

□ Generic root model

□ Increased bed roughness

○ Measured

$U (\text{m s}^{-1})$

0.15
0.1
0.05
0

(a)

□ Generic root model

□ Increased bed roughness

○ Measured

0.15
0.1
0.05
0

(d)

(b)

$U_{bottom} (\text{m s}^{-1})$

0.15
0.1
0.05
0

0.15
0.1
0.05
0

(e)

(c)

$\tau_{bed} (\text{N m}^{-2})$

0.5
0.4
0.3
0.2
0.1
0

0.5
0.4
0.3
0.2
0.1
0

12:00 13:00 14:00

Time on Sep 10

12:30 13:30 14:30

Time on Sep 11