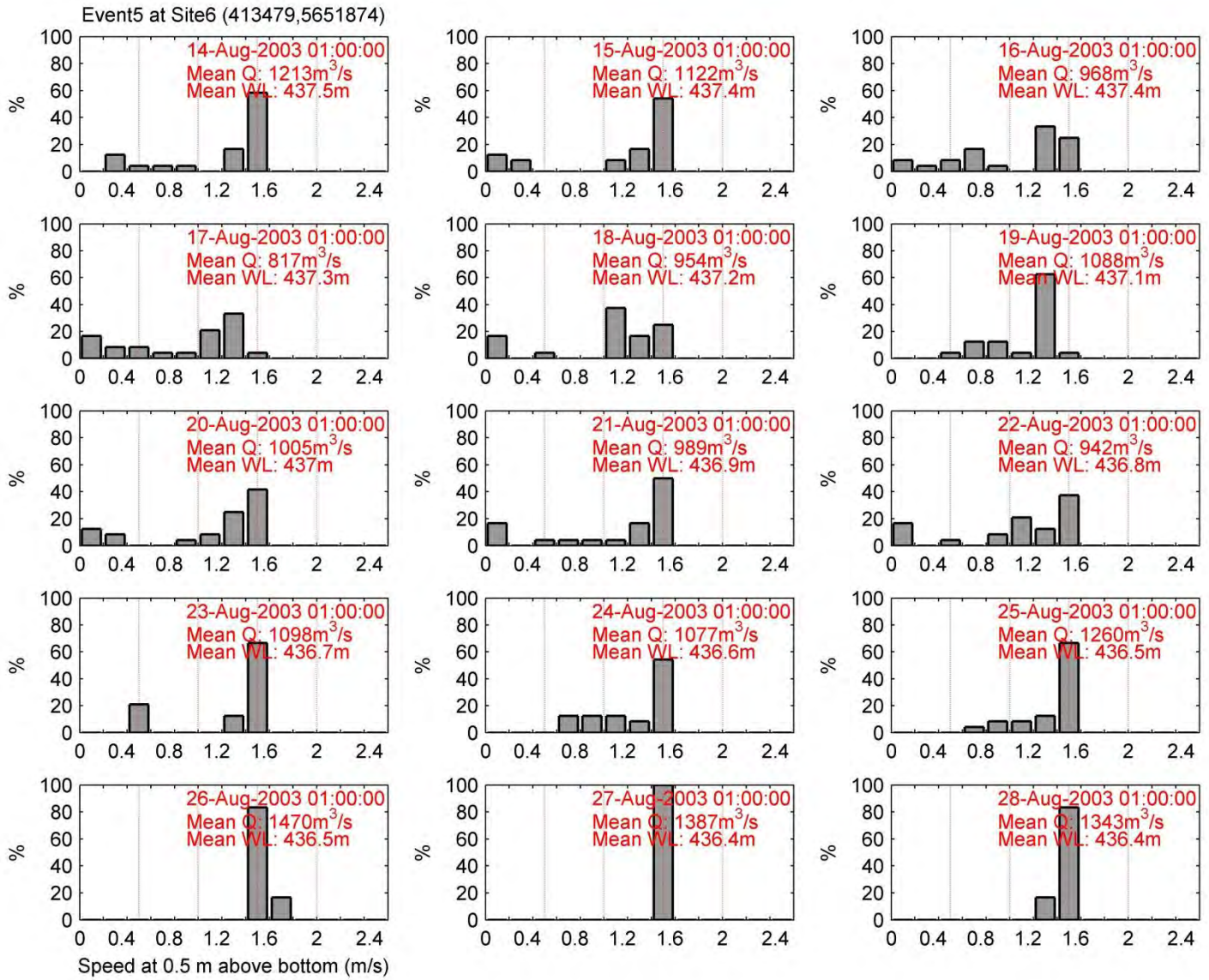

Event3 at Site1 (413787,5652074)
22-Aug-1999 09:00:00
Mean Q: 1537m3/s
Mean WL: 438.6m
23-Aug-1999 09:00:00
Mean Q: 1544m3/s
Mean WL: 438.6m
24-Aug-1999 09:00:00
Mean Q: 1562m3/s
Mean WL: 438.5m
25-Aug-1999 09:00:00
Mean Q: 1651m3/s
Mean WL: 438.5m
26-Aug-1999 09:00:00
Mean Q: 1655m3/s
Mean WL: 438.5m
27-Aug-1999 09:00:00
Mean Q: 1626m3/s
Mean WL: 438.4m
28-Aug-1999 09:00:00
Mean Q: 1592m3/s
Mean WL: 438.4m
29-Aug-1999 09:00:00
Mean Q: 1624m3/s
Mean WL: 438.3m
30-Aug-1999 09:00:00
Mean Q: 1640m3/s
Mean WL: 438.3m
31-Aug-1999 09:00:00
Mean Q: 1641m3/s
Mean WL: 438.2m
01-Sep-1999 09:00:00
Mean Q: 1641m3/s
Mean WL: 438.2m
02-Sep-1999 09:00:00
Mean Q: 1551m3/s
Mean WL: 438.1m
03-Sep-1999 09:00:00
Mean Q: 1569m3/s
Mean WL: 438.2m
04-Sep-1999 09:00:00
Mean Q: 1313m3/s
Mean WL: 438.2m
05-Sep-1999 09:00:00
Mean Q: 1331m3/s
Mean WL: 438.2m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

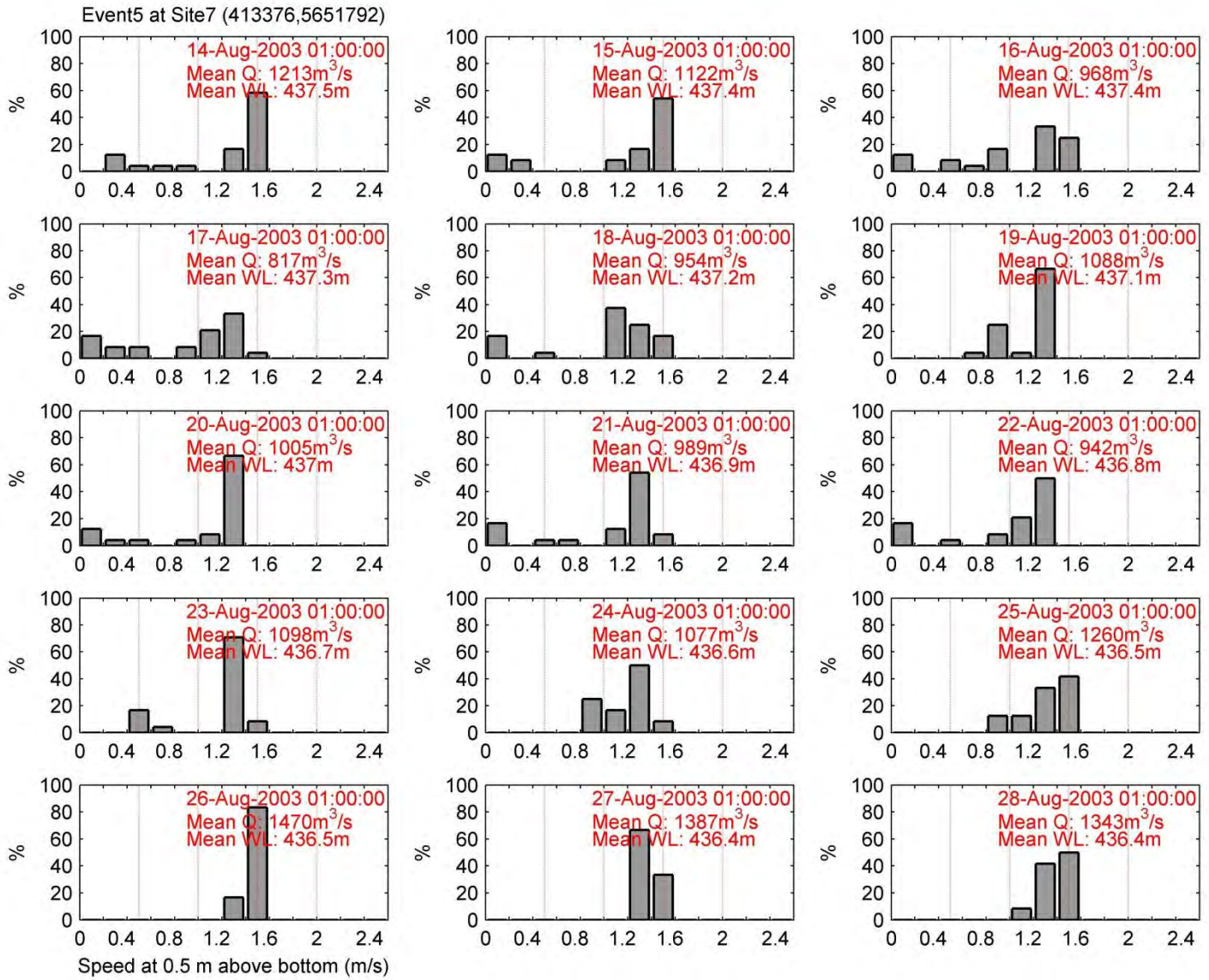

Event3 at Site3 (413406,5651784)
22-Aug-1999 09:00:00
Mean Q: 1537m3/s
Mean WL: 438.6m
23-Aug-1999 09:00:00
Mean Q: 1544m3/s
Mean WL: 438.6m
24-Aug-1999 09:00:00
Mean Q: 1562m3/s
Mean WL: 438.5m
25-Aug-1999 09:00:00
Mean Q: 1651m3/s
Mean WL: 438.5m
26-Aug-1999 09:00:00
Mean Q: 1655m3/s
Mean WL: 438.5m
27-Aug-1999 09:00:00
Mean Q: 1626m3/s
Mean WL: 438.4m
28-Aug-1999 09:00:00
Mean Q: 1592m3/s
Mean WL: 438.4m
29-Aug-1999 09:00:00
Mean Q: 1624m3/s
Mean WL: 438.3m
30-Aug-1999 09:00:00
Mean Q: 1640m3/s
Mean WL: 438.3m
31-Aug-1999 09:00:00
Mean Q: 1641m3/s
Mean WL: 438.2m
01-Sep-1999 09:00:00
Mean Q: 1641m3/s
Mean WL: 438.2m
02-Sep-1999 09:00:00
Mean Q: 1551m3/s
Mean WL: 438.1m
03-Sep-1999 09:00:00
Mean Q: 1569m3/s
Mean WL: 438.2m
04-Sep-1999 09:00:00
Mean Q: 1313m3/s
Mean WL: 438.2m
05-Sep-1999 09:00:00
Mean Q: 1331m3/s
Mean WL: 438.2m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

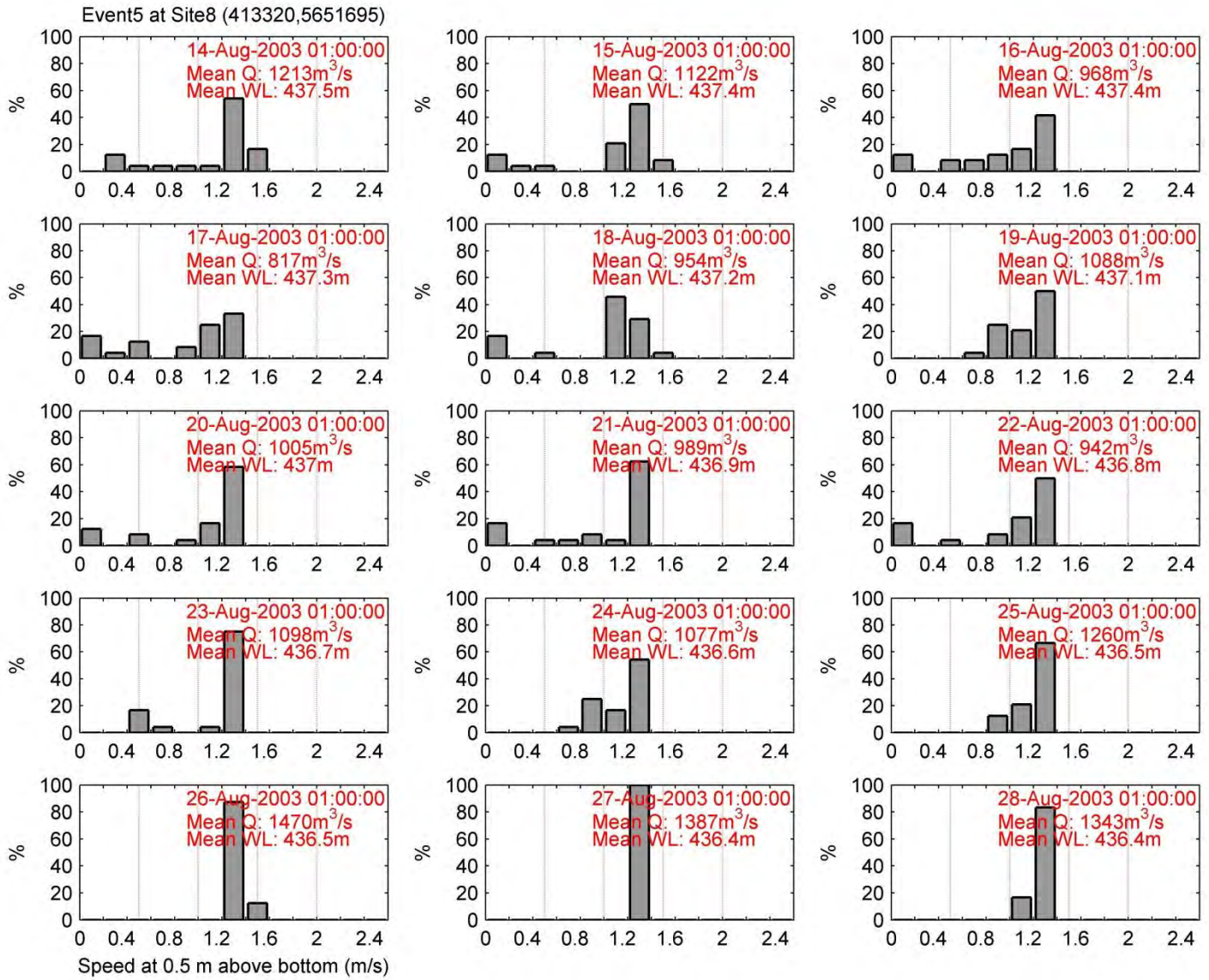

Event3 at Site5 (413258,5651646)
22-Aug-1999 09:00:00
Mean Q: 1537m3/s
Mean WL: 438.6m
23-Aug-1999 09:00:00
Mean Q: 1544m3/s
Mean WL: 438.6m
24-Aug-1999 09:00:00
Mean Q: 1562m3/s
Mean WL: 438.5m
25-Aug-1999 09:00:00
Mean Q: 1651m3/s
Mean WL: 438.5m
26-Aug-1999 09:00:00
Mean Q: 1655m3/s
Mean WL: 438.5m
27-Aug-1999 09:00:00
Mean Q: 1626m3/s
Mean WL: 438.4m
28-Aug-1999 09:00:00
Mean Q: 1592m3/s
Mean WL: 438.4m
29-Aug-1999 09:00:00
Mean Q: 1624m3/s
Mean WL: 438.3m
30-Aug-1999 09:00:00
Mean Q: 1640m3/s
Mean WL: 438.3m
31-Aug-1999 09:00:00
Mean Q: 1641m3/s
Mean WL: 438.2m
01-Sep-1999 09:00:00
Mean Q: 1641m3/s
Mean WL: 438.2m
02-Sep-1999 09:00:00
Mean Q: 1551m3/s
Mean WL: 438.1m
03-Sep-1999 09:00:00
Mean Q: 1569m3/s
Mean WL: 438.2m
04-Sep-1999 09:00:00
Mean Q: 1313m3/s
Mean WL: 438.2m
05-Sep-1999 09:00:00
Mean Q: 1331m3/s
Mean WL: 438.2m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

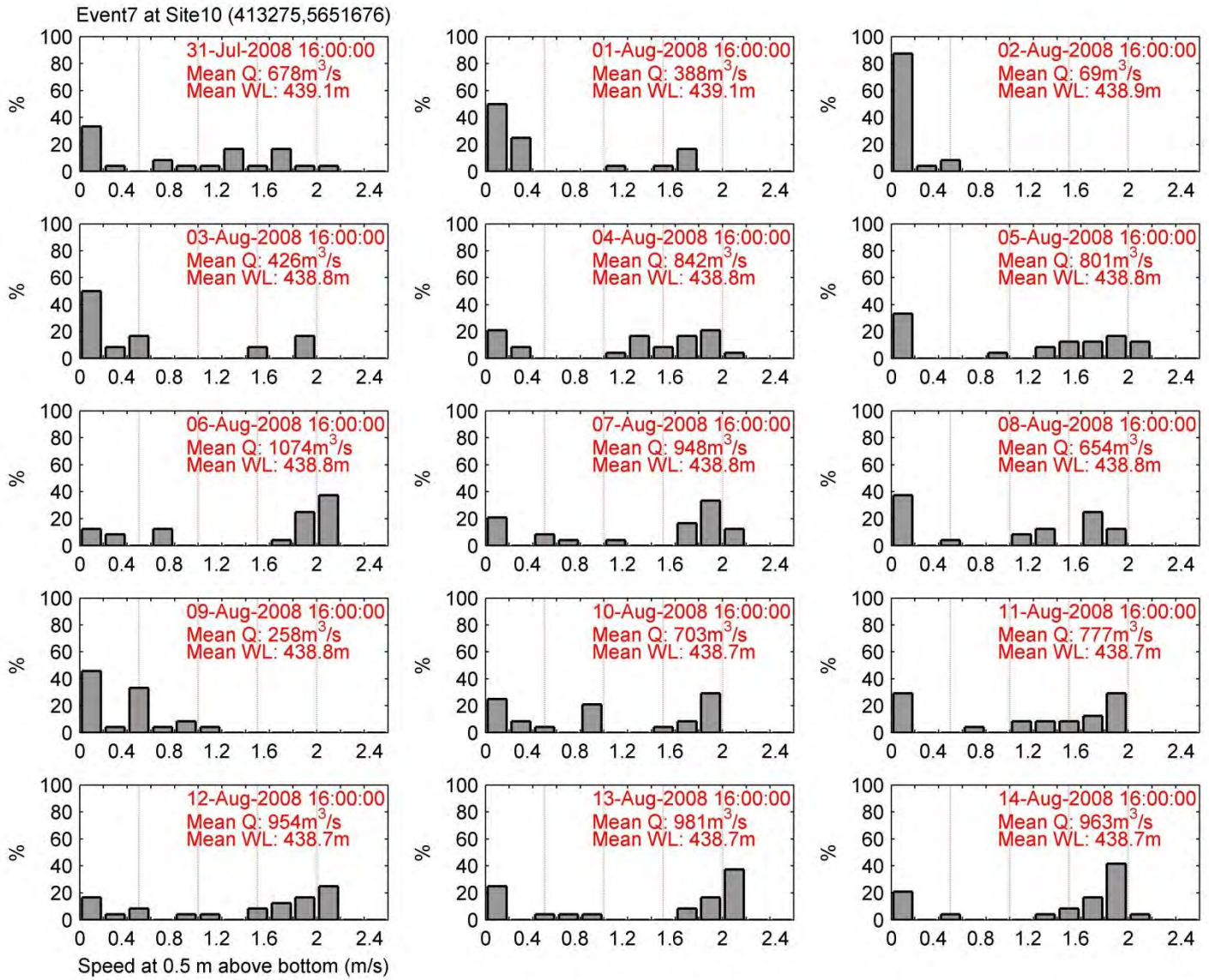

Event4 at Site7 (413376,5651792)
03-Aug-2003 00:00:00
Mean Q: 913m3/s
Mean WL: 438.1m
04-Aug-2003 00:00:00
Mean Q: 745m3/s
Mean WL: 438m
05-Aug-2003 00:00:00
Mean Q: 841m3/s
Mean WL: 437.9m
06-Aug-2003 00:00:00
Mean Q: 989m3/s
Mean WL: 437.8m
07-Aug-2003 00:00:00
Mean Q: 1106m3/s
Mean WL: 437.8m
08-Aug-2003 00:00:00
Mean Q: 1080m3/s
Mean WL: 437.8m
09-Aug-2003 00:00:00
Mean Q: 1113m3/s
Mean WL: 437.7m
10-Aug-2003 00:00:00
Mean Q: 973m3/s
Mean WL: 437.7m
11-Aug-2003 00:00:00
Mean Q: 999m3/s
Mean WL: 437.6m
12-Aug-2003 00:00:00
Mean Q: 1019m3/s
Mean WL: 437.6m
13-Aug-2003 00:00:00
Mean Q: 1183m3/s
Mean WL: 437.5m
14-Aug-2003 00:00:00
Mean Q: 1220m3/s
Mean WL: 437.5m
15-Aug-2003 00:00:00
Mean Q: 1109m3/s
Mean WL: 437.4m
16-Aug-2003 00:00:00
Mean Q: 1010m3/s
Mean WL: 437.4m
17-Aug-2003 00:00:00
Mean Q: 805m3/s
Mean WL: 437.3m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

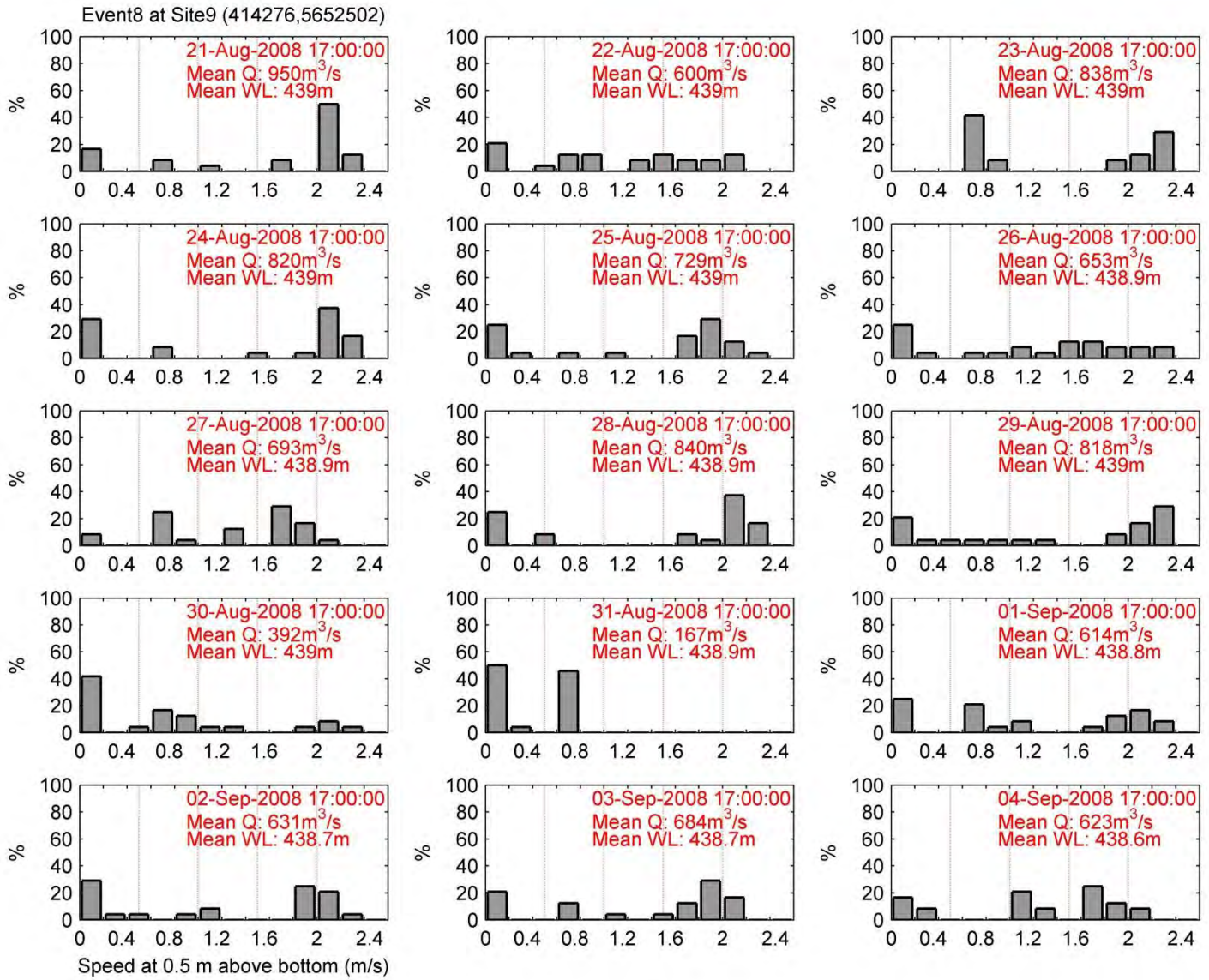

Event4 at Site8 (413320,5651695)
03-Aug-2003 00:00:00
Mean Q: 913m3/s
Mean WL: 438.1m
04-Aug-2003 00:00:00
Mean Q: 745m3/s
Mean WL: 438m
05-Aug-2003 00:00:00
Mean Q: 841m3/s
Mean WL: 437.9m
06-Aug-2003 00:00:00
Mean Q: 989m3/s
Mean WL: 437.8m
07-Aug-2003 00:00:00
Mean Q: 1106m3/s
Mean WL: 437.8m
08-Aug-2003 00:00:00
Mean Q: 1080m3/s
Mean WL: 437.8m
09-Aug-2003 00:00:00
Mean Q: 1113m3/s
Mean WL: 437.7m
10-Aug-2003 00:00:00
Mean Q: 973m3/s
Mean WL: 437.7m
11-Aug-2003 00:00:00
Mean Q: 999m3/s
Mean WL: 437.6m
12-Aug-2003 00:00:00
Mean Q: 1019m3/s
Mean WL: 437.6m
13-Aug-2003 00:00:00
Mean Q: 1183m3/s
Mean WL: 437.5m
14-Aug-2003 00:00:00
Mean Q: 1220m3/s
Mean WL: 437.5m
15-Aug-2003 00:00:00
Mean Q: 1109m3/s
Mean WL: 437.4m
16-Aug-2003 00:00:00
Mean Q: 1010m3/s
Mean WL: 437.4m
17-Aug-2003 00:00:00
Mean Q: 805m3/s
Mean WL: 437.3m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

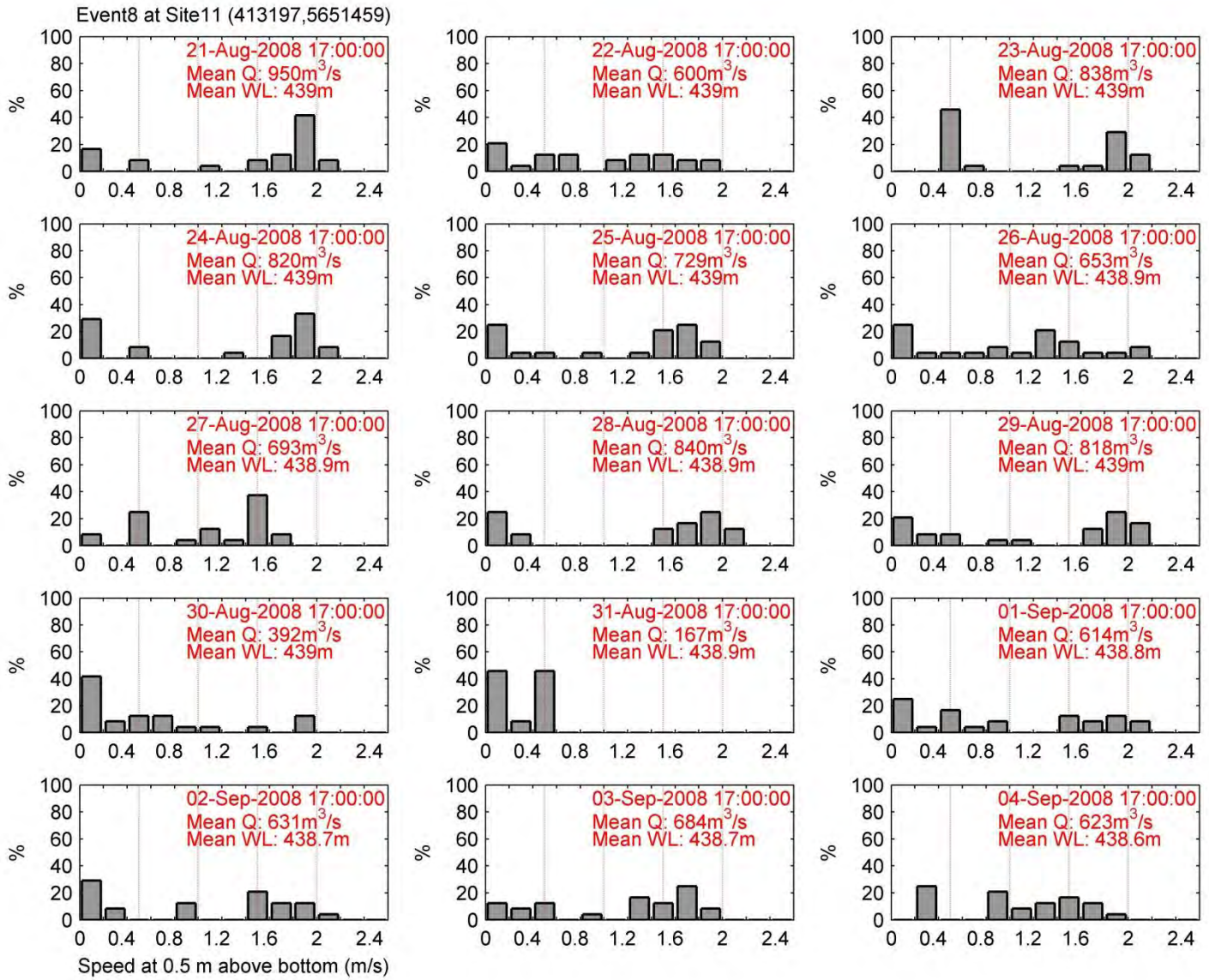

Event5 at Site6 (413479,5651874)
14-Aug-2003 01:00:00
Mean Q: 1213m3/s
Mean WL: 437.5m
15-Aug-2003 01:00:00
Mean Q: 1122m3/s
Mean WL: 437.4m
16-Aug-2003 01:00:00
Mean Q: 968m3/s
Mean WL: 437.4m
17-Aug-2003 01:00:00
Mean Q: 817m3/s
Mean WL: 437.3m
18-Aug-2003 01:00:00
Mean Q: 954m3/s
Mean WL: 437.2m
19-Aug-2003 01:00:00
Mean Q: 1088m3/s
Mean WL: 437.1m
20-Aug-2003 01:00:00
Mean Q: 1005m3/s
Mean WL: 437m
21-Aug-2003 01:00:00
Mean Q: 989m3/s
Mean WL: 436.9m
22-Aug-2003 01:00:00
Mean Q: 942m3/s
Mean WL: 436.8m
23-Aug-2003 01:00:00
Mean Q: 1098m3/s
Mean WL: 436.7m
24-Aug-2003 01:00:00
Mean Q: 1077m3/s
Mean WL: 436.6m
25-Aug-2003 01:00:00
Mean Q: 1260m3/s
Mean WL: 436.5m
26-Aug-2003 01:00:00
Mean Q: 1470m3/s
Mean WL: 436.5m
27-Aug-2003 01:00:00
Mean Q: 1387m3/s
Mean WL: 436.4m
28-Aug-2003 01:00:00
Mean Q: 1343m3/s
Mean WL: 436.4m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

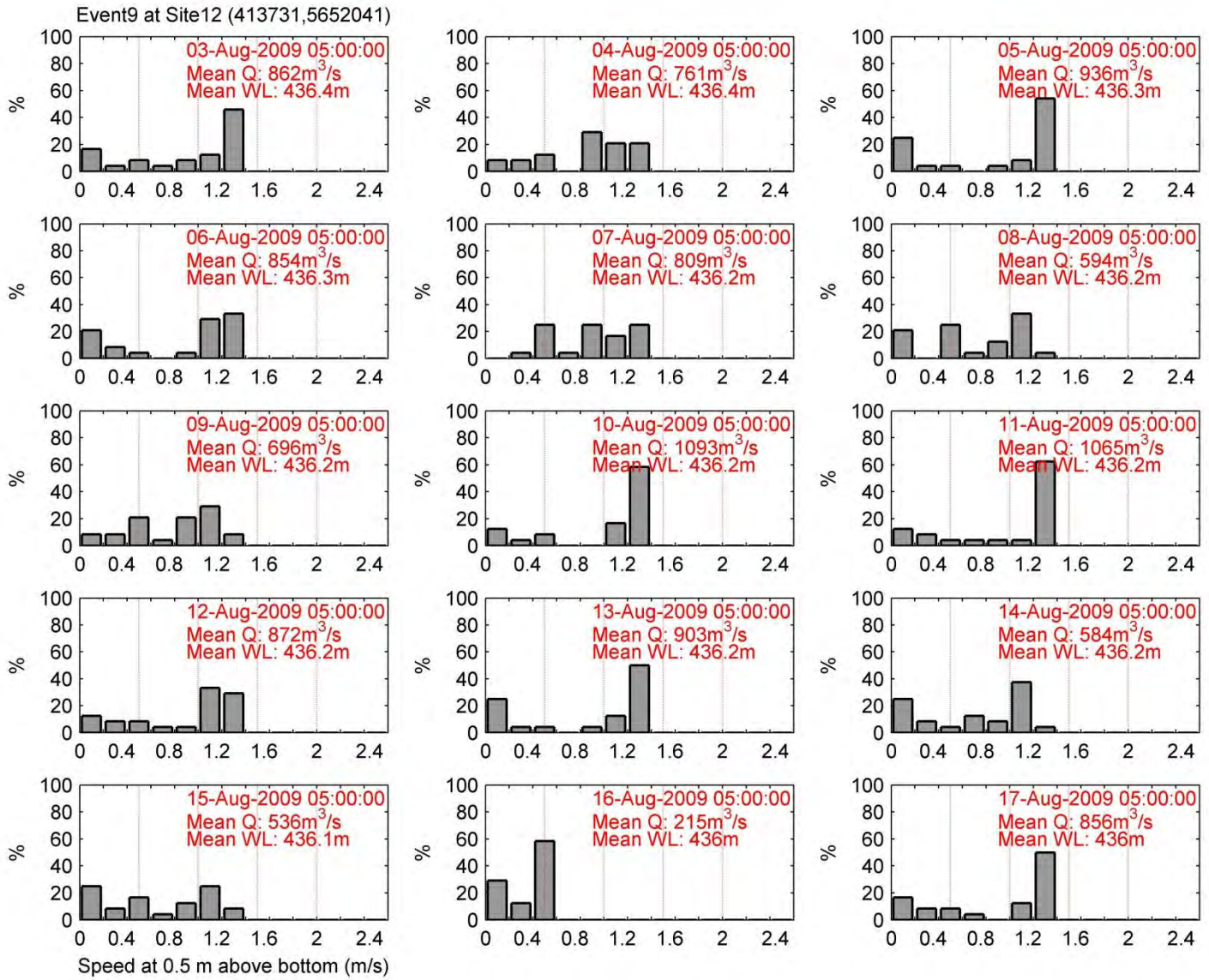

Event5 at Site7 (413376,5651792)
14-Aug-2003 01:00:00
Mean Q: 1213m3/s
Mean WL: 437.5m
15-Aug-2003 01:00:00
Mean Q: 1122m3/s
Mean WL: 437.4m
16-Aug-2003 01:00:00
Mean Q: 968m3/s
Mean WL: 437.4m
17-Aug-2003 01:00:00
Mean Q: 817m3/s
Mean WL: 437.3m
18-Aug-2003 01:00:00
Mean Q: 954m3/s
Mean WL: 437.2m
19-Aug-2003 01:00:00
Mean Q: 1088m3/s
Mean WL: 437.1m
20-Aug-2003 01:00:00
Mean Q: 1005m3/s
Mean WL: 437m
21-Aug-2003 01:00:00
Mean Q: 989m3/s
Mean WL: 436.9m
22-Aug-2003 01:00:00
Mean Q: 942m3/s
Mean WL: 436.8m
23-Aug-2003 01:00:00
Mean Q: 1098m3/s
Mean WL: 436.7m
24-Aug-2003 01:00:00
Mean Q: 1077m3/s
Mean WL: 436.6m
25-Aug-2003 01:00:00
Mean Q: 1260m3/s
Mean WL: 436.5m
26-Aug-2003 01:00:00
Mean Q: 1470m3/s
Mean WL: 436.5m
27-Aug-2003 01:00:00
Mean Q: 1387m3/s
Mean WL: 436.4m
28-Aug-2003 01:00:00
Mean Q: 1343m3/s
Mean WL: 436.4m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

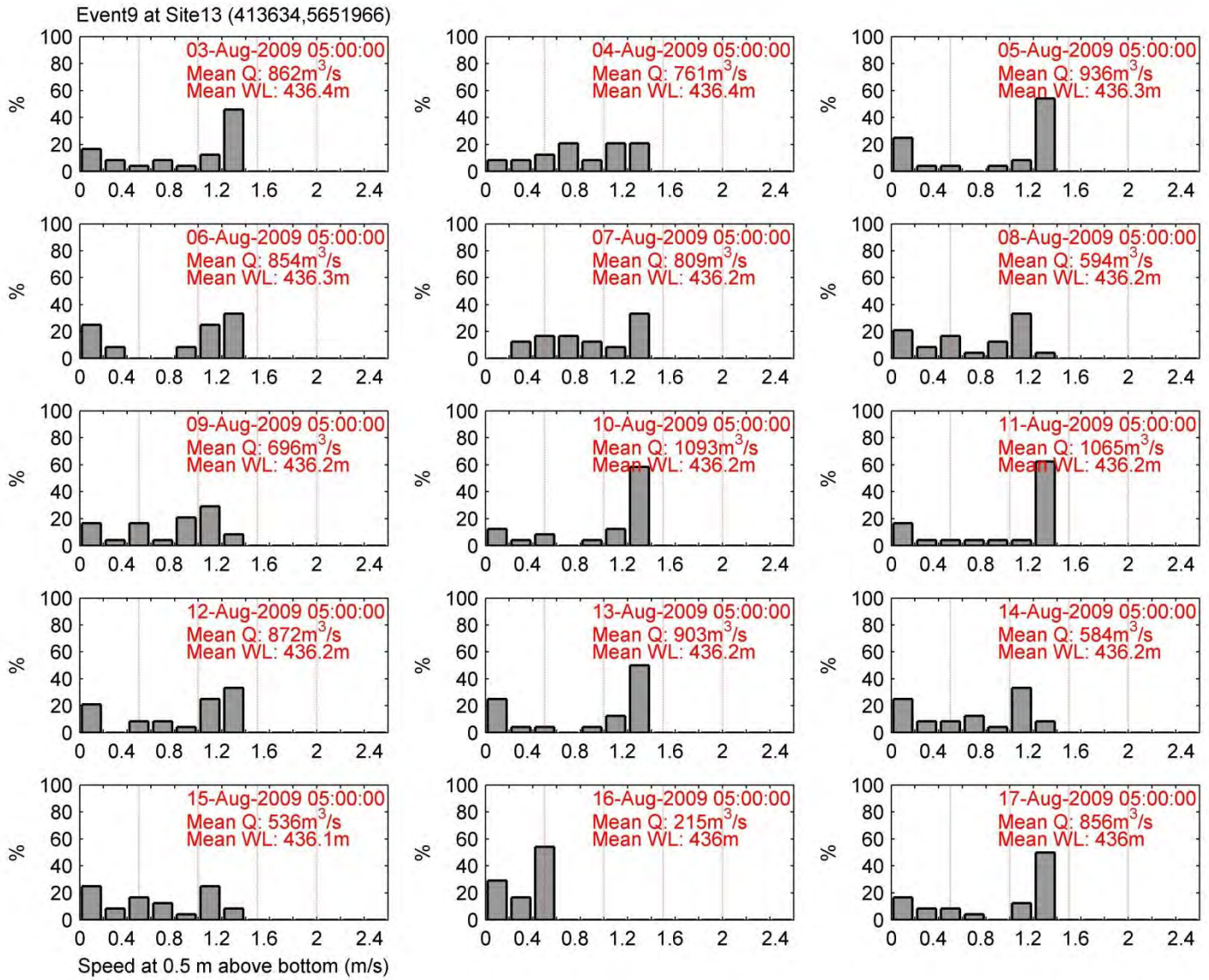

Event5 at Site8 (413320,5651695)
14-Aug-2003 01:00:00
Mean Q: 1213m3/s
Mean WL: 437.5m
15-Aug-2003 01:00:00
Mean Q: 1122m3/s
Mean WL: 437.4m
16-Aug-2003 01:00:00
Mean Q: 968m3/s
Mean WL: 437.4m
17-Aug-2003 01:00:00
Mean Q: 817m3/s
Mean WL: 437.3m
18-Aug-2003 01:00:00
Mean Q: 954m3/s
Mean WL: 437.2m
19-Aug-2003 01:00:00
Mean Q: 1088m3/s
Mean WL: 437.1m
20-Aug-2003 01:00:00
Mean Q: 1005m3/s
Mean WL: 437m
21-Aug-2003 01:00:00
Mean Q: 989m3/s
Mean WL: 436.9m
22-Aug-2003 01:00:00
Mean Q: 942m3/s
Mean WL: 436.8m
23-Aug-2003 01:00:00
Mean Q: 1098m3/s
Mean WL: 436.7m
24-Aug-2003 01:00:00
Mean Q: 1077m3/s
Mean WL: 436.6m
25-Aug-2003 01:00:00
Mean Q: 1260m3/s
Mean WL: 436.5m
26-Aug-2003 01:00:00
Mean Q: 1470m3/s
Mean WL: 436.5m
27-Aug-2003 01:00:00
Mean Q: 1387m3/s
Mean WL: 436.4m
28-Aug-2003 01:00:00
Mean Q: 1343m3/s
Mean WL: 436.4m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

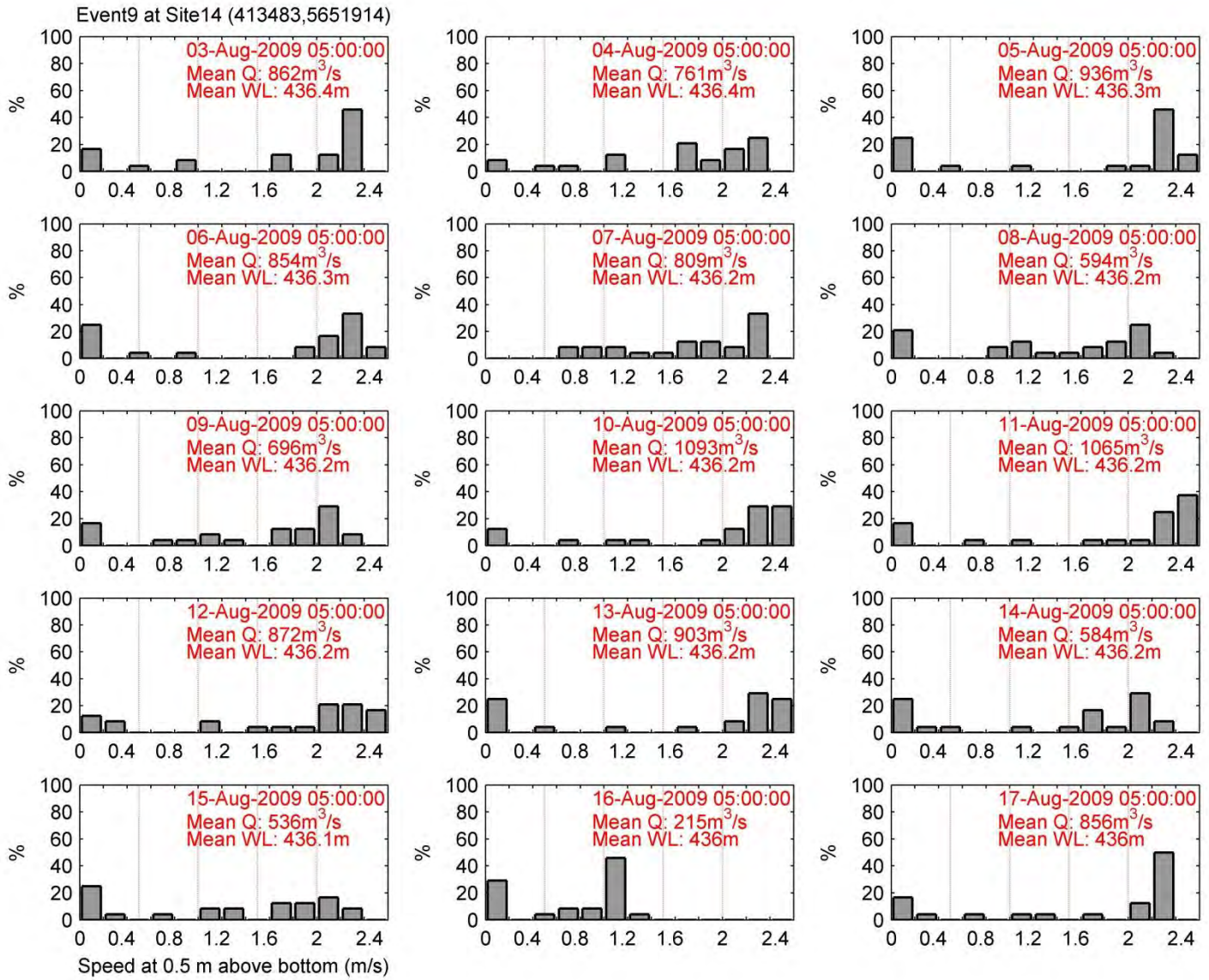

Event7 at Site10 (413275,5651676)
31-Jul-2008 16:00:00
Mean Q: 678m3/s
Mean WL: 439.1m
01-Aug-2008 16:00:00
Mean Q: 388m3/s
Mean WL: 439.1m
02-Aug-2008 16:00:00
Mean Q: 69m3/s
Mean WL: 438.9m
03-Aug-2008 16:00:00
Mean Q: 426m3/s
Mean WL: 438.8m
04-Aug-2008 16:00:00
Mean Q: 842m3/s
Mean WL: 438.8m
05-Aug-2008 16:00:00
Mean Q: 801m3/s
Mean WL: 438.8m
06-Aug-2008 16:00:00
Mean Q: 1074m3/s
Mean WL: 438.8m
07-Aug-2008 16:00:00
Mean Q: 948m3/s
Mean WL: 438.8m
08-Aug-2008 16:00:00
Mean Q: 654m3/s
Mean WL: 438.8m
09-Aug-2008 16:00:00
Mean Q: 258m3/s
Mean WL: 438.8m
10-Aug-2008 16:00:00
Mean Q: 703m3/s
Mean WL: 438.7m
11-Aug-2008 16:00:00
Mean Q: 777m3/s
Mean WL: 438.7m
12-Aug-2008 16:00:00
Mean Q: 954m3/s
Mean WL: 438.7m
13-Aug-2008 16:00:00
Mean Q: 981m3/s
Mean WL: 438.7m
14-Aug-2008 16:00:00
Mean Q: 963m3/s
Mean WL: 438.7m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

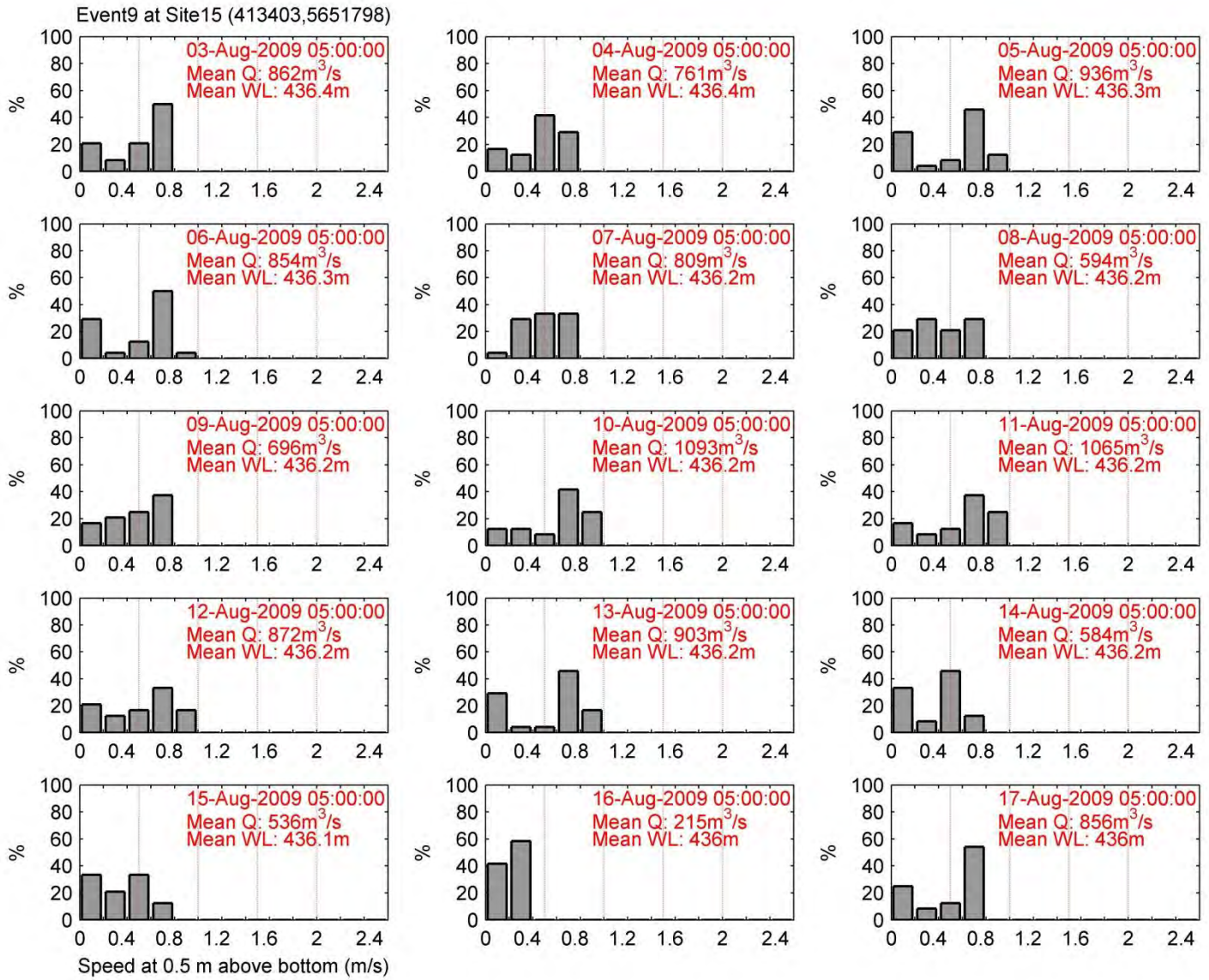

Event8 at Site9 (414276,5652502)
21-Aug-2008 17:00:00
Mean Q: 950m3/s
Mean WL: 439m
22-Aug-2008 17:00:00
Mean Q: 600m3/s
Mean WL: 439m
23-Aug-2008 17:00:00
Mean Q: 838m3/s
Mean WL: 439m
24-Aug-2008 17:00:00
Mean Q: 820m3/s
Mean WL: 439m
25-Aug-2008 17:00:00
Mean Q: 729m3/s
Mean WL: 439m
26-Aug-2008 17:00:00
Mean Q: 653m3/s
Mean WL: 438.9m
27-Aug-2008 17:00:00
Mean Q: 693m3/s
Mean WL: 438.9m
28-Aug-2008 17:00:00
Mean Q: 840m3/s
Mean WL: 438.9m
29-Aug-2008 17:00:00
Mean Q: 818m3/s
Mean WL: 439m
30-Aug-2008 17:00:00
Mean Q: 392m3/s
Mean WL: 439m
31-Aug-2008 17:00:00
Mean Q: 167m3/s
Mean WL: 438.9m
01-Sep-2008 17:00:00
Mean Q: 614m3/s
Mean WL: 438.8m
02-Sep-2008 17:00:00
Mean Q: 631m3/s
Mean WL: 438.7m
03-Sep-2008 17:00:00
Mean Q: 684m3/s
Mean WL: 438.7m
04-Sep-2008 17:00:00
Mean Q: 623m3/s
Mean WL: 438.6m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

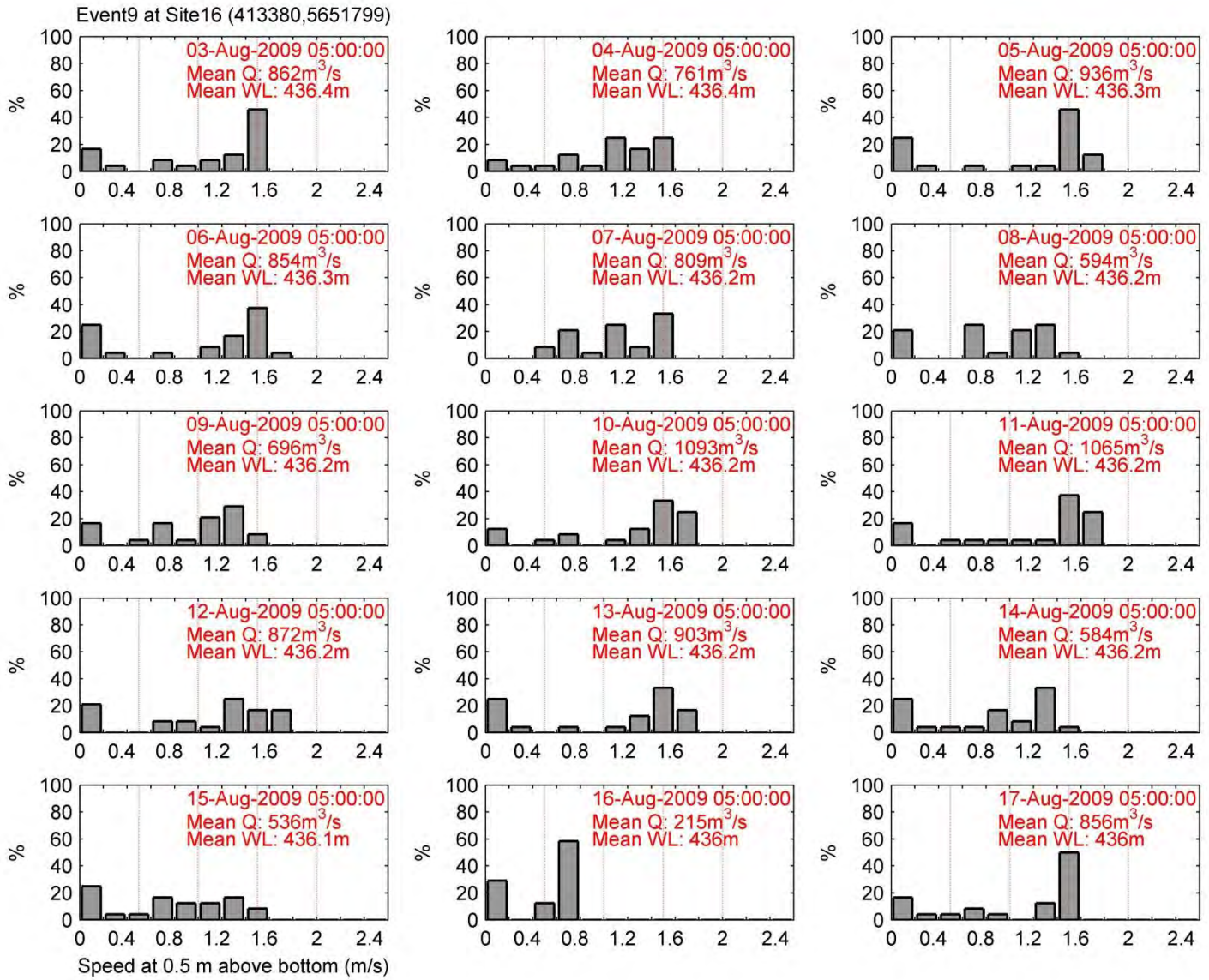

Event8 at Site11 (413197,5651459)
21-Aug-2008 17:00:00
Mean Q: 950m3/s
Mean WL: 439m
22-Aug-2008 17:00:00
Mean Q: 600m3/s
Mean WL: 439m
23-Aug-2008 17:00:00
Mean Q: 838m3/s
Mean WL: 439m
24-Aug-2008 17:00:00
Mean Q: 820m3/s
Mean WL: 439m
25-Aug-2008 17:00:00
Mean Q: 729m3/s
Mean WL: 439m
26-Aug-2008 17:00:00
Mean Q: 653m3/s
Mean WL: 438.9m
27-Aug-2008 17:00:00
Mean Q: 693m3/s
Mean WL: 438.9m
28-Aug-2008 17:00:00
Mean Q: 840m3/s
Mean WL: 438.9m
29-Aug-2008 17:00:00
Mean Q: 818m3/s
Mean WL: 439m
30-Aug-2008 17:00:00
Mean Q: 392m3/s
Mean WL: 439m
31-Aug-2008 17:00:00
Mean Q: 167m3/s
Mean WL: 438.9m
01-Sep-2008 17:00:00
Mean Q: 614m3/s
Mean WL: 438.8m
02-Sep-2008 17:00:00
Mean Q: 631m3/s
Mean WL: 438.7m
03-Sep-2008 17:00:00
Mean Q: 684m3/s
Mean WL: 438.7m
04-Sep-2008 17:00:00
Mean Q: 623m3/s
Mean WL: 438.6m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

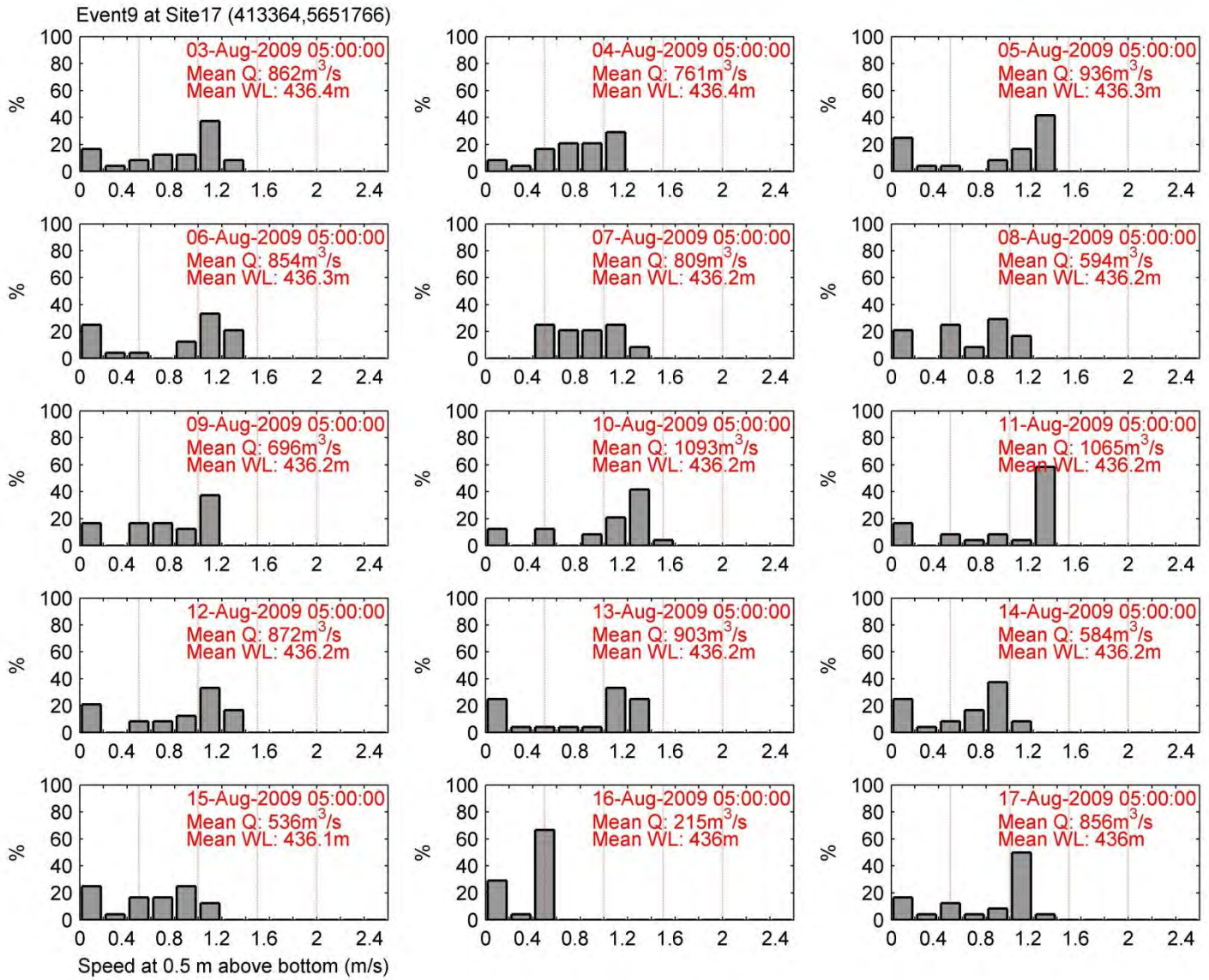

Event9 at Site12 (413731,5652041)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

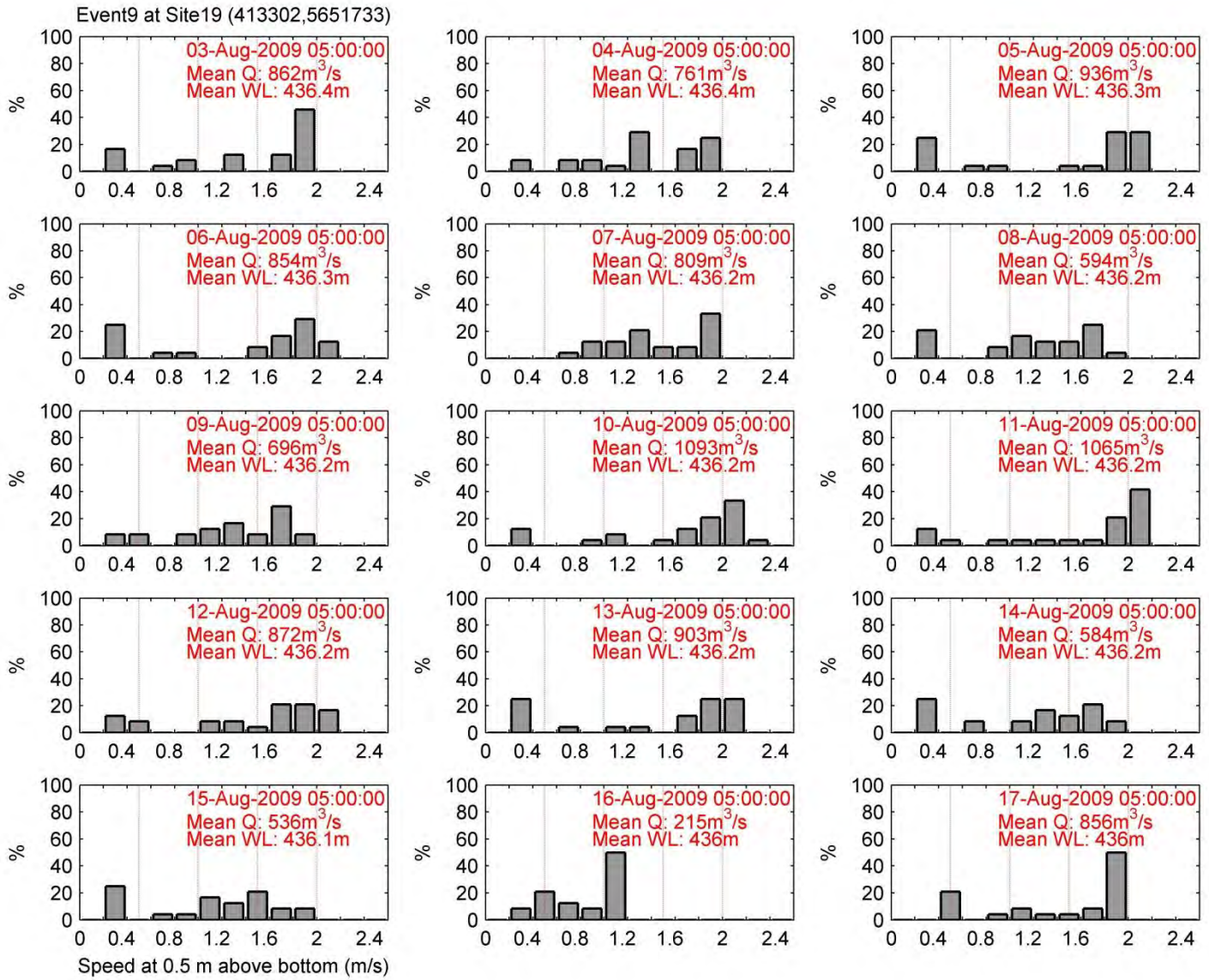

Event9 at Site13 (413634,5651966)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

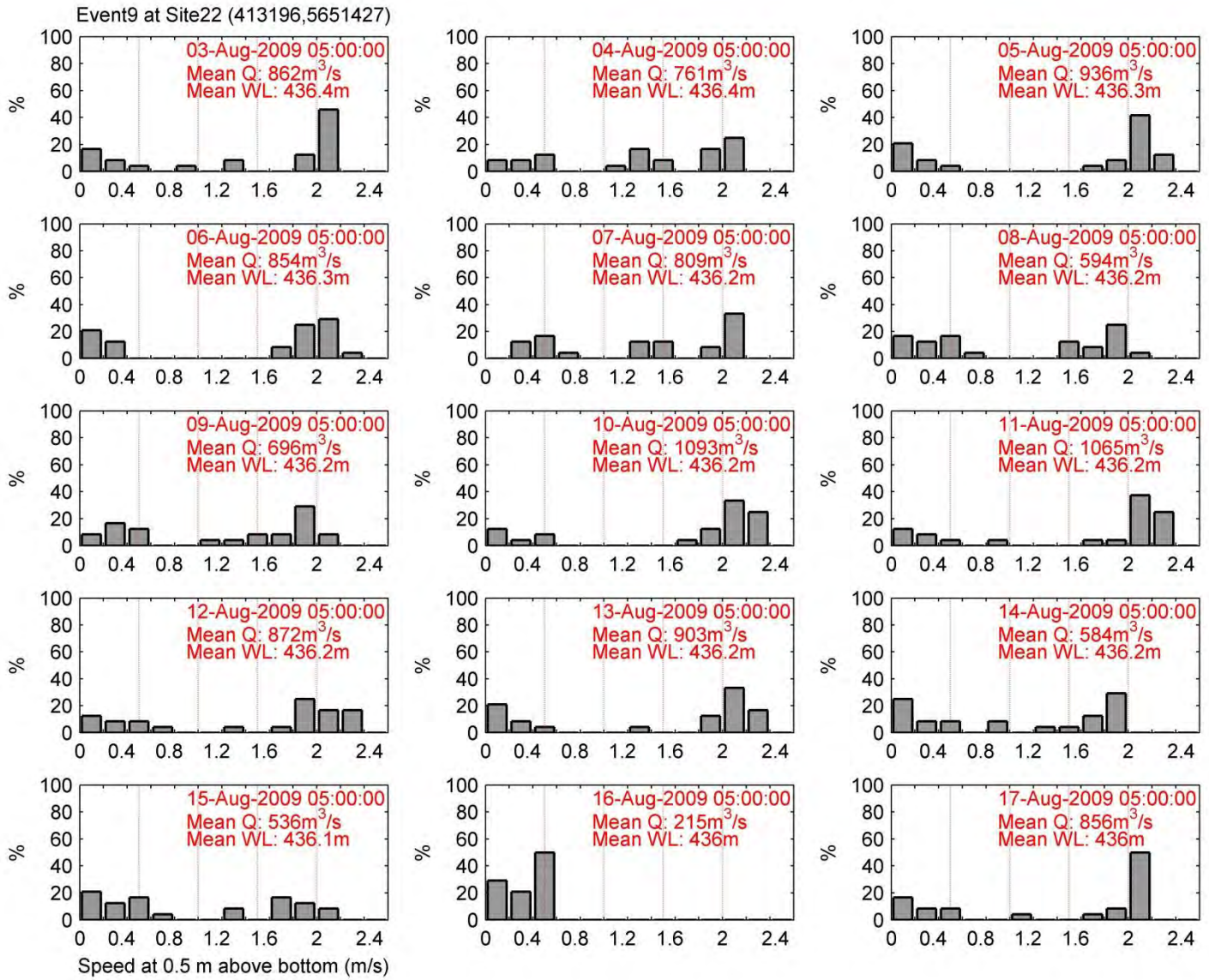

Event9 at Site14 (413483,5651914)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

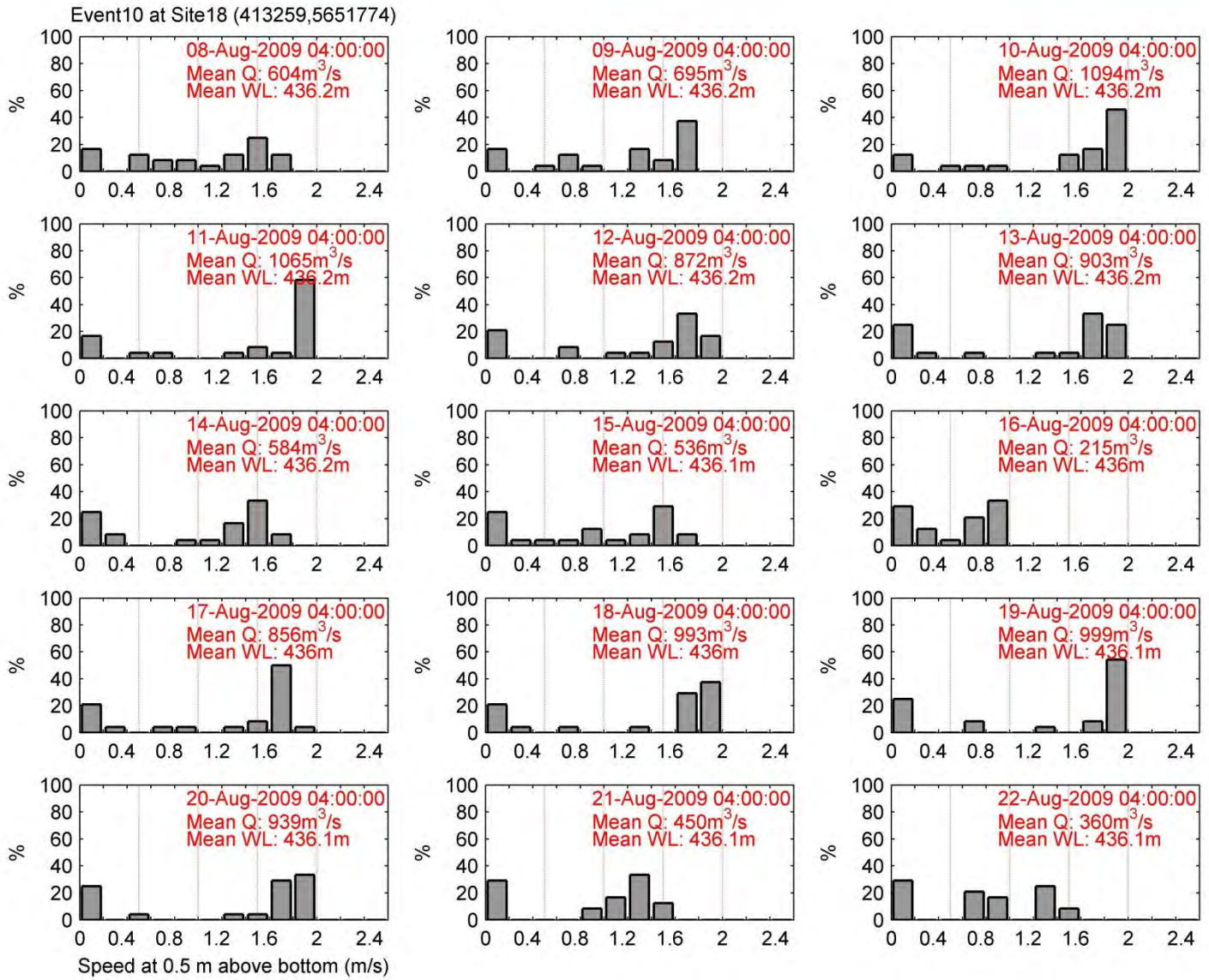

Event9 at Site15 (413403,5651798)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

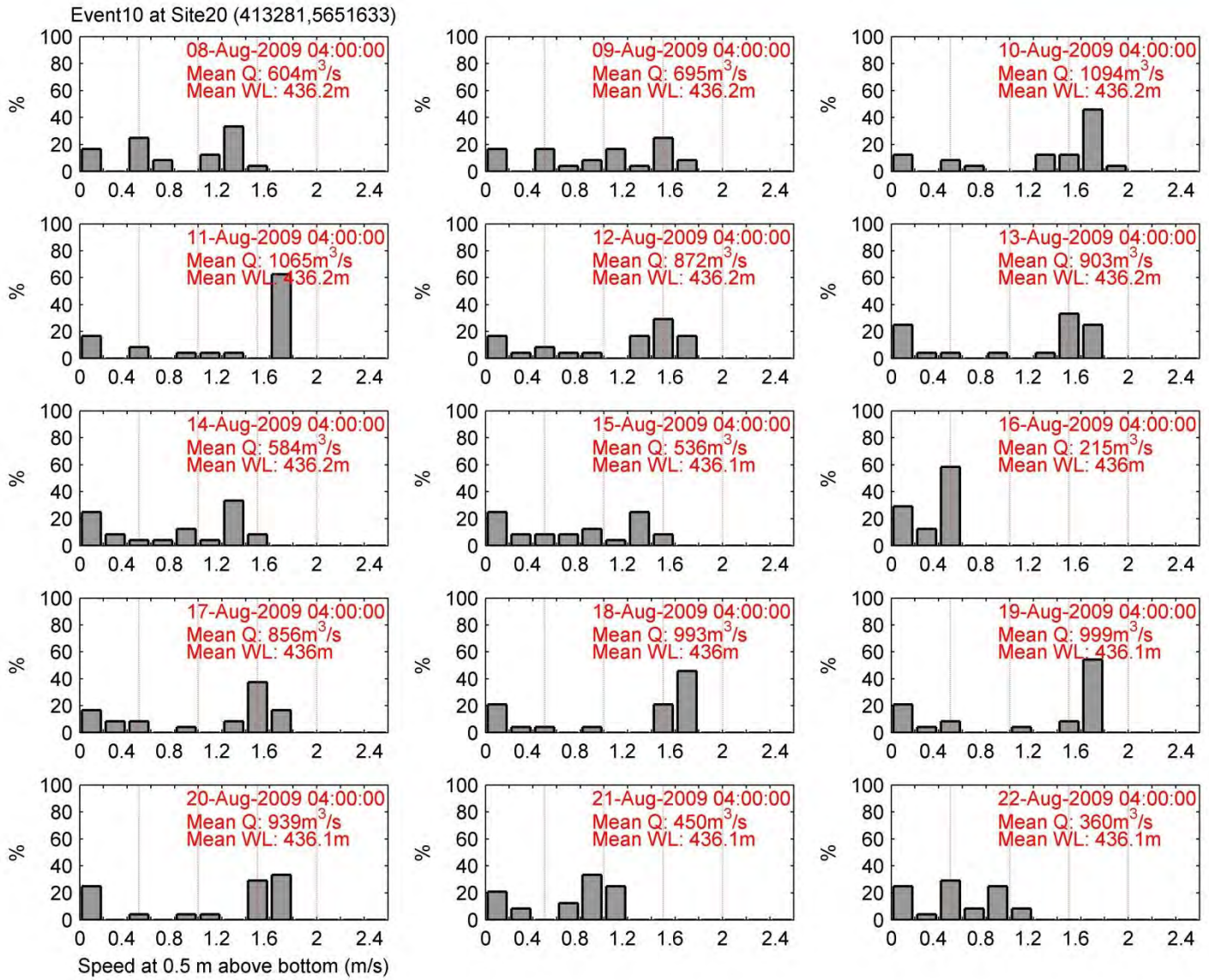

Event9 at Site16 (413380,5651799)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

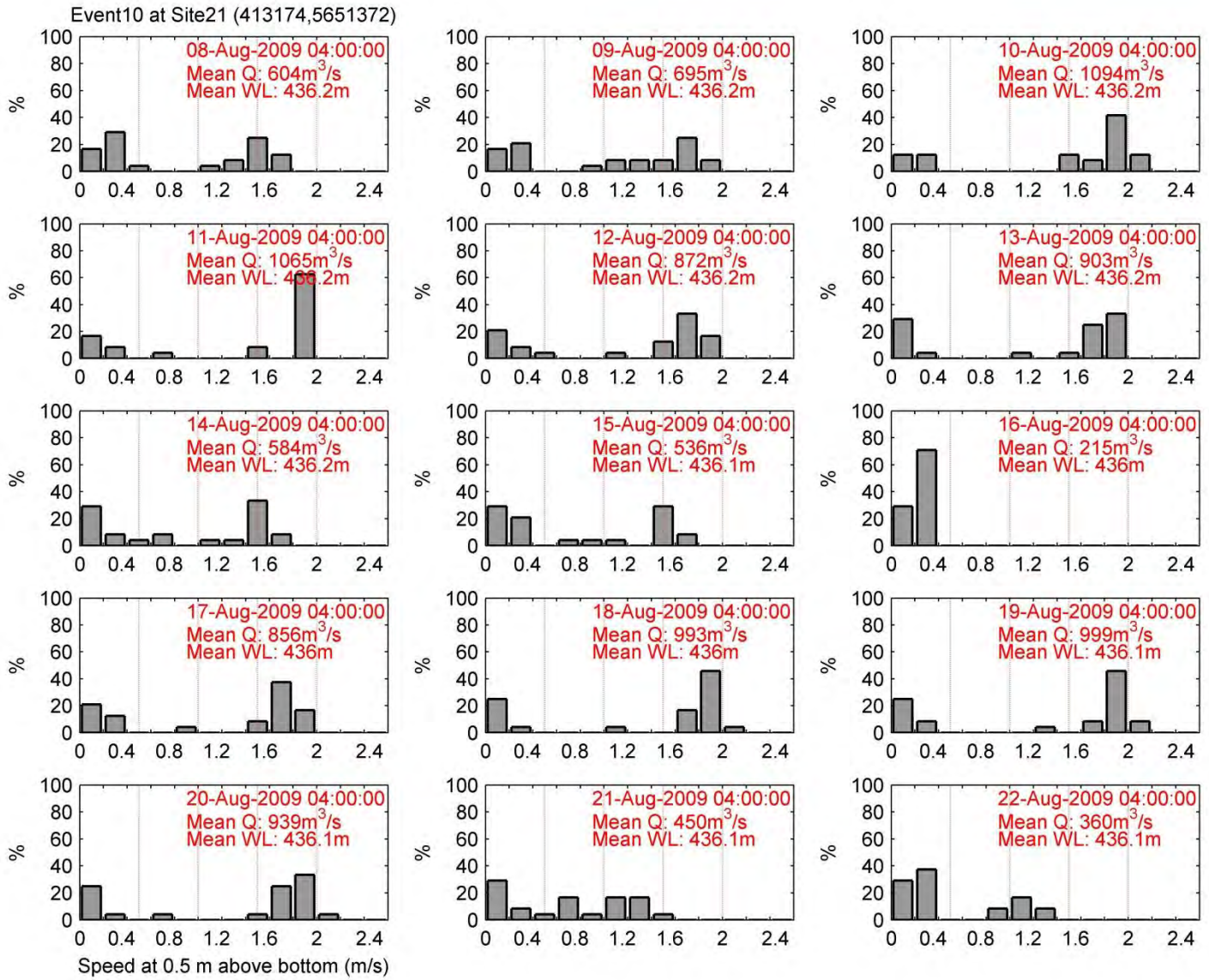

Event9 at Site17 (413364,5651766)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

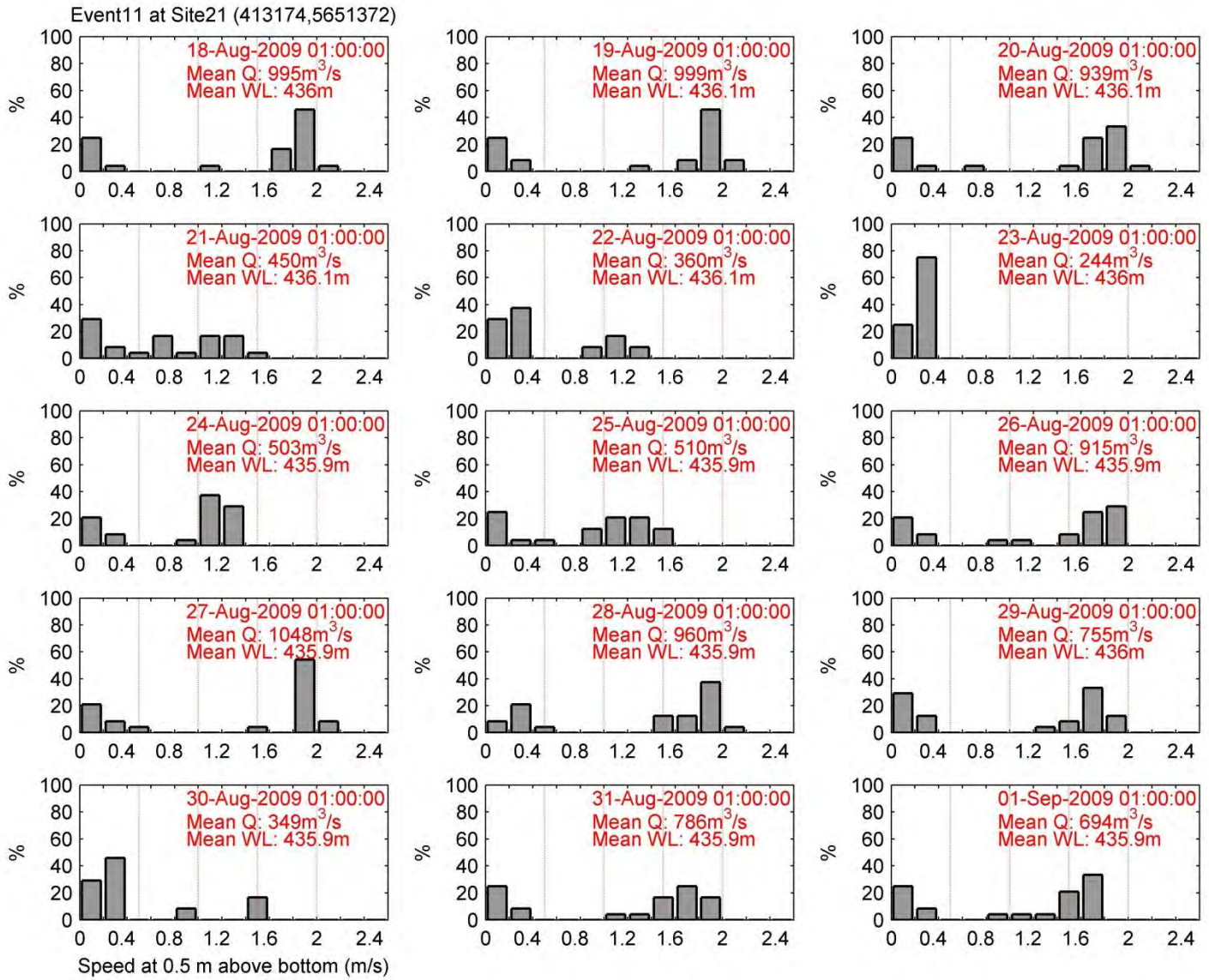

Event9 at Site19 (413302,5651733)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

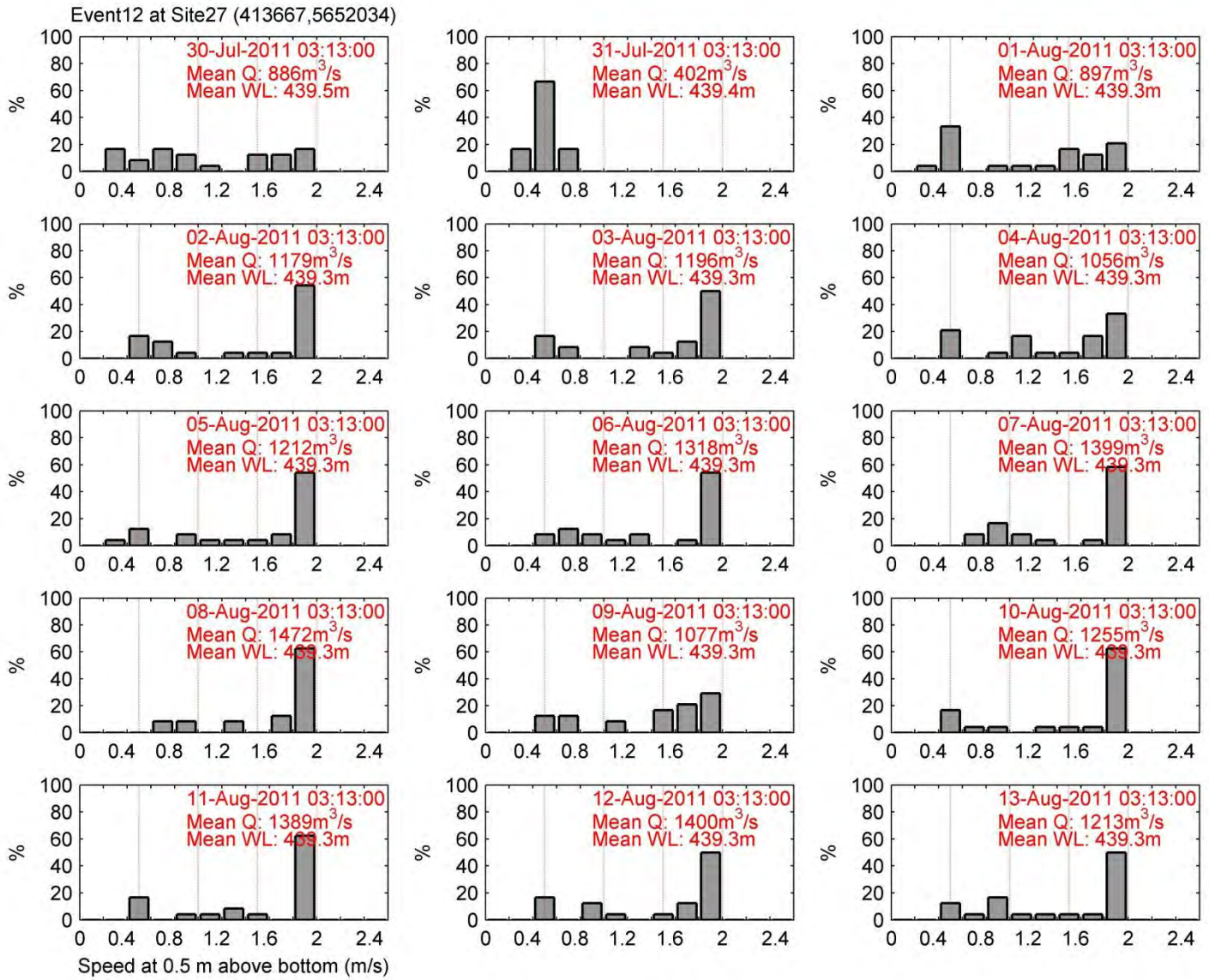

Event9 at Site22 (413196,5651427)
03-Aug-2009 05:00:00
Mean Q: 862m3/s
Mean WL: 436.4m
04-Aug-2009 05:00:00
Mean Q: 761m3/s
Mean WL: 436.4m
05-Aug-2009 05:00:00
Mean Q: 936m3/s
Mean WL: 436.3m
06-Aug-2009 05:00:00
Mean Q: 854m3/s
Mean WL: 436.3m
07-Aug-2009 05:00:00
Mean Q: 809m3/s
Mean WL: 436.2m
08-Aug-2009 05:00:00
Mean Q: 594m3/s
Mean WL: 436.2m
09-Aug-2009 05:00:00
Mean Q: 696m3/s
Mean WL: 436.2m
10-Aug-2009 05:00:00
Mean Q: 1093m3/s
Mean WL: 436.2m
11-Aug-2009 05:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 05:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 05:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 05:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 05:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 05:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 05:00:00
Mean Q: 856m3/s
Mean WL: 436m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

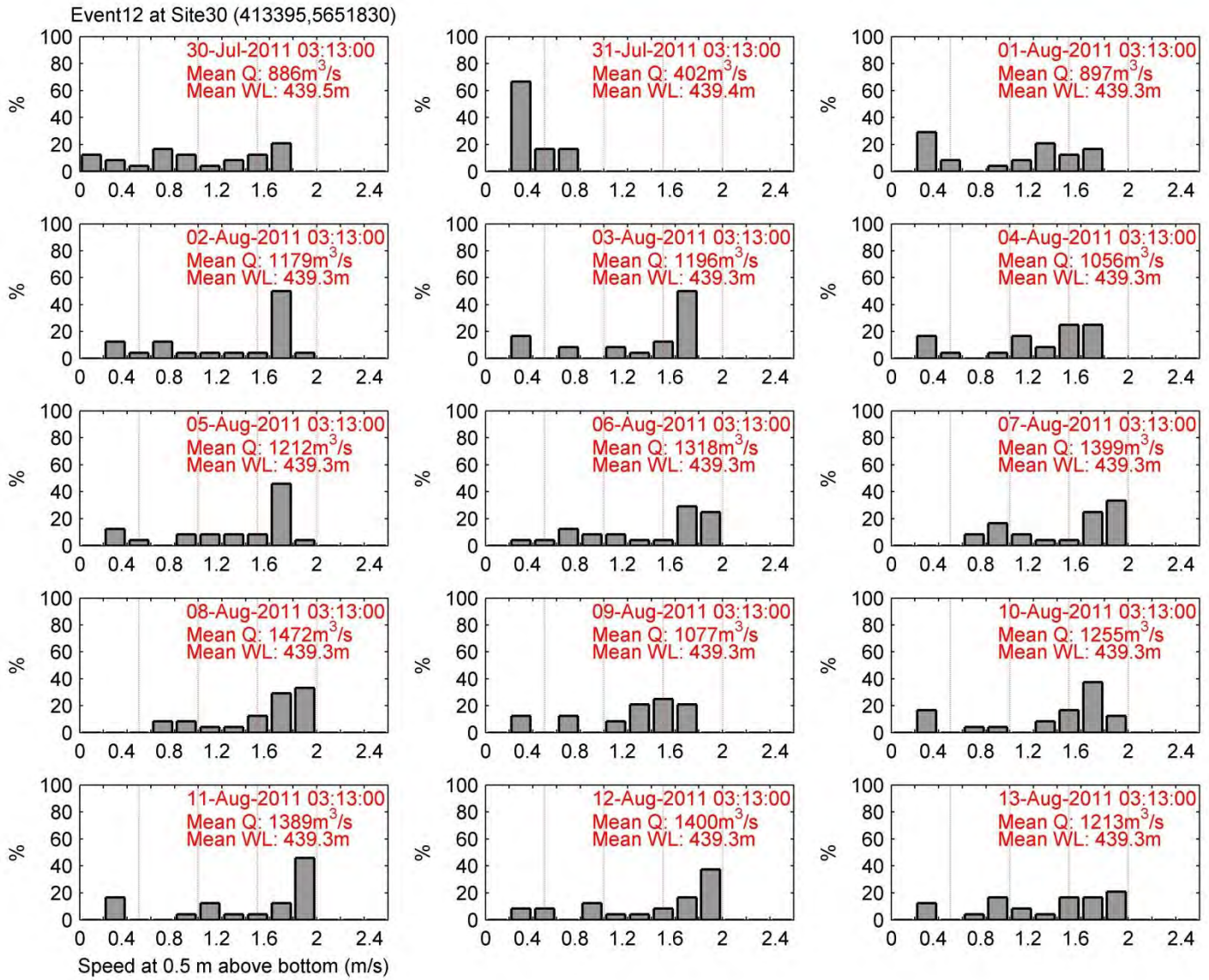

Event10 at Site18 (413259,5651774)
08-Aug-2009 04:00:00
Mean Q: 604m3/s
Mean WL: 436.2m
09-Aug-2009 04:00:00
Mean Q: 695m3/s
Mean WL: 436.2m
10-Aug-2009 04:00:00
Mean Q: 1094m3/s
Mean WL: 436.2m
11-Aug-2009 04:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 04:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 04:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 04:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 04:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 04:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 04:00:00
Mean Q: 856m3/s
Mean WL: 436m
18-Aug-2009 04:00:00
Mean Q: 993m3/s
Mean WL: 436m
19-Aug-2009 04:00:00
Mean Q: 999m3/s
Mean WL: 436.1m
20-Aug-2009 04:00:00
Mean Q: 939m3/s
Mean WL: 436.1m
21-Aug-2009 04:00:00
Mean Q: 450m3/s
Mean WL: 436.1m
22-Aug-2009 04:00:00
Mean Q: 360m3/s
Mean WL: 436.1m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

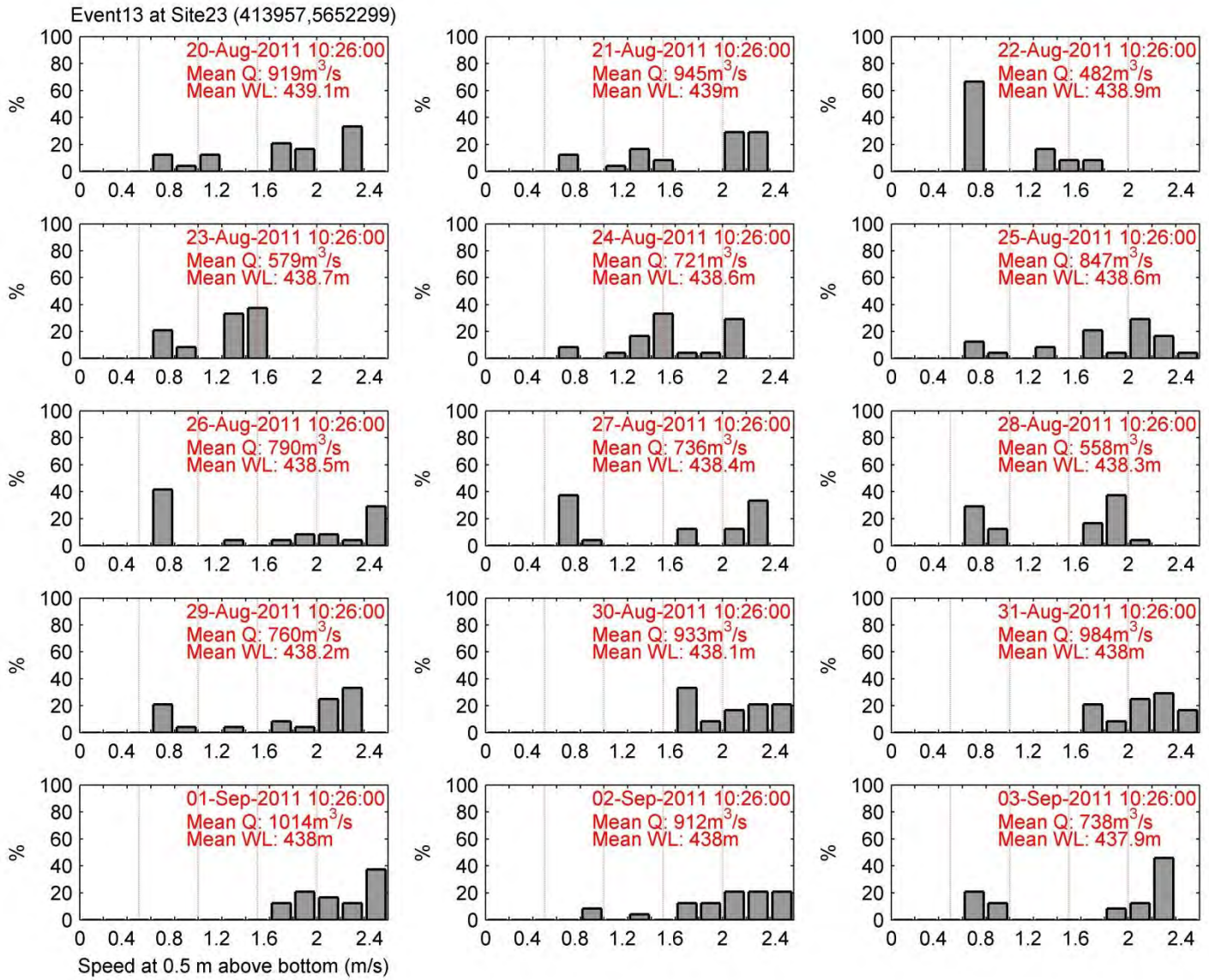

Event10 at Site20 (413281,5651633)
08-Aug-2009 04:00:00
Mean Q: 604m3/s
Mean WL: 436.2m
09-Aug-2009 04:00:00
Mean Q: 695m3/s
Mean WL: 436.2m
10-Aug-2009 04:00:00
Mean Q: 1094m3/s
Mean WL: 436.2m
11-Aug-2009 04:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 04:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 04:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 04:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 04:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 04:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 04:00:00
Mean Q: 856m3/s
Mean WL: 436m
18-Aug-2009 04:00:00
Mean Q: 993m3/s
Mean WL: 436m
19-Aug-2009 04:00:00
Mean Q: 999m3/s
Mean WL: 436.1m
20-Aug-2009 04:00:00
Mean Q: 939m3/s
Mean WL: 436.1m
21-Aug-2009 04:00:00
Mean Q: 450m3/s
Mean WL: 436.1m
22-Aug-2009 04:00:00
Mean Q: 360m3/s
Mean WL: 436.1m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

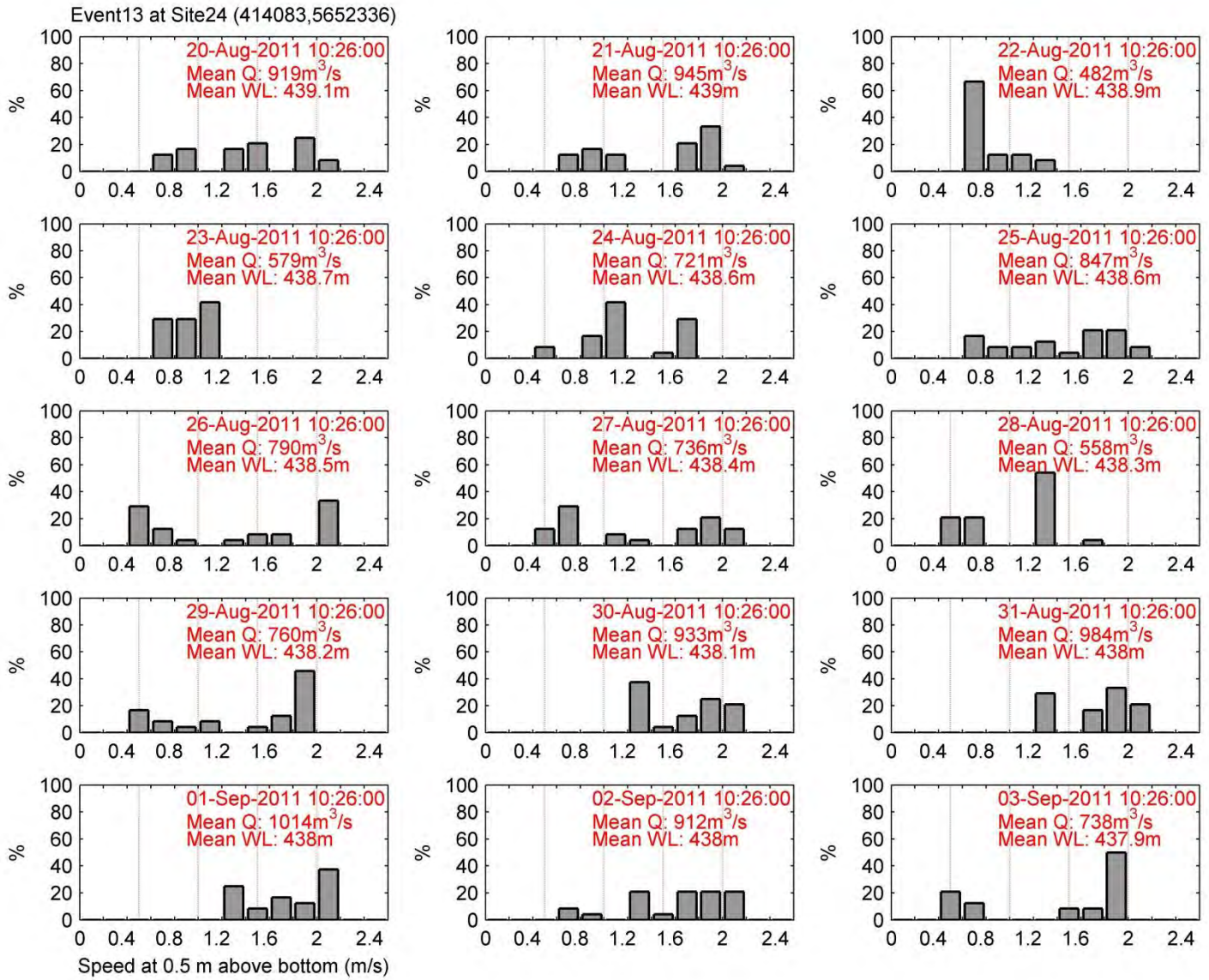

Event10 at Site21 (413174,5651372)
08-Aug-2009 04:00:00
Mean Q: 604m3/s
Mean WL: 436.2m
09-Aug-2009 04:00:00
Mean Q: 695m3/s
Mean WL: 436.2m
10-Aug-2009 04:00:00
Mean Q: 1094m3/s
Mean WL: 436.2m
11-Aug-2009 04:00:00
Mean Q: 1065m3/s
Mean WL: 436.2m
12-Aug-2009 04:00:00
Mean Q: 872m3/s
Mean WL: 436.2m
13-Aug-2009 04:00:00
Mean Q: 903m3/s
Mean WL: 436.2m
14-Aug-2009 04:00:00
Mean Q: 584m3/s
Mean WL: 436.2m
15-Aug-2009 04:00:00
Mean Q: 536m3/s
Mean WL: 436.1m
16-Aug-2009 04:00:00
Mean Q: 215m3/s
Mean WL: 436m
17-Aug-2009 04:00:00
Mean Q: 856m3/s
Mean WL: 436m
18-Aug-2009 04:00:00
Mean Q: 993m3/s
Mean WL: 436m
19-Aug-2009 04:00:00
Mean Q: 999m3/s
Mean WL: 436.1m
20-Aug-2009 04:00:00
Mean Q: 939m3/s
Mean WL: 436.1m
21-Aug-2009 04:00:00
Mean Q: 450m3/s
Mean WL: 436.1m
22-Aug-2009 04:00:00
Mean Q: 360m3/s
Mean WL: 436.1m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

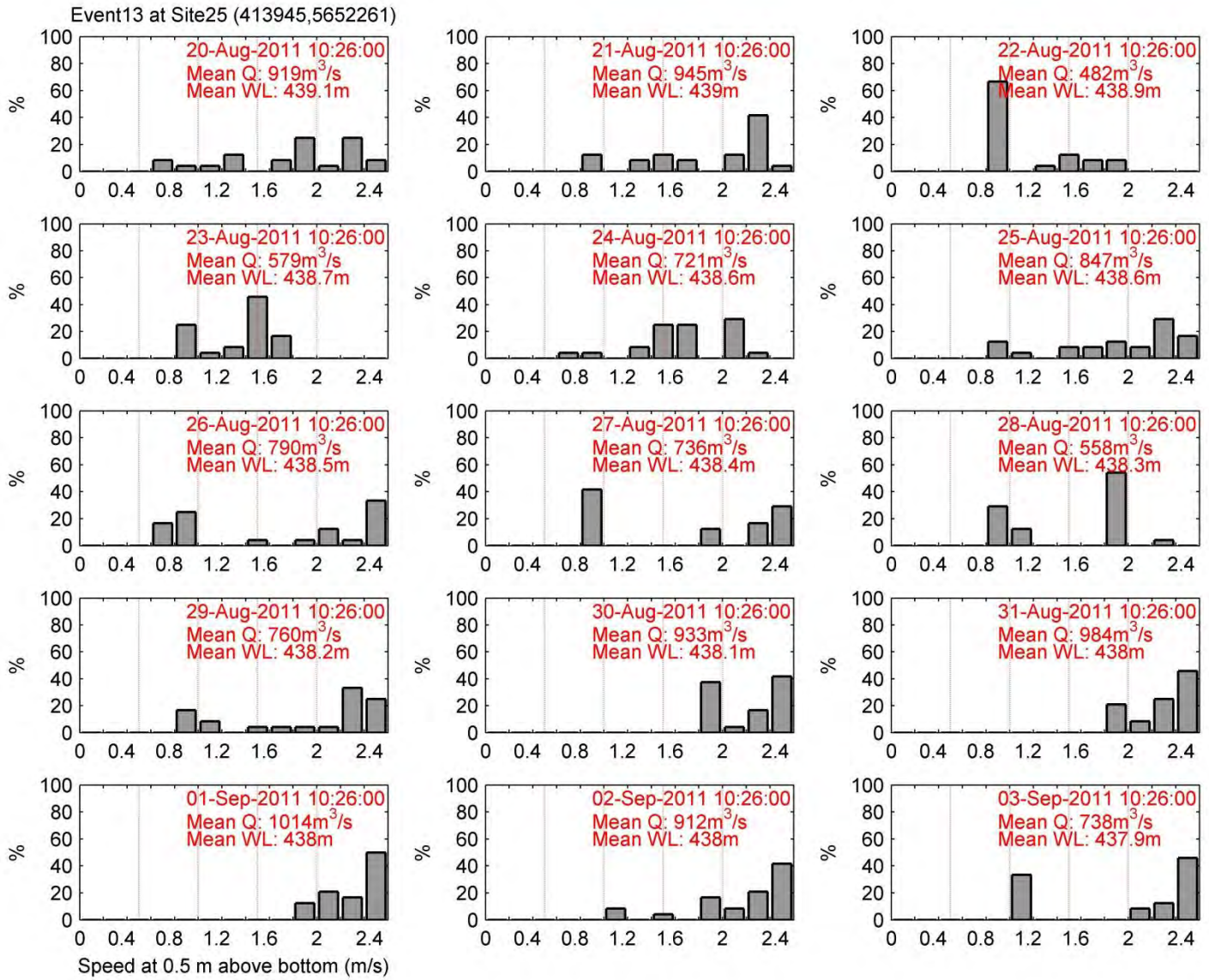

Event11 at Site21 (413174,5651372)
18-Aug-2009 01:00:00
Mean Q: 995m3/s
Mean WL: 436m
19-Aug-2009 01:00:00
Mean Q: 999m3/s
Mean WL: 436.1m
20-Aug-2009 01:00:00
Mean Q: 939m3/s
Mean WL: 436.1m
21-Aug-2009 01:00:00
Mean Q: 450m3/s
Mean WL: 436.1m
22-Aug-2009 01:00:00
Mean Q: 360m3/s
Mean WL: 436.1m
23-Aug-2009 01:00:00
Mean Q: 244m3/s
Mean WL: 436m
24-Aug-2009 01:00:00
Mean Q: 503m3/s
Mean WL: 435.9m
25-Aug-2009 01:00:00
Mean Q: 510m3/s
Mean WL: 435.9m
26-Aug-2009 01:00:00
Mean Q: 915m3/s
Mean WL: 435.9m
27-Aug-2009 01:00:00
Mean Q: 1048m3/s
Mean WL: 435.9m
28-Aug-2009 01:00:00
Mean Q: 960m3/s
Mean WL: 435.9m
29-Aug-2009 01:00:00
Mean Q: 755m3/s
Mean WL: 436m
30-Aug-2009 01:00:00
Mean Q: 349m3/s
Mean WL: 435.9m
31-Aug-2009 01:00:00
Mean Q: 786m3/s
Mean WL: 435.9m
01-Sep-2009 01:00:00
Mean Q: 694m3/s
Mean WL: 435.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

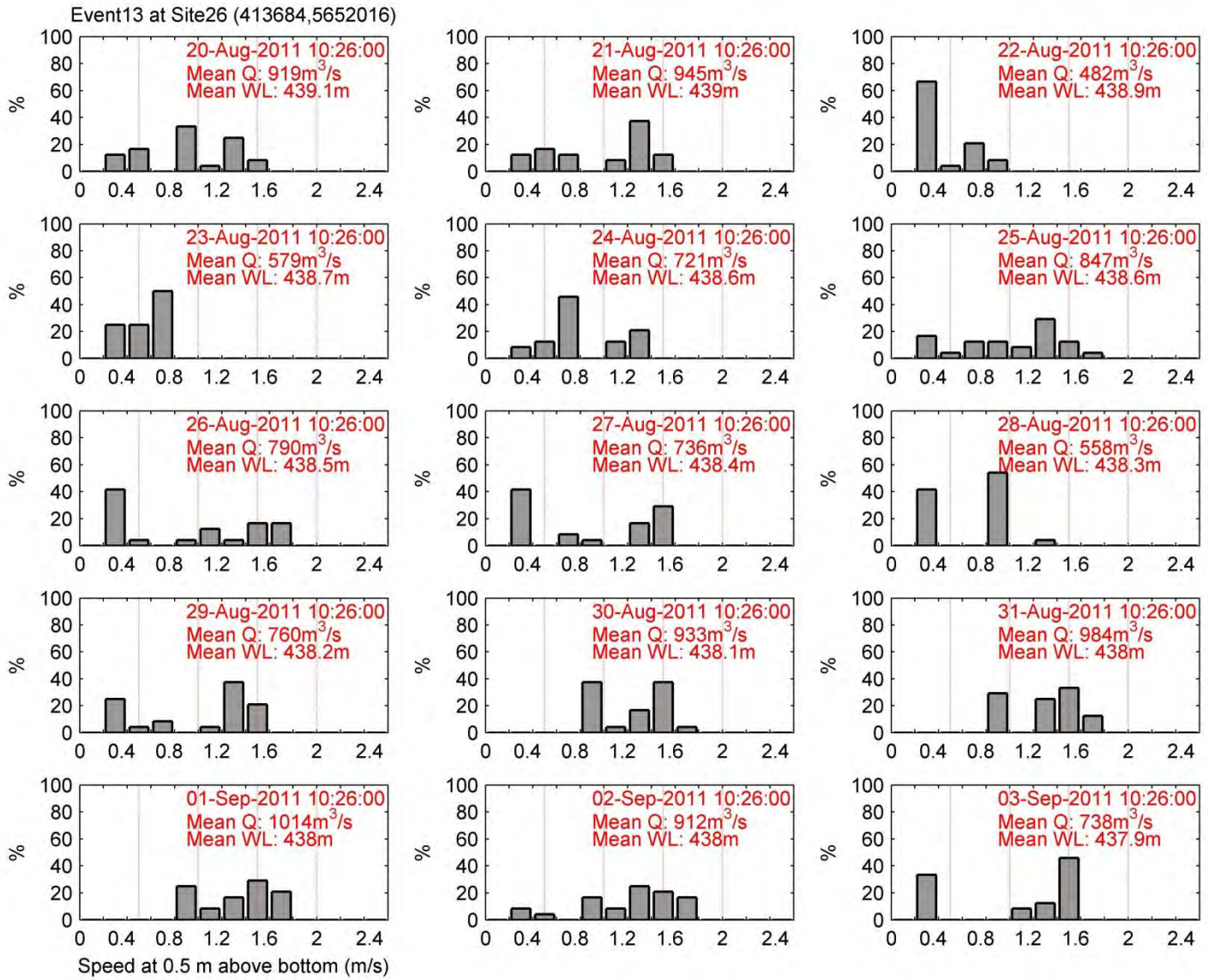

Event12 at Site27 (413667,5652034)
30-Jul-2011 03:13:00
Mean Q: 886m3/s
Mean WL: 439.5m
31-Jul-2011 03:13:00
Mean Q: 402m3/s
Mean WL: 439.4m
01-Aug-2011 03:13:00
Mean Q: 897m3/s
Mean WL: 439.3m
02-Aug-2011 03:13:00
Mean Q: 1179m3/s
Mean WL: 439.3m
03-Aug-2011 03:13:00
Mean Q: 1196m3/s
Mean WL: 439.3m
04-Aug-2011 03:13:00
Mean Q: 1056m3/s
Mean WL: 439.3m
05-Aug-2011 03:13:00
Mean Q: 1212m3/s
Mean WL: 439.3m
06-Aug-2011 03:13:00
Mean Q: 1318m3/s
Mean WL: 439.3m
07-Aug-2011 03:13:00
Mean Q: 1399m3/s
Mean WL: 439.3m
08-Aug-2011 03:13:00
Mean Q: 1472m3/s
Mean WL: 439.3m
09-Aug-2011 03:13:00
Mean Q: 1077m3/s
Mean WL: 439.3m
10-Aug-2011 03:13:00
Mean Q: 1255m3/s
Mean WL: 439.3m
11-Aug-2011 03:13:00
Mean Q: 1389m3/s
Mean WL: 439.3m
12-Aug-2011 03:13:00
Mean Q: 1400m3/s
Mean WL: 439.3m
13-Aug-2011 03:13:00
Mean Q: 1213m3/s
Mean WL: 439.3m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

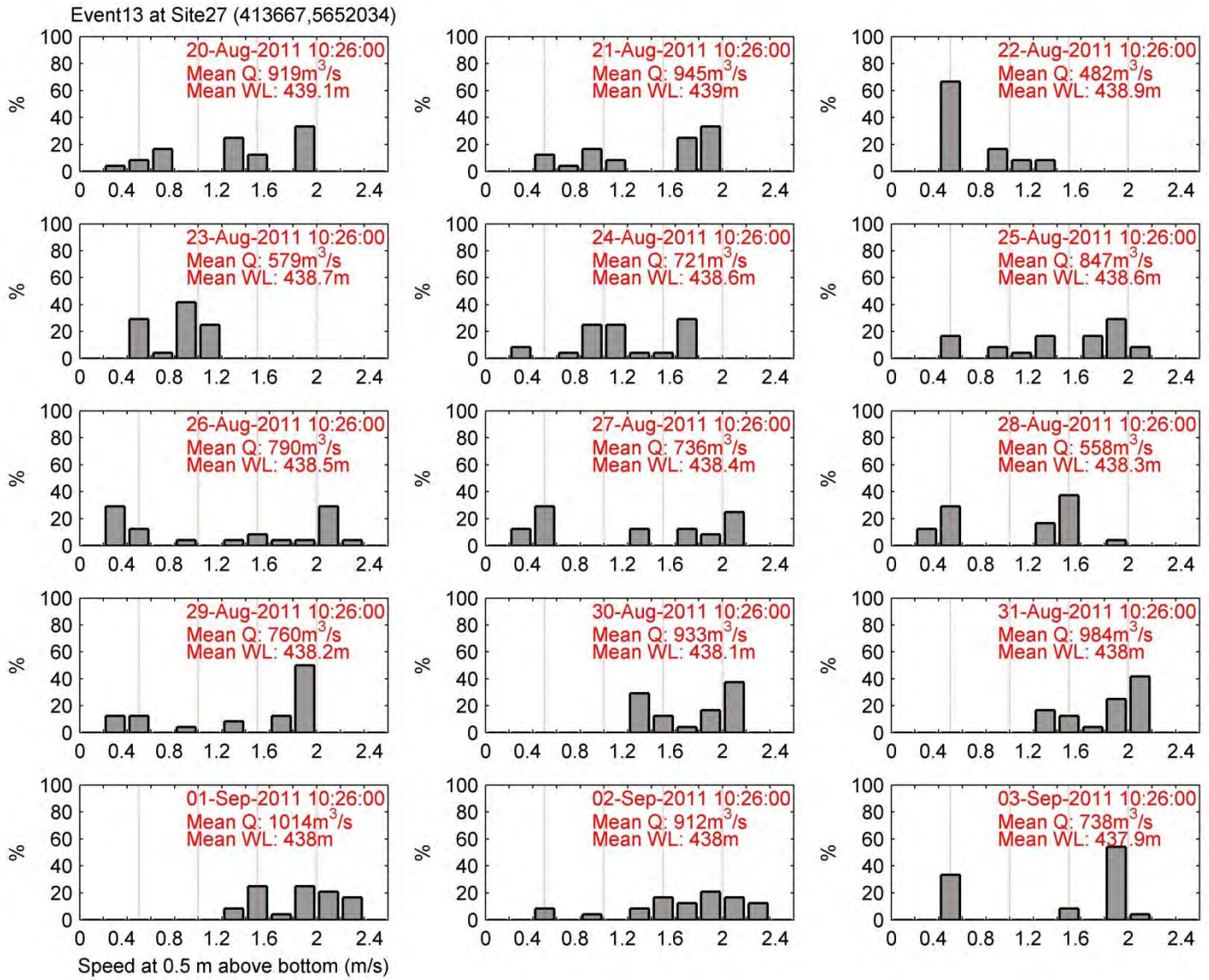

Event12 at Site30 (413395,5651830)
30-Jul-2011 03:13:00
Mean Q: 886m3/s
Mean WL: 439.5m
31-Jul-2011 03:13:00
Mean Q: 402m3/s
Mean WL: 439.4m
01-Aug-2011 03:13:00
Mean Q: 897m3/s
Mean WL: 439.3m
02-Aug-2011 03:13:00
Mean Q: 1179m3/s
Mean WL: 439.3m
03-Aug-2011 03:13:00
Mean Q: 1196m3/s
Mean WL: 439.3m
04-Aug-2011 03:13:00
Mean Q: 1056m3/s
Mean WL: 439.3m
05-Aug-2011 03:13:00
Mean Q: 1212m3/s
Mean WL: 439.3m
06-Aug-2011 03:13:00
Mean Q: 1318m3/s
Mean WL: 439.3m
07-Aug-2011 03:13:00
Mean Q: 1399m3/s
Mean WL: 439.3m
08-Aug-2011 03:13:00
Mean Q: 1472m3/s
Mean WL: 439.3m
09-Aug-2011 03:13:00
Mean Q: 1077m3/s
Mean WL: 439.3m
10-Aug-2011 03:13:00
Mean Q: 1255m3/s
Mean WL: 439.3m
11-Aug-2011 03:13:00
Mean Q: 1389m3/s
Mean WL: 439.3m
12-Aug-2011 03:13:00
Mean Q: 1400m3/s
Mean WL: 439.3m
13-Aug-2011 03:13:00
Mean Q: 1213m3/s
Mean WL: 439.3m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

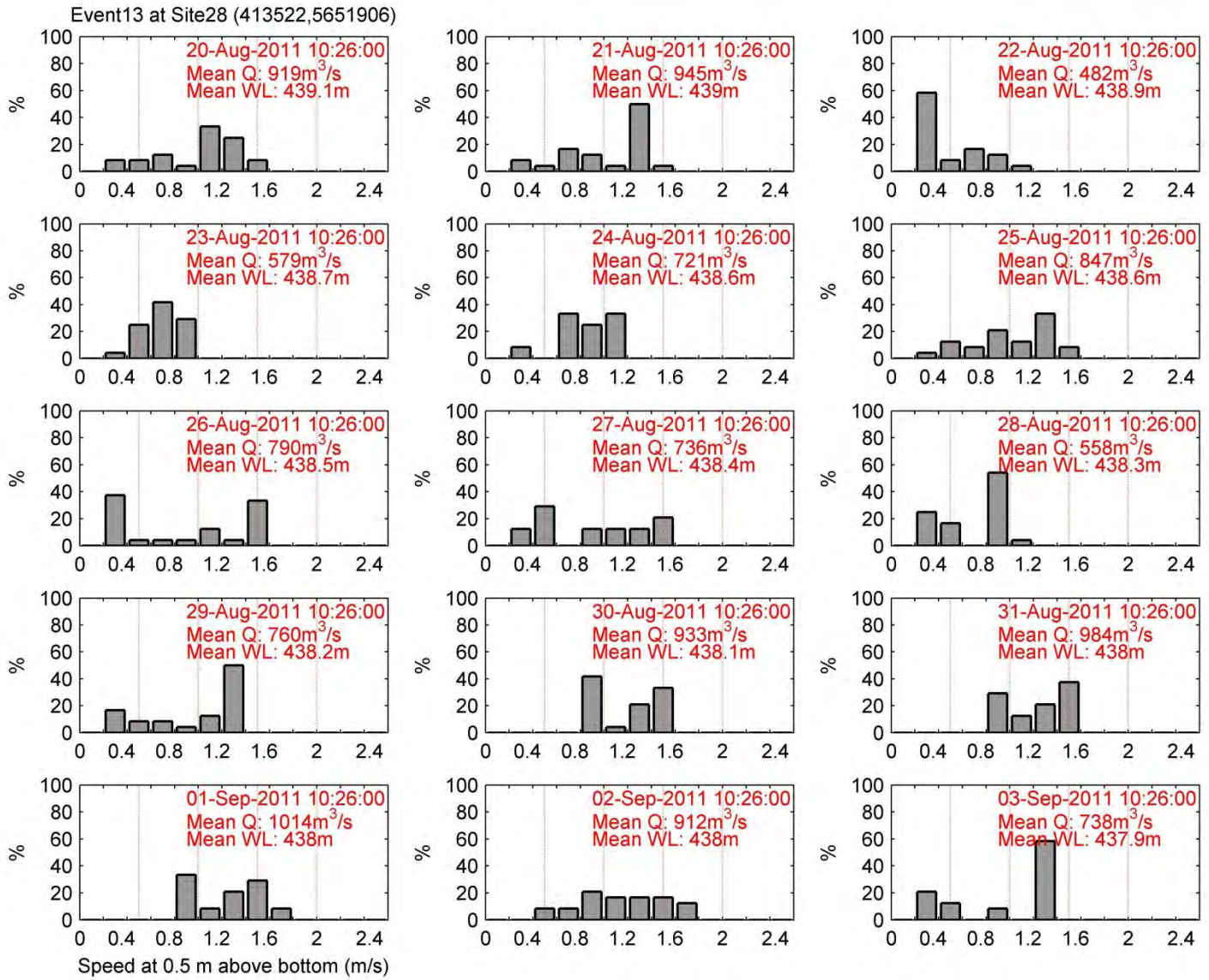

Event13 at Site23 (413957,5652299)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

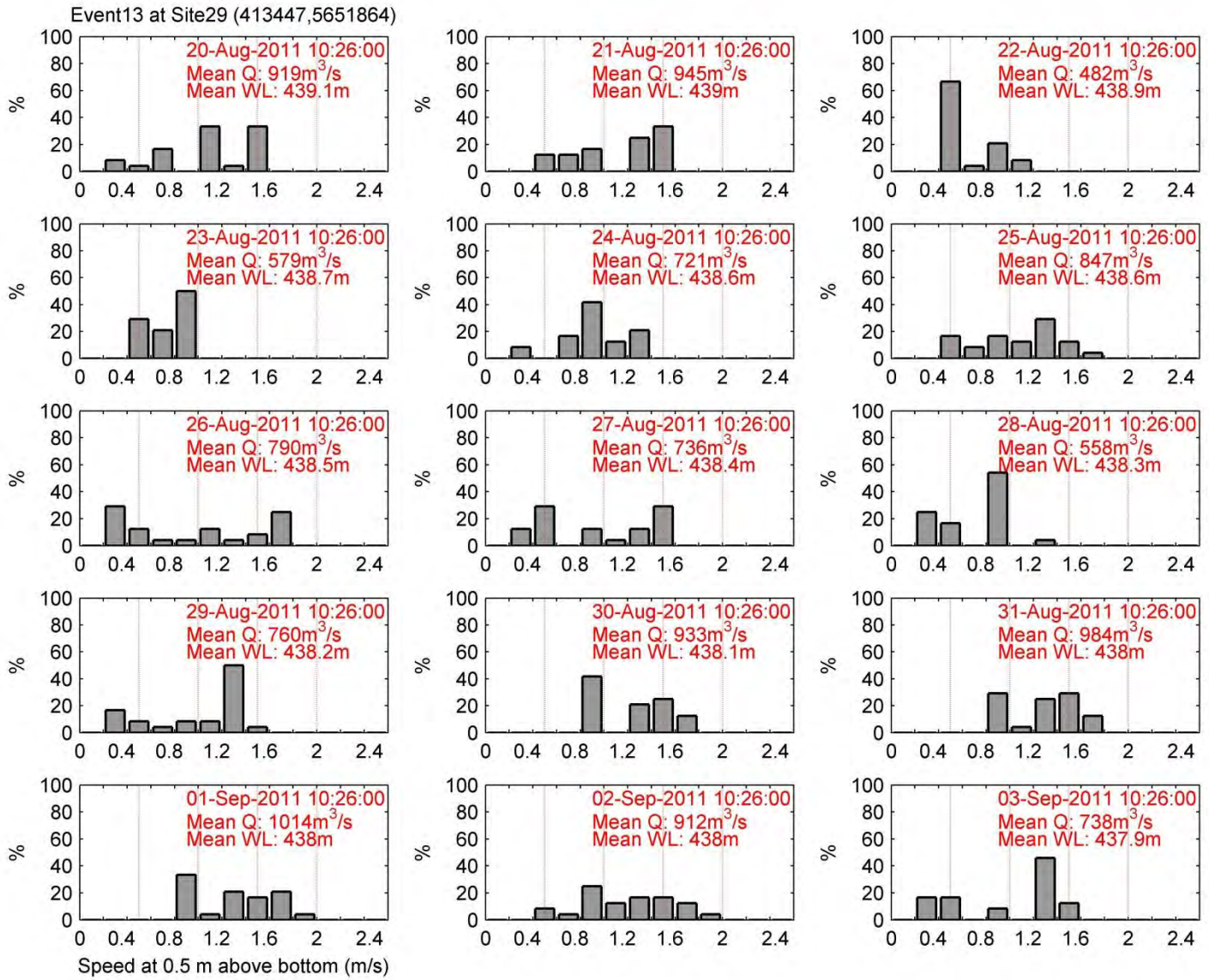

Event13 at Site24 (414083,5652336)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

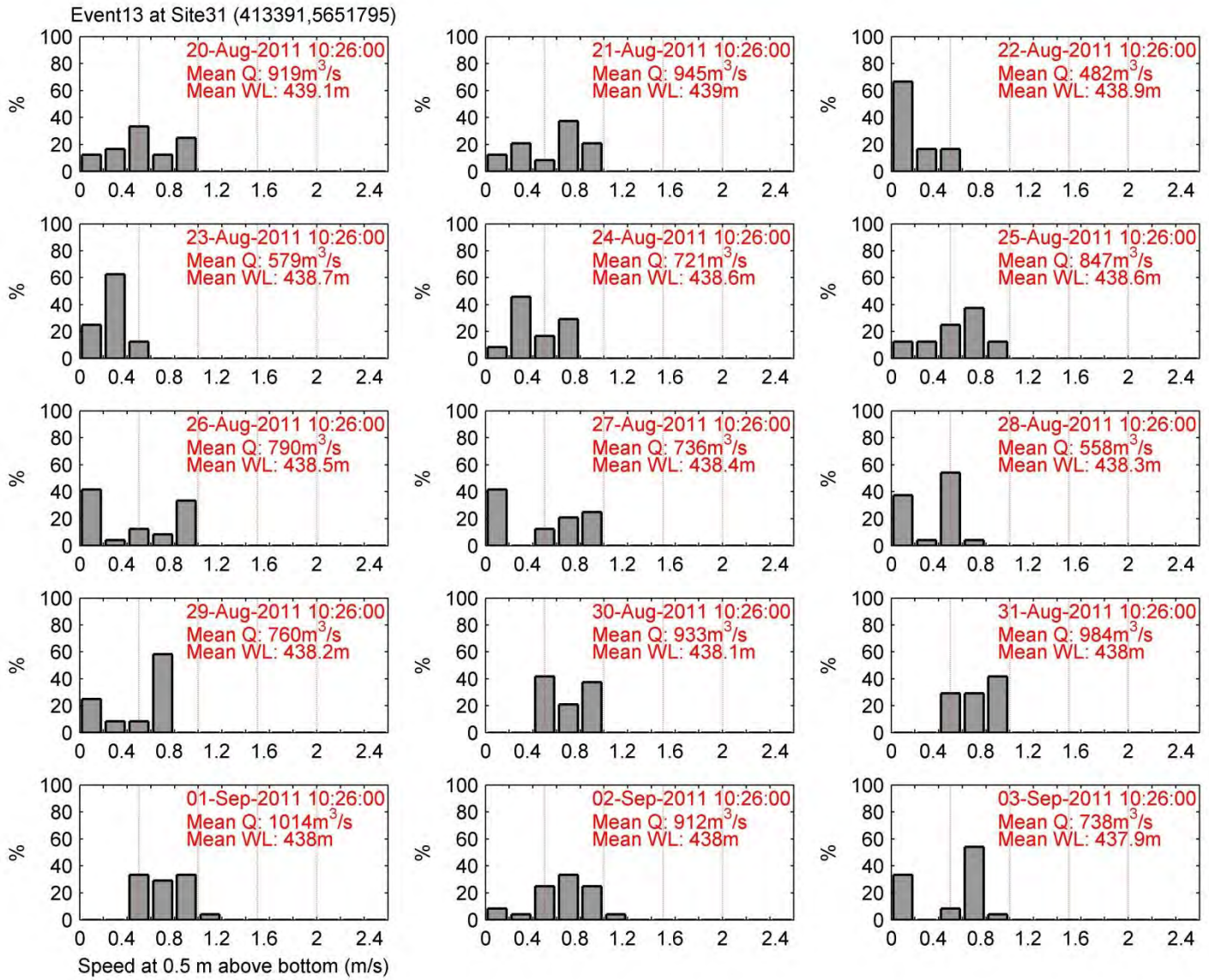

Event13 at Site25 (413945,5652261)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

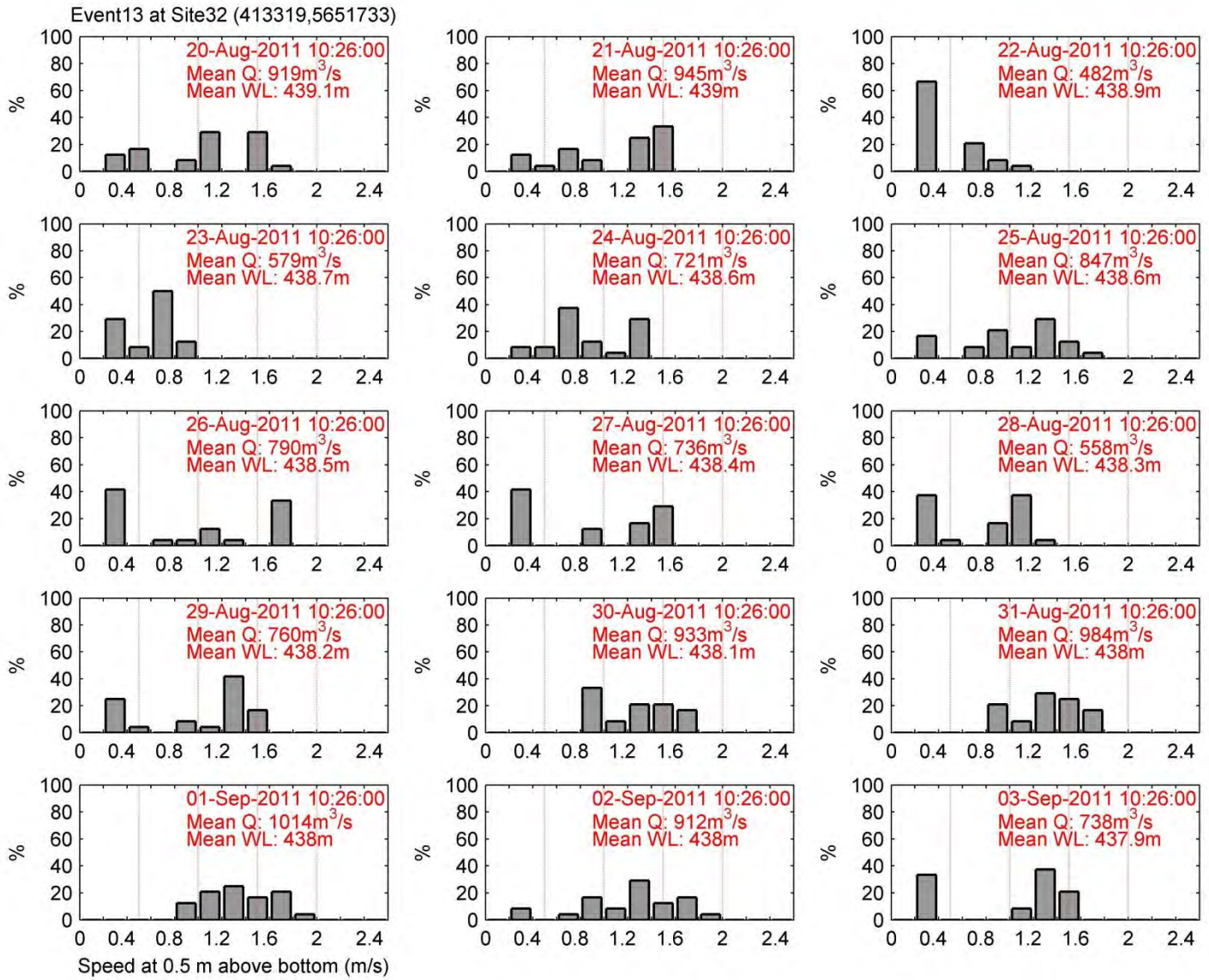

Event13 at Site26 (413684,5652016)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
Speed at 0.5 m above bottom (m/s)

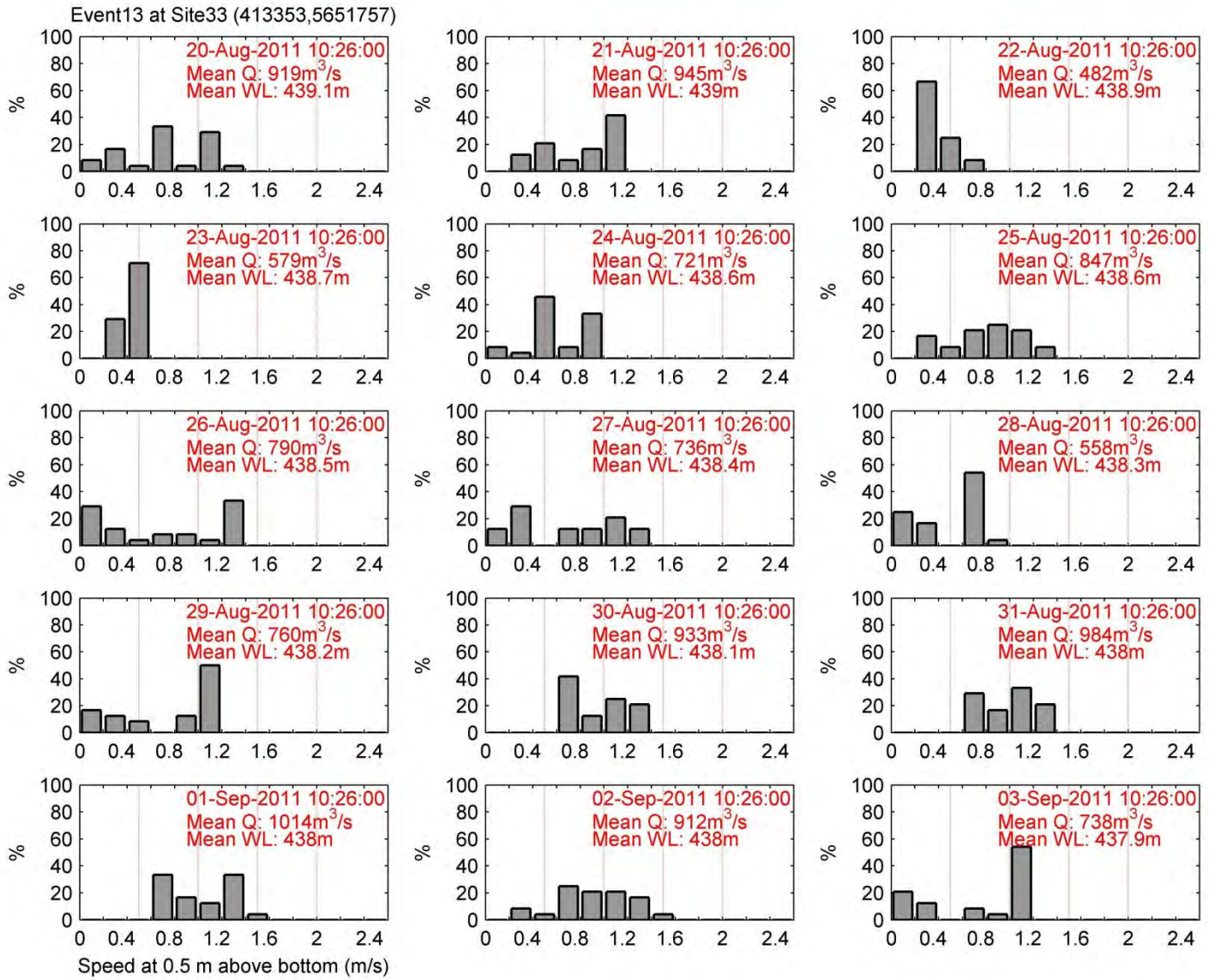

Event13 at Site27 (413667,5652034)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

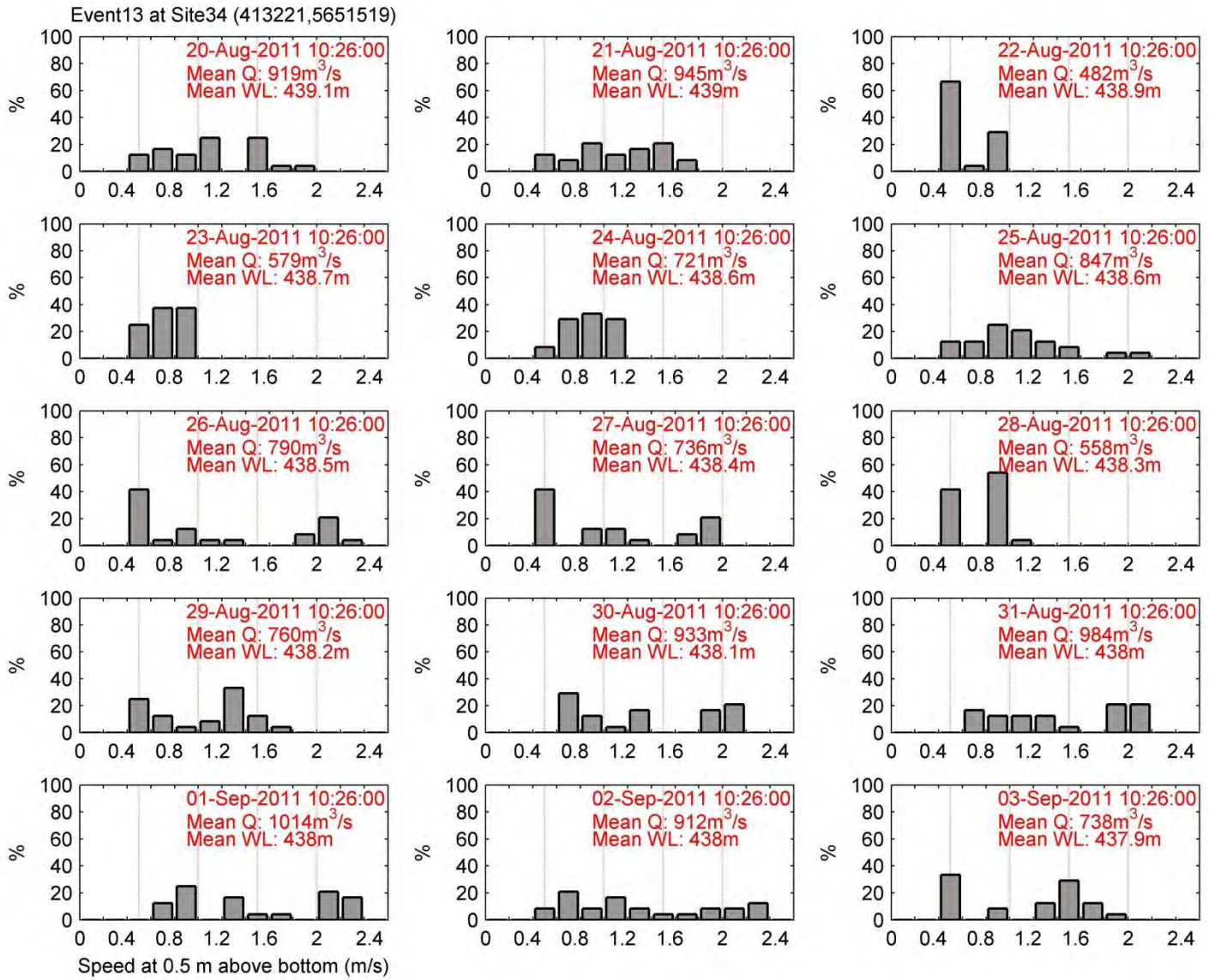

Event13 at Site28 (413522,5651906)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

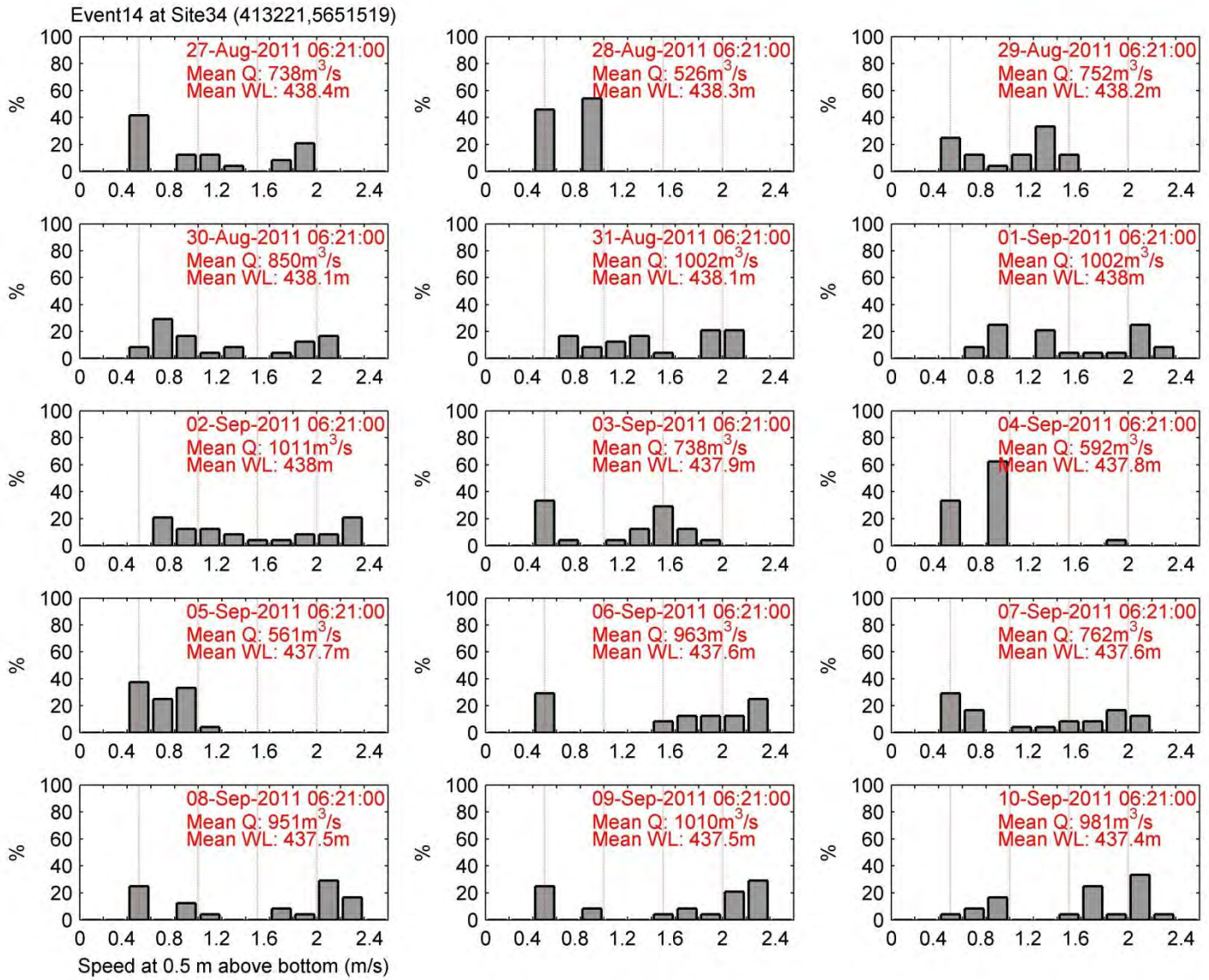

Event13 at Site29 (413447,5651864)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)


Event13 at Site31 (413391,5651795)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)


Event13 at Site32 (413319,5651733)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)


Event13 at Site33 (413353,5651757)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

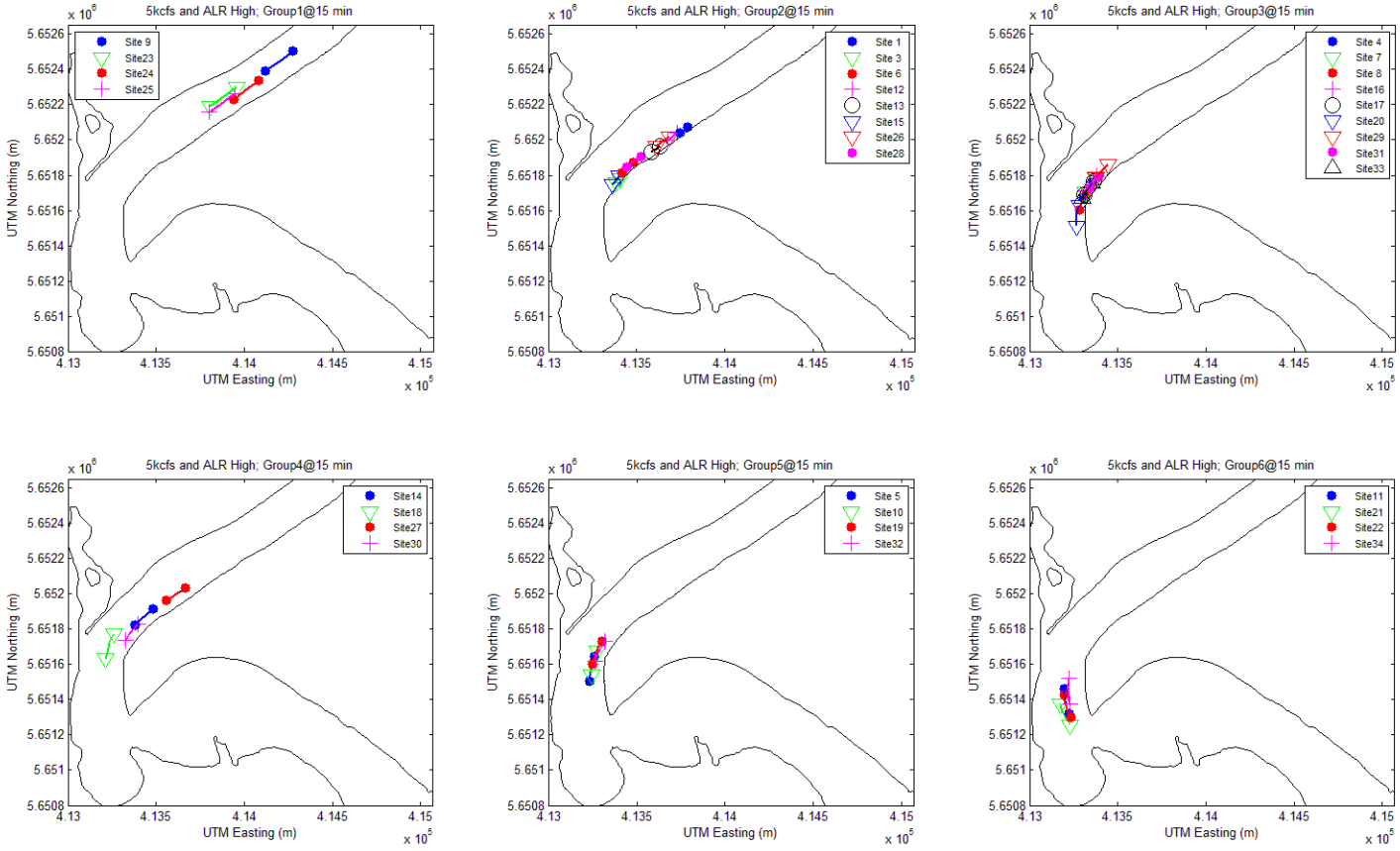

Event13 at Site34 (413221,5651519)
20-Aug-2011 10:26:00
Mean Q: 919m3/s
Mean WL: 439.1m
21-Aug-2011 10:26:00
Mean Q: 945m3/s
Mean WL: 439m
22-Aug-2011 10:26:00
Mean Q: 482m3/s
Mean WL: 438.9m
23-Aug-2011 10:26:00
Mean Q: 579m3/s
Mean WL: 438.7m
24-Aug-2011 10:26:00
Mean Q: 721m3/s
Mean WL: 438.6m
25-Aug-2011 10:26:00
Mean Q: 847m3/s
Mean WL: 438.6m
26-Aug-2011 10:26:00
Mean Q: 790m3/s
Mean WL: 438.5m
27-Aug-2011 10:26:00
Mean Q: 736m3/s
Mean WL: 438.4m
28-Aug-2011 10:26:00
Mean Q: 558m3/s
Mean WL: 438.3m
29-Aug-2011 10:26:00
Mean Q: 760m3/s
Mean WL: 438.2m
30-Aug-2011 10:26:00
Mean Q: 933m3/s
Mean WL: 438.1m
31-Aug-2011 10:26:00
Mean Q: 984m3/s
Mean WL: 438m
01-Sep-2011 10:26:00
Mean Q: 1014m3/s
Mean WL: 438m
02-Sep-2011 10:26:00
Mean Q: 912m3/s
Mean WL: 438m
03-Sep-2011 10:26:00
Mean Q: 738m3/s
Mean WL: 437.9m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

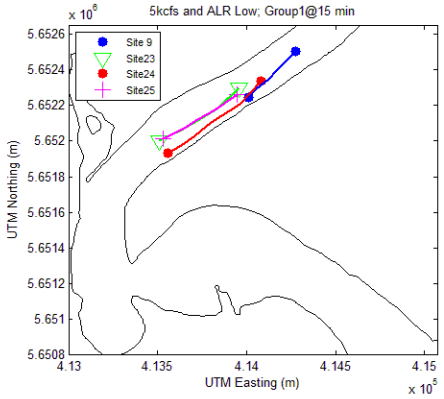

Event14 at Site34 (413221,5651519)
27-Aug-2011 06:21:00
Mean Q: 738m3/s
Mean WL: 438.4m
28-Aug-2011 06:21:00
Mean Q: 526m3/s
Mean WL: 438.3m
29-Aug-2011 06:21:00
Mean Q: 752m3/s
Mean WL: 438.2m
30-Aug-2011 06:21:00
Mean Q: 850m3/s
Mean WL: 438.1m
31-Aug-2011 06:21:00
Mean Q: 1002m3/s
Mean WL: 438.1m
01-Sep-2011 06:21:00
Mean Q: 1002m3/s
Mean WL: 438m
02-Sep-2011 06:21:00
Mean Q: 1011m3/s
Mean WL: 438m
03-Sep-2011 06:21:00
Mean Q: 738m3/s
Mean WL: 437.9m
04-Sep-2011 06:21:00
Mean Q: 592m3/s
Mean WL: 437.8m
05-Sep-2011 06:21:00
Mean Q: 561m3/s
Mean WL: 437.7m
06-Sep-2011 06:21:00
Mean Q: 963m3/s
Mean WL: 437.6m
07-Sep-2011 06:21:00
Mean Q: 762m3/s
Mean WL: 437.6m
08-Sep-2011 06:21:00
Mean Q: 951m3/s
Mean WL: 437.5m
09-Sep-2011 06:21:00
Mean Q: 1010m3/s
Mean WL: 437.5m
10-Sep-2011 06:21:00
Mean Q: 981m3/s
Mean WL: 437.4m
%
0 20 40 60 80 100
0 0.4 0.8 1.2 1.6 2 2.4
Speed at 0.5 m above bottom (m/s)

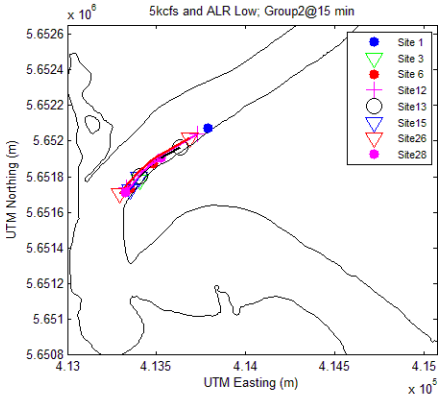
Appendix C: Downstream drift patterns of White Sturgeon larvae "released" at the 34 selected egg mat sites at different flow regimes and ALR levels.

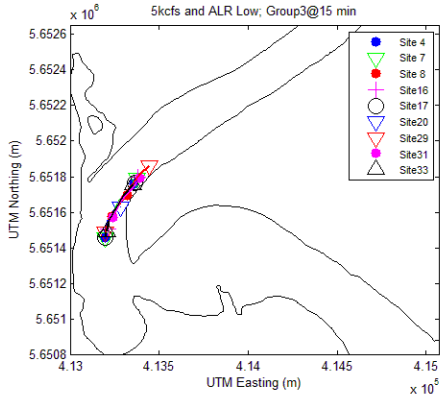
Appendix C: Downstream drift patterns of White Sturgeon larvae "released" at the 34 selected egg mat sites at different flow regimes and ALR levels.

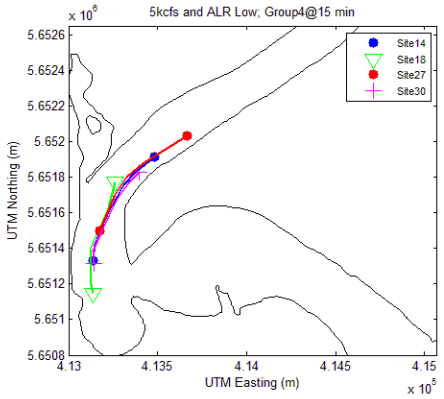
(1) Locations and tracks of the particles at 15 minutes after releasing

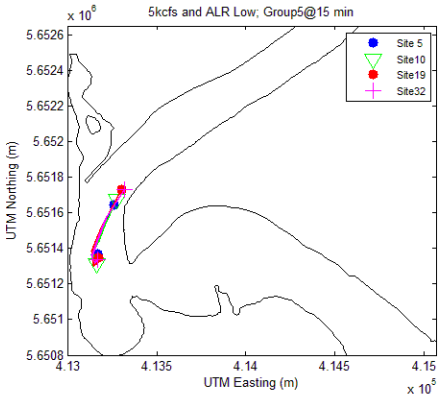


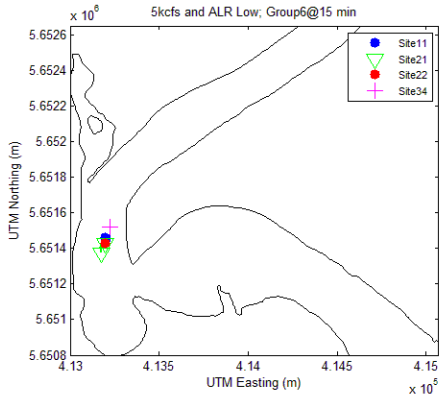

5kcfs and ALR Low; Group1@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

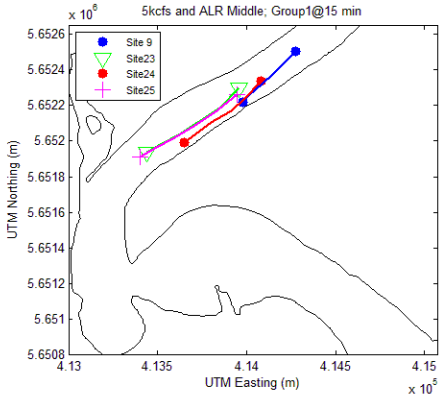

5kcfs and ALR Low; Group2@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

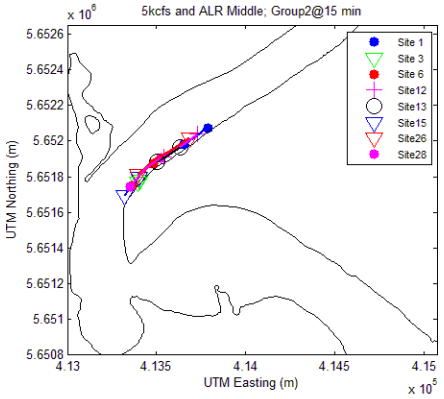

5kcfs and ALR Low; Group3@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

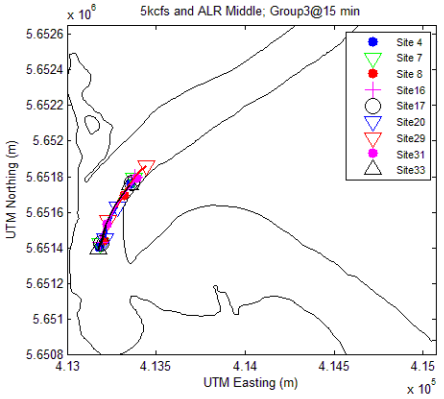

5kcfs and ALR Low; Group4@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

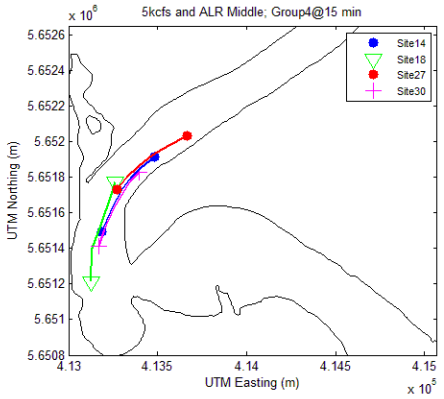

5kcfs and ALR Low; Group5@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

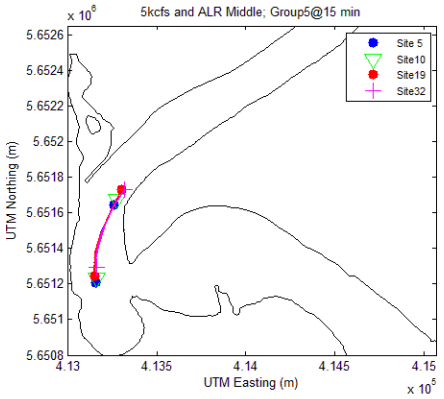

5kcfs and ALR Low; Group6@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group1@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group2@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group3@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group4@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group5@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
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Site32
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4.135
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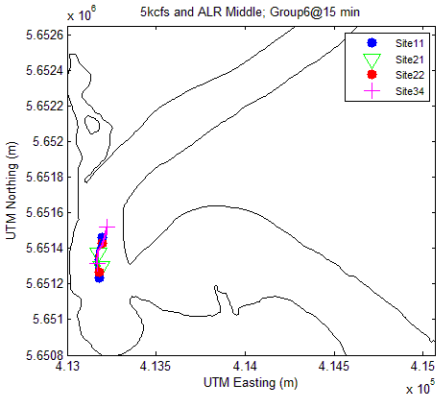
4.15
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
Site11
Site21
Site22
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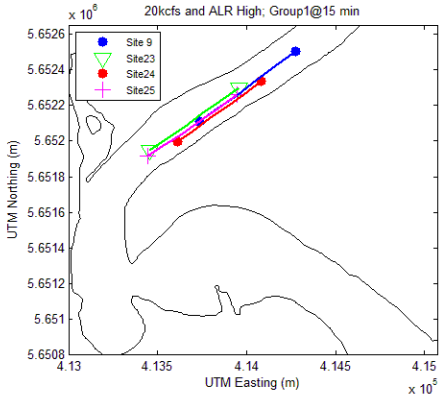
4.145
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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4.145
4.15
UTM Easting (m)
x 10^5
Site 9
Site23
Site24
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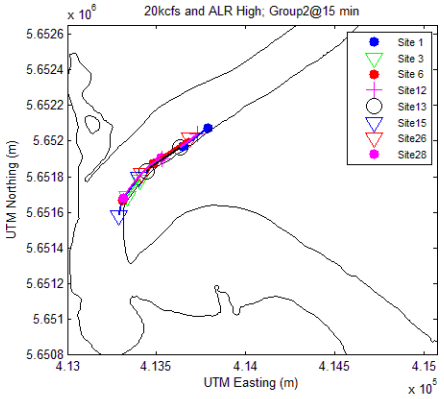
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5.6508
UTM Northing (m)
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4.15
UTM Easting (m)
x 10^5
Site 1
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Site26
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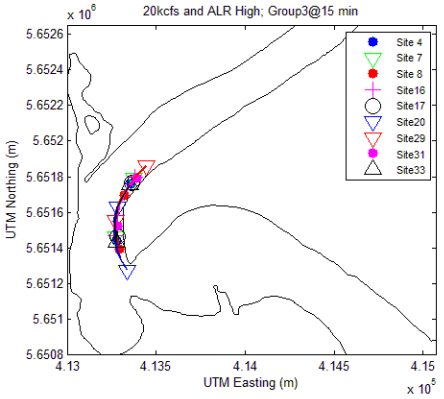
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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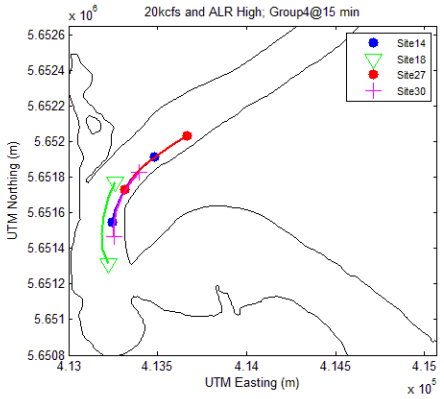
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5.6508
UTM Northing (m)
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4.15
UTM Easting (m)
x 10^5
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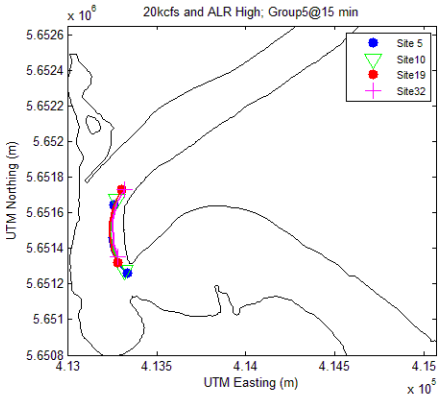
Site27
Site30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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 5
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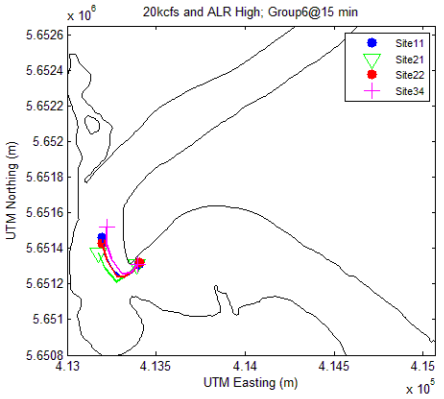
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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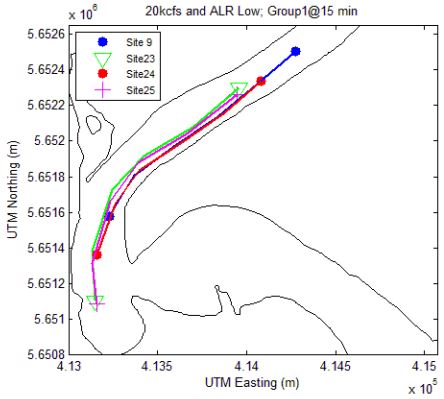
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UTM Northing (m)
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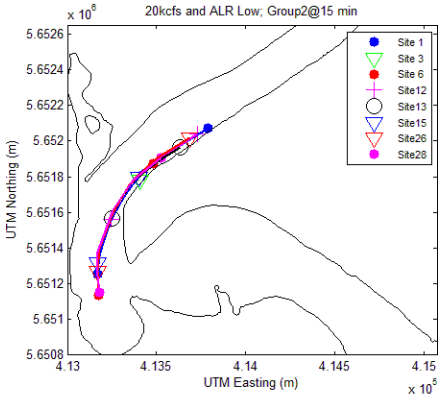
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group2@15 min
x 10^6
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UTM Northing (m)
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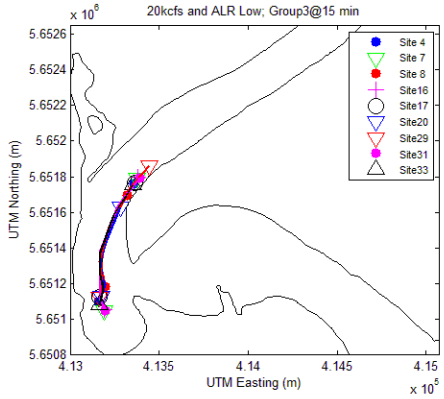
UTM Easting (m)
x 10^5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UTM Northing (m)
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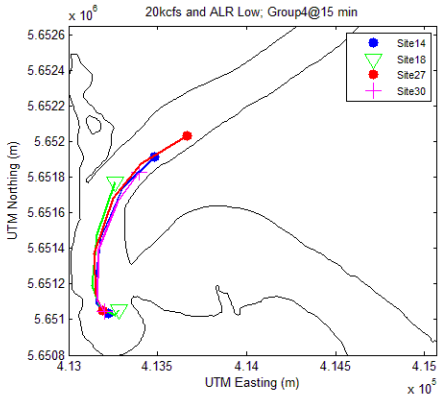
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group4@15 min
x 10^6
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UTM Northing (m)
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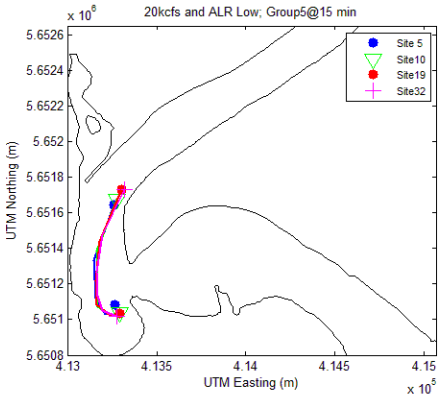
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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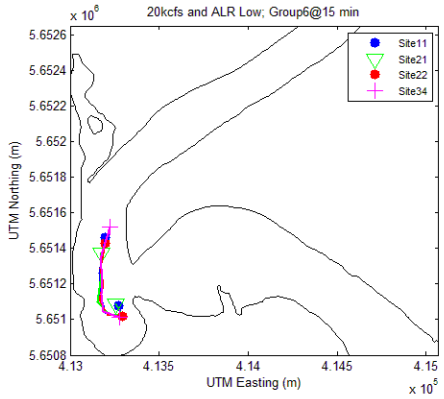
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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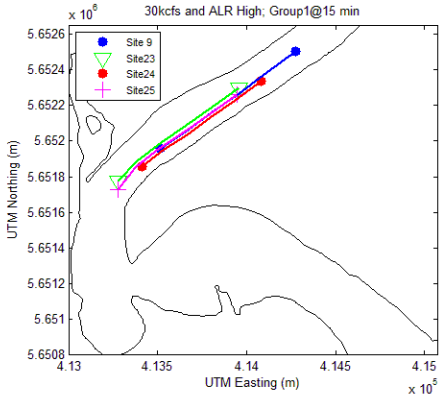
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group1@15 min
x 10^6
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UTM Northing (m)
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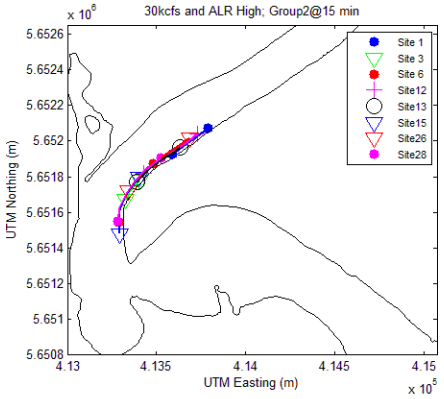
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
Site 1
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Site 6
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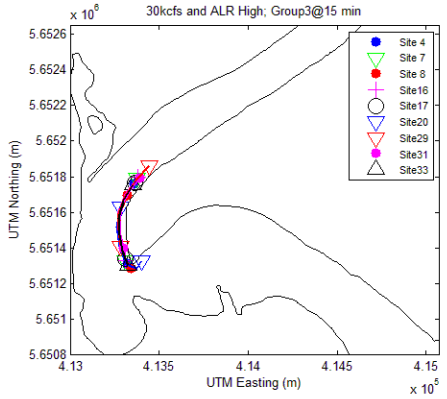
4.15
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
Site 4
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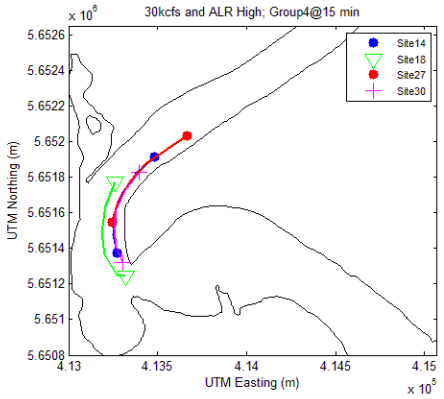
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group4@15 min
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UTM Northing (m)
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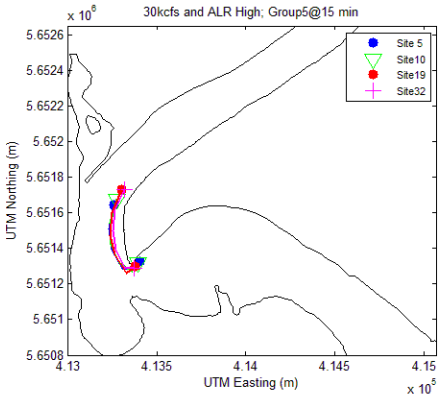
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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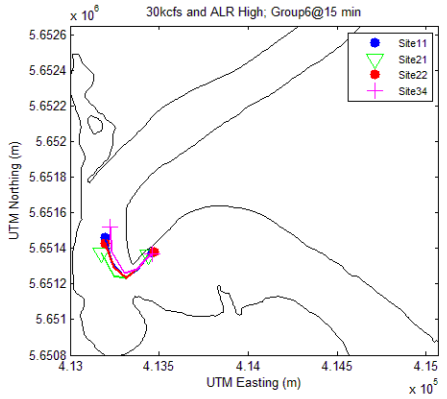
4.145
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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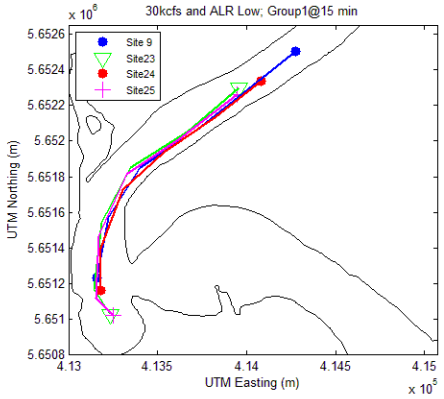
UTM Easting (m)
x 10^5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x 10^6
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5.6508
UTM Northing (m)
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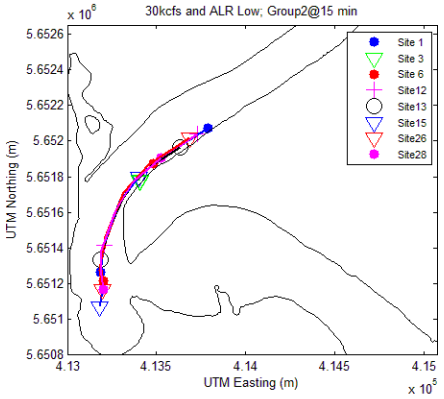
4.15
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
Site 1
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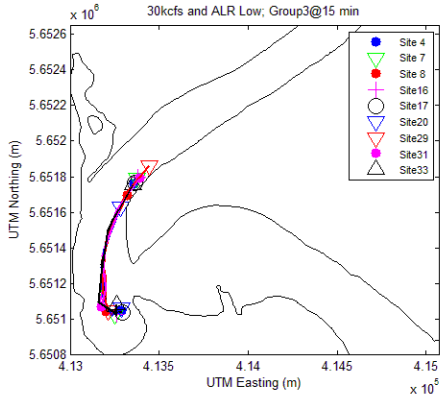
4.145
4.15
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
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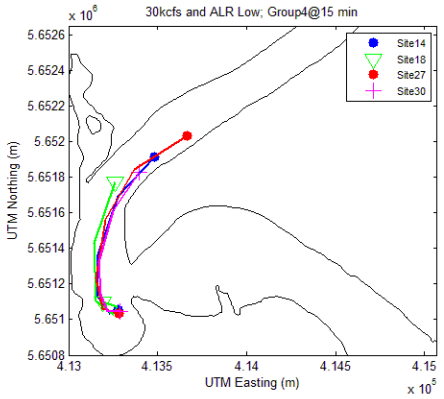
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group4@15 min
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UTM Northing (m)
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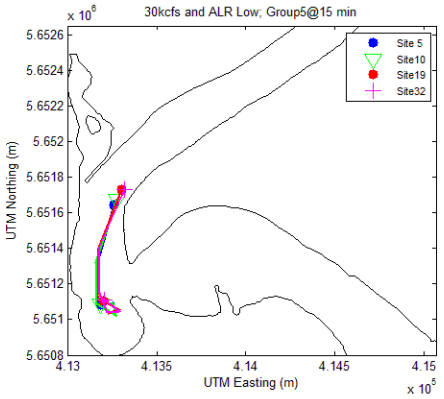
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group5@15 min
x 10^6
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UTM Northing (m)
Site 5
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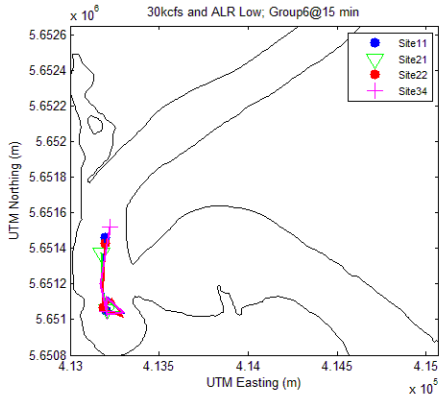
UTM Easting (m)
x 10^5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UTM Northing (m)
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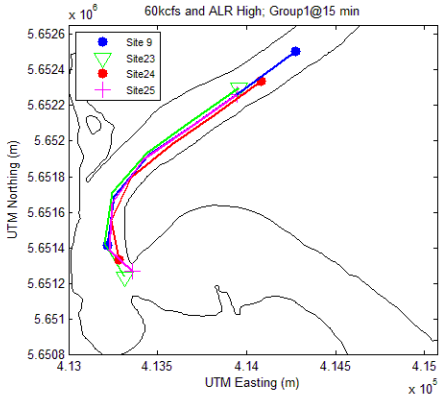
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group1@15 min
x 10^6
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UTM Northing (m)
Site 9
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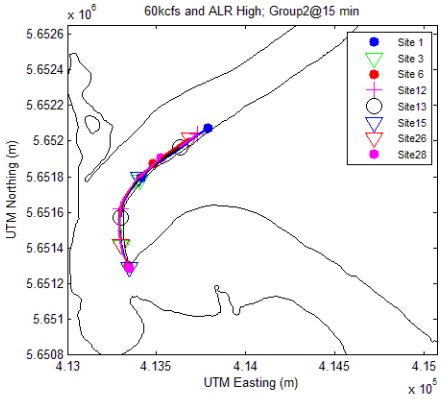
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group2@15 min
x 10^6
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5.6508
UTM Northing (m)
Site 1
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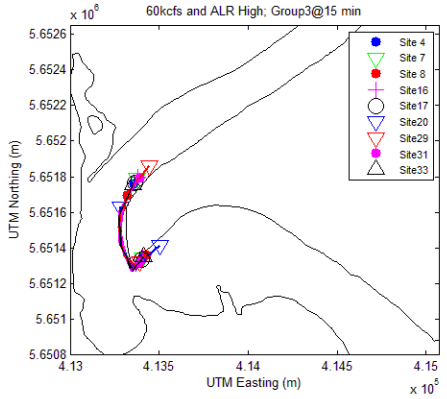
4.15
UTM Easting (m)
x 10^5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x 10^6
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5.6508
UTM Northing (m)
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Site31
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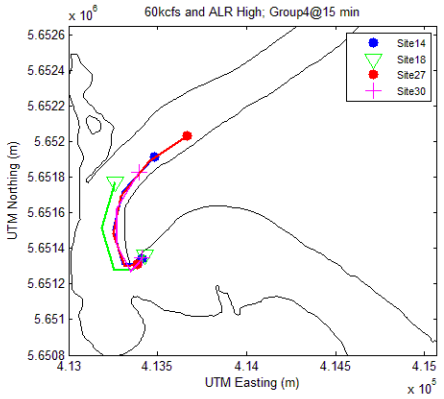
4.145
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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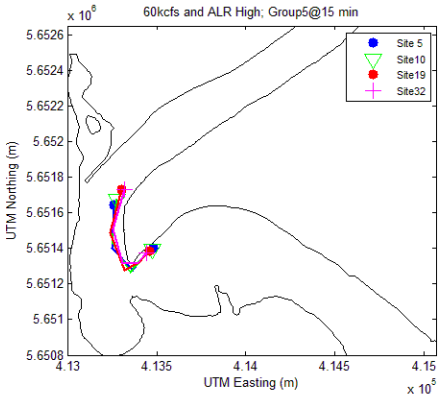
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group5@15 min
x 10^6
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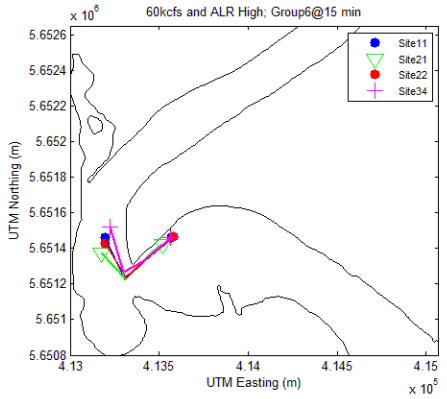
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group6@15 min
x 10^6
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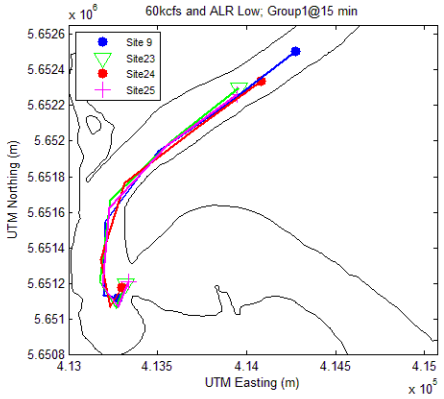
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group1@15 min
x 10^6
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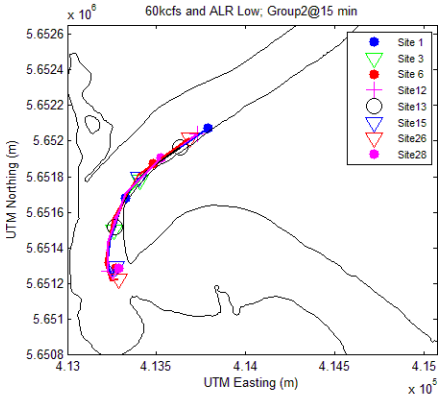
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group2@15 min
x 10^6
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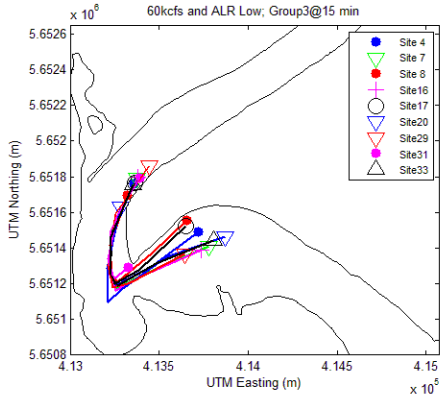
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group3@15 min
x 10^6
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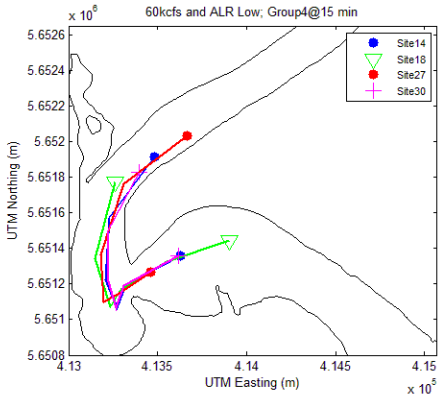
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group4@15 min
x 10^6
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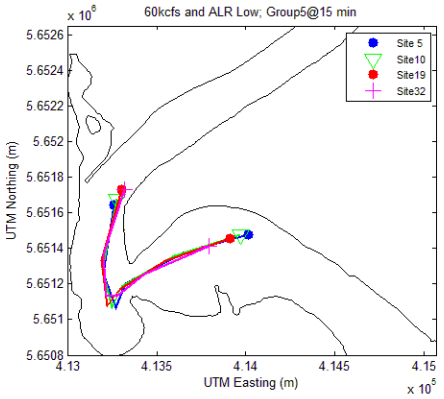
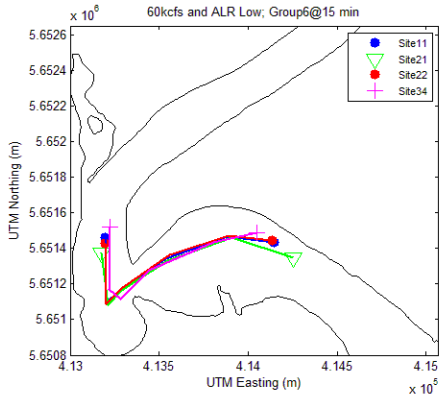
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group5@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group6@15 min
x 10^6
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5.6524
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5.652
5.6518
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5.6514
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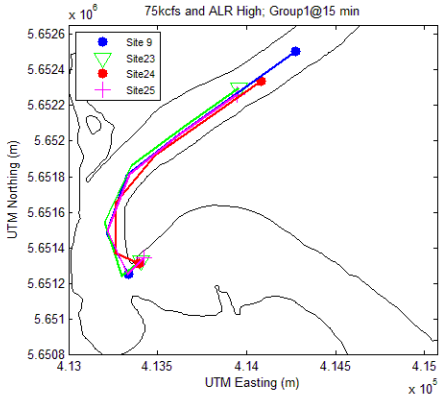
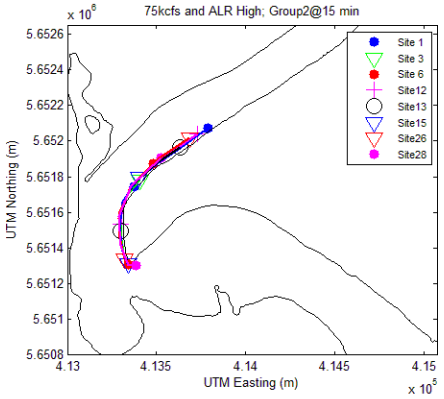
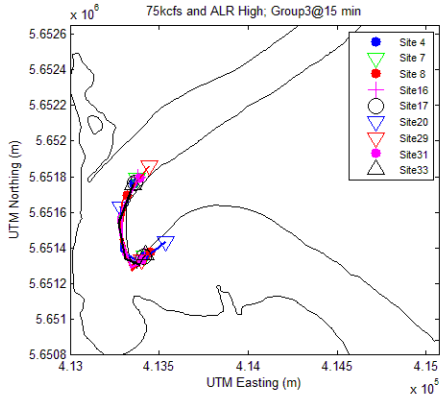
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group1@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group2@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group3@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
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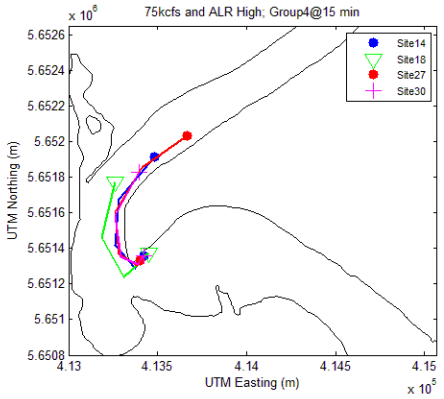
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group4@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
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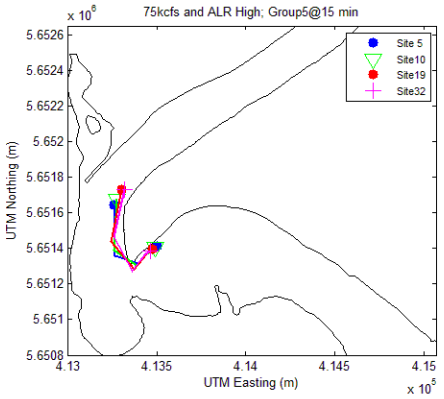
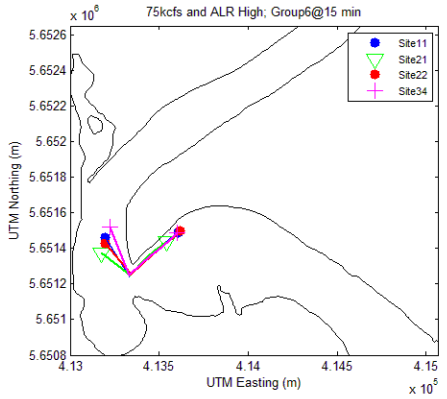
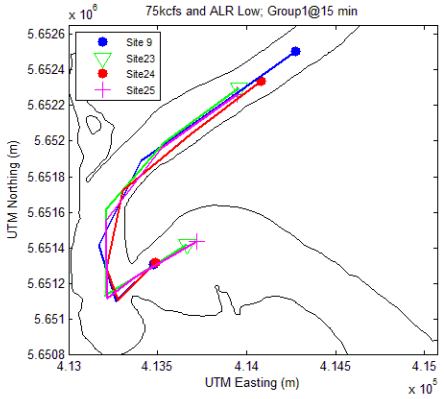
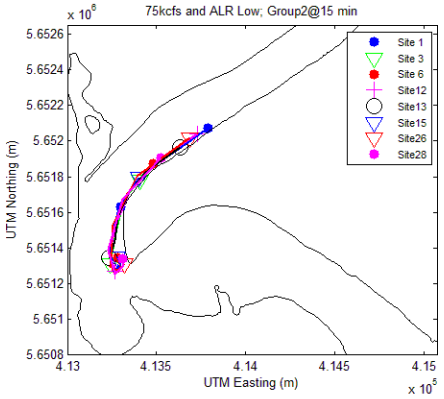
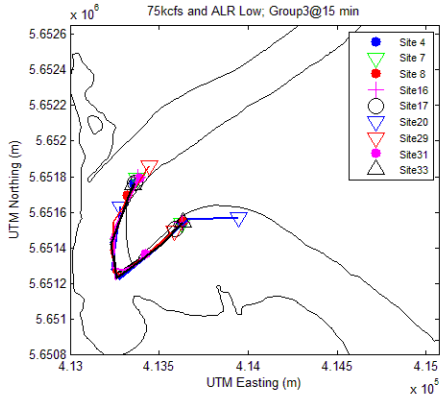
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

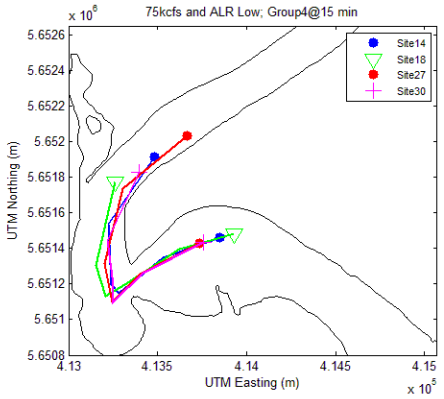

75kcfs and ALR High; Group5@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group6@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group1@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group2@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group3@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group4@15 min
x 10^6
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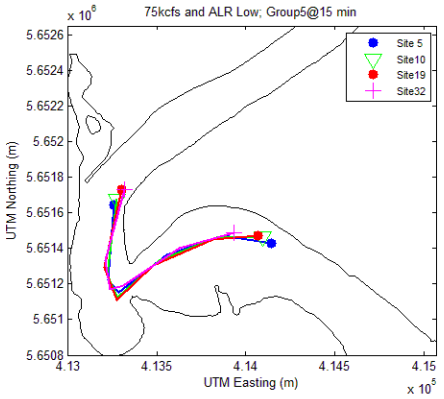
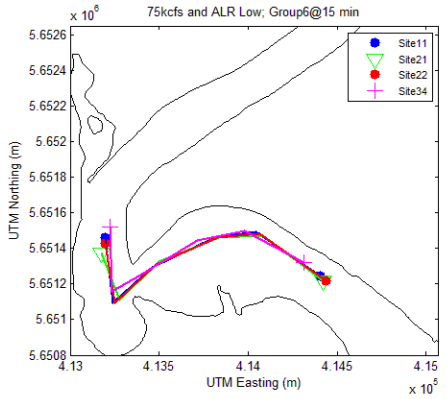
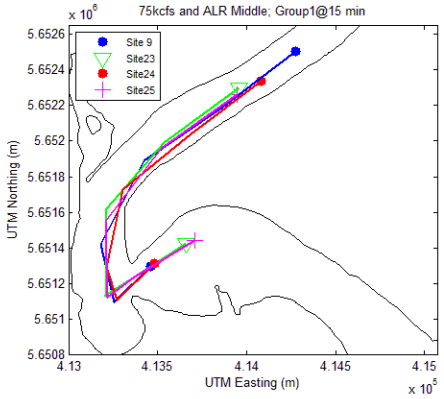
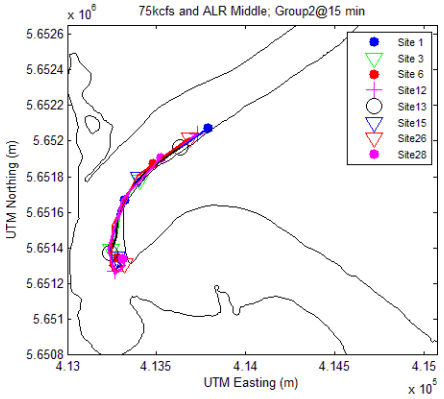
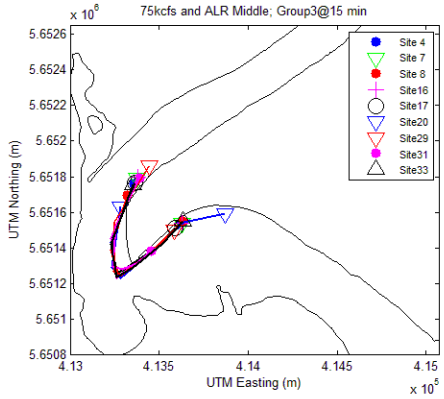
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

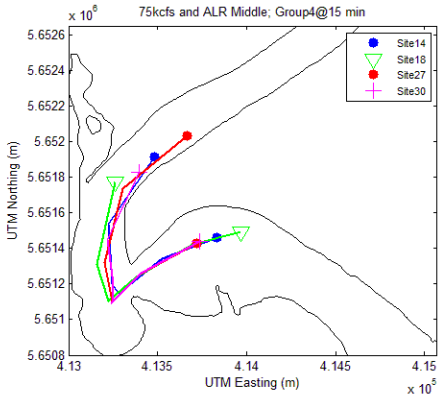

75kcfs and ALR Low; Group5@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

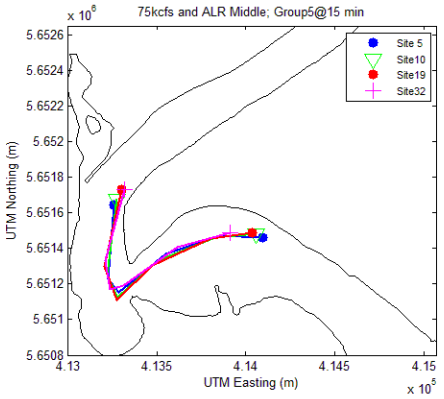

75kcfs and ALR Low; Group6@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

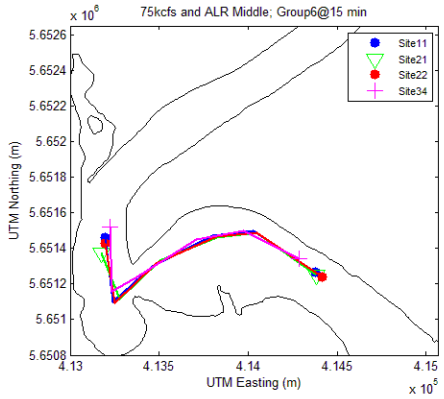

75kcfs and ALR Middle; Group1@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group2@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group3@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group4@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group5@15 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group6@15 min
x 10^6
5.6526
5.6524
5.6522
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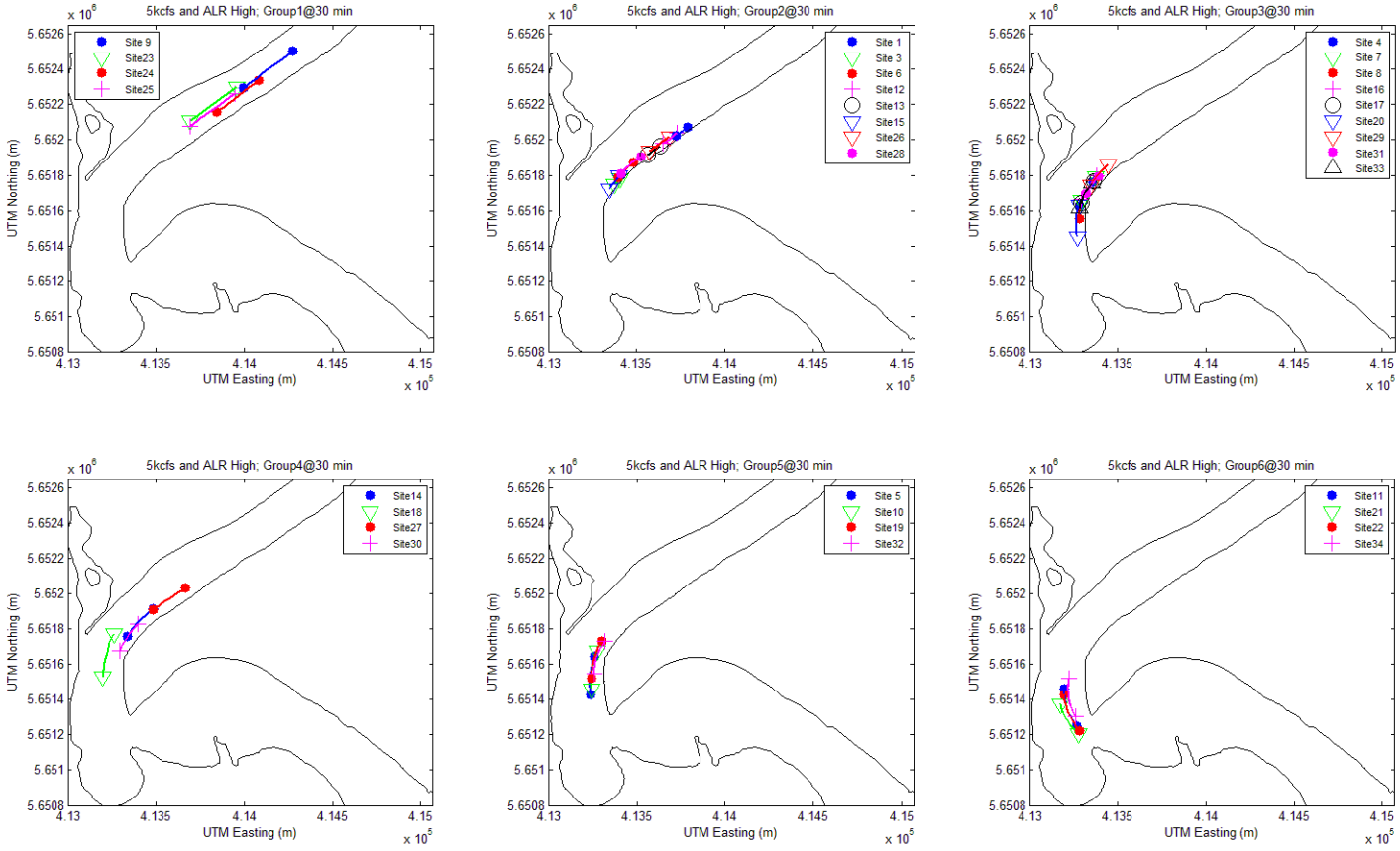
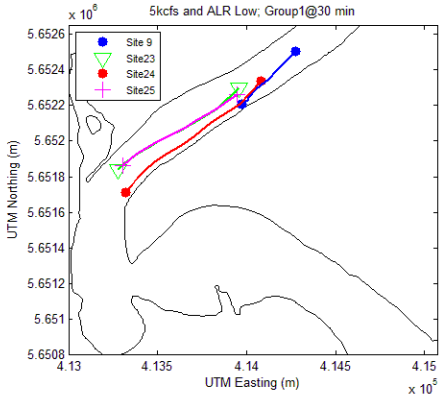
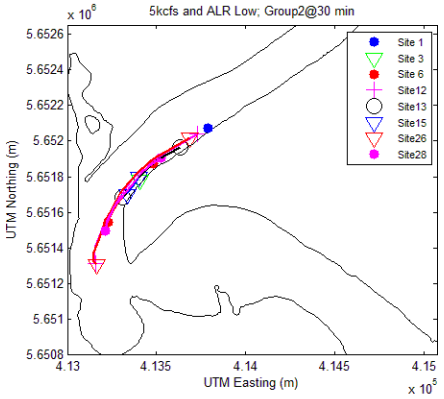
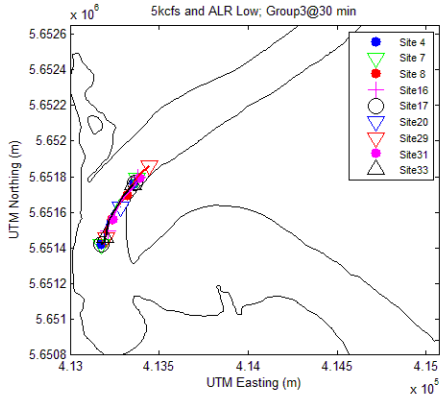
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

(2) Locations and tracks of the particles at 30 minutes after releasing




5kcfs and ALR Low; Group1@30 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group2@30 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group3@30 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
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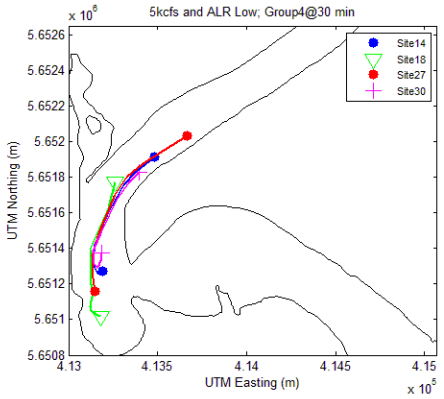
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group4@30 min
x 10^6
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5.6524
5.6522
5.652
5.6518
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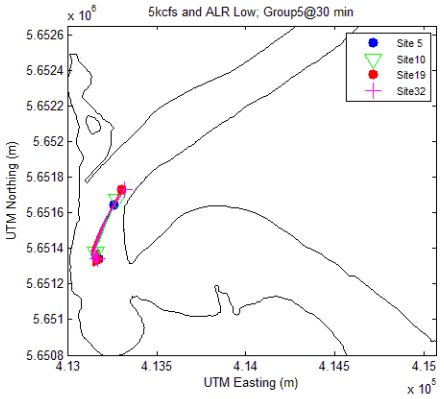
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5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5.6518
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5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
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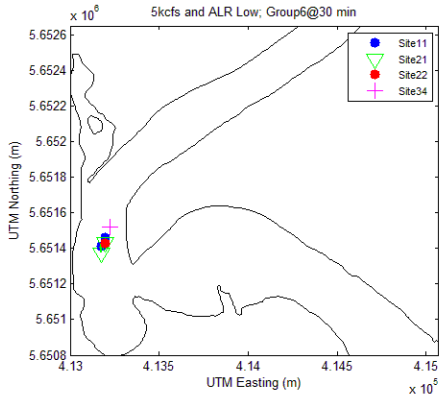
4.145
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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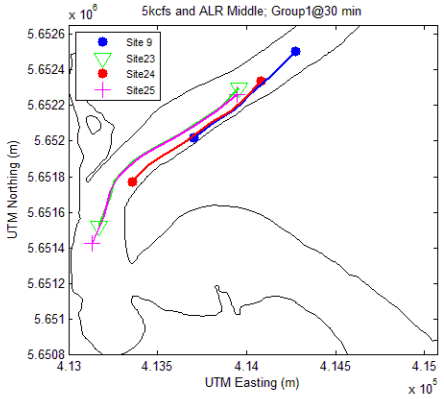
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
Site 9
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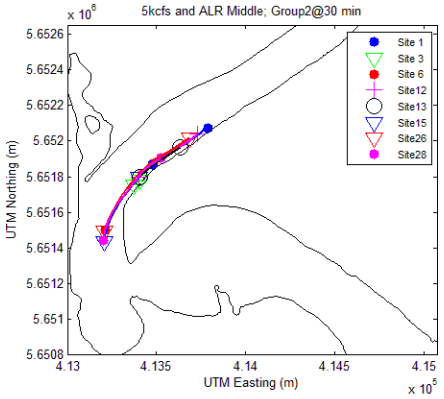
4.15
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
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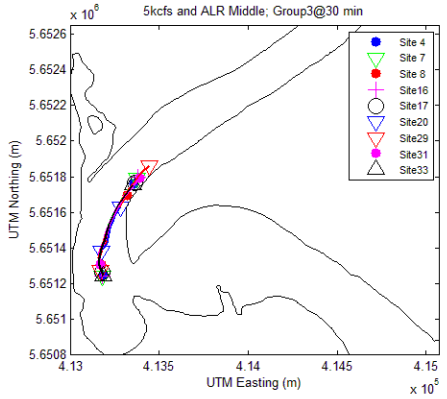
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group3@30 min
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5.6508
UTM Northing (m)
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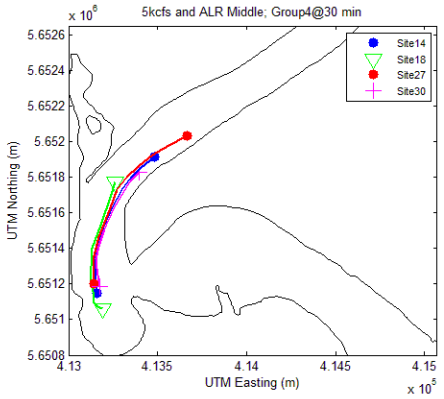
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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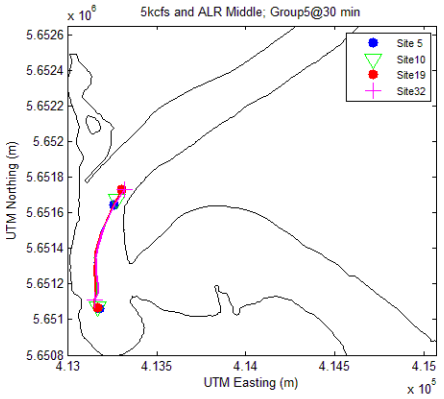
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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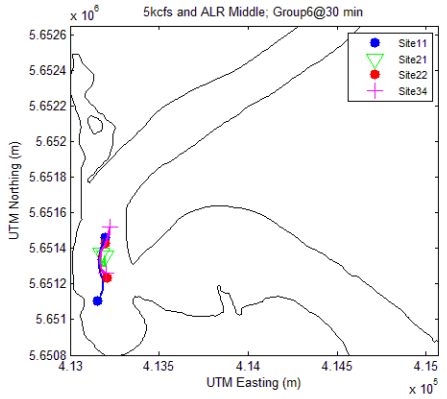
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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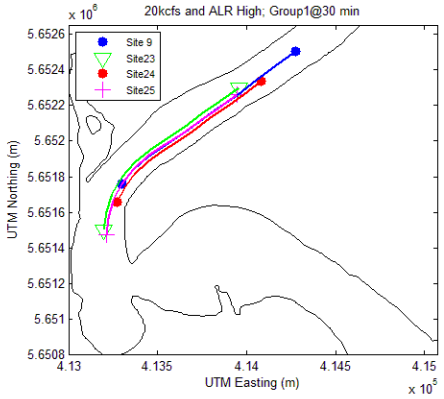
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group1@30 min
x 10^6
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UTM Northing (m)
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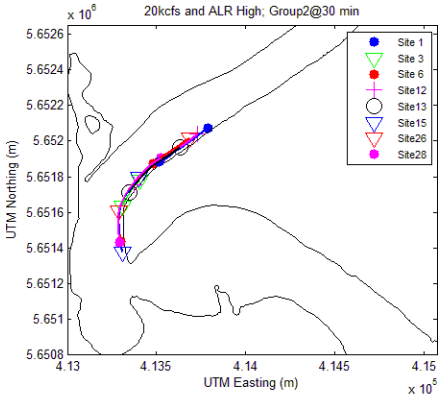
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group2@30 min
x 10^6
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UTM Northing (m)
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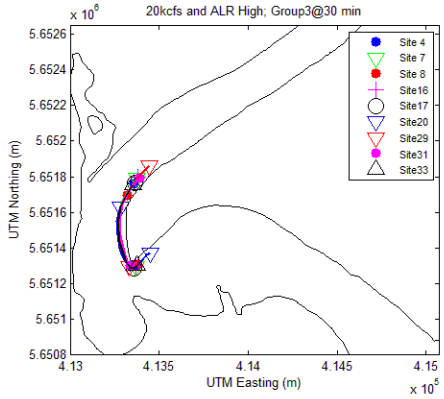
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group3@30 min
x 10^6
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UTM Northing (m)
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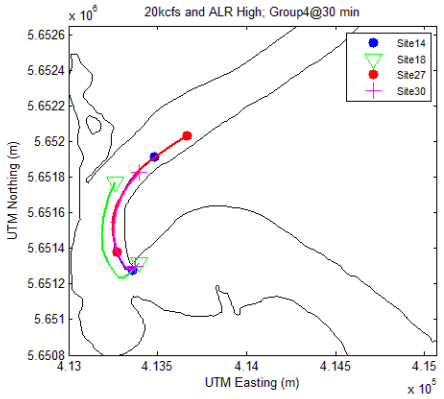
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group4@30 min
x 10^6
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UTM Northing (m)
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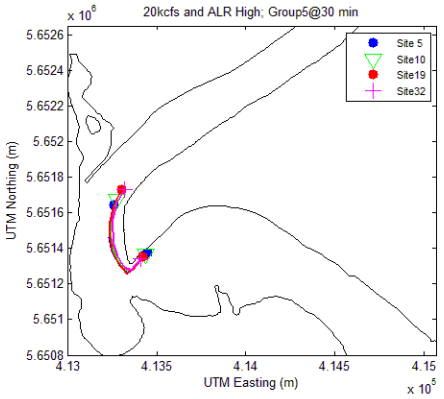
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group5@30 min
x 10^6
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UTM Northing (m)
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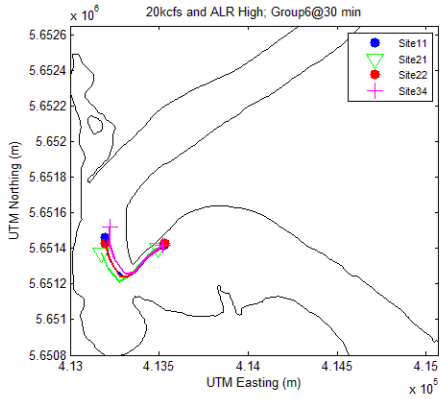
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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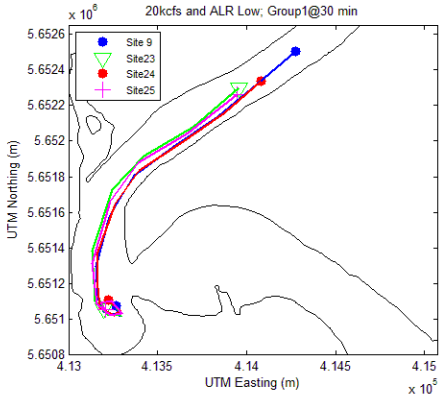
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group1@30 min
x 10^6
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UTM Northing (m)
Site 9
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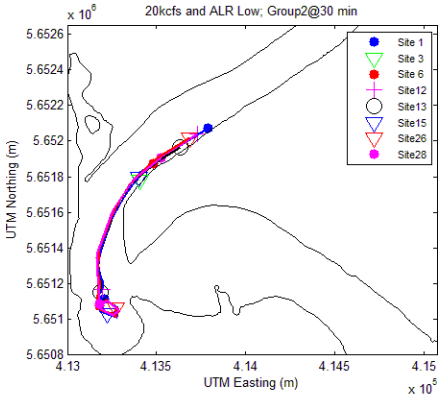
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group2@30 min
x 10^6
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UTM Northing (m)
Site 1
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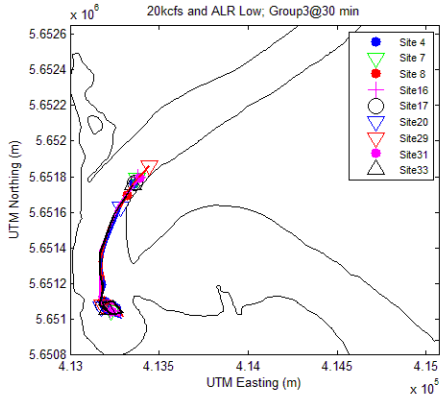
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group3@30 min
x 10^6
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UTM Northing (m)
Site 4
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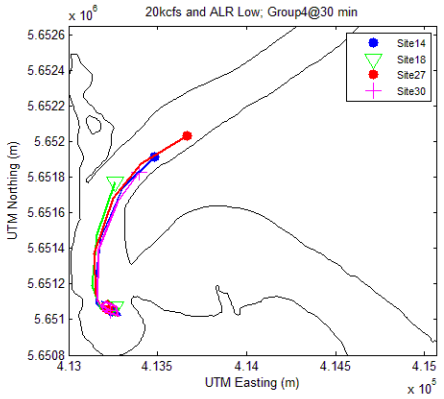
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group4@30 min
x 10^6
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UTM Northing (m)
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Site30
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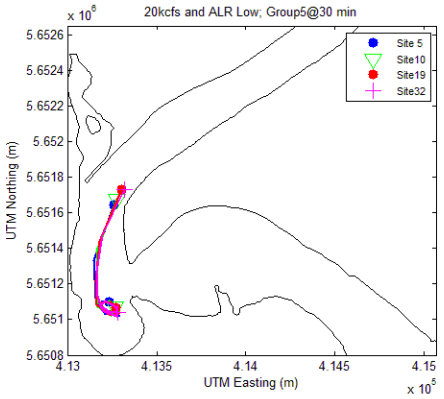
4.145
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
Site 5
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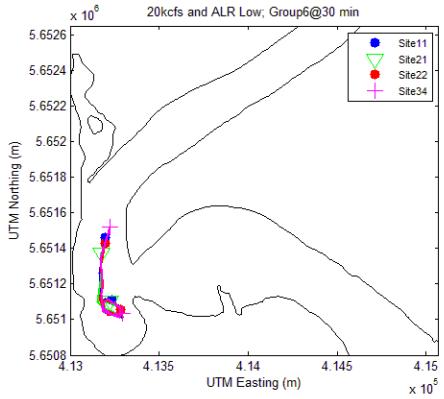
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group6@30 min
x 10^6
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UTM Northing (m)
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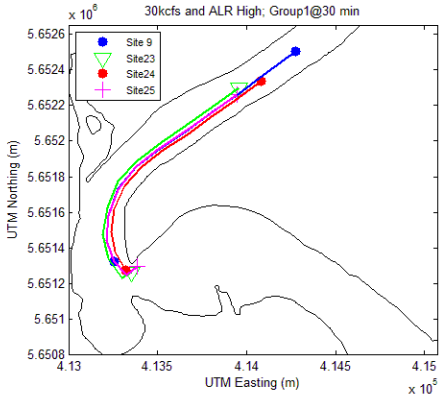
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group1@30 min
x 10^6
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UTM Northing (m)
Site 9
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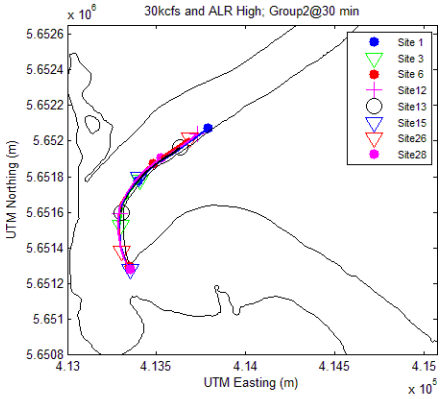
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group2@30 min
x 10^6
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5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
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Site28
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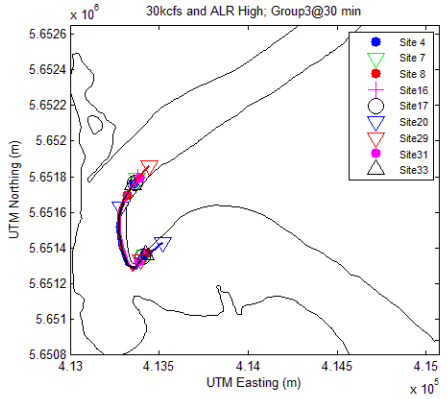
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group3@30 min
x 10^6
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5.6508
UTM Northing (m)
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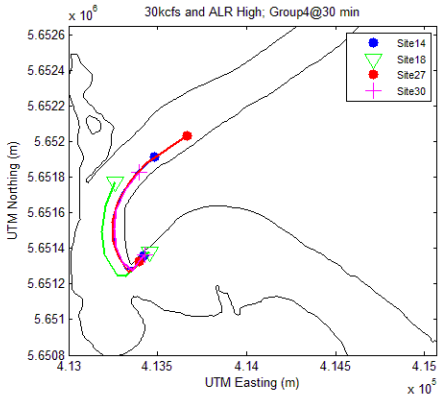
4.145
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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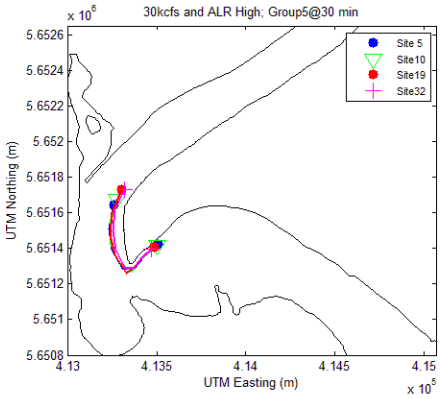
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group5@30 min
x 10^6
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UTM Northing (m)
Site 5
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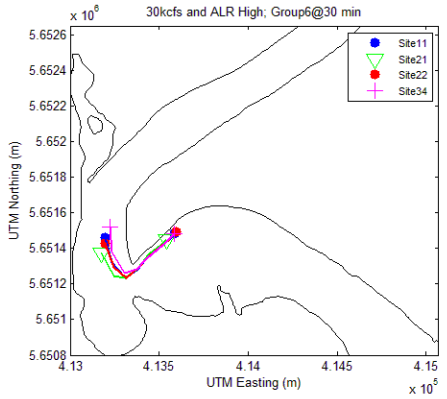
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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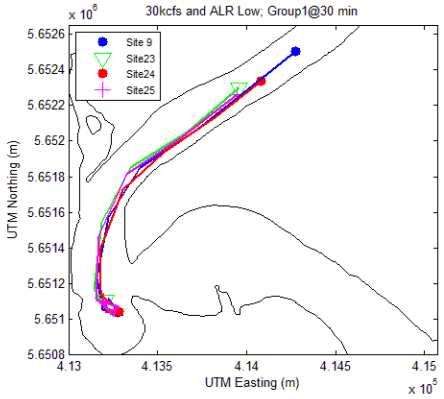
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group1@30 min
x 10^6
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5.6508
UTM Northing (m)
Site 9
Site23
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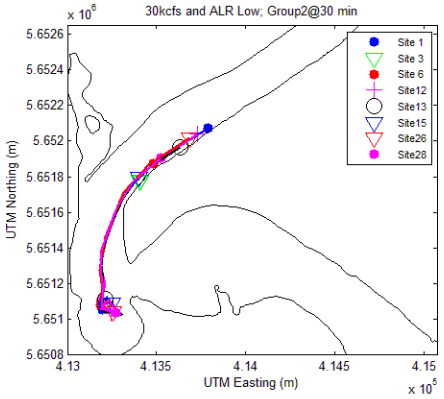
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group2@30 min
x 10^6
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UTM Northing (m)
Site 1
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Site28
4.13
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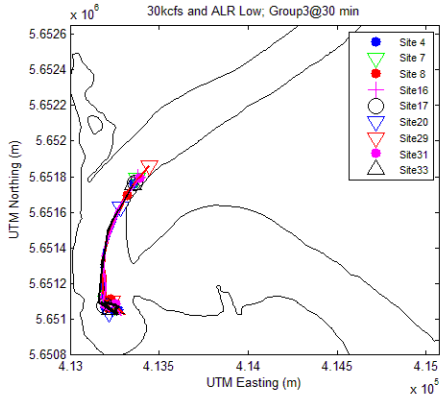
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group3@30 min
x 10^6
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5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
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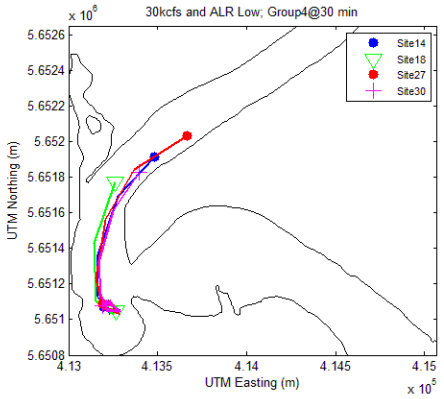
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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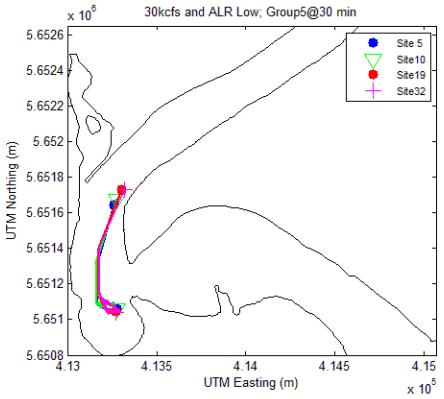
4.15
UTM Easting (m)
x 10^5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5.6508
UTM Northing (m)
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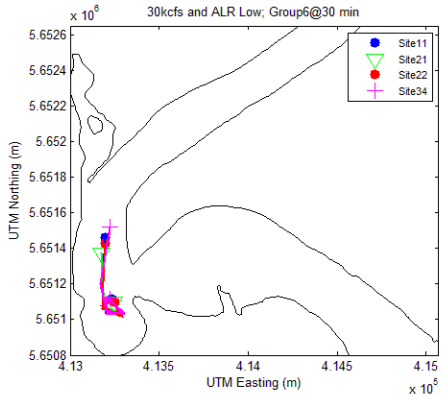
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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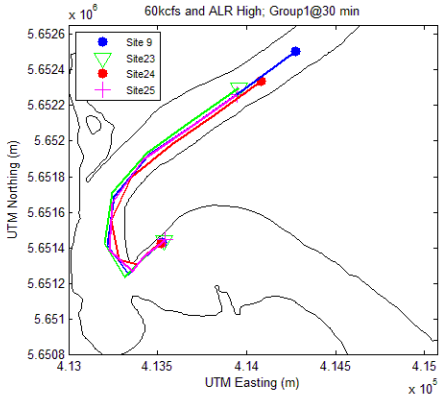
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 9
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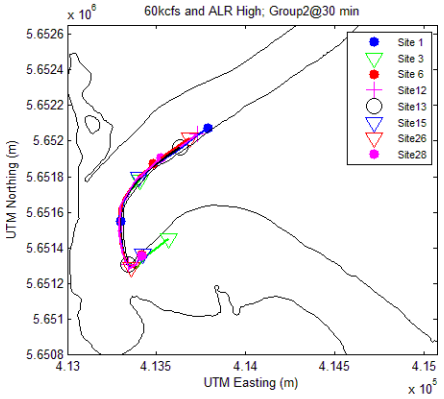
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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 1
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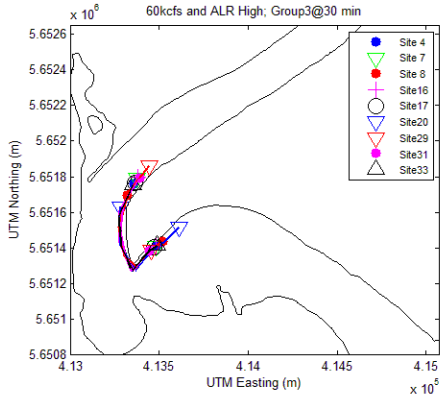
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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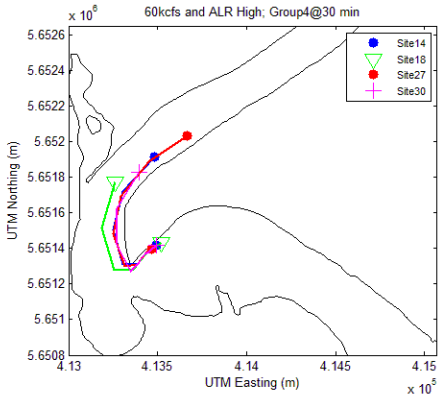
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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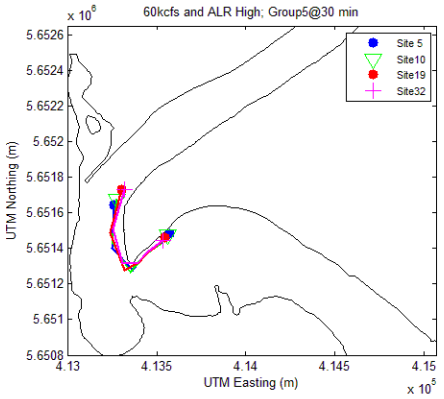
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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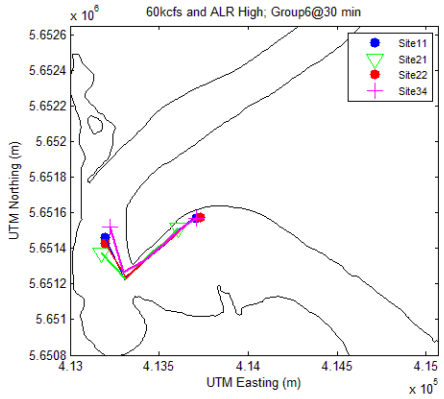
60kcfs and ALR High; Group6@30 min
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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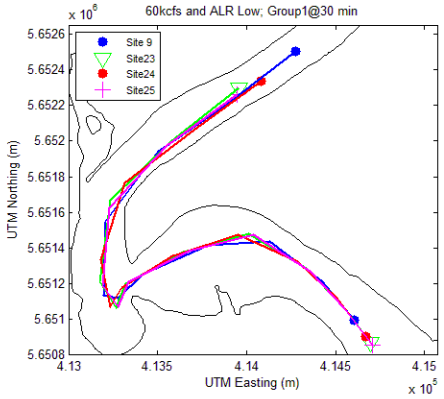
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x 10^6
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UTM Northing (m)
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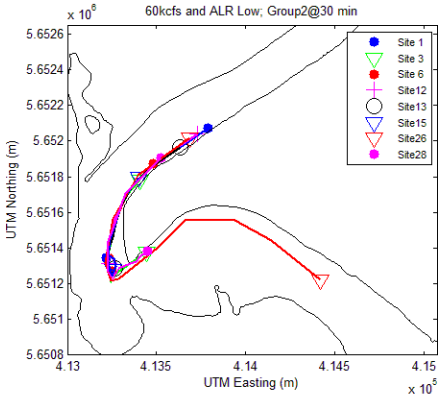
UTM Easting (m)
x 10^5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UTM Northing (m)
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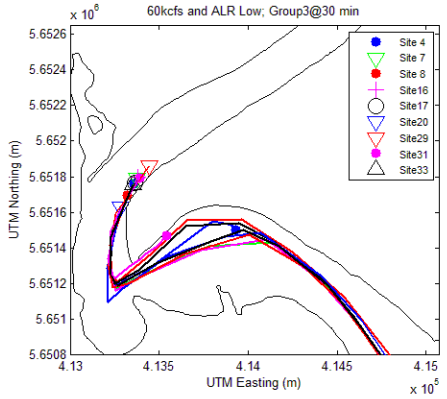
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group3@30 min
x 10^6
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UTM Northing (m)
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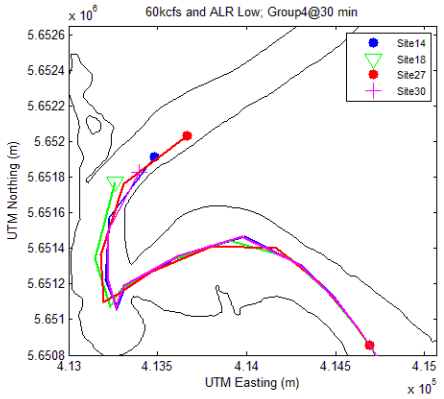
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group4@30 min
x 10^6
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UTM Northing (m)
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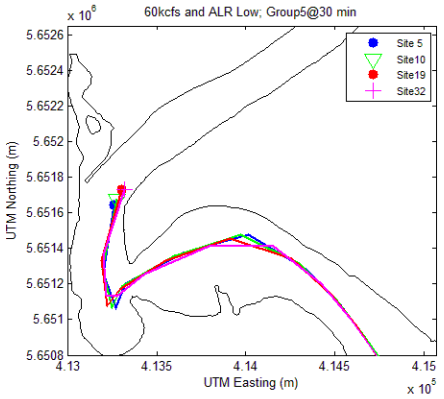
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group5@30 min
x 10^6
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UTM Northing (m)
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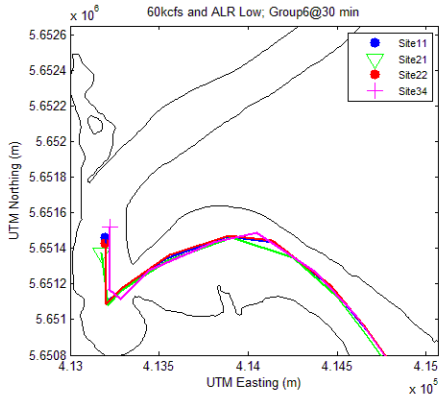
UTM Easting (m)
x 10^5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UTM Northing (m)
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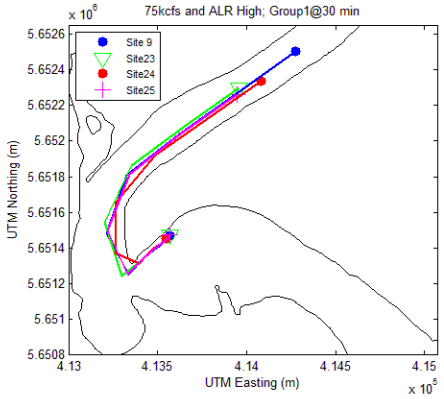
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group1@30 min
x 10^6
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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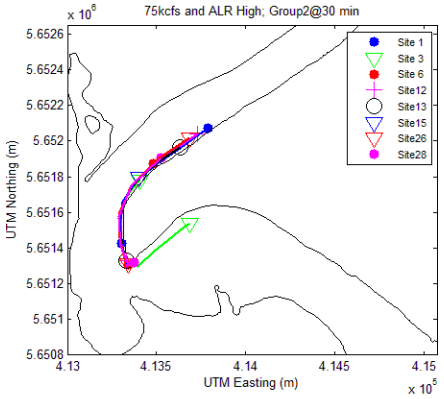
75kcfs and ALR High; Group2@30 min
x 10^6
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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 1
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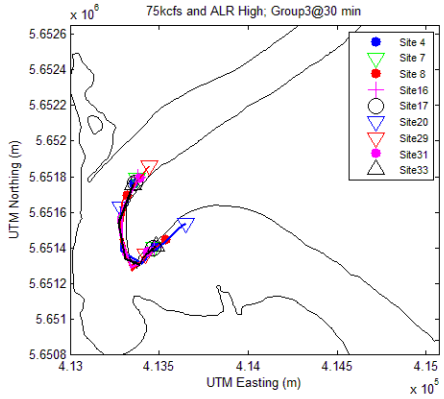
75kcfs and ALR High; Group3@30 min
x 10^6
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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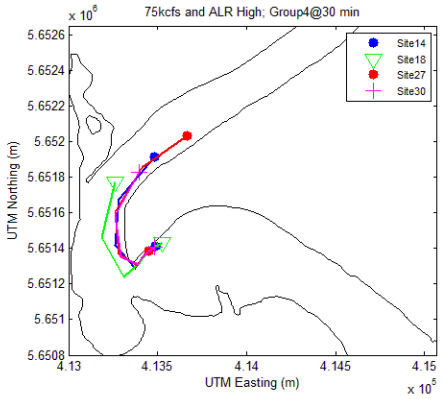
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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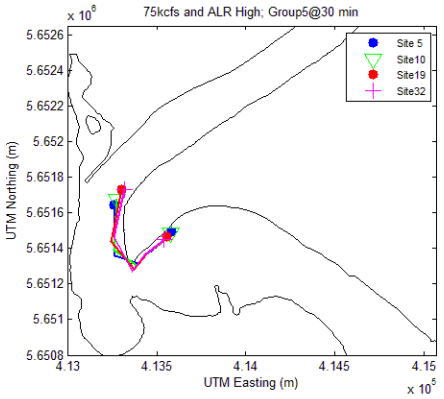
Site30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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 5
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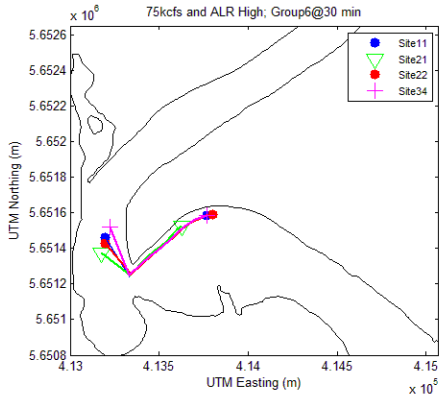
Site32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UTM Northing (m)
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UTM Easting (m)
x 10^5
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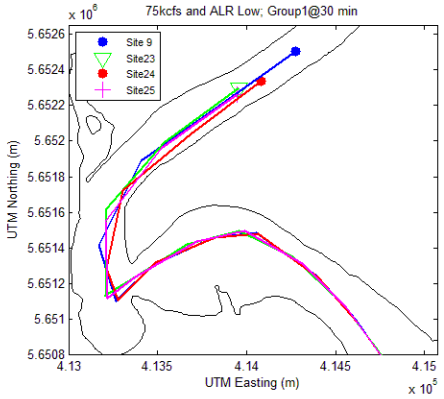
75kcfs and ALR Low; Group1@30 min
x 10^6
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UTM Northing (m)
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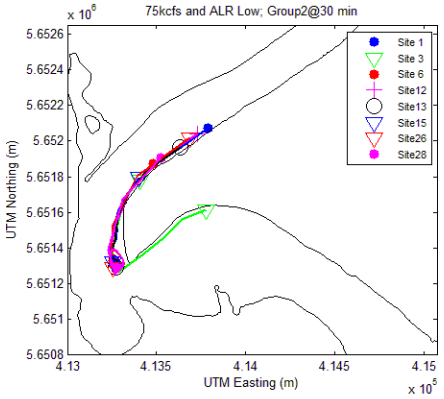
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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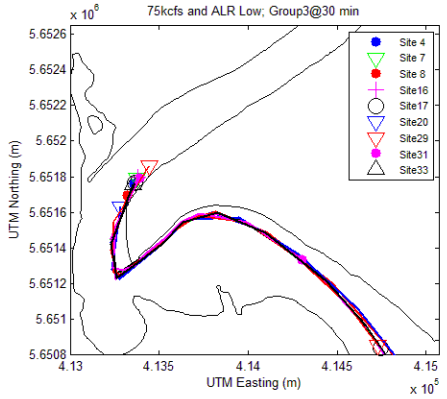
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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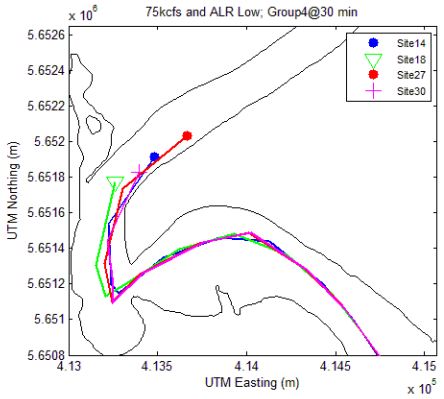
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group4@30 min
x 10^6
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UTM Northing (m)
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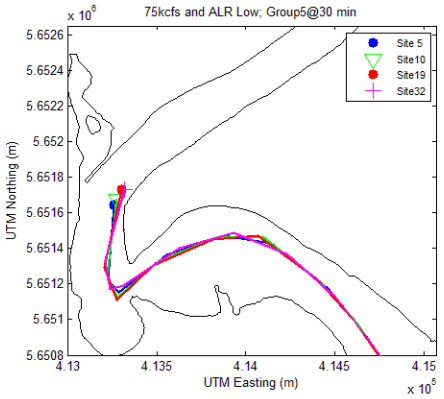
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group5@30 min
x 10^6
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UTM Northing (m)
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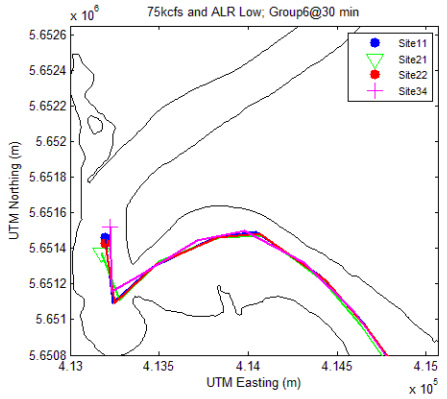
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
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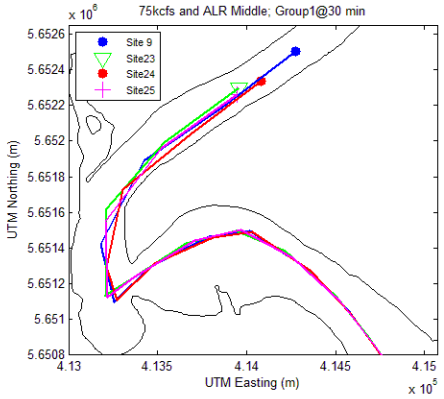
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group1@30 min
x 10^6
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UTM Northing (m)
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4.15
UTM Easting (m)
x 10^5
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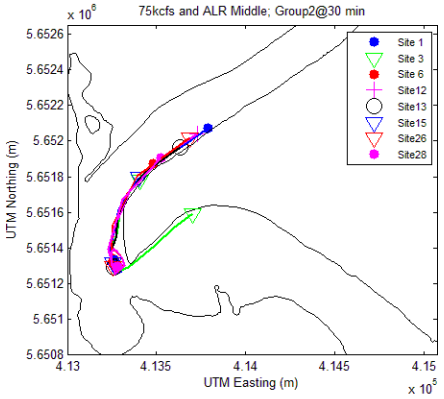
75kcfs and ALR Middle; Group2@30 min
x 10^6
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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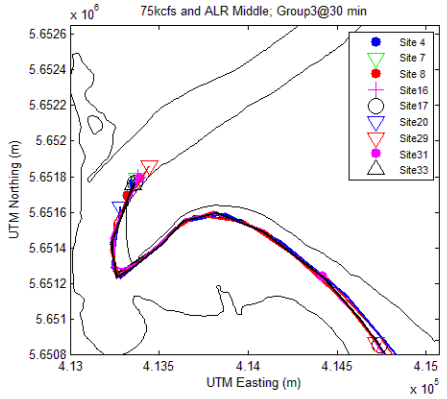
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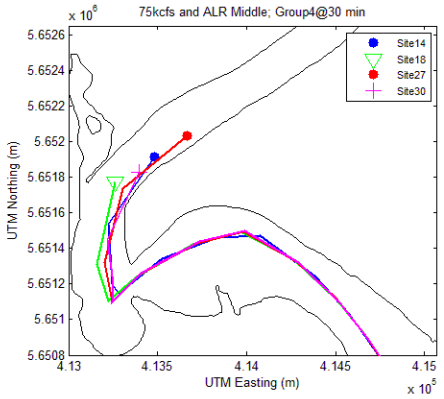
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33


75kcfs and ALR Middle; Group4@30 min
x 10^6
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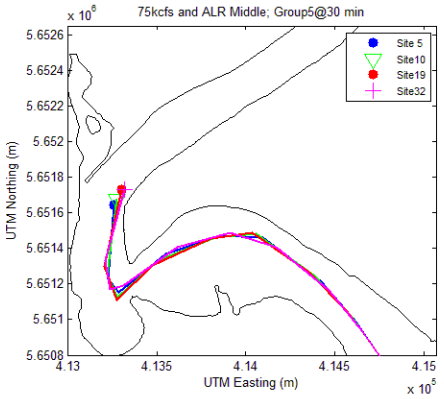
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site14
Site18
Site27
Site30


75kcfs and ALR Middle; Group5@30 min
x 10^6
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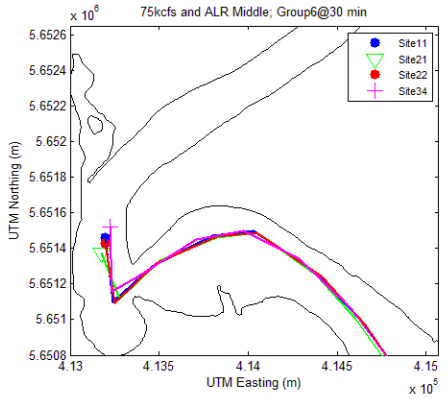
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 5
Site10
Site19
Site32


75kcfs and ALR Middle; Group6@30 min
x 10^6
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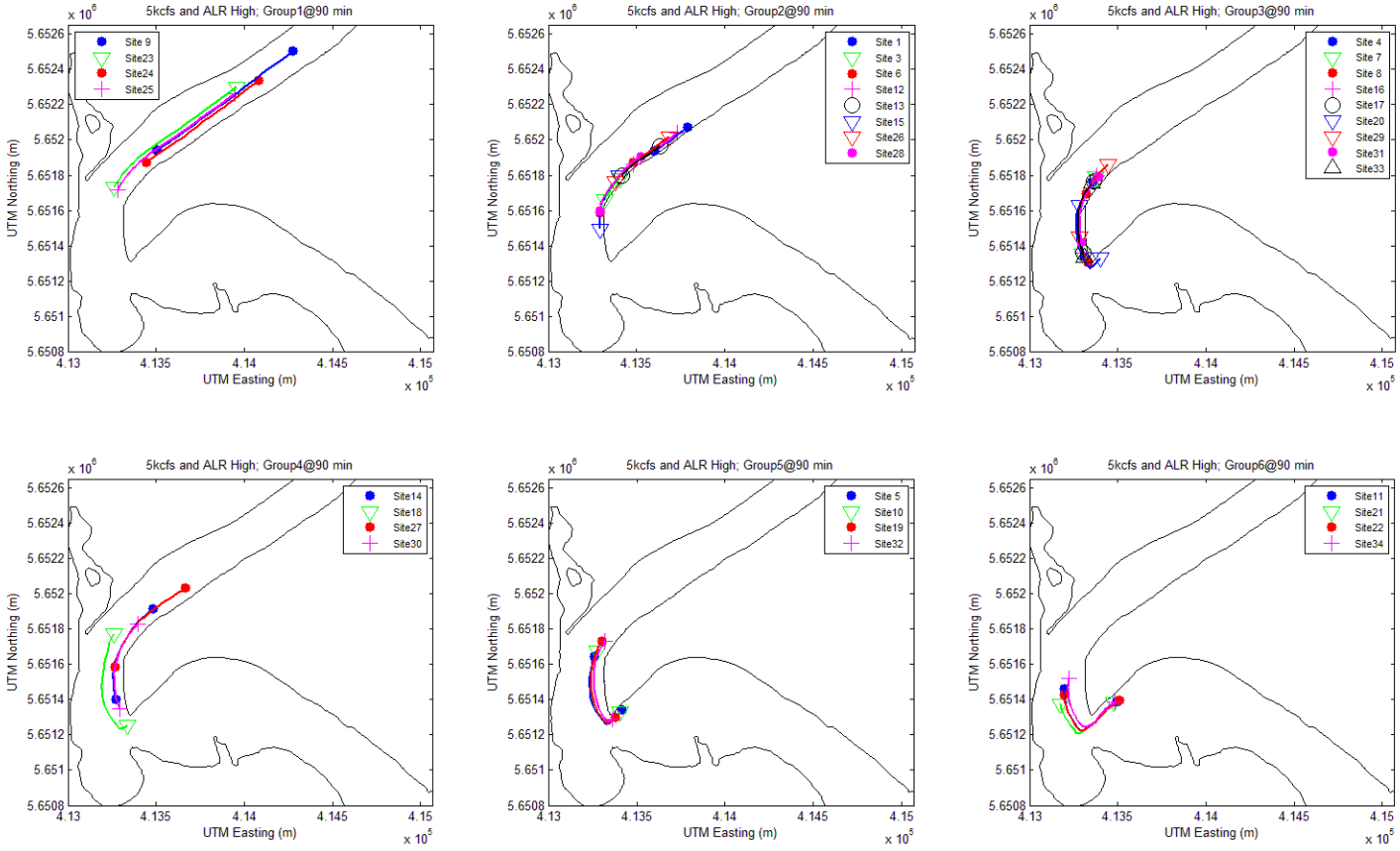
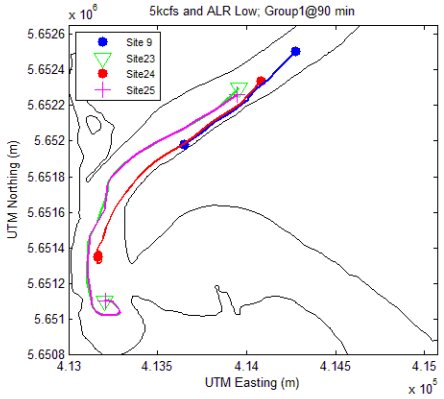
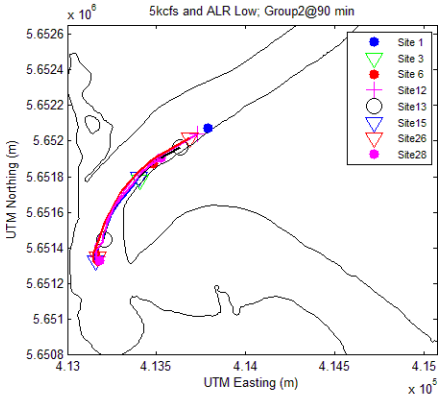
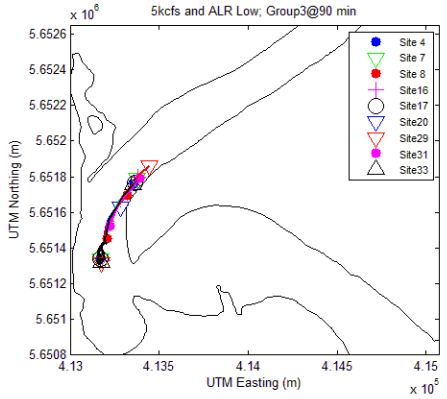
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site11
Site21
Site22
Site34

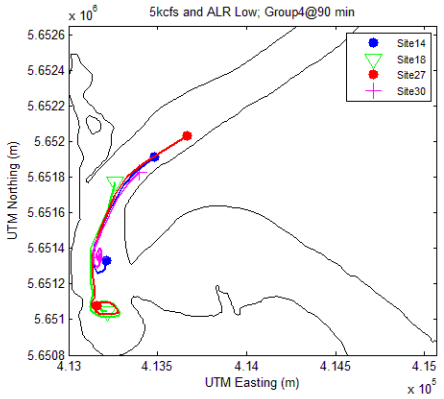
(3) Locations and tracks of the particles at 90 minutes after releasing




5kcfs and ALR Low; Group1@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group2@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group3@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group4@90 min
x 10^6
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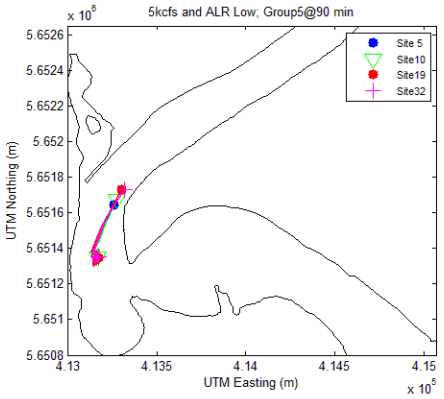
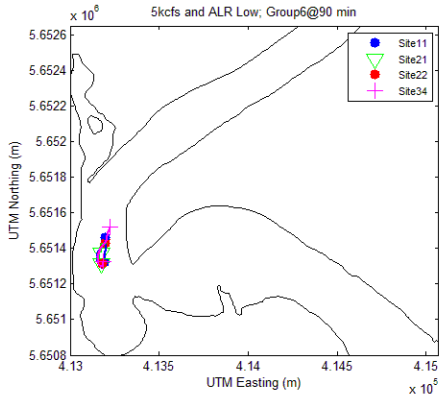
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group5@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group6@90 min
x 10^6
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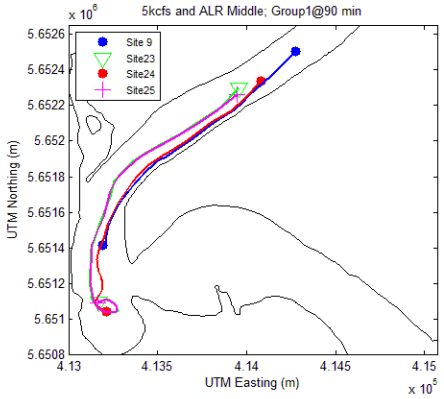
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Middle; Group1@90 min
x 10^6
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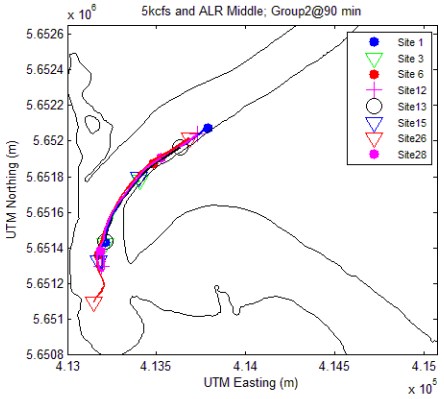
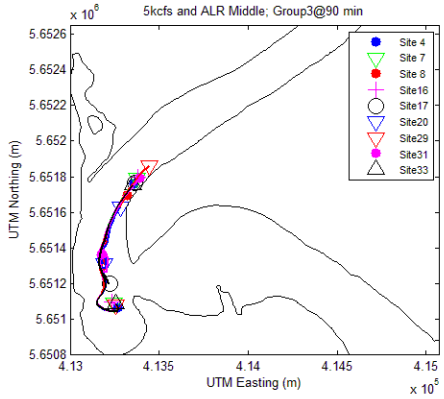
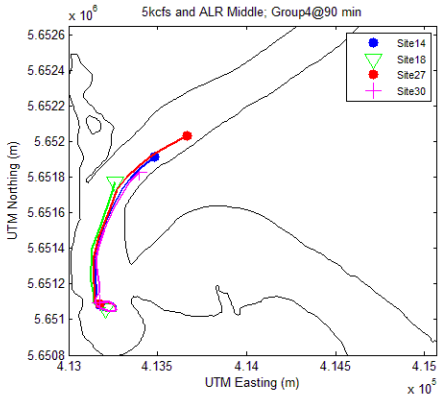
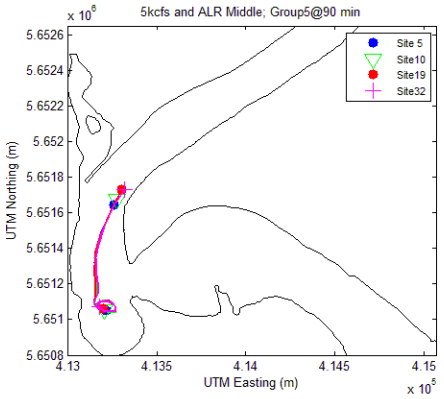
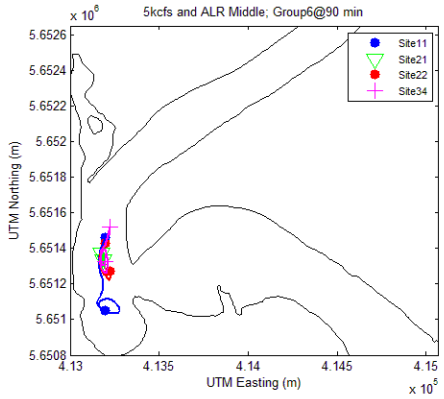
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
x 10^5
UTM Easting (m)
Site 9
Site23
Site24
Site25

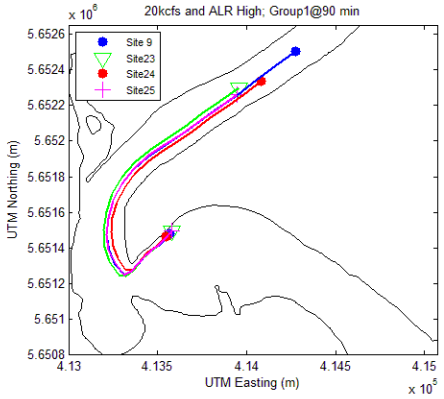

5kcfs and ALR Middle; Group2@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
x 10^5
UTM Easting (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28


5kcfs and ALR Middle; Group3@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
x 10^5
UTM Easting (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33


5kcfs and ALR Middle; Group4@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
x 10^5
UTM Easting (m)
Site14
Site18
Site27
Site30


5kcfs and ALR Middle; Group5@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
x 10^5
UTM Easting (m)
Site 5
Site10
Site19
Site32


5kcfs and ALR Middle; Group6@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
x 10^5
UTM Easting (m)
Site11
Site21
Site22
Site34


20kcfs and ALR High; Group1@90 min
x 10^6
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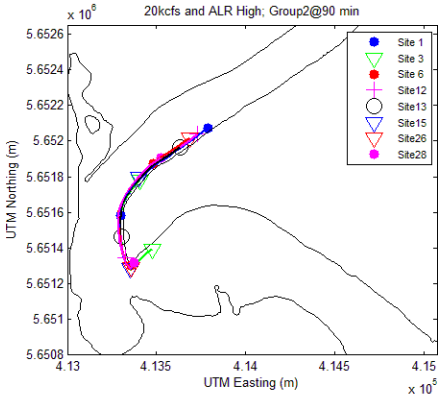
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group2@90 min
x 10^6
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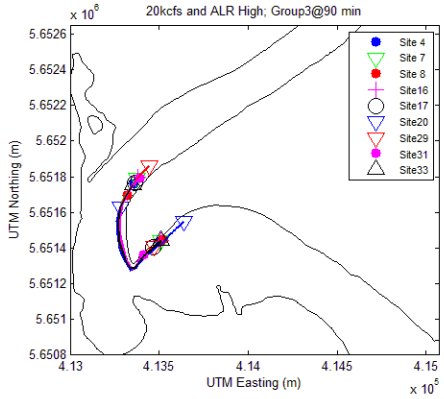
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group3@90 min
x 10^6
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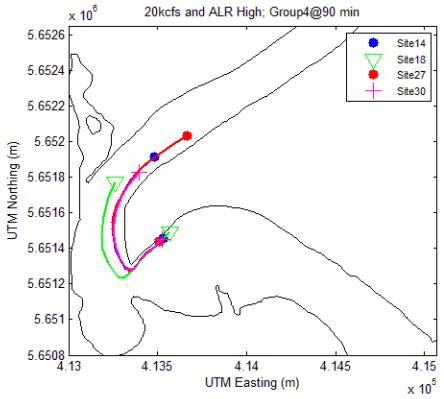
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group4@90 min
x 10^6
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5.6524
5.6522
5.652
5.6518
5.6516
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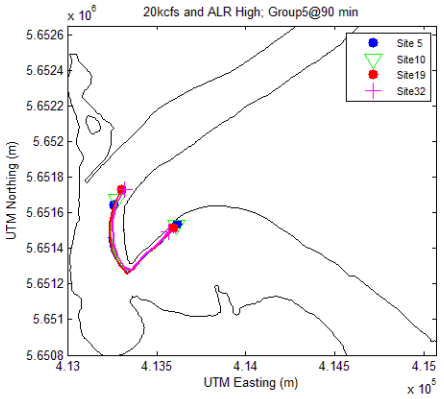
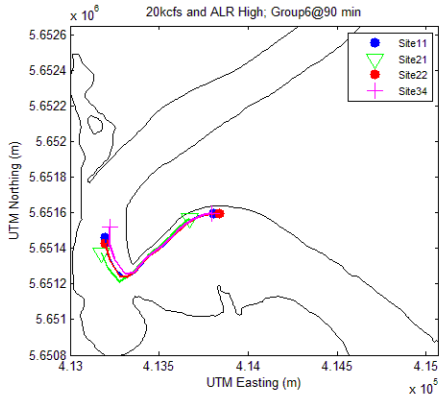
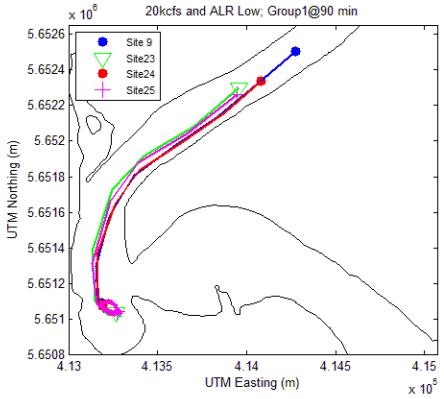
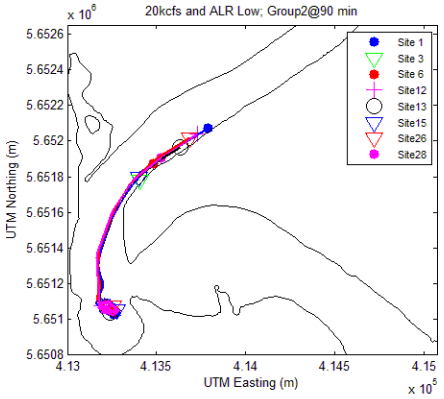
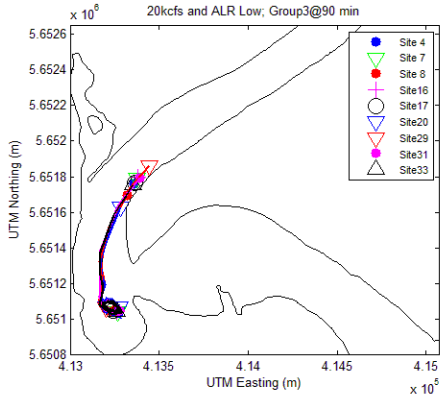
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

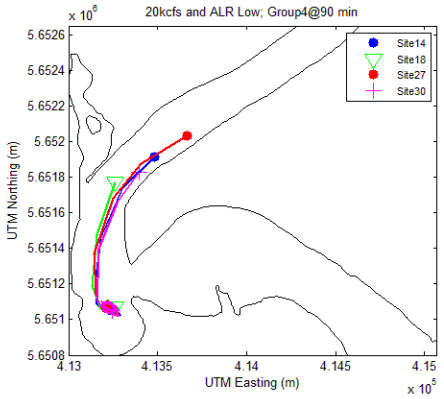

20kcfs and ALR High; Group5@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

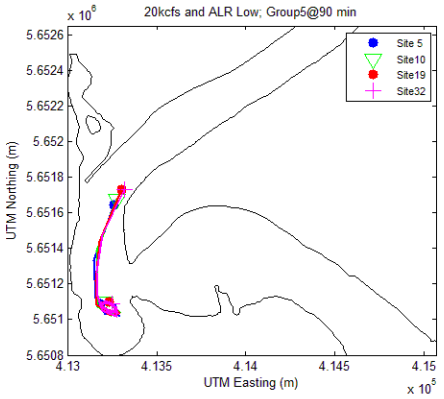

20kcfs and ALR High; Group6@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

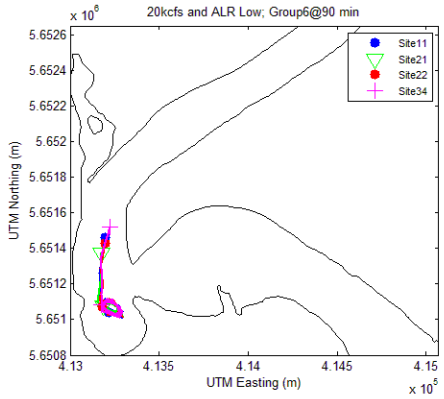

20kcfs and ALR Low; Group1@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

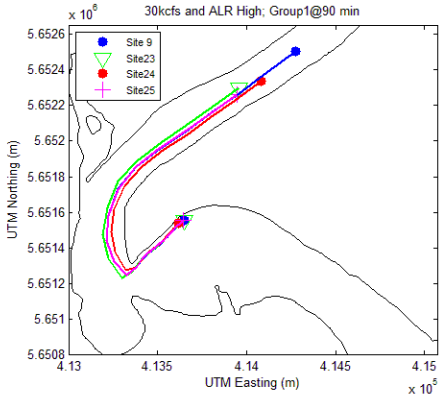

20kcfs and ALR Low; Group2@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

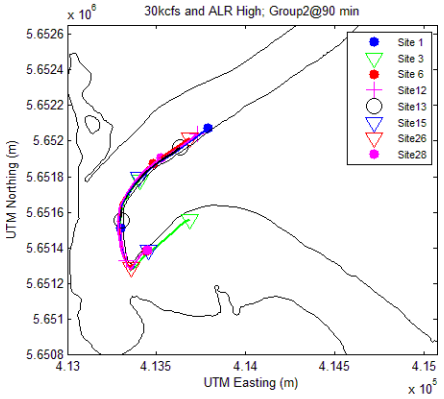

20kcfs and ALR Low; Group3@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

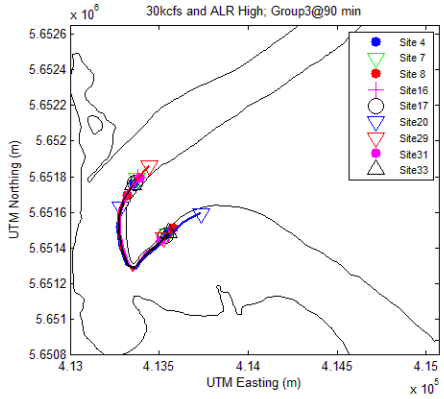

20kcfs and ALR Low; Group4@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group5@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group6@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group1@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 9
Site23
Site24
Site25


30kcfs and ALR High; Group2@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28


30kcfs and ALR High; Group3@90 min
x 10^6
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5.6524
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5.6518
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5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 4
Site 7
Site 8
Site16
Site17
Site20
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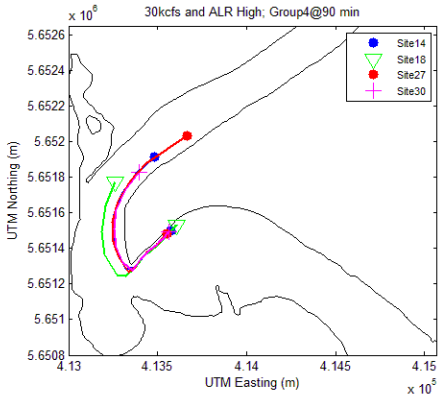
Site31
Site33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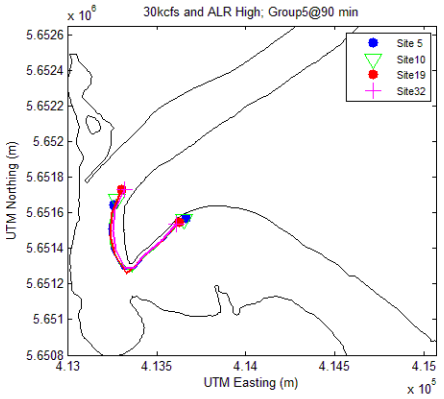
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site14
Site18
Site27
Site30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5.6518
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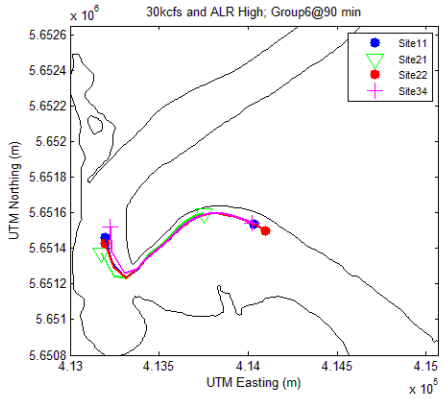
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 5
Site10
Site19
Site32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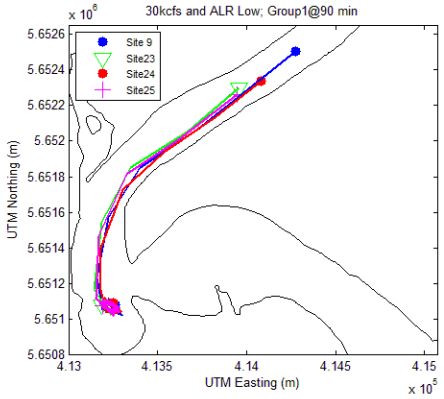
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site11
Site21
Site22
Site34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x 10^6
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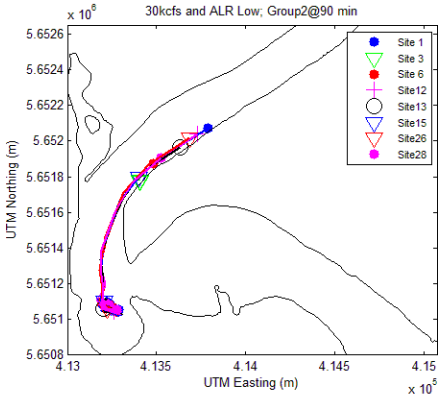
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group2@90 min
x 10^6
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5.6518
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5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
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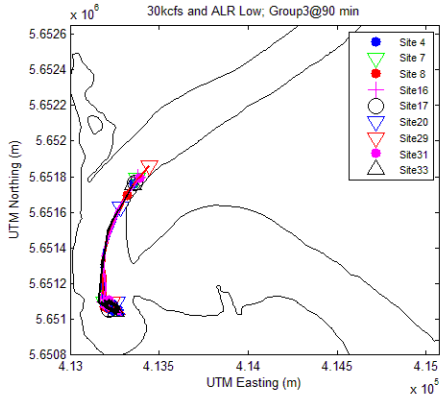
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group3@90 min
x 10^6
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5.651
5.6508
UTM Northing (m)
Site 4
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Site31
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4.13
4.135
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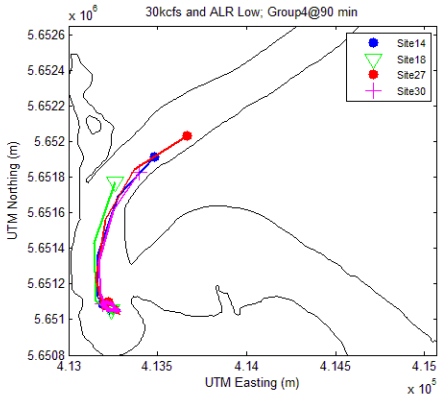
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group4@90 min
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5.6518
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UTM Northing (m)
Site14
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Site30
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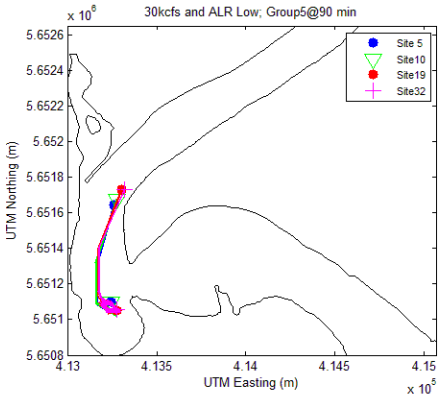
4.14
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group5@90 min
x 10^6
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UTM Northing (m)
Site 5
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Site32
4.13
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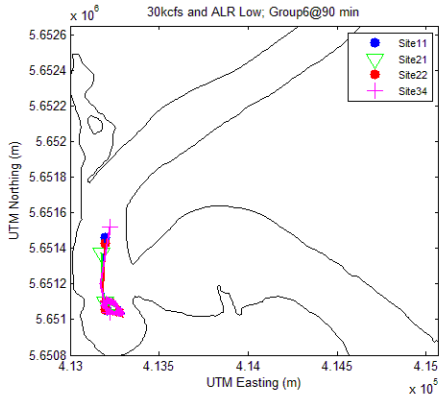
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR Low; Group6@90 min
x 10^6
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UTM Northing (m)
Site11
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Site22
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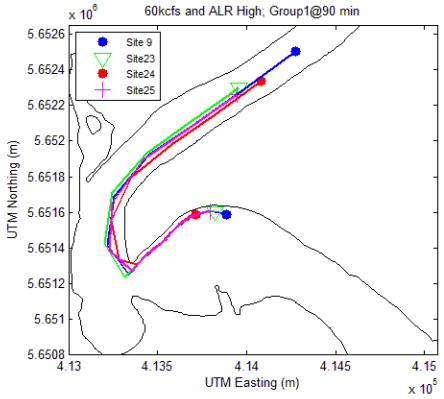
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group1@90 min
x 10^6
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UTM Northing (m)
Site 9
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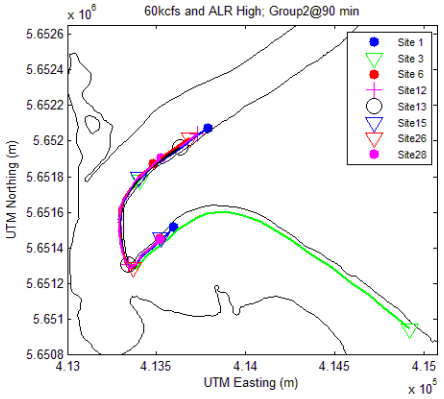
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group2@90 min
x 10^6
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5.652
5.6518
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5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
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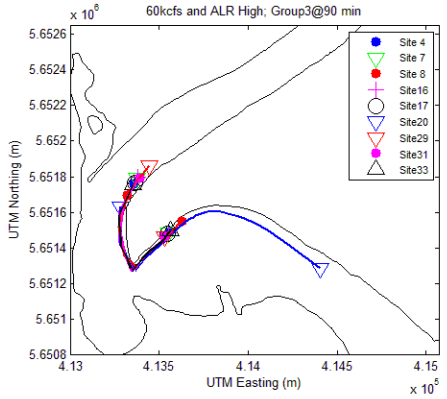
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group3@90 min
x 10^6
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UTM Northing (m)
Site 4
Site 7
Site 8
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Site20
Site29
Site31
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4.13
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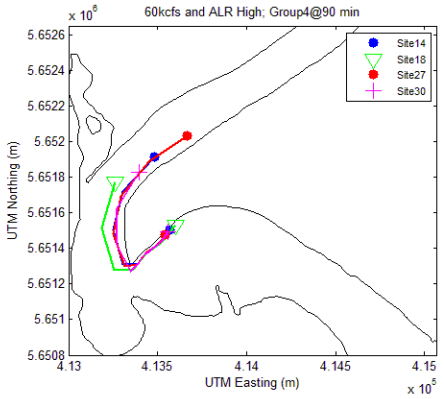
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group4@90 min
x 10^6
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5.6518
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UTM Northing (m)
Site14
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Site27
Site30
4.13
4.135
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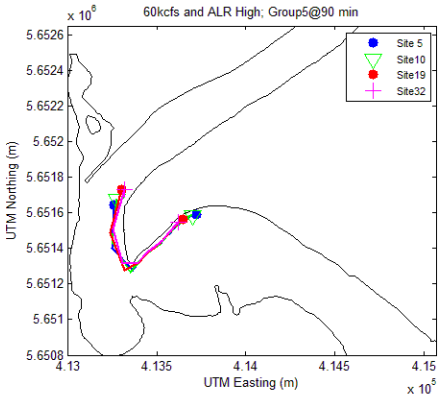
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group5@90 min
x 10^6
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5.6518
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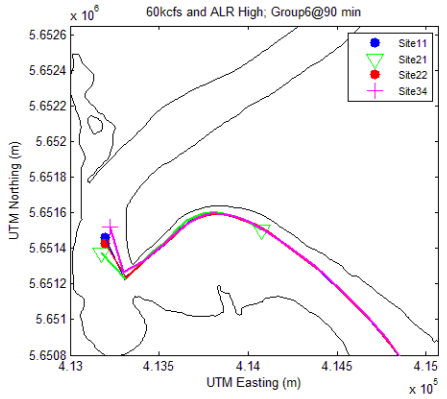
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR High; Group6@90 min
x 10^6
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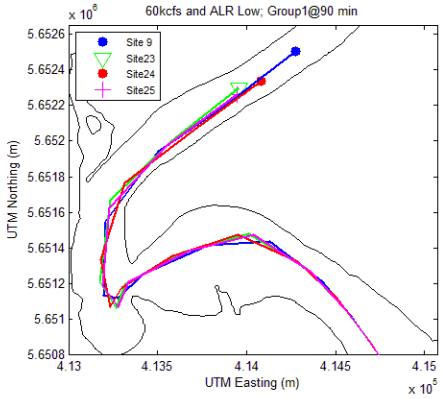
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group1@90 min
x 10^6
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5.6524
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5.6518
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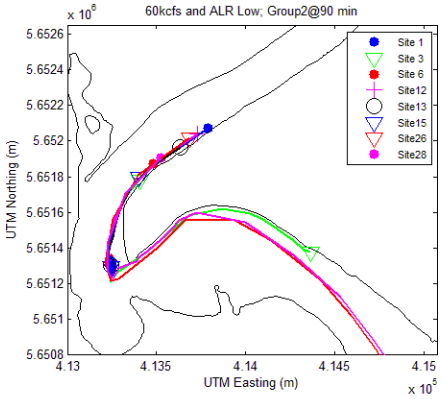
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group2@90 min
x 10^6
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5.6524
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5.652
5.6518
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5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
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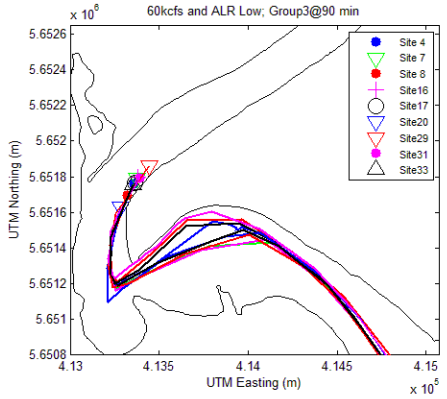
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group3@90 min
x 10^6
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5.6522
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5.6518
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5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
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Site29
Site31
Site33
4.13
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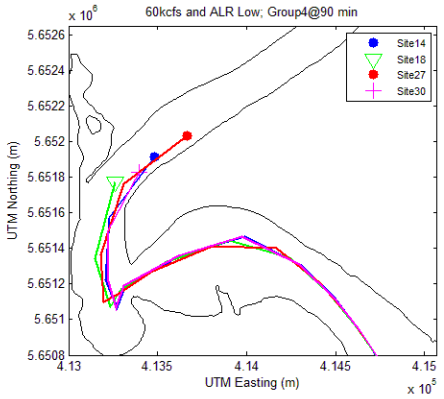
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group4@90 min
x 10^6
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5.6512
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5.6508
UTM Northing (m)
Site14
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Site27
Site30
4.13
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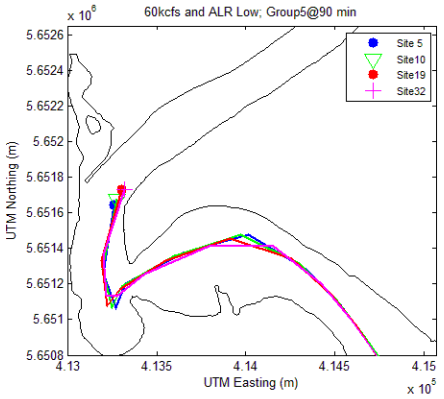
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group5@90 min
x 10^6
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5.6512
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5.6508
UTM Northing (m)
Site 5
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Site32
4.13
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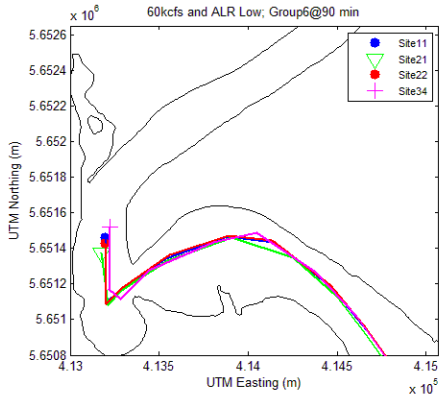
4.14
4.145
4.15
UTM Easting (m)
x 10^5


60kcfs and ALR Low; Group6@90 min
x 10^6
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5.6508
UTM Northing (m)
Site11
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Site34
4.13
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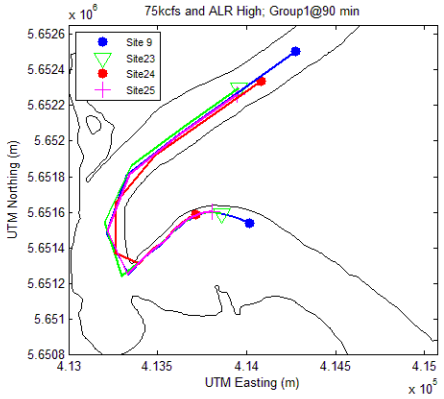
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group1@90 min
x 10^6
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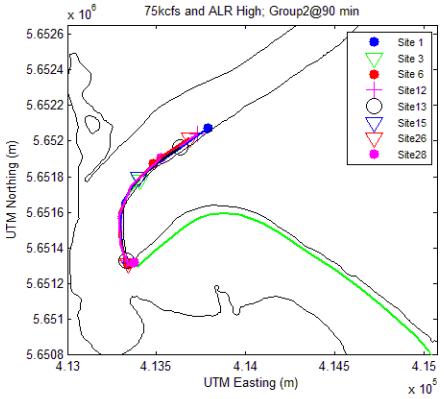
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group2@90 min
x 10^6
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5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
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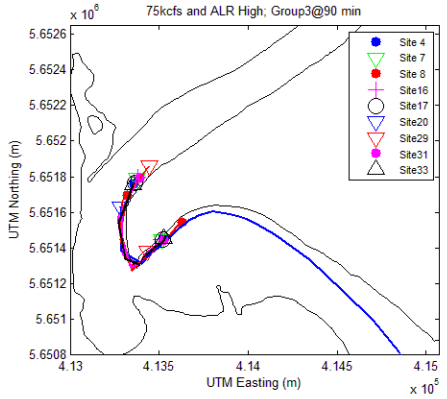
4.145
4.15
UTM Easting (m)
x 10^5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x 10^6
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5.6508
UTM Northing (m)
Site 4
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Site31
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4.13
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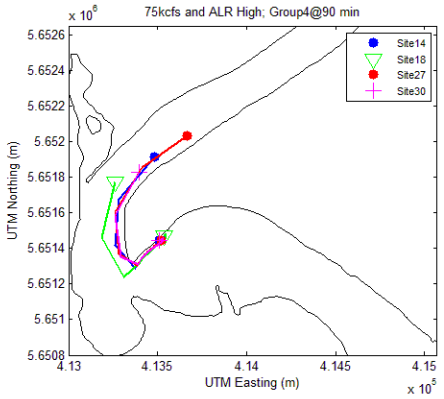
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group4@90 min
x 10^6
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5.6508
UTM Northing (m)
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Site30
4.13
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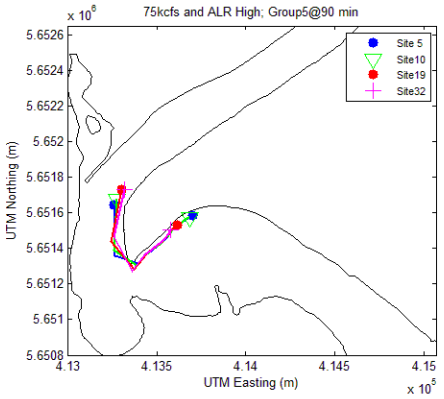
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR High; Group5@90 min
x 10^6
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5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
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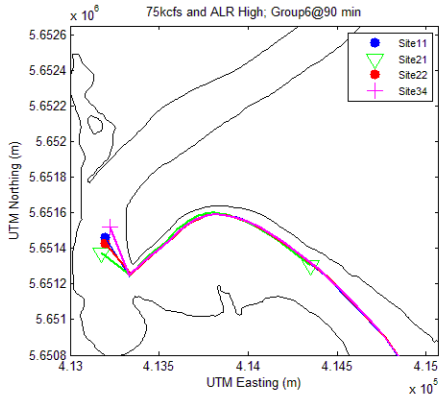
4.145
4.15
UTM Easting (m)
x 10^5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x 10^6
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UTM Northing (m)
Site11
Site21
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Site34
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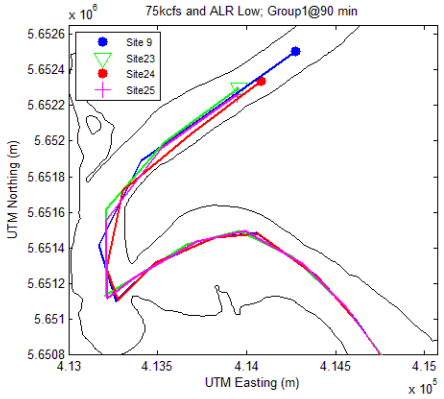
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group1@90 min
x 10^6
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5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
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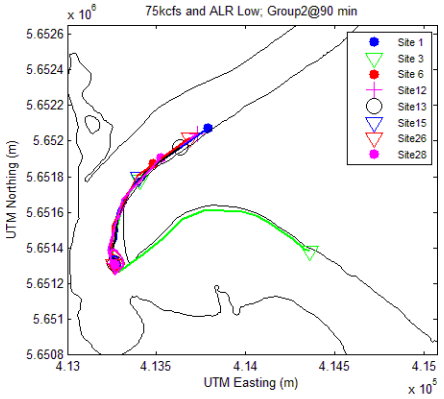
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group2@90 min
x 10^6
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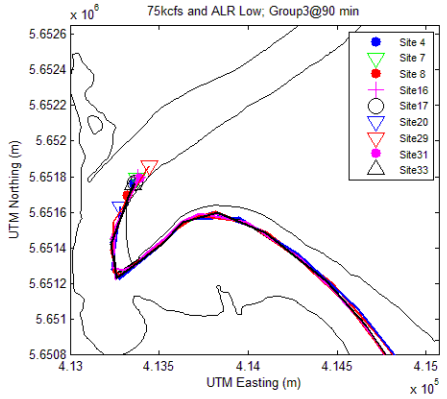
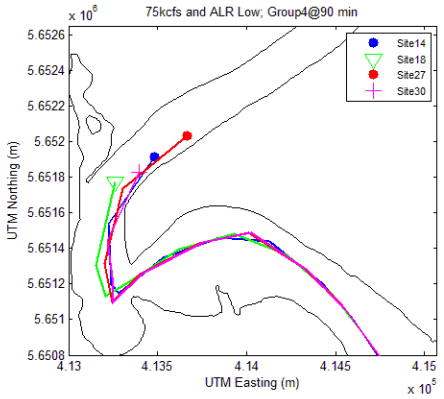
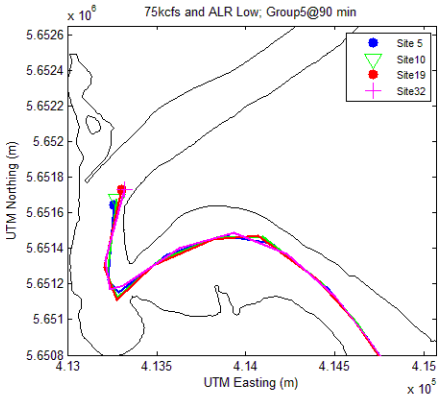
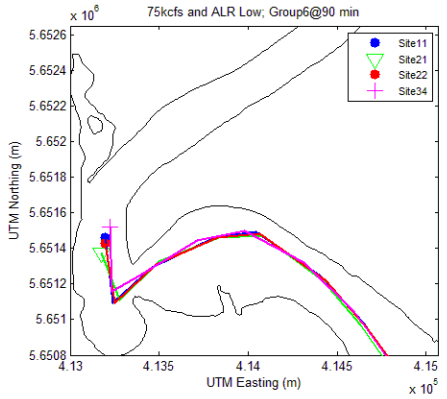
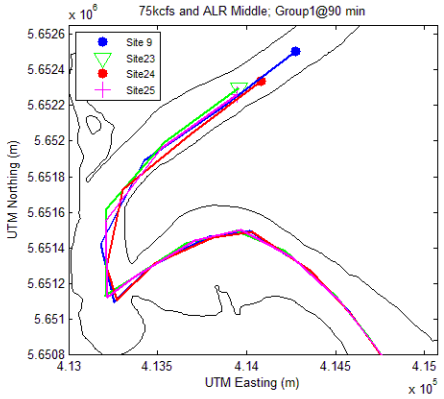
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

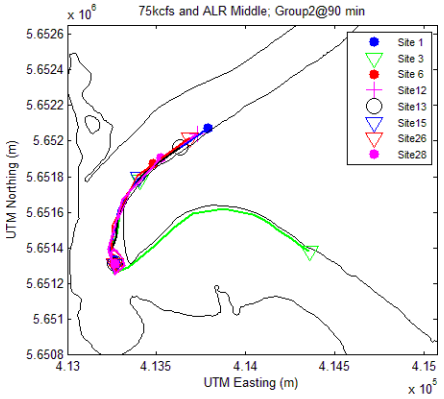

75kcfs and ALR Low; Group3@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

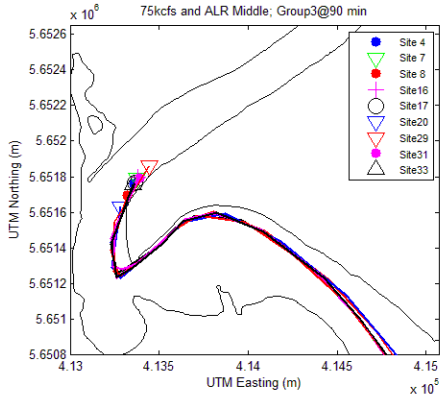

75kcfs and ALR Low; Group4@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

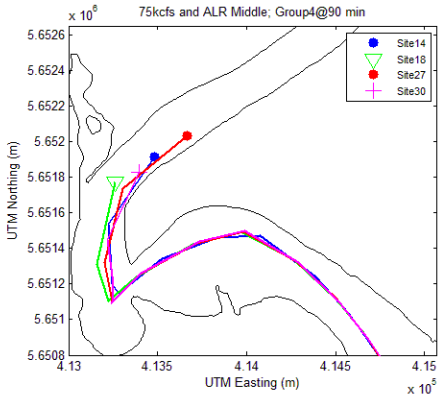

75kcfs and ALR Low; Group5@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

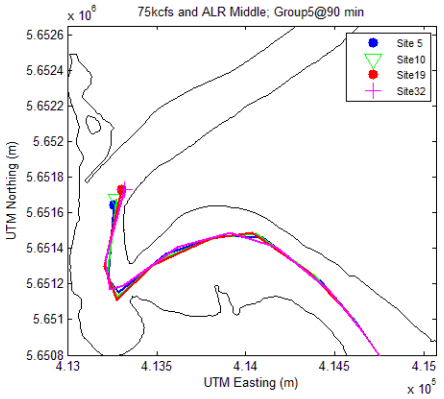

75kcfs and ALR Low; Group6@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group1@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group2@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group3@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group4@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Middle; Group5@90 min
x 10^6
5.6526
5.6524
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5.652
5.6518
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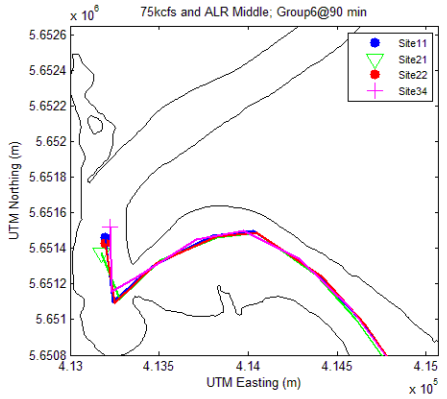
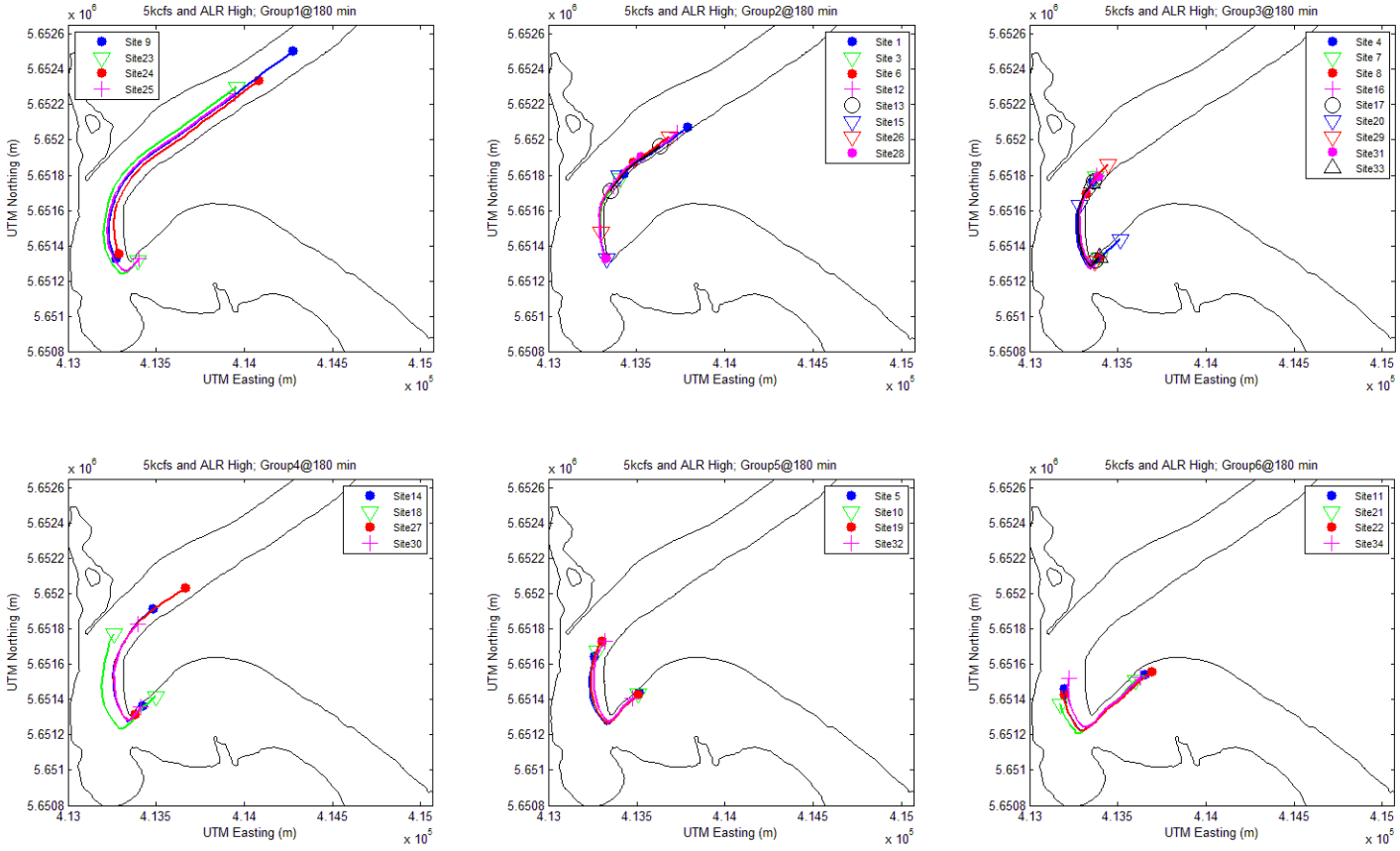
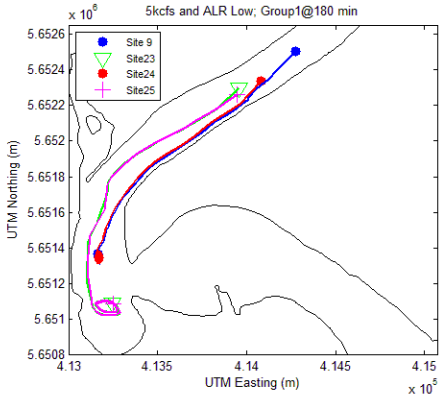
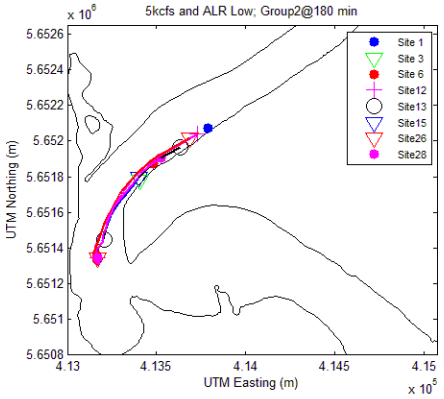
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

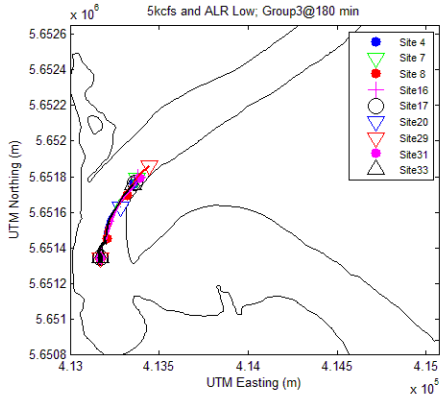

75kcfs and ALR Middle; Group6@90 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

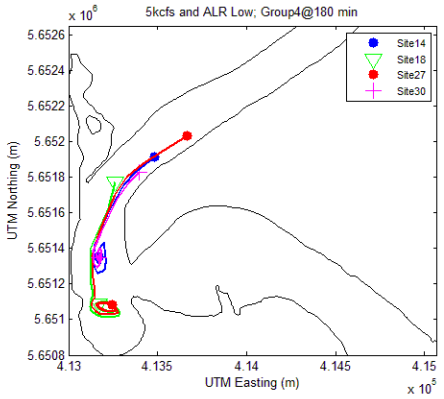
(4) Locations and tracks of the particles at 180 minutes after releasing

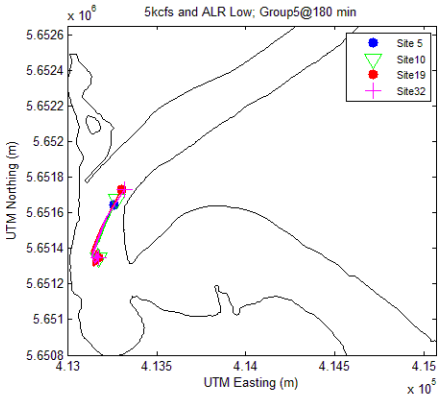


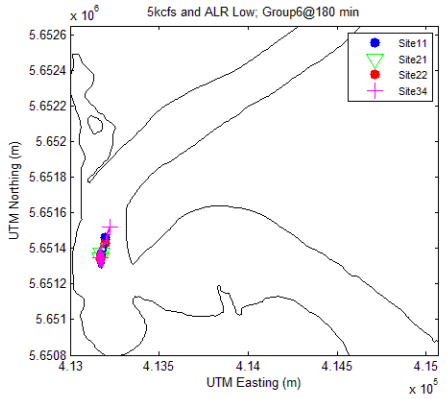

5kcfs and ALR Low; Group1@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group2@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group3@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group4@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group5@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


5kcfs and ALR Low; Group6@180 min
x 10^6
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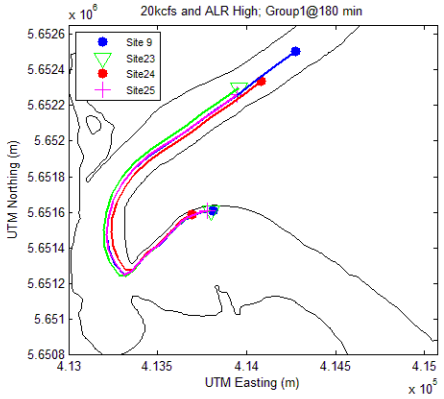
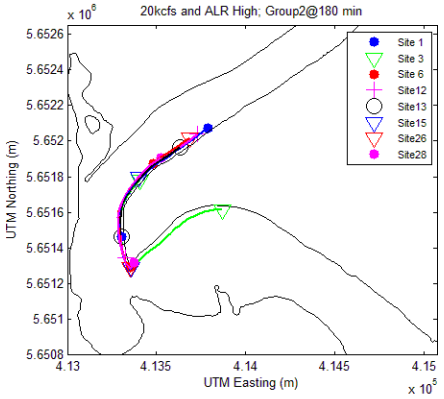
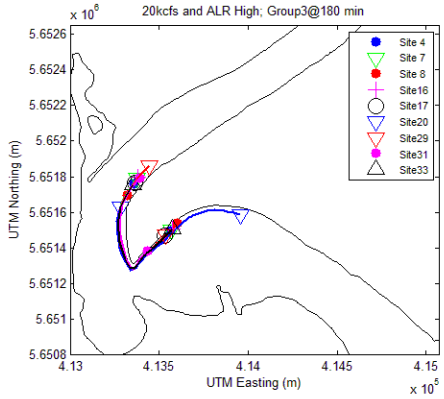
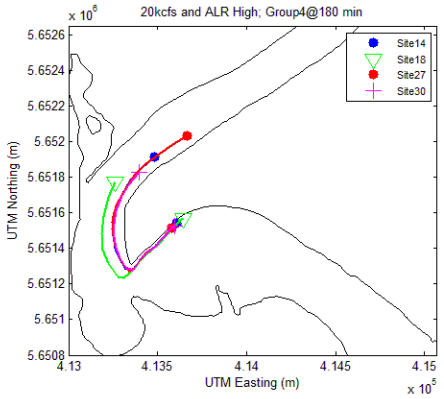
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR High; Group1@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 9
Site23
Site24
Site25


20kcfs and ALR High; Group2@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28


20kcfs and ALR High; Group3@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33


20kcfs and ALR High; Group4@180 min
x 10^6
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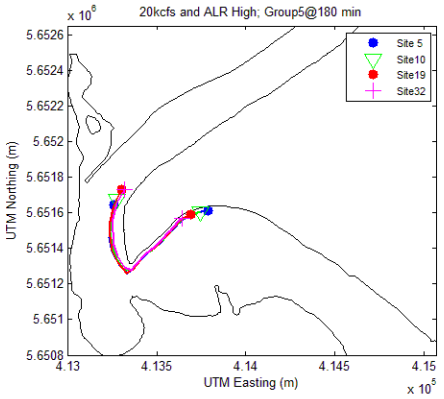
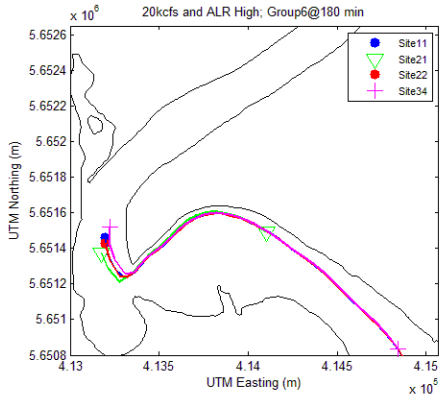
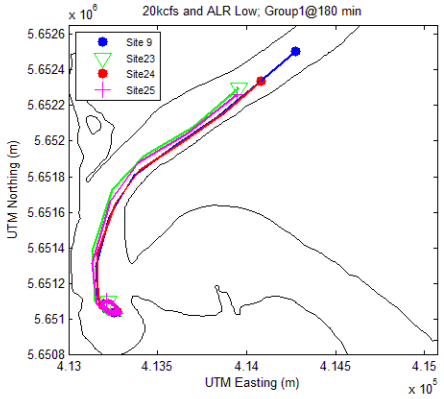
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site14
Site18
Site27
Site30


20kcfs and ALR High; Group5@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site 5
Site10
Site19
Site32


20kcfs and ALR High; Group6@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5
Site11
Site21
Site22
Site34


20kcfs and ALR Low; Group1@180 min
x 10^6
5.6526
5.6524
5.6522
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5.6512
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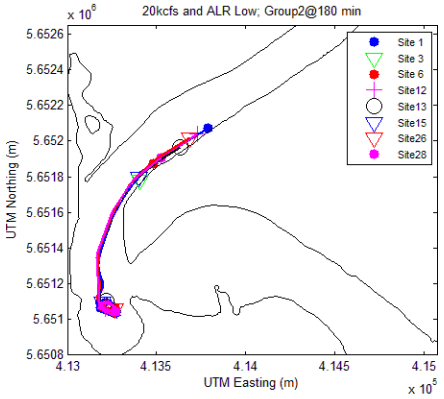
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group2@180 min
x 10^6
5.6526
5.6524
5.6522
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5.6518
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5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
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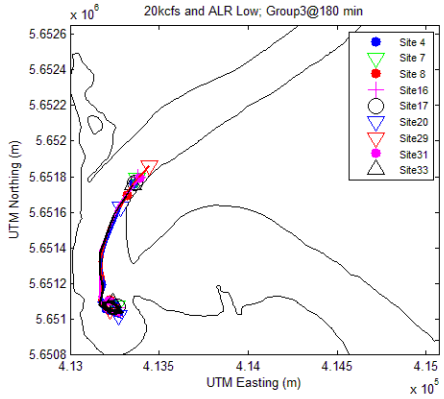
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group3@180 min
x 10^6
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5.6524
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5.652
5.6518
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5.6512
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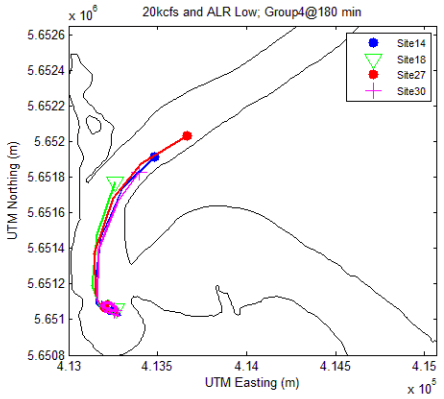
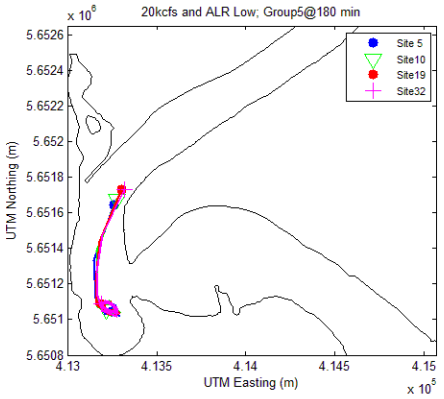
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group4@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group5@180 min
x 10^6
5.6526
5.6524
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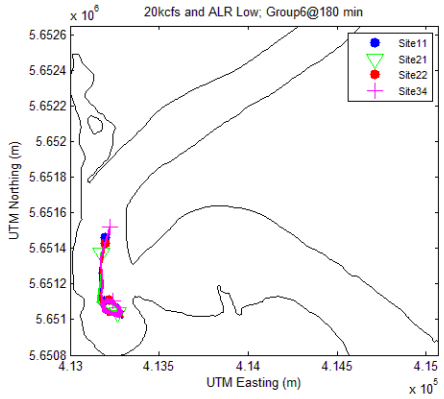
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


20kcfs and ALR Low; Group6@180 min
x 10^6
5.6526
5.6524
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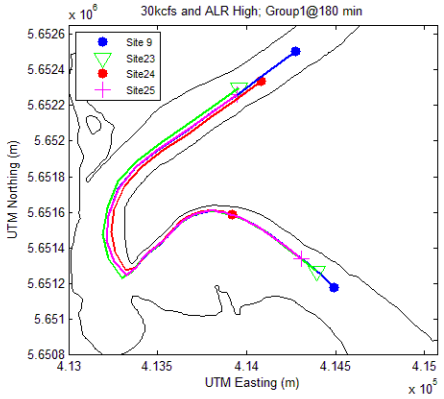
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


30kcfs and ALR High; Group1@180 min
x 10^6
5.6526
5.6524
5.6522
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5.6518
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5.6514
5.6512
5.651
5.6508
UTM Northing (m)
4.13
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4.15
UTM Easting (m)
x 10^5
Site 9
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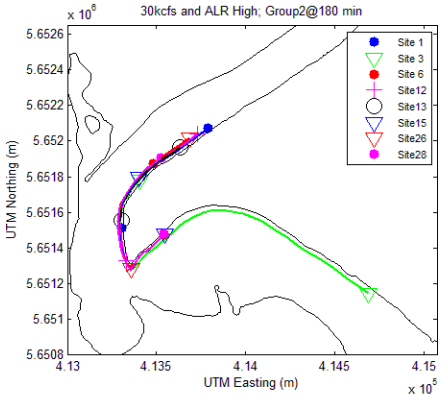
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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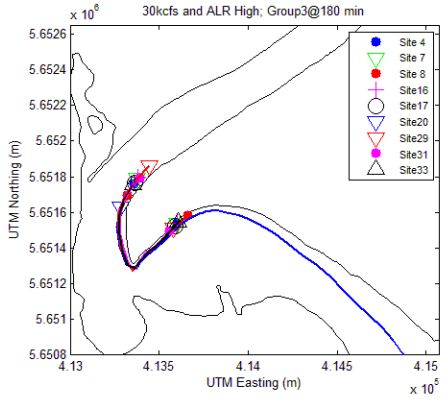
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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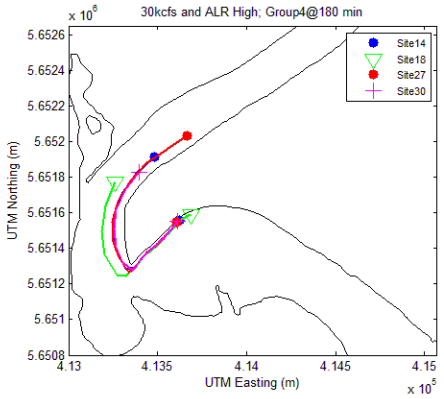
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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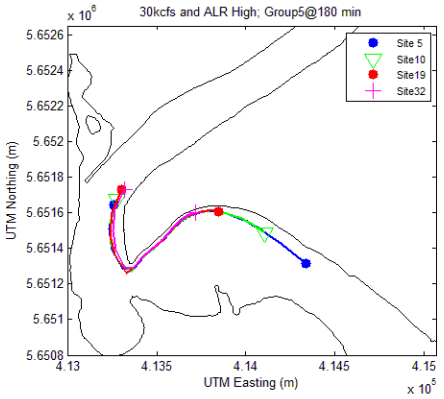
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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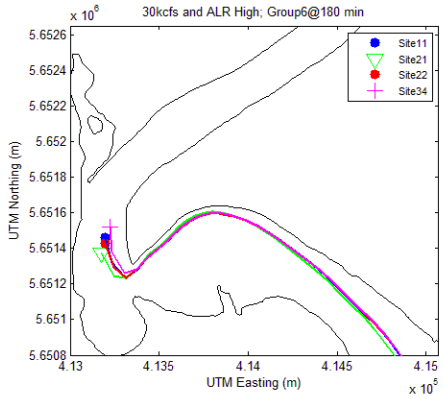
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UTM Northing (m)
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UTM Easting (m)
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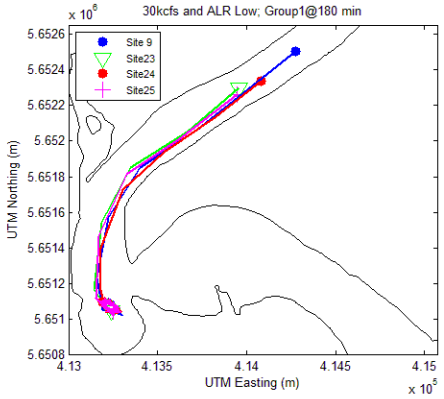
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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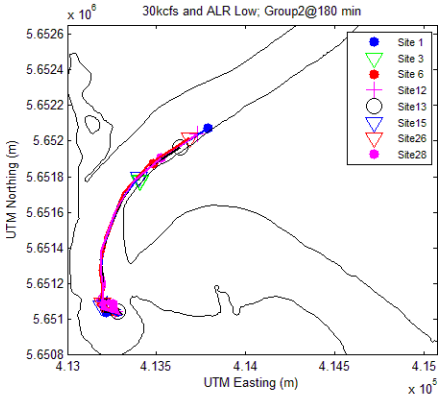
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UTM Northing (m)
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x 10^5
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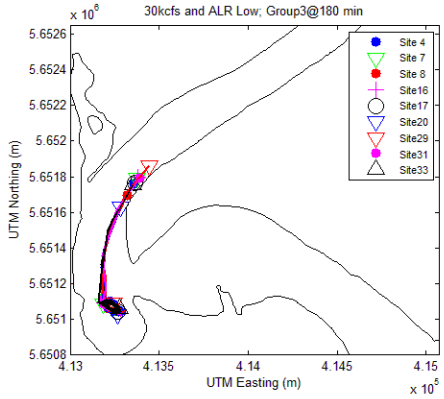
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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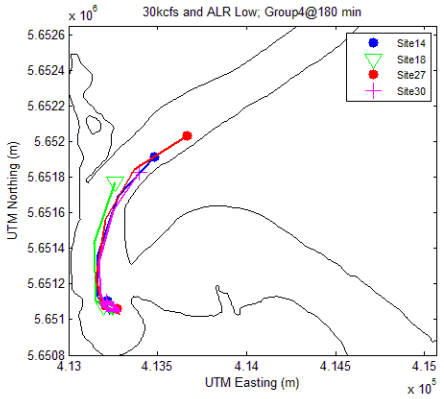
30kcfs and ALR Low; Group4@180 min
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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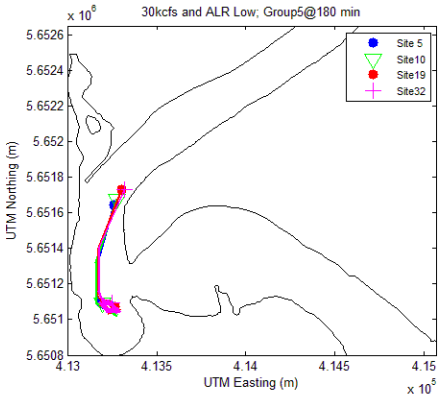
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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 5
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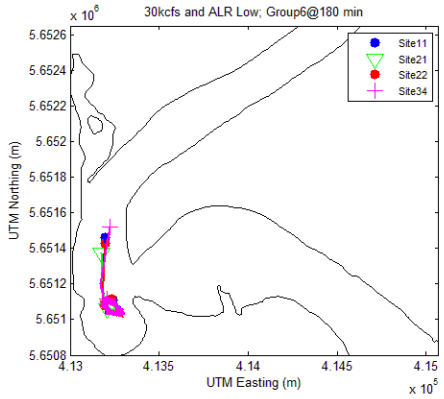
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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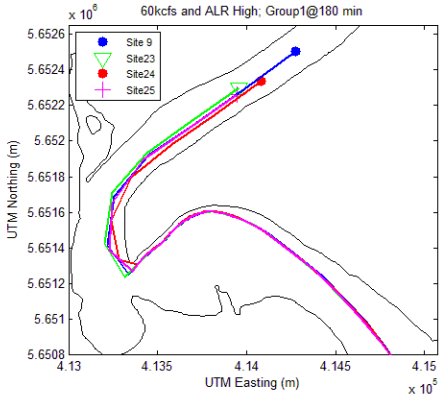
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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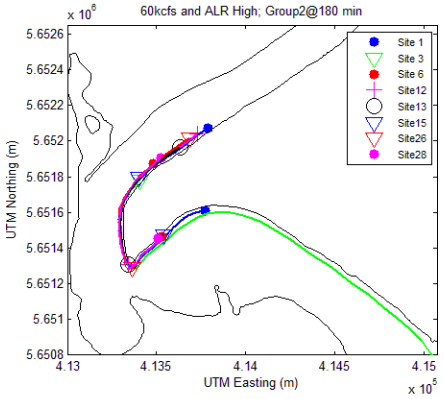
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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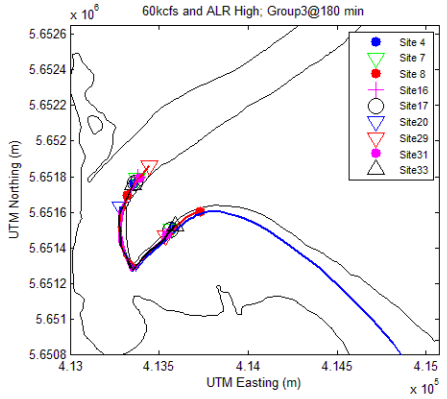
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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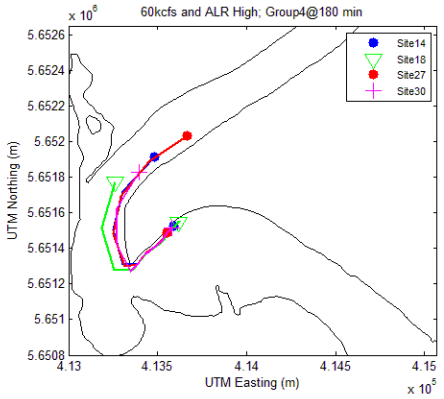
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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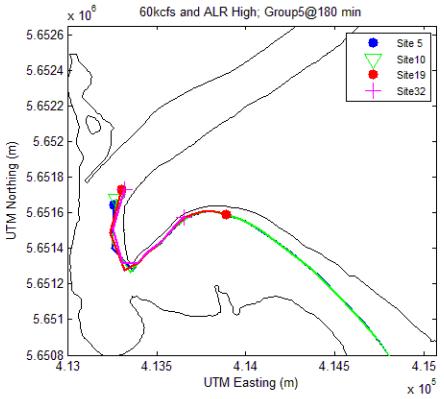
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UTM Northing (m)
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UTM Easting (m)
x 10^5
Site 5
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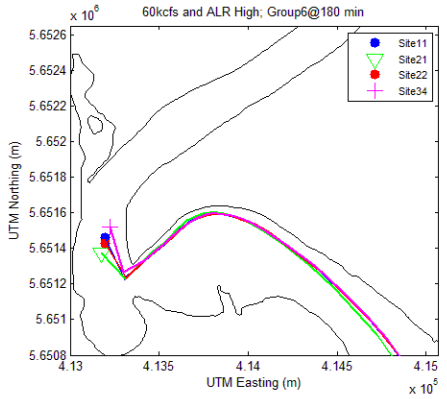
Site32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UTM Northing (m)
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4.15
UTM Easting (m)
x 10^5
Site11
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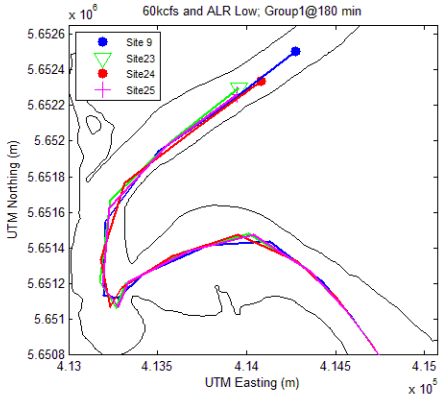
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x 10^6
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UTM Northing (m)
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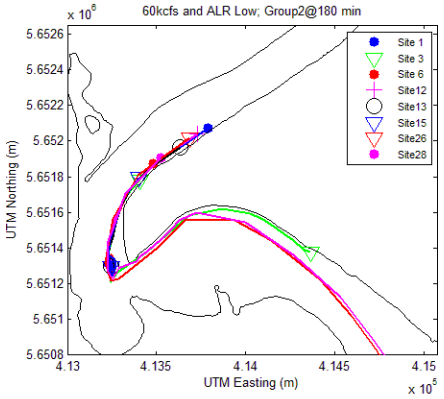
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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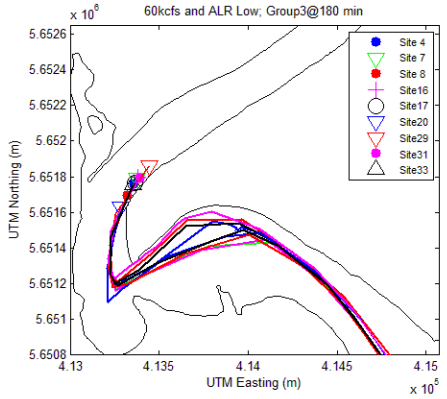
4.145
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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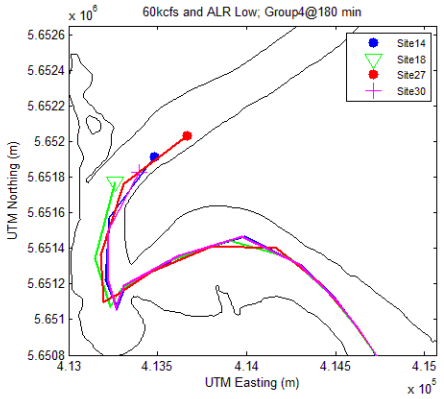
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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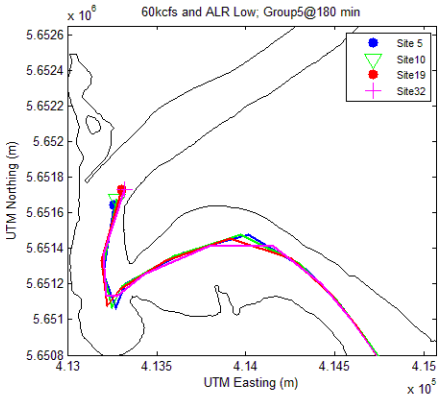
UTM Easting (m)
x 10^5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UTM Northing (m)
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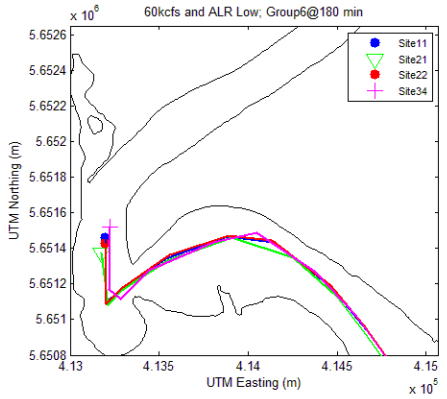
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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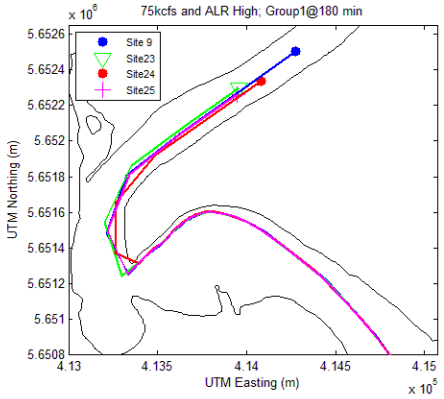
4.15
UTM Easting (m)
x 10^5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UTM Northing (m)
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UTM Easting (m)
x 10^5
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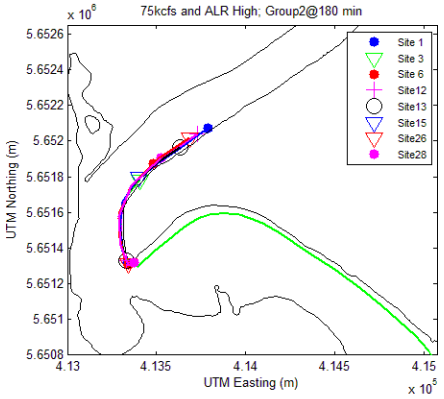
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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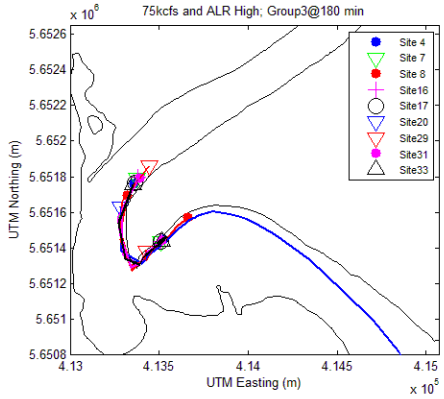
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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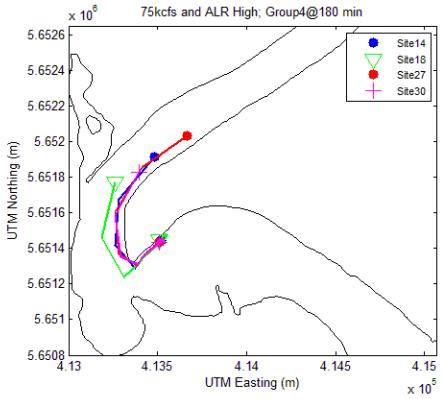
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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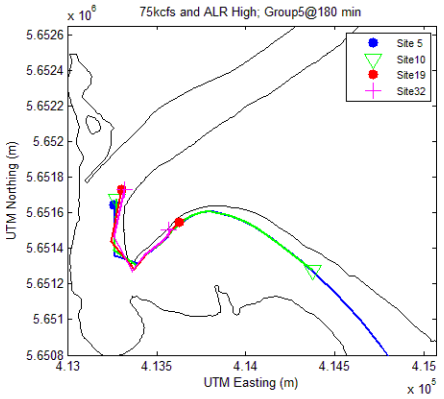
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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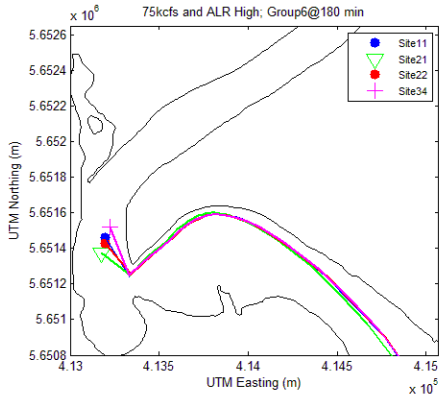
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UTM Northing (m)
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UTM Easting (m)
x 10^5
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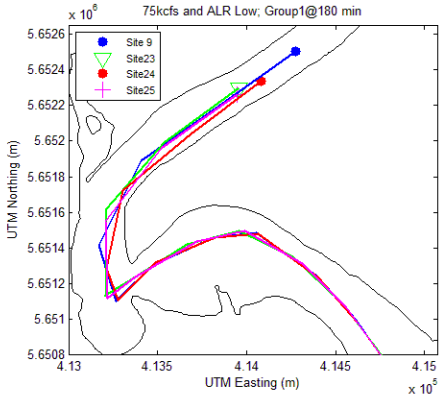
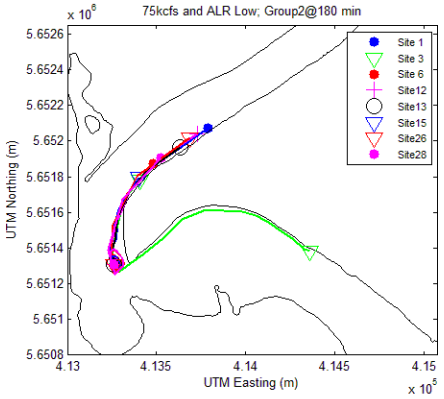
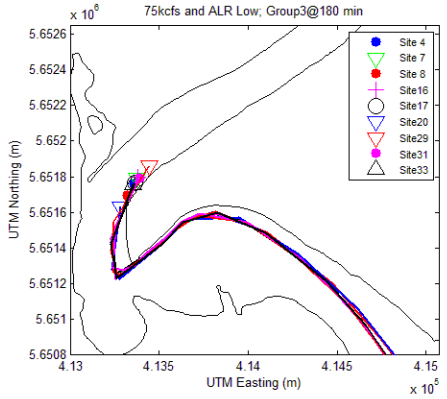
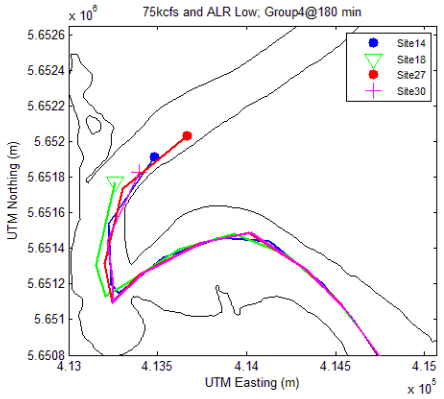
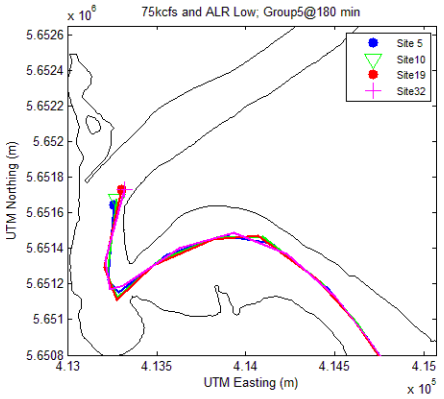
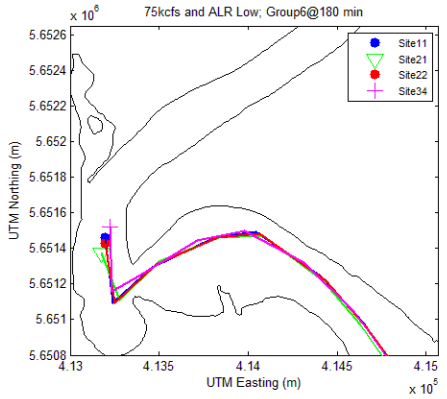

75kcfs and ALR Low; Group1@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 9
Site23
Site24
Site25
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group2@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 1
Site 3
Site 6
Site12
Site13
Site15
Site26
Site28
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group3@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 4
Site 7
Site 8
Site16
Site17
Site20
Site29
Site31
Site33
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group4@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site14
Site18
Site27
Site30
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group5@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site 5
Site10
Site19
Site32
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5


75kcfs and ALR Low; Group6@180 min
x 10^6
5.6526
5.6524
5.6522
5.652
5.6518
5.6516
5.6514
5.6512
5.651
5.6508
UTM Northing (m)
Site11
Site21
Site22
Site34
4.13
4.135
4.14
4.145
4.15
UTM Easting (m)
x 10^5

At Golder Associates we strive to be the most respected global company providing consulting, design, and construction services in earth, environment, and related areas of energy. Employee owned since our formation in 1960, our focus, unique culture and operating environment offer opportunities and the freedom to excel, which attracts the leading specialists in our fields. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees who operate from offices located throughout Africa, Asia, Australasia, Europe, North America, and South America.

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