

# sm1 - Ground motion set 1

September 29, 2022

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# 1 sm1 - Individual results

## 1.1 sm1

Free face height: 2.4 m

Channel width: 11.0 m

No. CPTs: 1

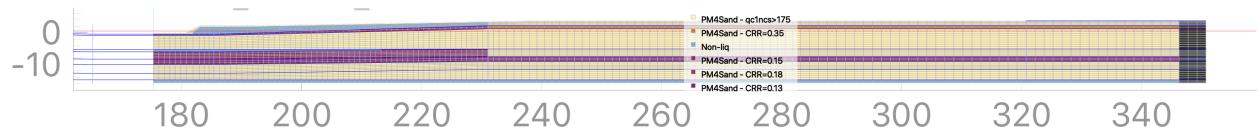


Figure 1: Full FLAC mesh of sm1

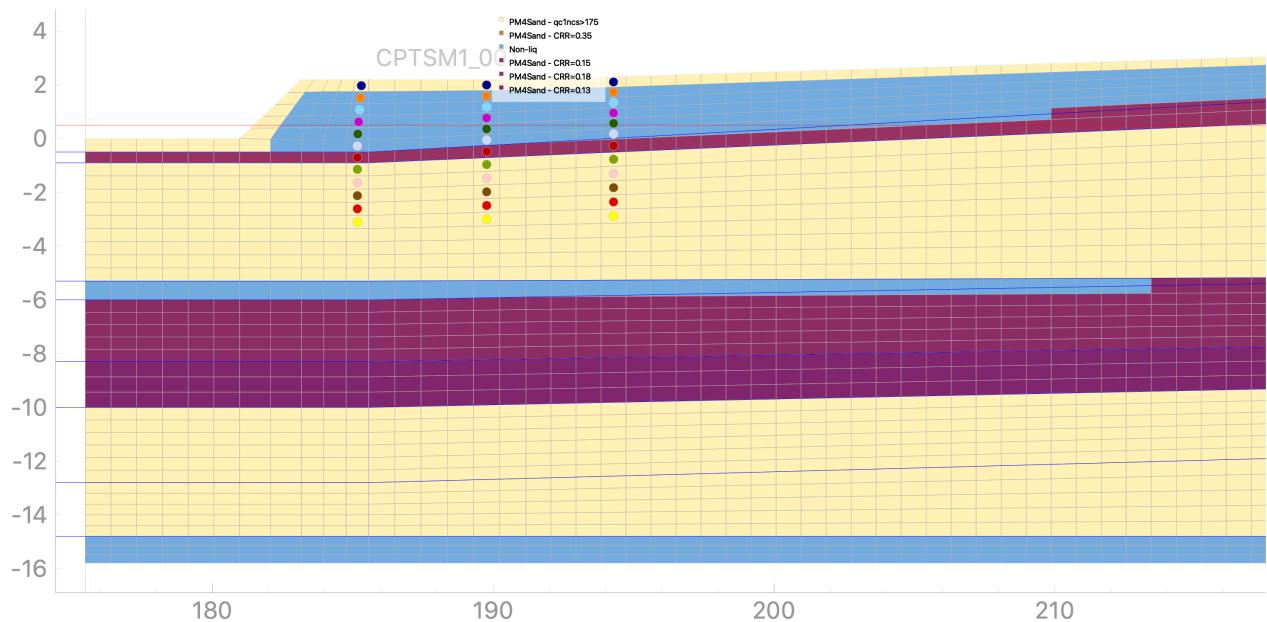


Figure 2: Free-face section of FLAC mesh of sm1

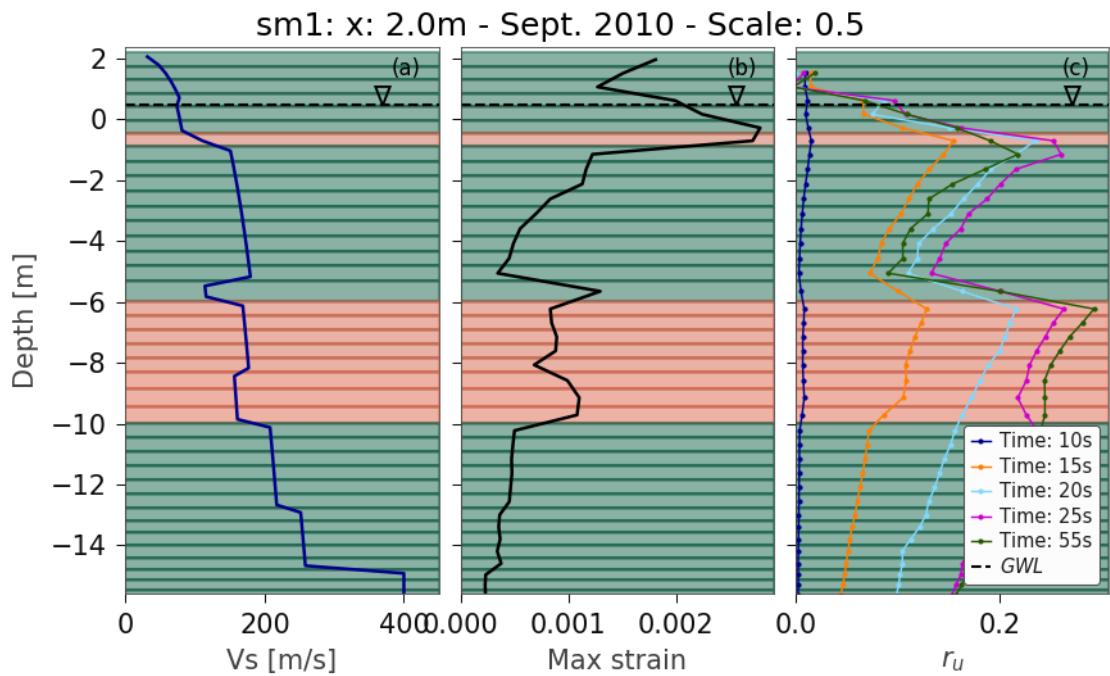


Figure 3: Profile performance (2D) sm1 - Sept. 2010 [scale: 0.5] at free-face

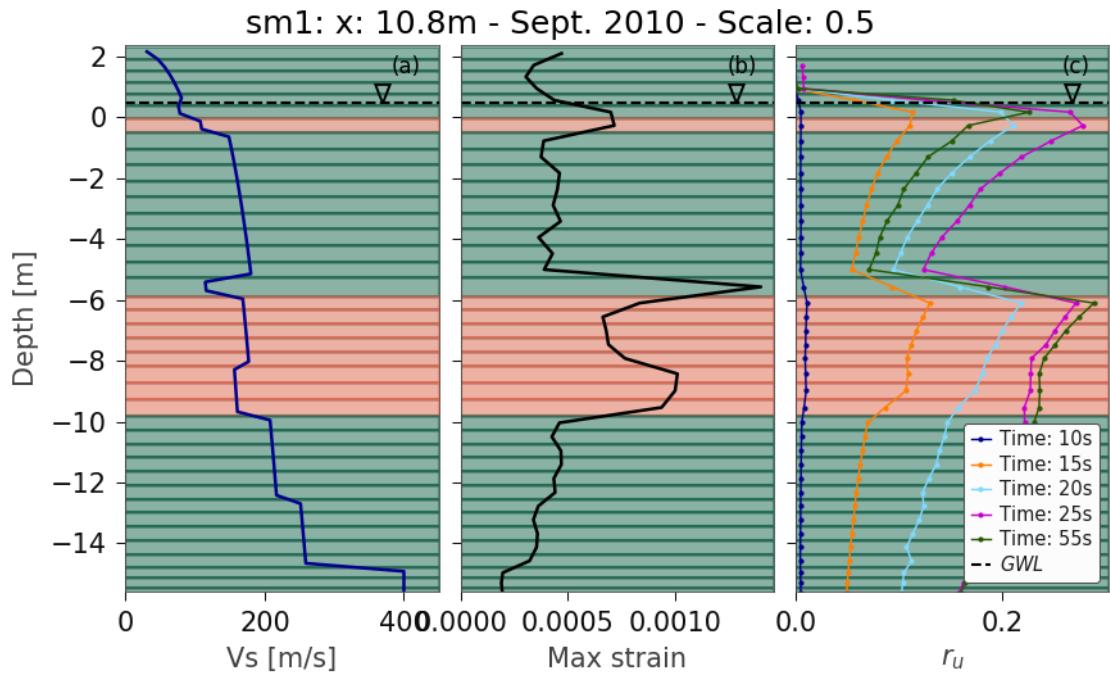


Figure 4: Profile performance (2D) sm1 - Sept. 2010 [scale: 0.5] at  $x = 5 \cdot H_{face}$

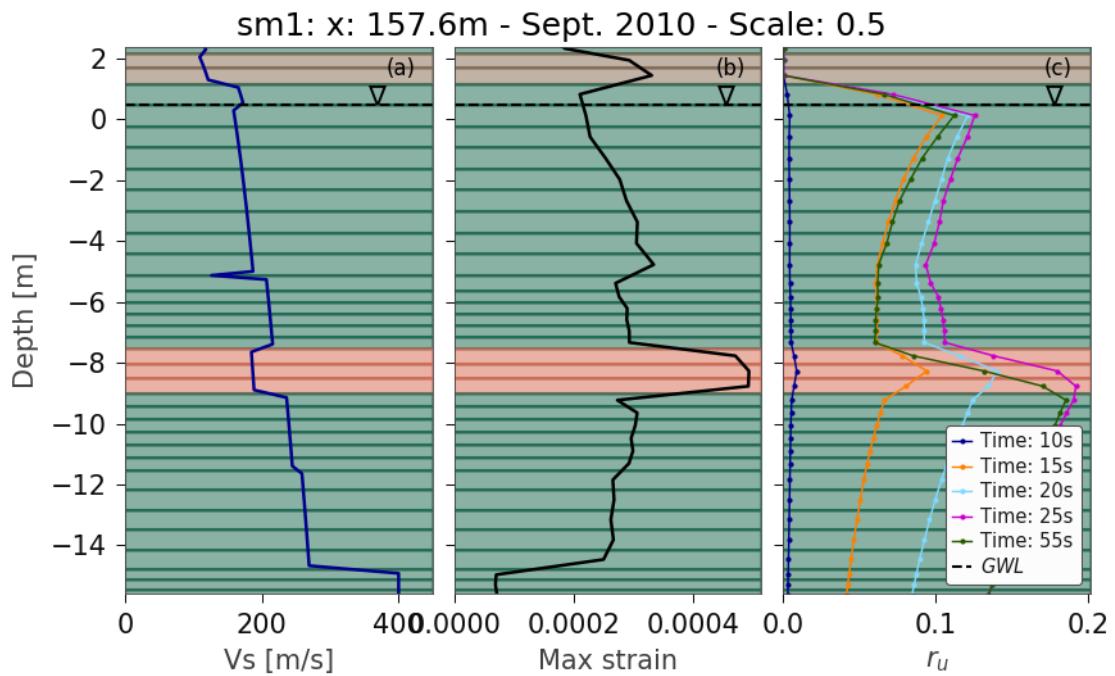


Figure 5: Profile performance (2D) sm1 - Sept. 2010 [scale: 0.5] at free-field

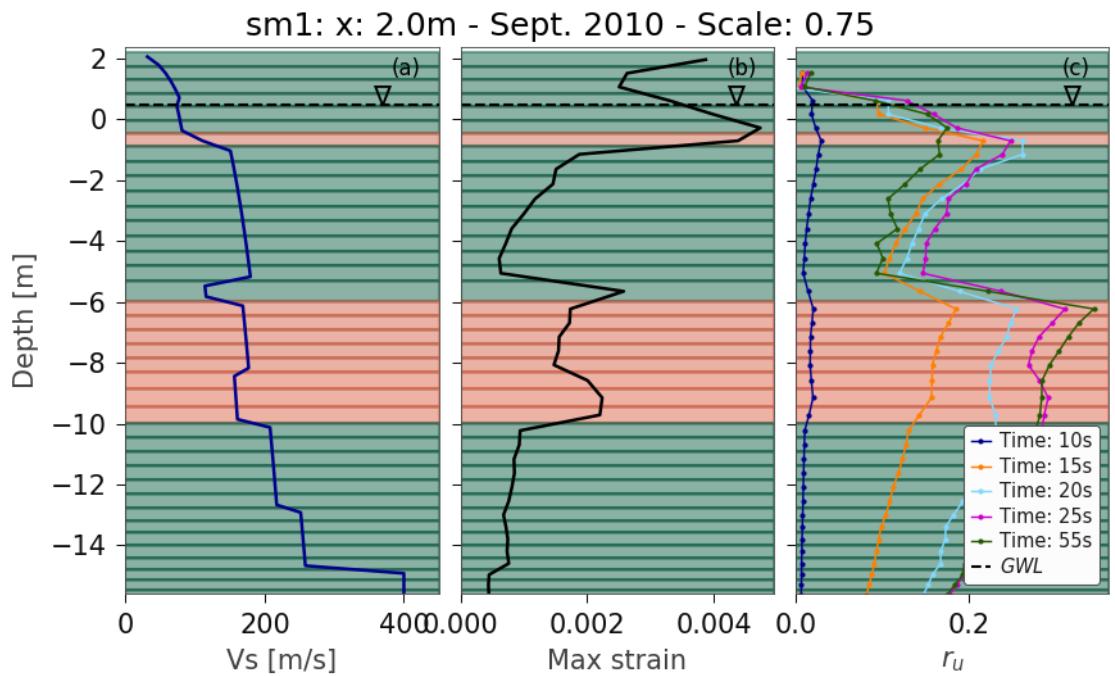


Figure 6: Profile performance (2D) sm1 - Sept. 2010 [scale: 0.75] at free-face

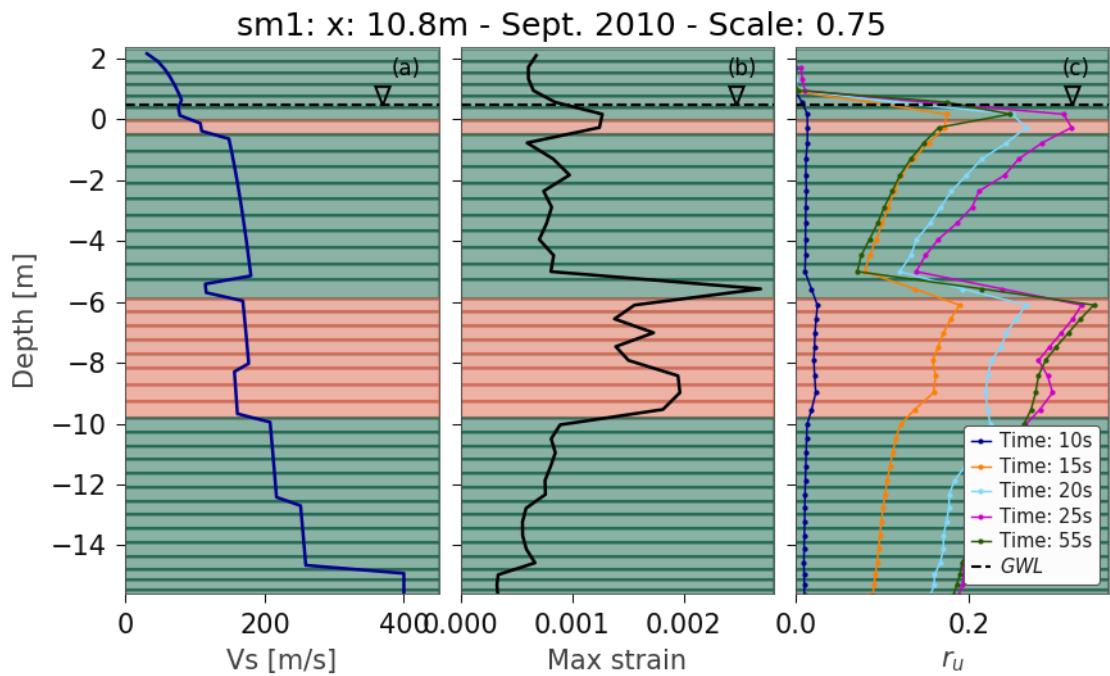


Figure 7: Profile performance (2D) sm1 - Sept. 2010 [scale: 0.75] at  $x = 5 \cdot H_{face}$

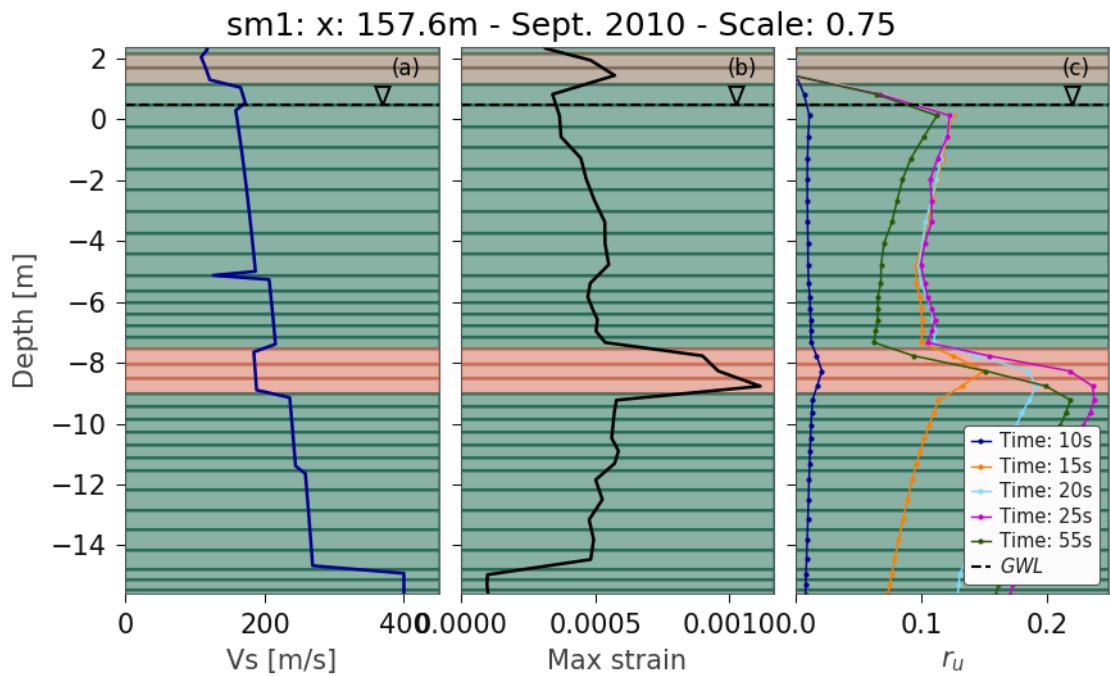


Figure 8: Profile performance (2D) sm1 - Sept. 2010 [scale: 0.75] at free-field

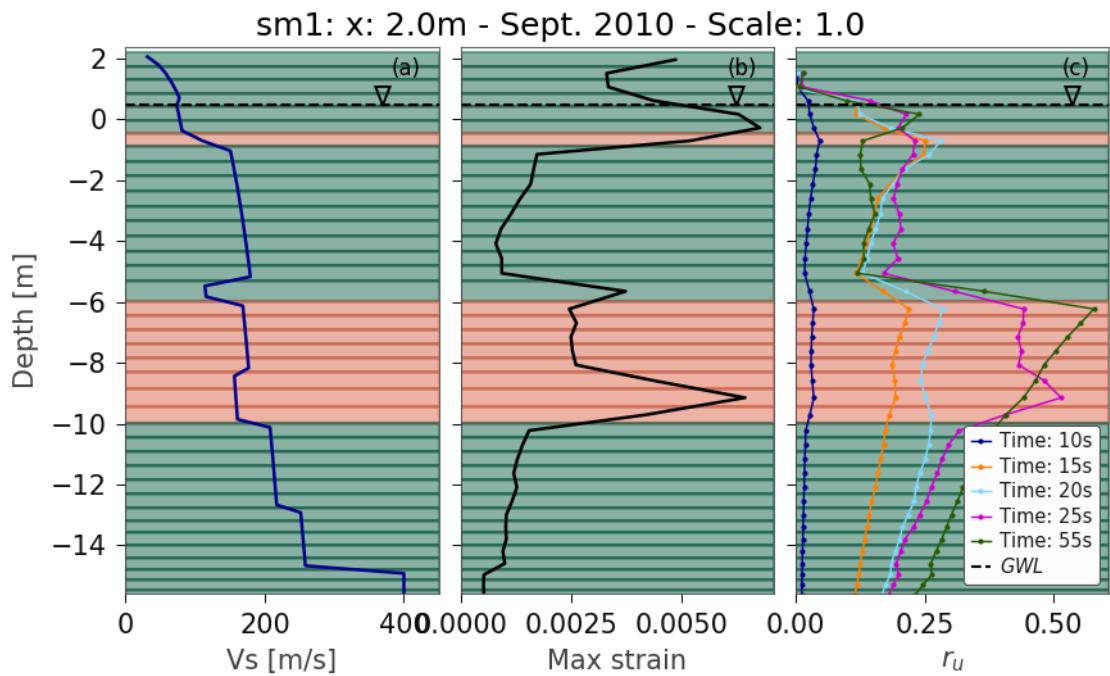


Figure 9: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.0] at free-face

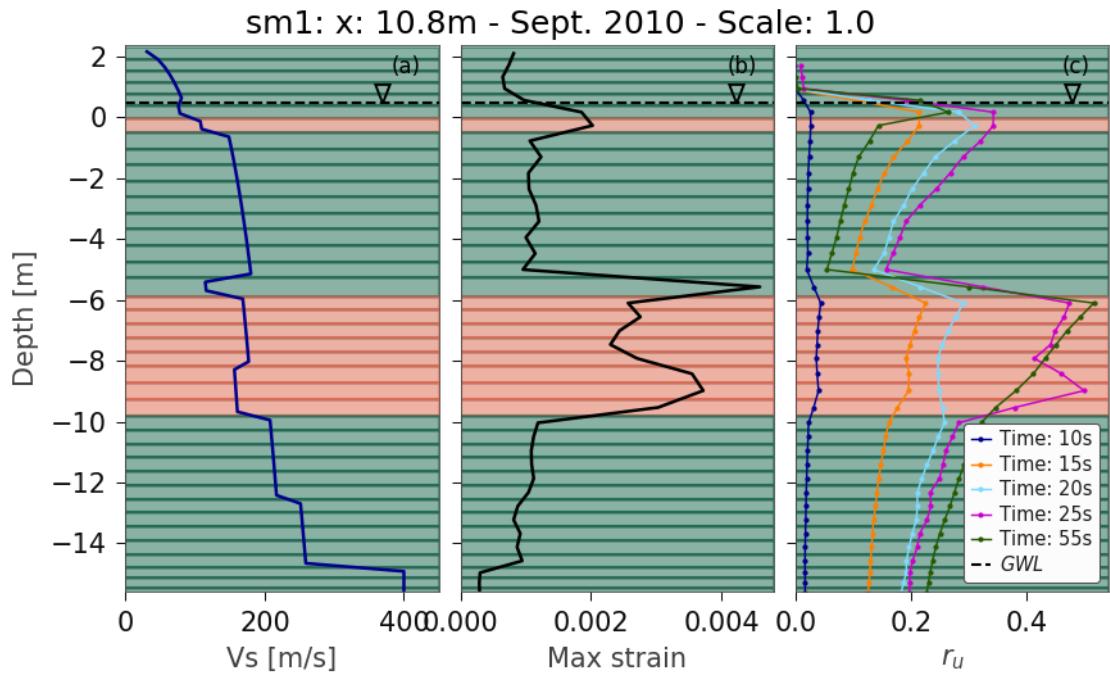


Figure 10: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.0] at  $x = 5 \cdot H_{face}$

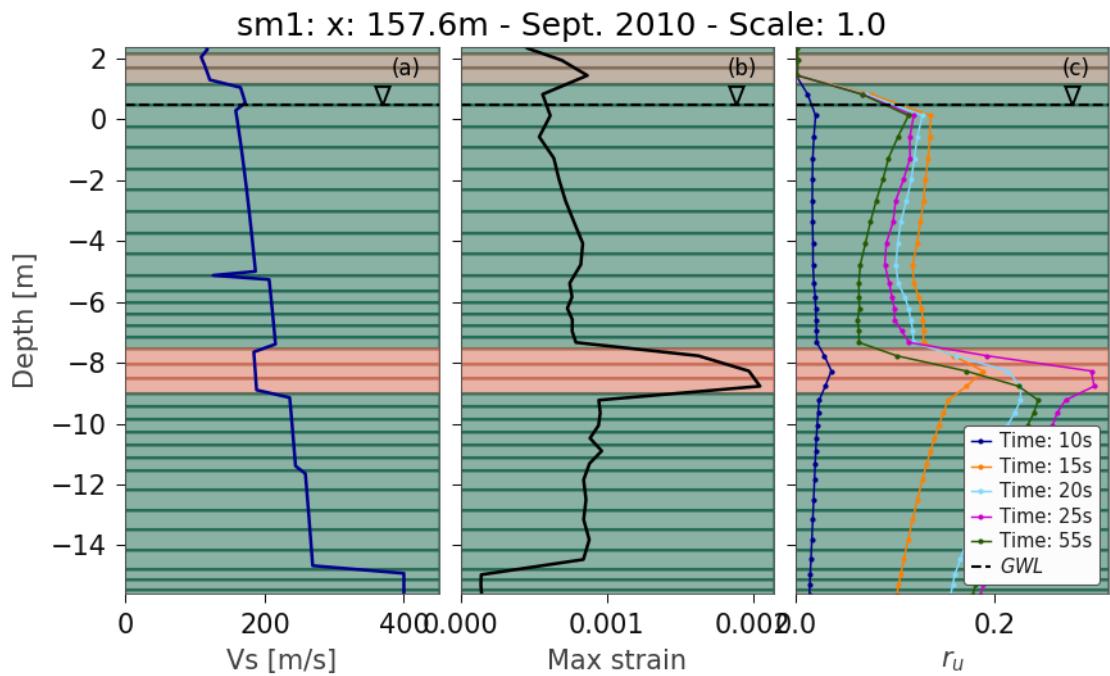


Figure 11: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.0] at free-field

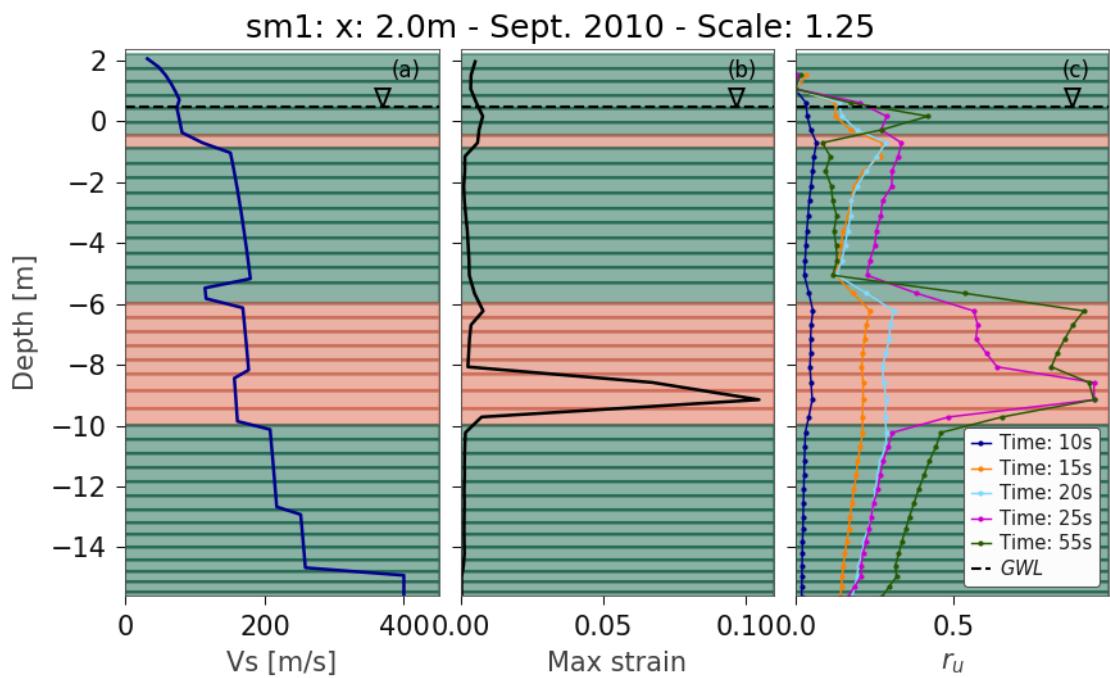


Figure 12: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.25] at free-face

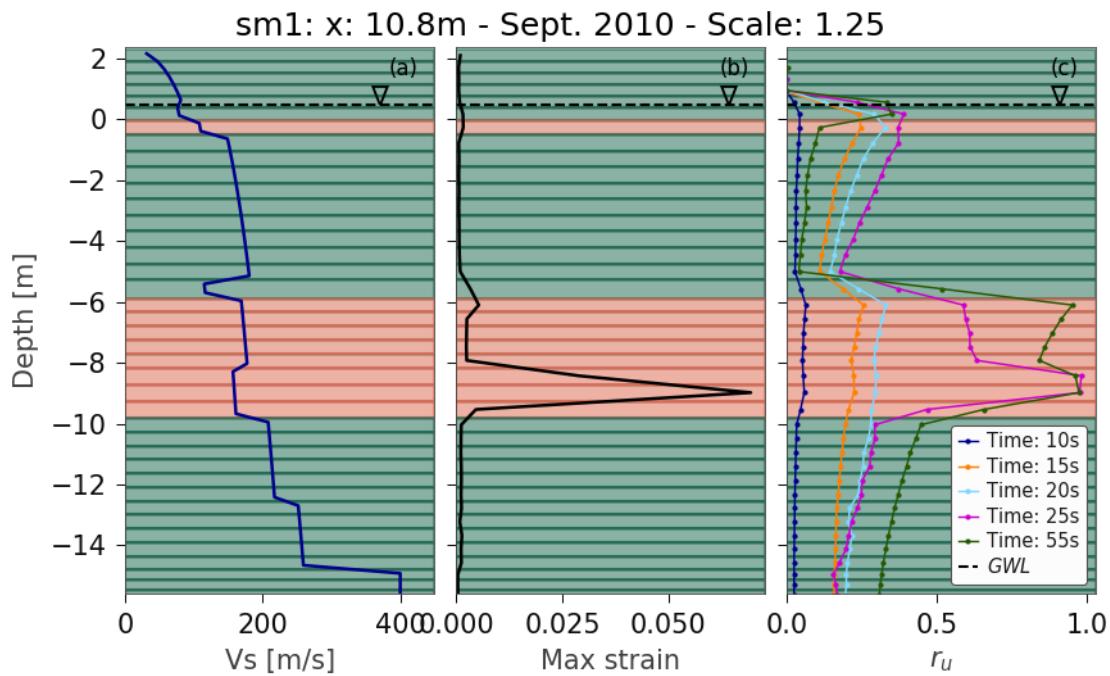


Figure 13: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.25] at  $x = 5 \cdot H_{face}$

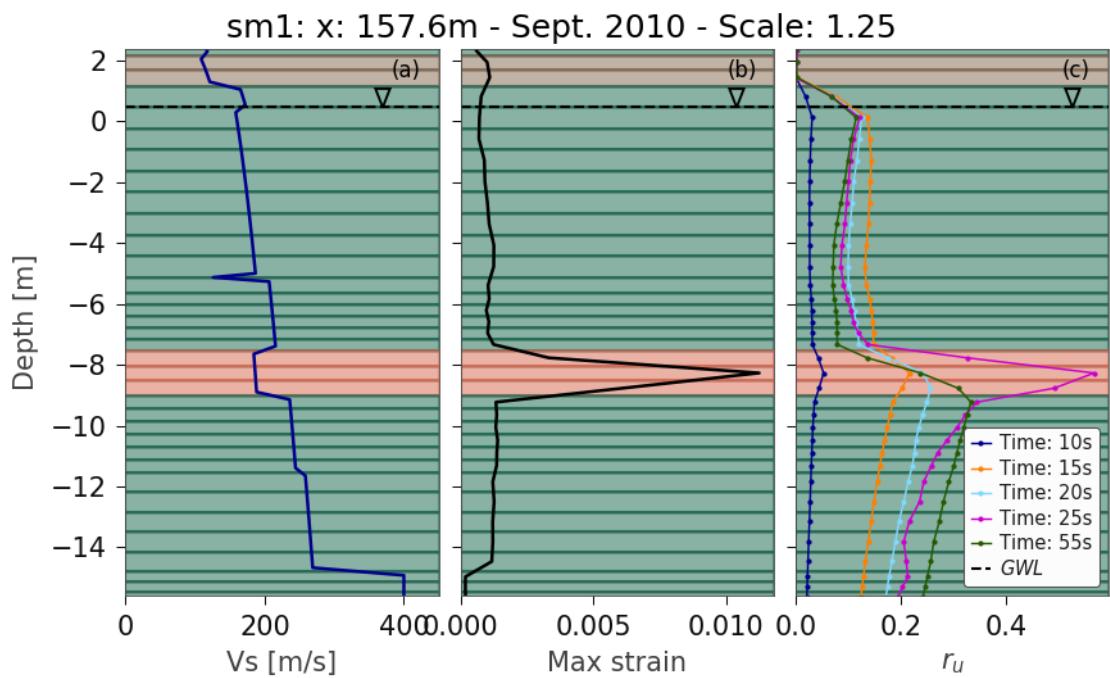


Figure 14: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.25] at free-field

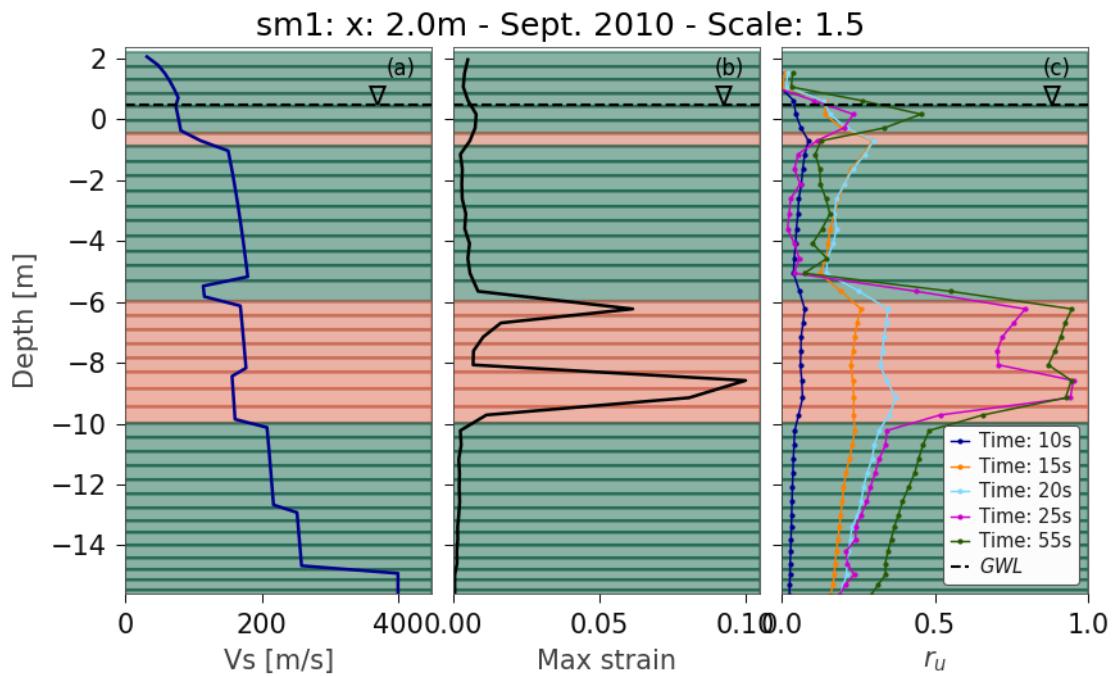


Figure 15: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.5] at free-face

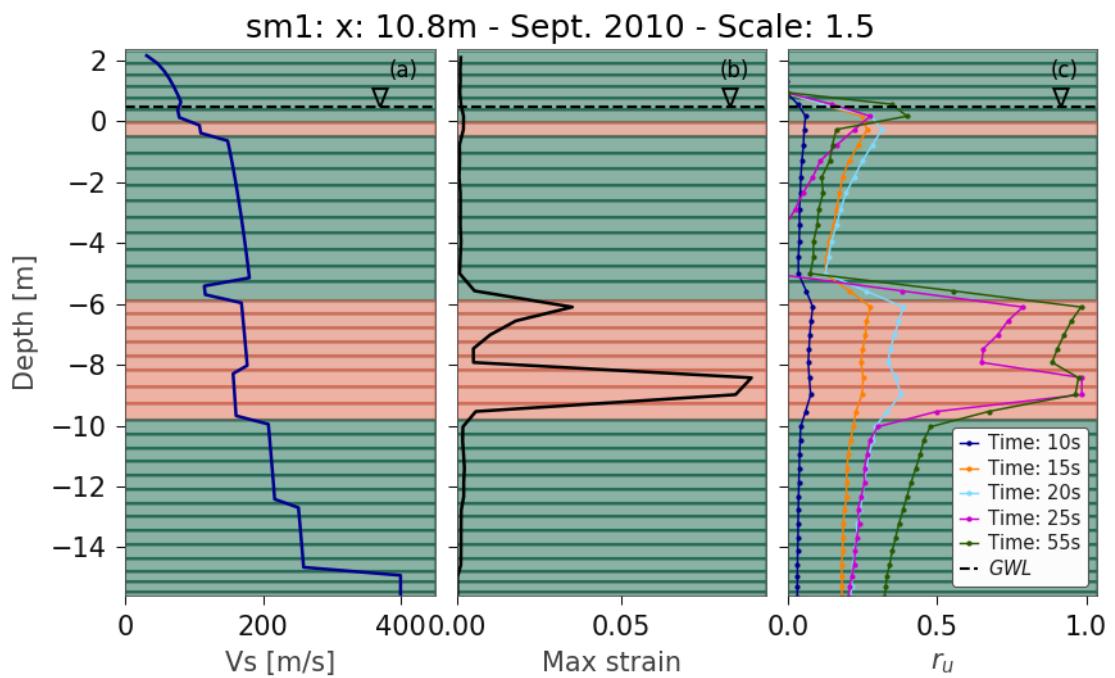


Figure 16: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.5] at  $x = 5 \cdot H_{face}$

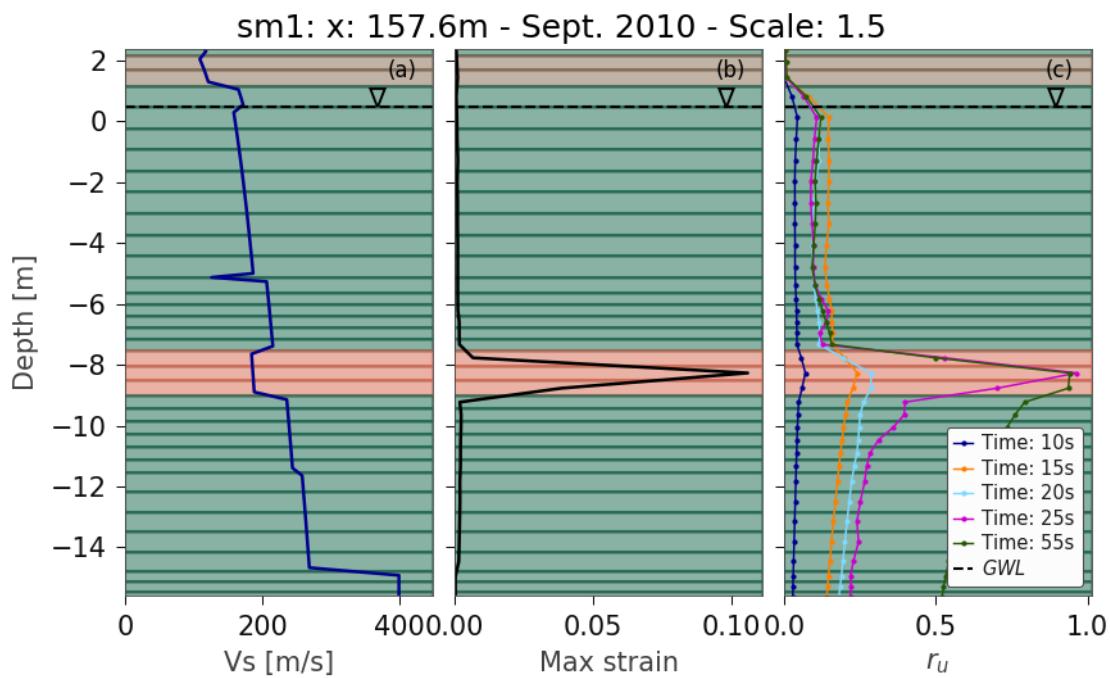


Figure 17: Profile performance (2D) sm1 - Sept. 2010 [scale: 1.5] at free-field

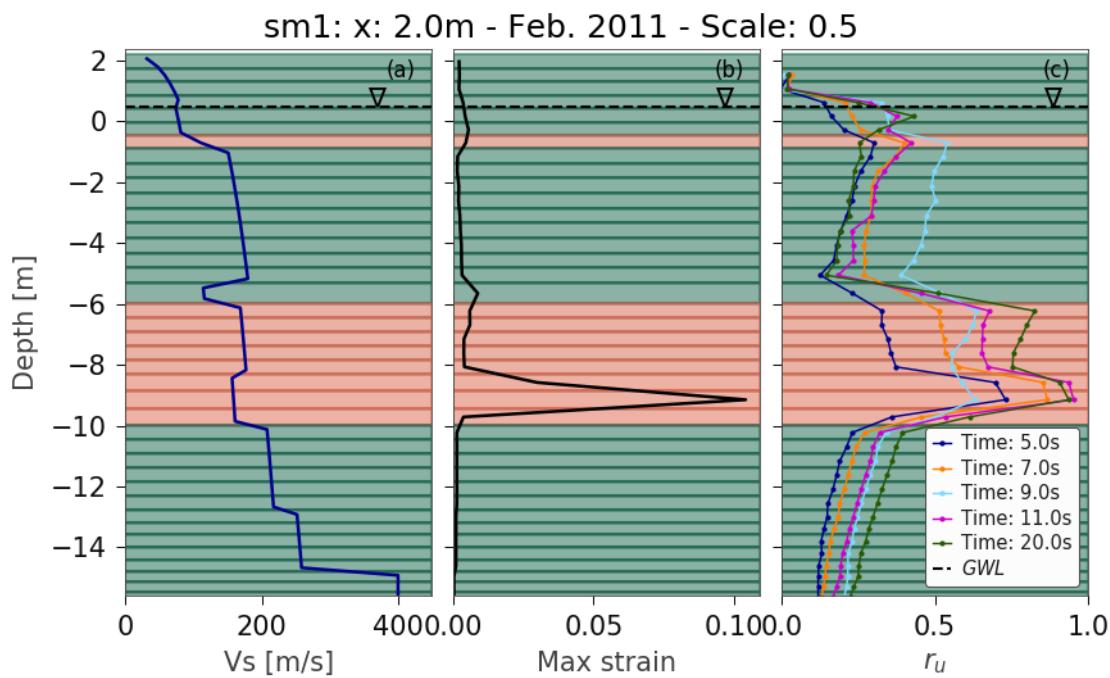


Figure 18: Profile performance (2D) sm1 - Feb. 2011 [scale: 0.5] at free-face

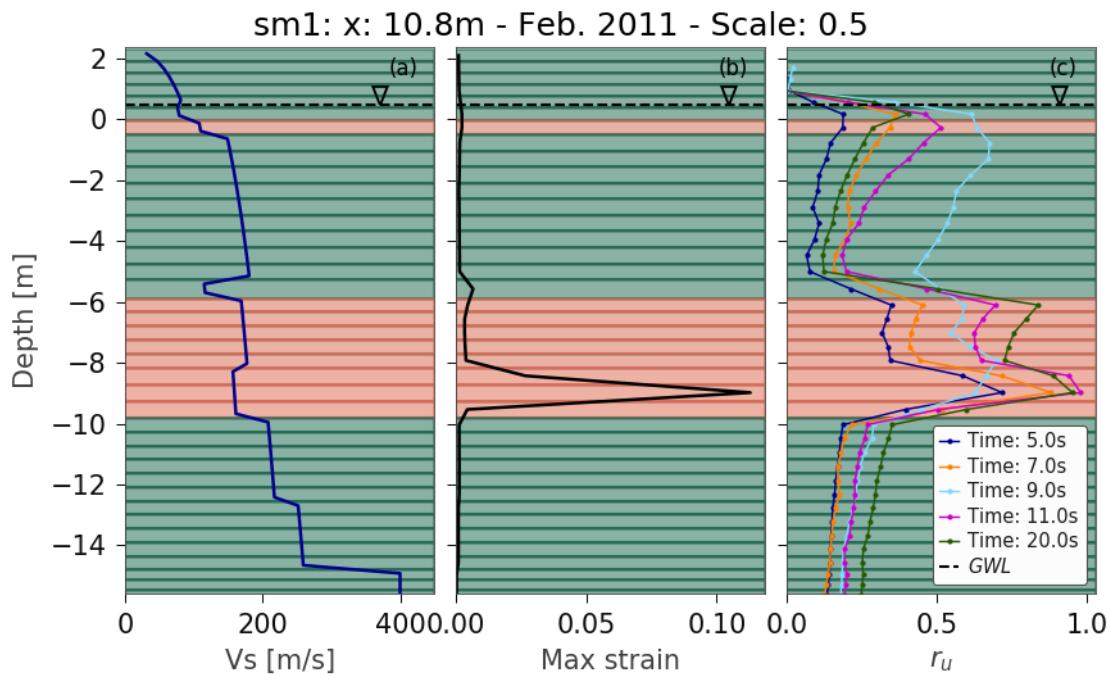


Figure 19: Profile performance (2D) sm1 - Feb. 2011 [scale: 0.5] at  $x = 5 \cdot H_{face}$

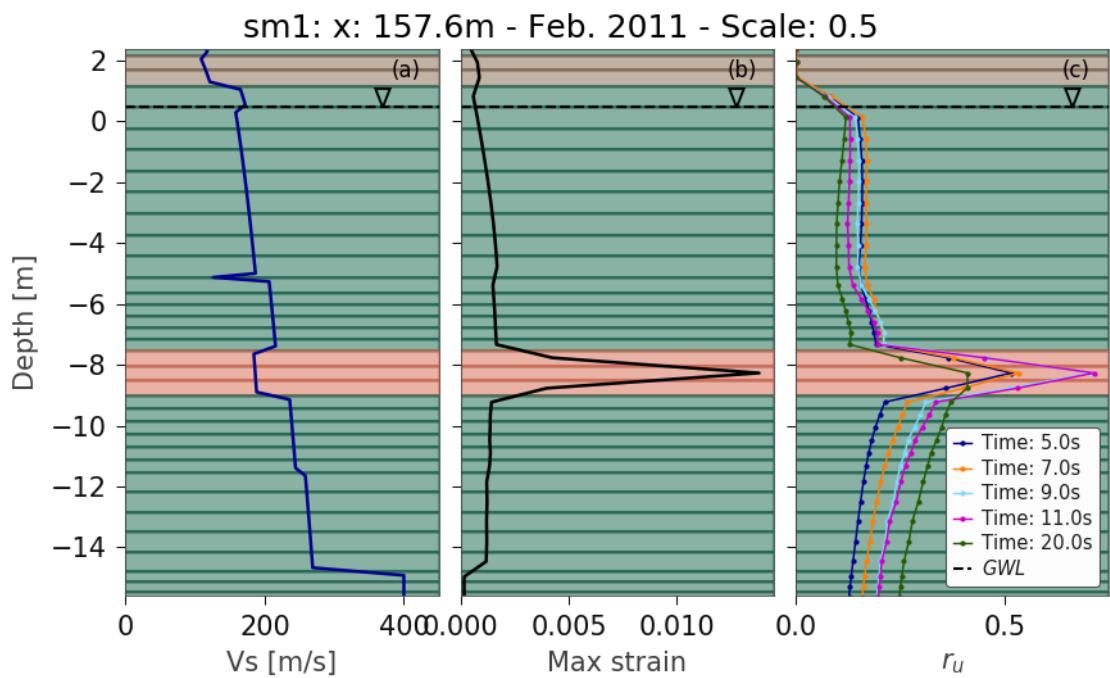


Figure 20: Profile performance (2D) sm1 - Feb. 2011 [scale: 0.5] at free-field

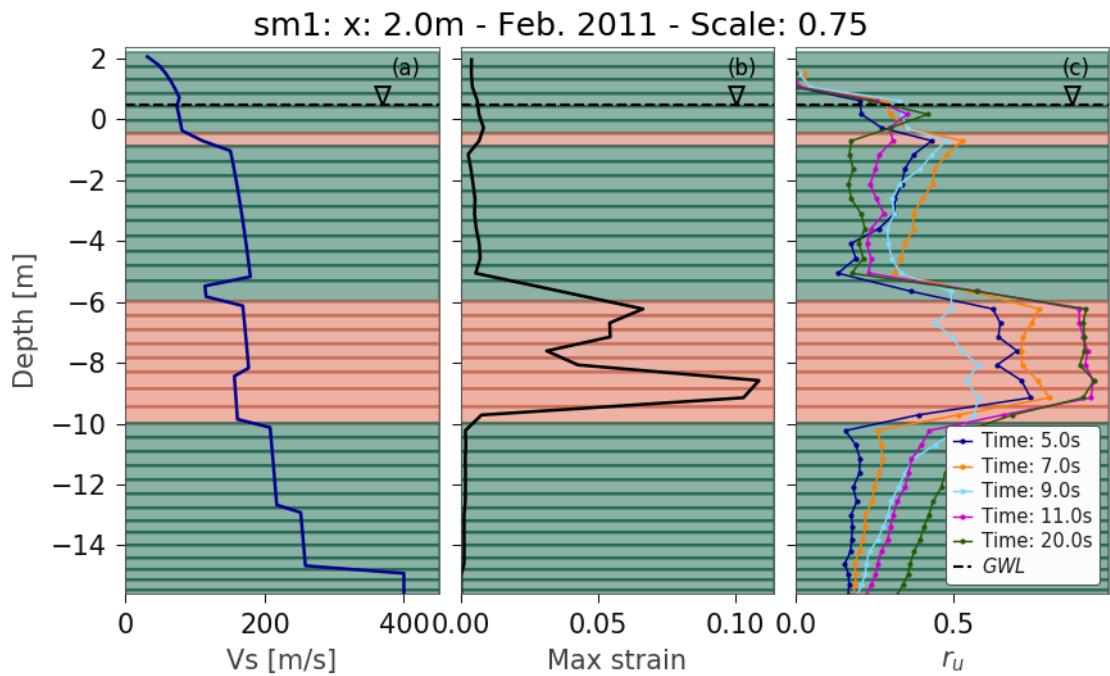


Figure 21: Profile performance (2D) sm1 - Feb. 2011 [scale: 0.75] at free-face

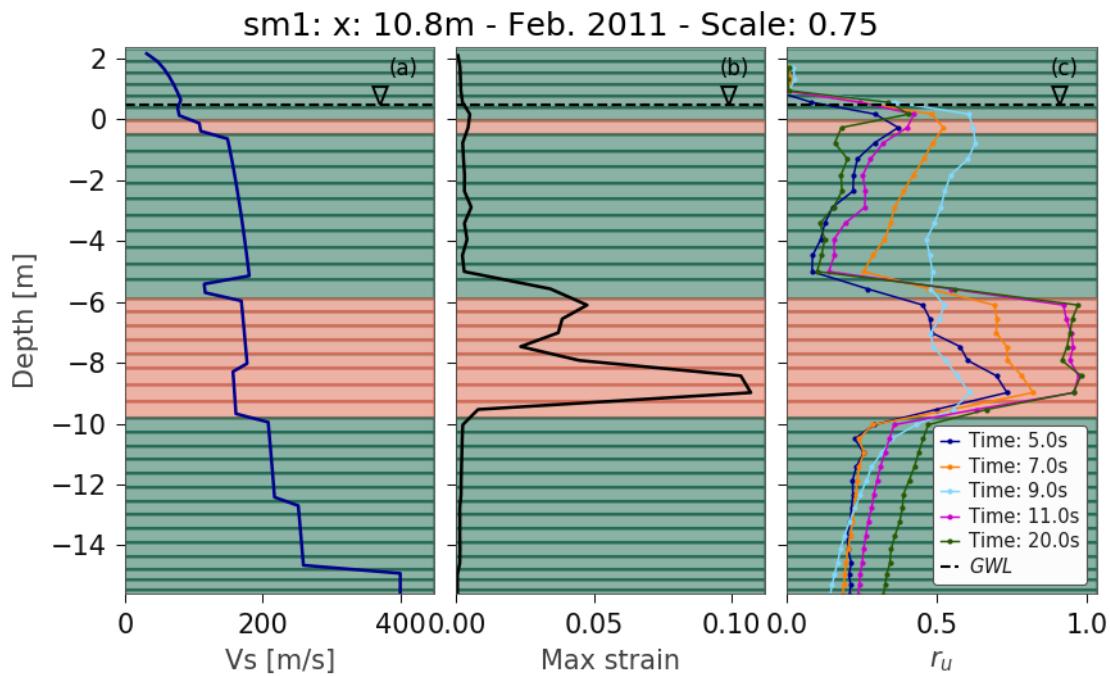


Figure 22: Profile performance (2D) sm1 - Feb. 2011 [scale: 0.75] at  $x = 5 \cdot H_{face}$

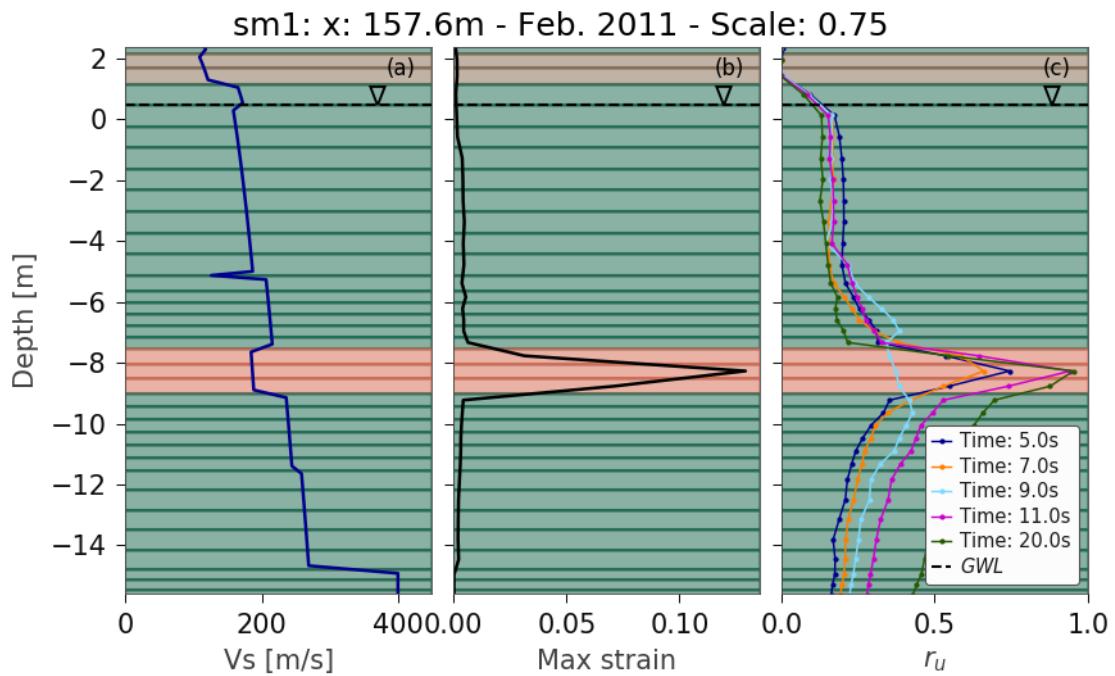


Figure 23: Profile performance (2D) sm1 - Feb. 2011 [scale: 0.75] at free-field

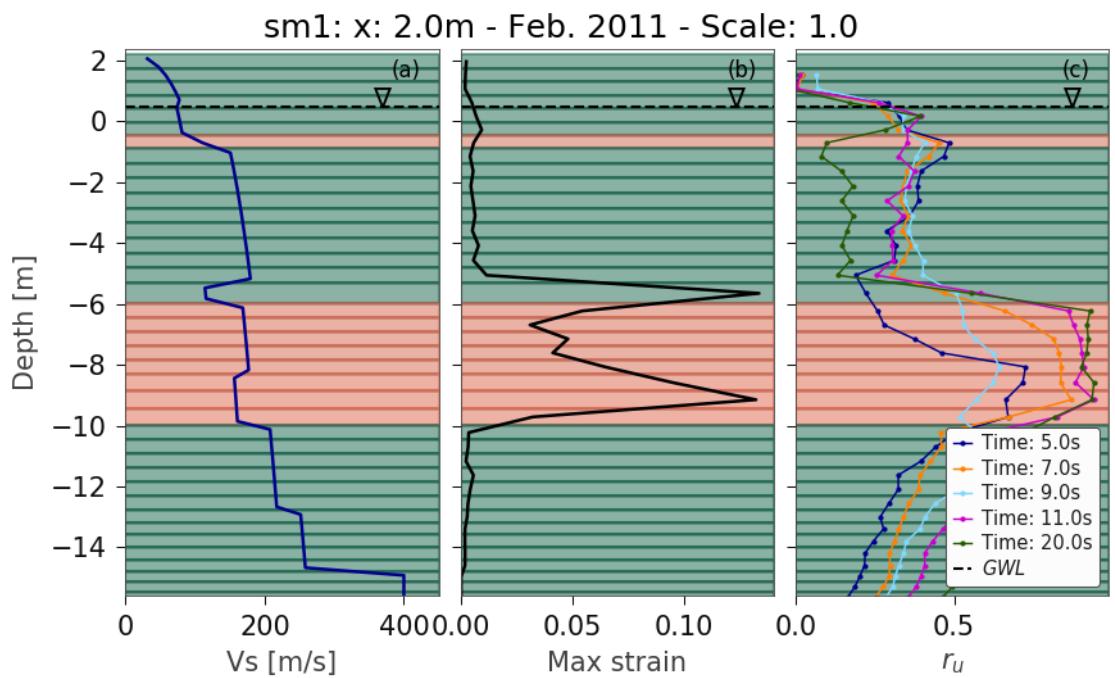


Figure 24: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.0] at free-face

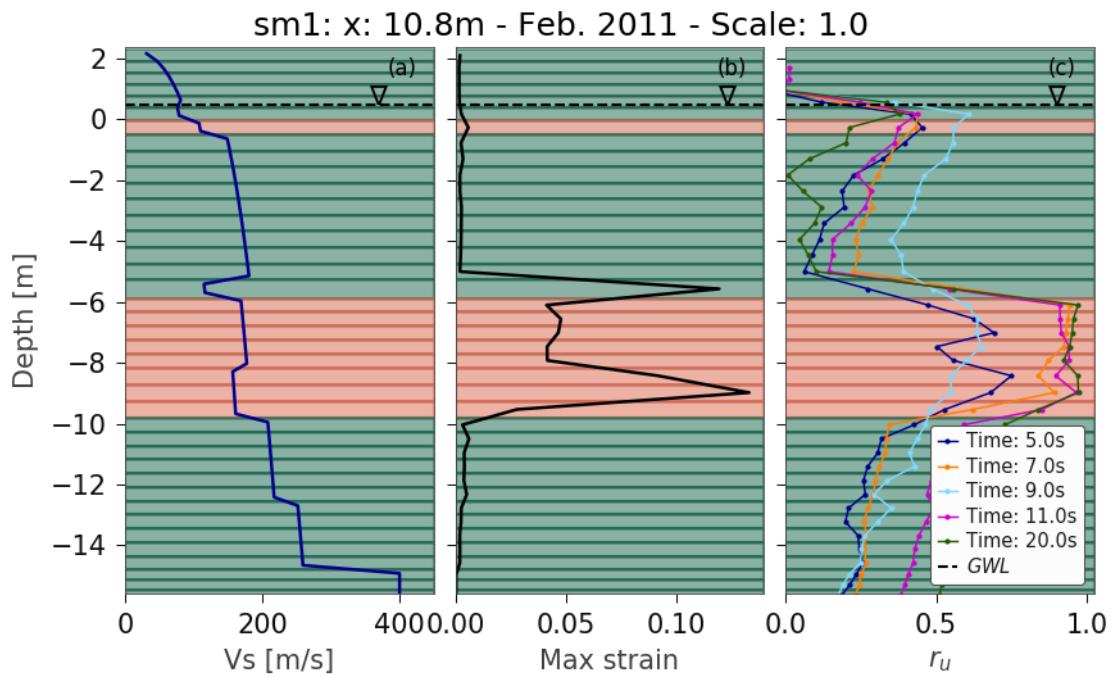


Figure 25: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.0] at  $x = 5 \cdot H_{face}$

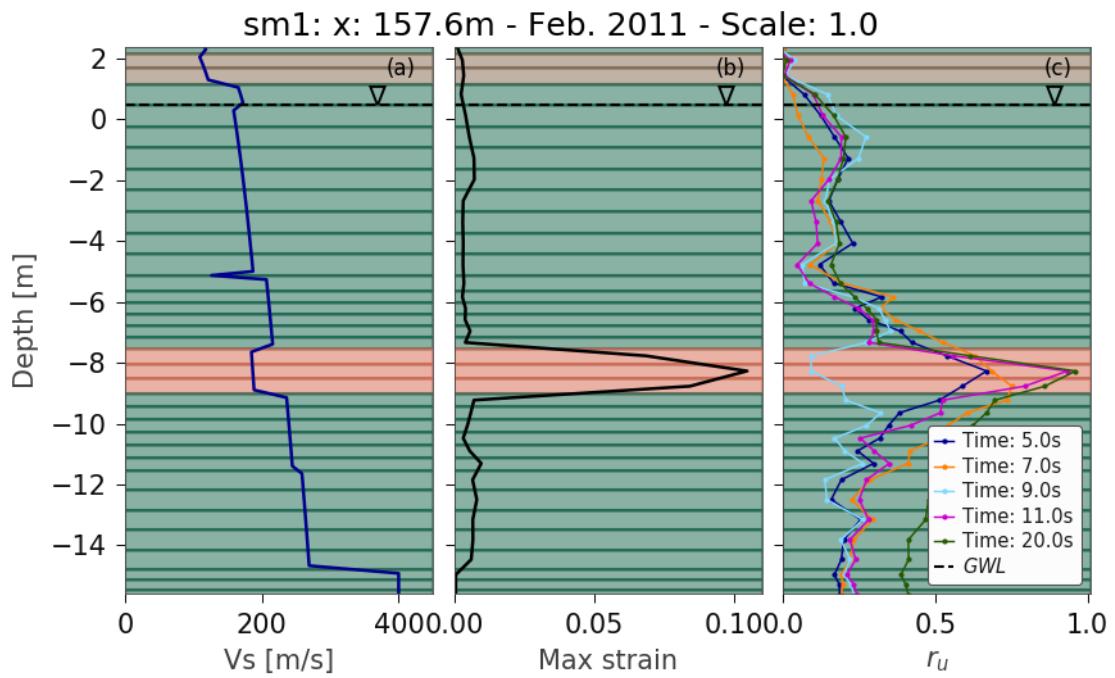


Figure 26: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.0] at free-field

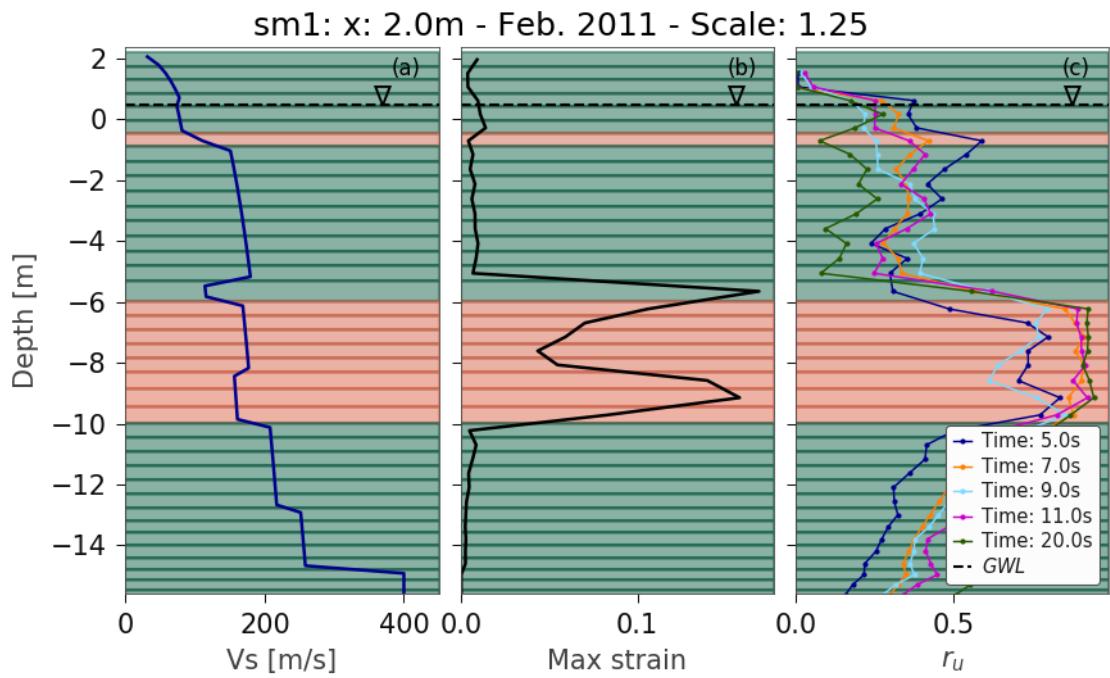


Figure 27: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.25] at free-face

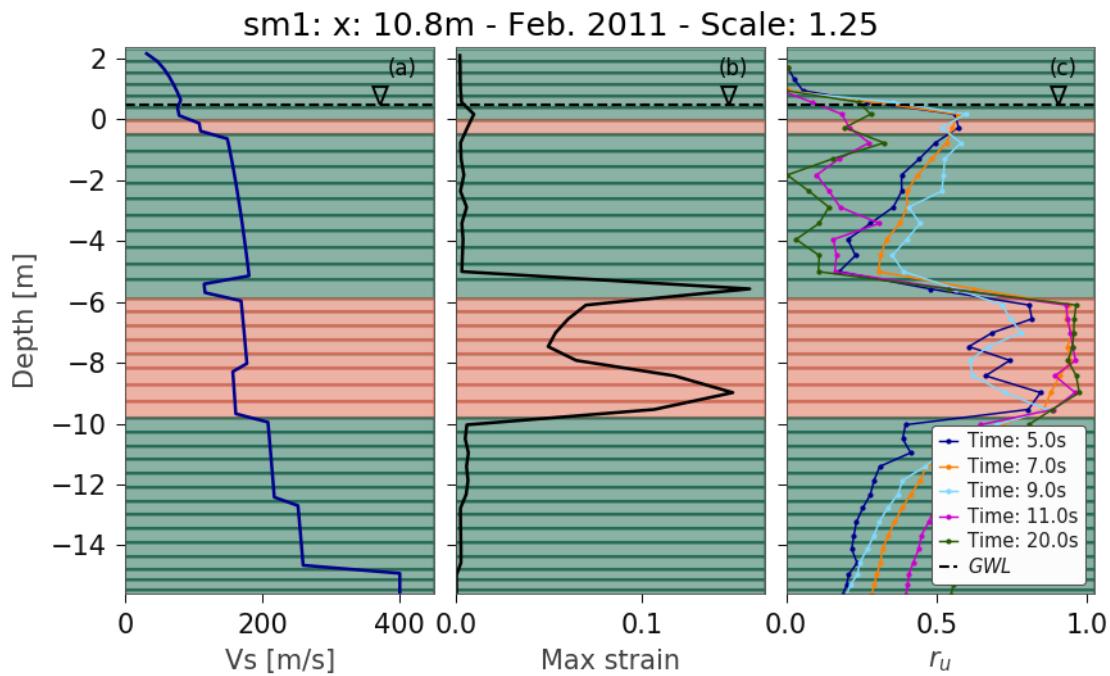


Figure 28: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.25] at  $x = 5 \cdot H_{face}$

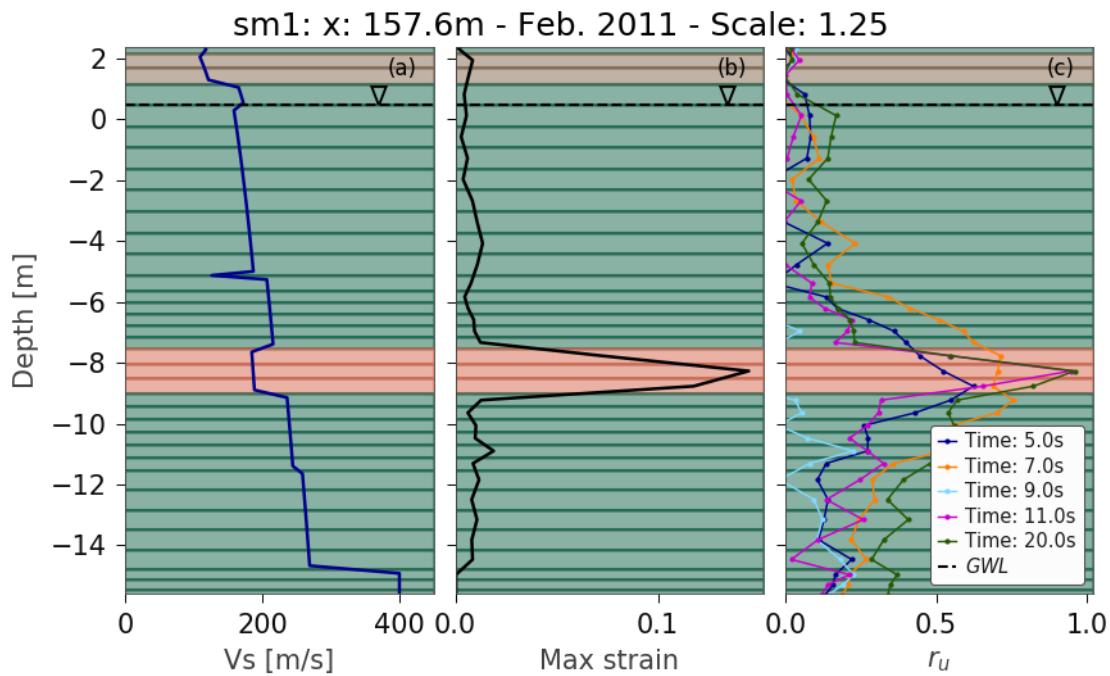


Figure 29: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.25] at free-field

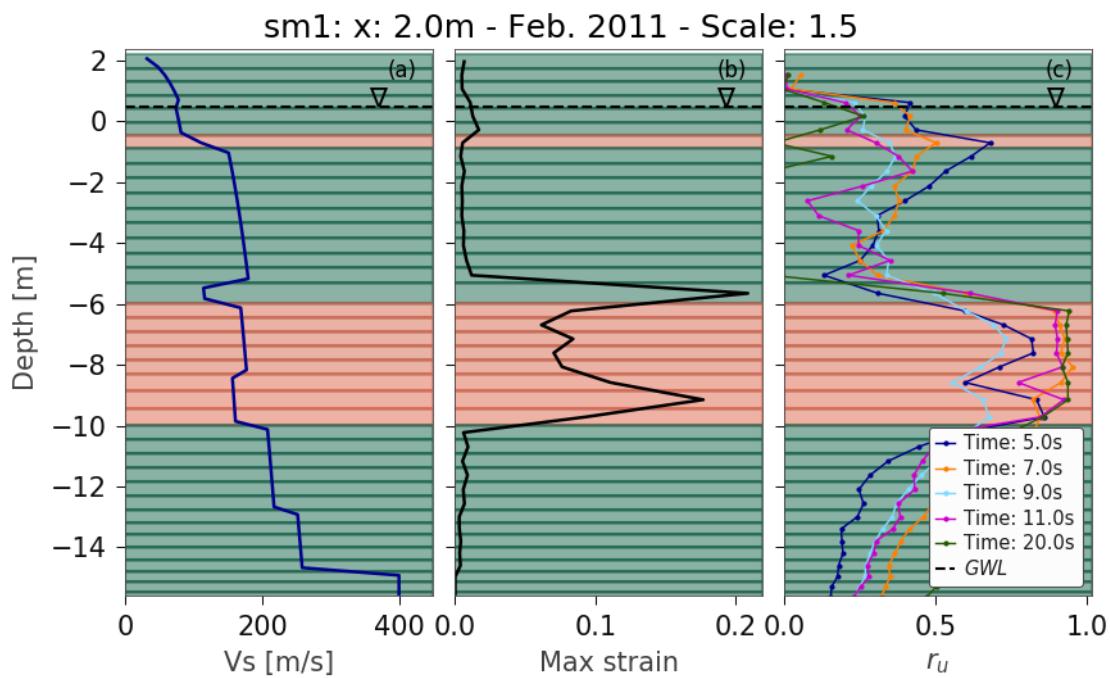


Figure 30: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.5] at free-face

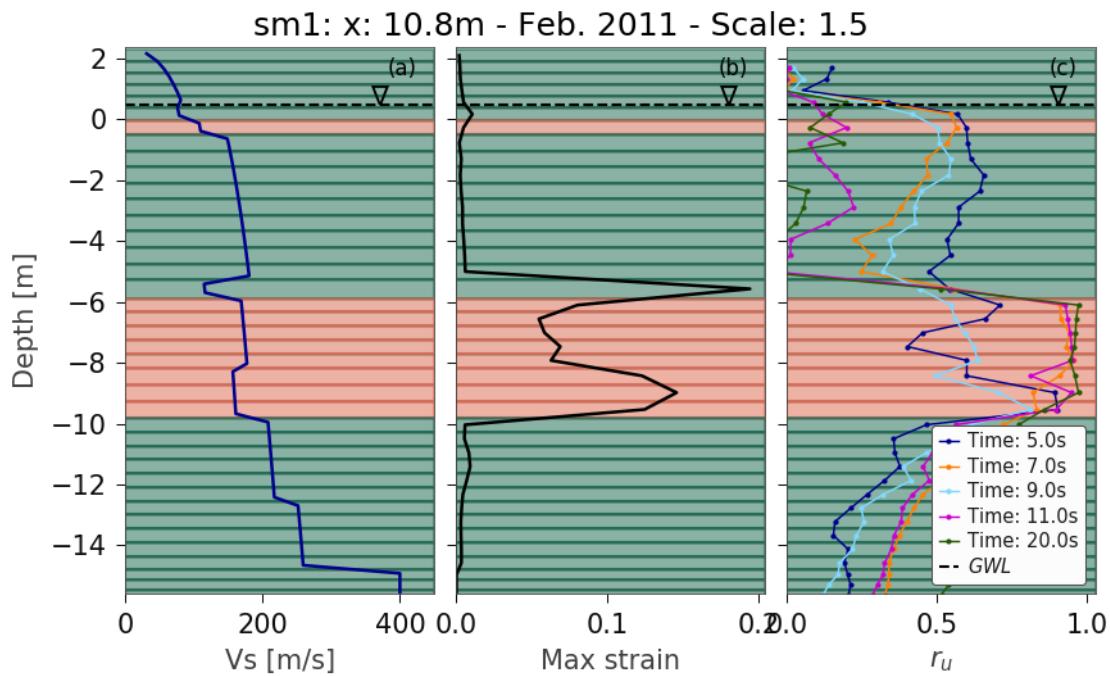


Figure 31: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.5] at  $x = 5 \cdot H_{face}$

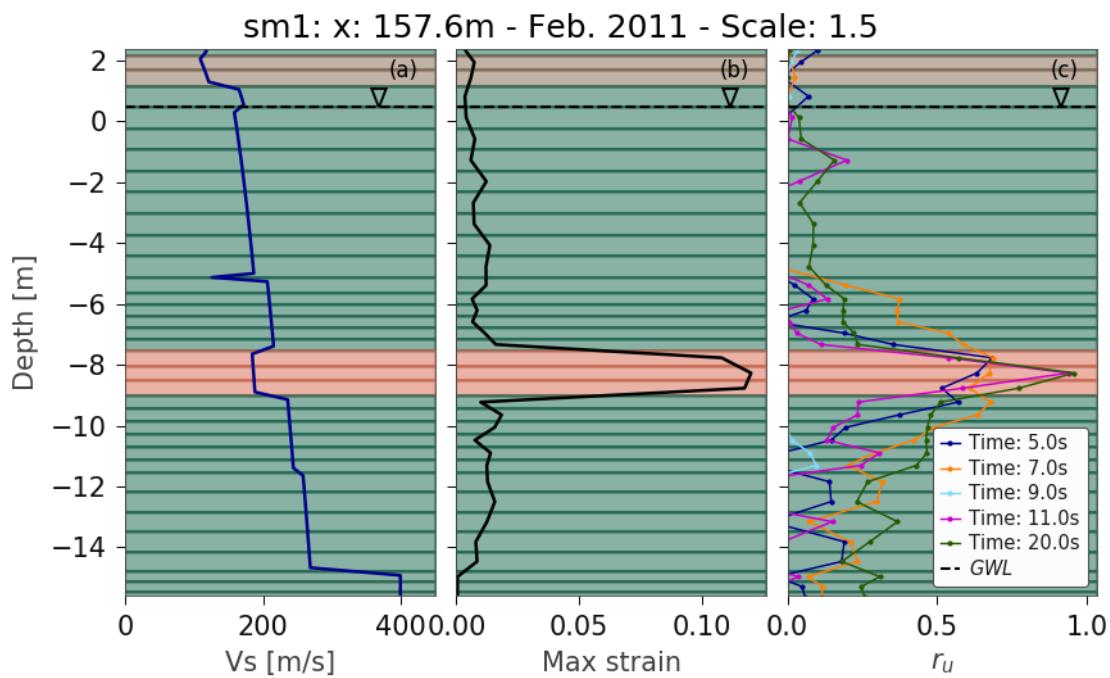


Figure 32: Profile performance (2D) sm1 - Feb. 2011 [scale: 1.5] at free-field

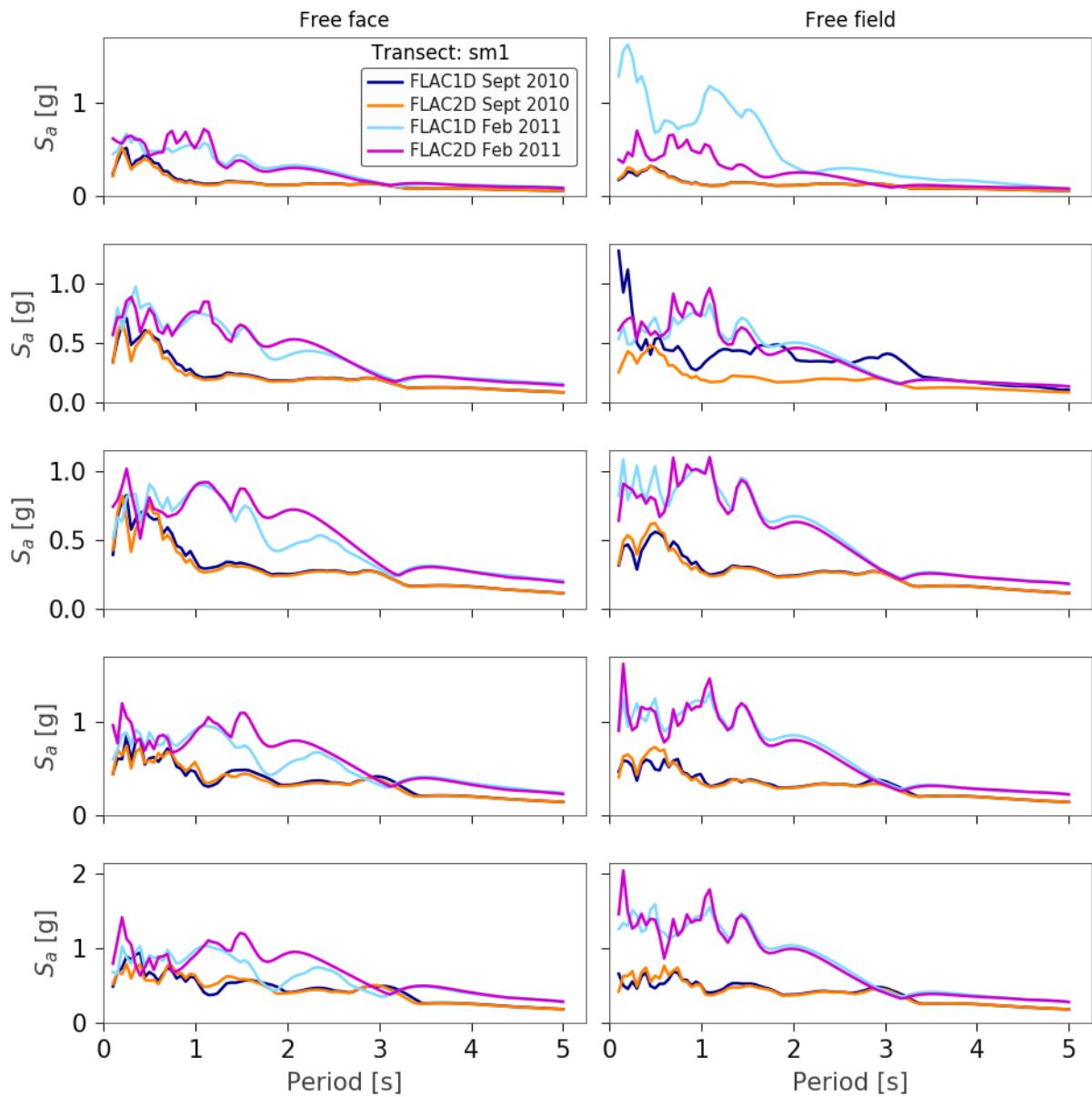


Figure 33: Comparison of surface motions: sm1

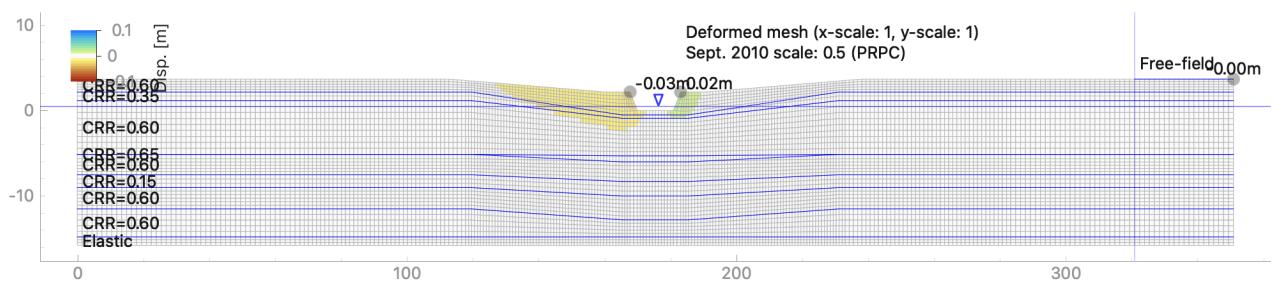


Figure 34: Horizontal displacement [mesh]: sm1 - Sept. 2010 [scale: 0.5]

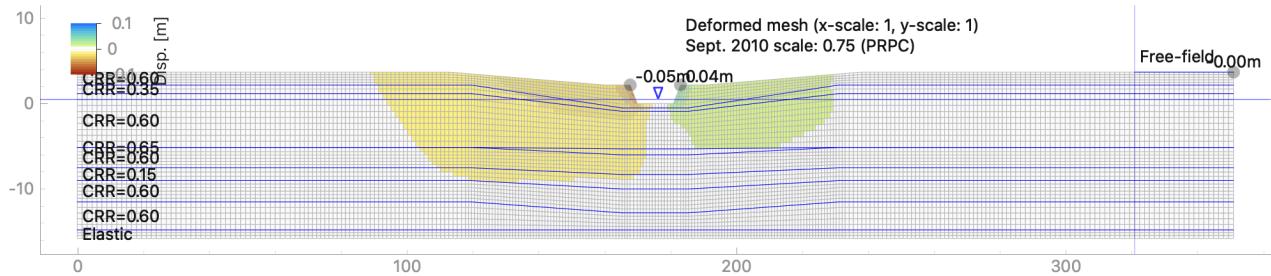


Figure 35: Horizontal displacement [mesh]: sm1 - Sept. 2010 [scale: 0.75]

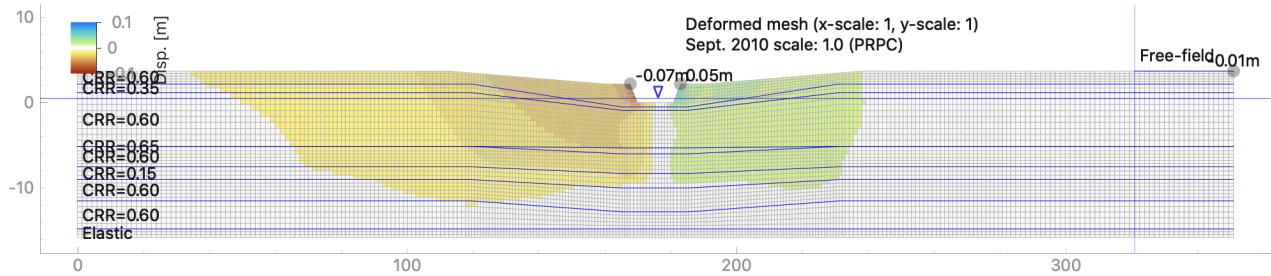


Figure 36: Horizontal displacement [mesh]: sm1 - Sept. 2010 [scale: 1.0]

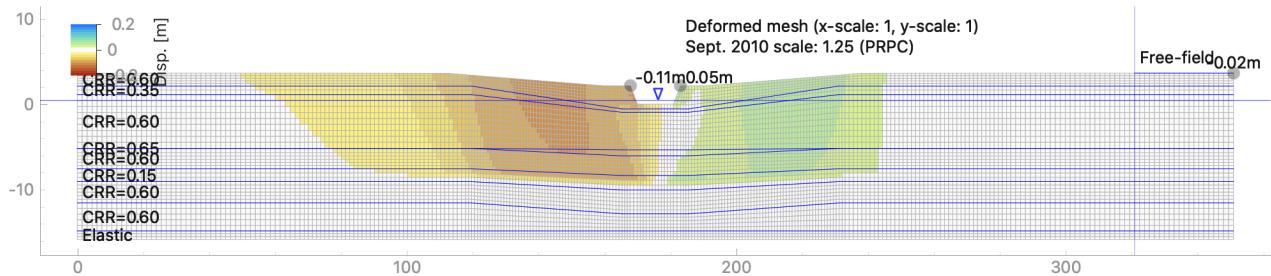


Figure 37: Horizontal displacement [mesh]: sm1 - Sept. 2010 [scale: 1.25]

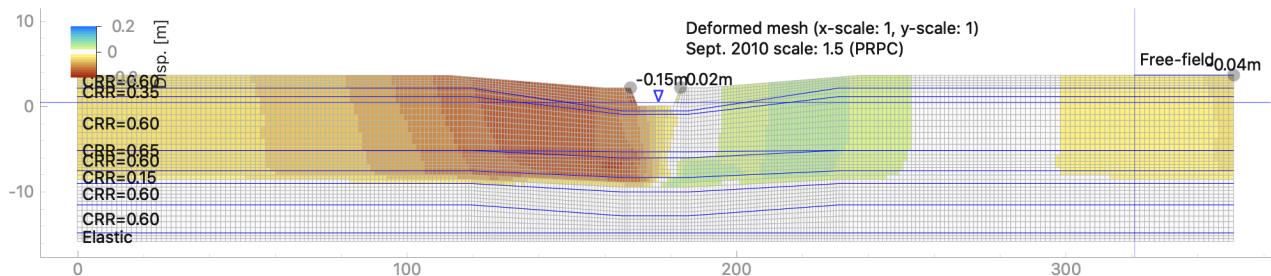


Figure 38: Horizontal displacement [mesh]: sm1 - Sept. 2010 [scale: 1.5]

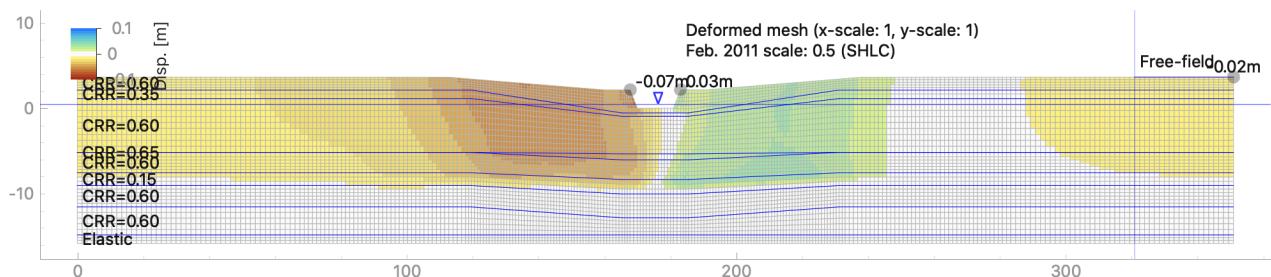


Figure 39: Horizontal displacement [mesh]: sm1 - Feb. 2011 [scale: 0.5]

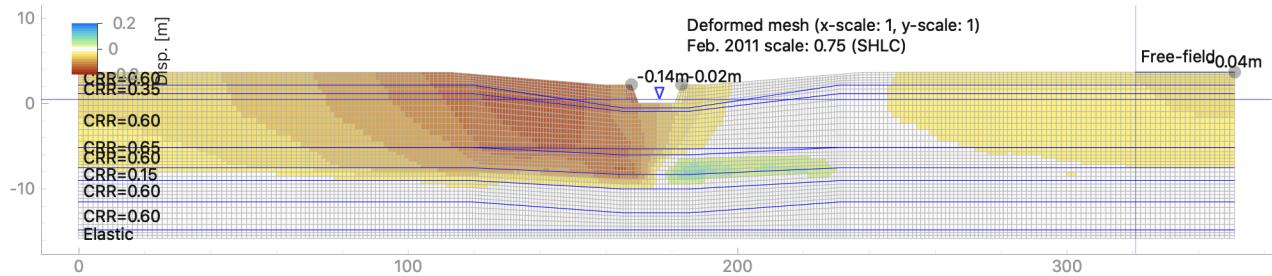


Figure 40: Horizontal displacement [mesh]: sm1 - Feb. 2011 [scale: 0.75]

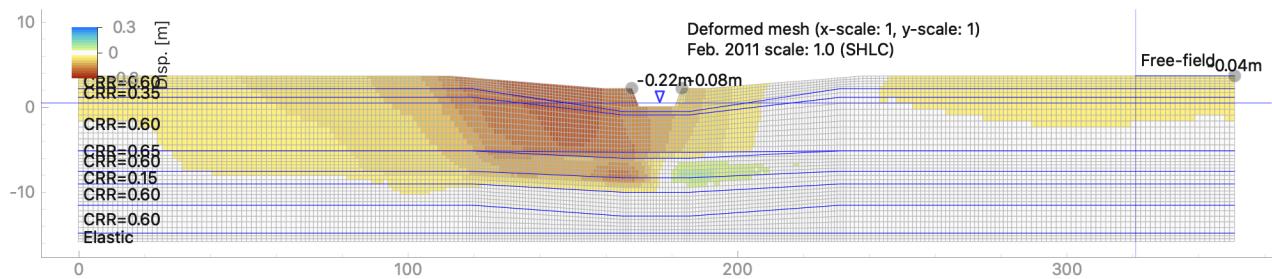


Figure 41: Horizontal displacement [mesh]: sm1 - Feb. 2011 [scale: 1.0]

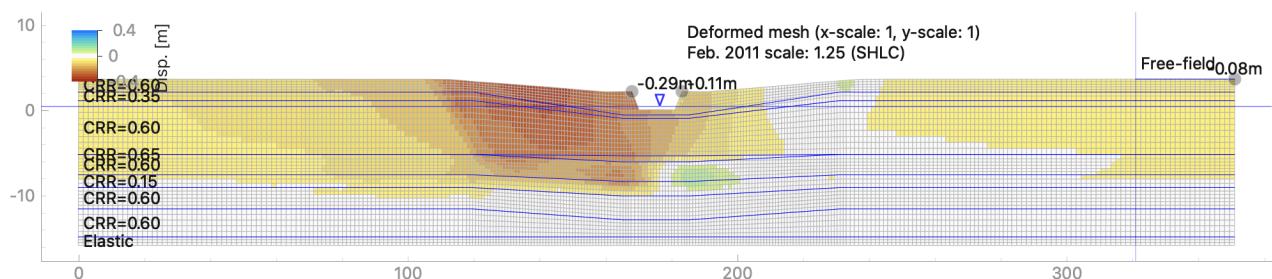


Figure 42: Horizontal displacement [mesh]: sm1 - Feb. 2011 [scale: 1.25]

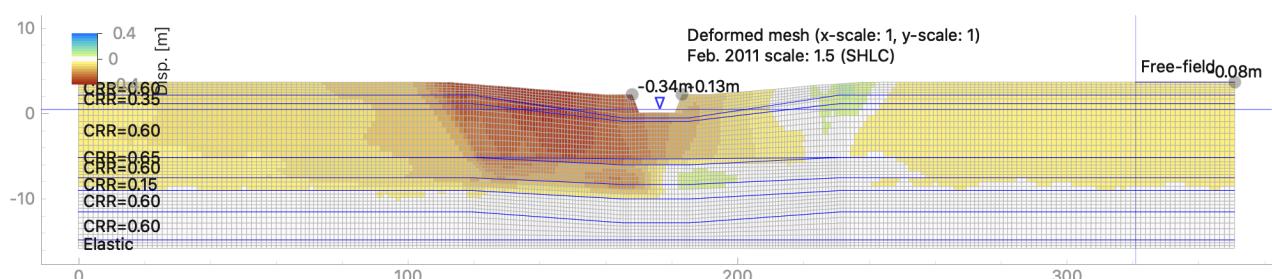


Figure 43: Horizontal displacement [mesh]: sm1 - Feb. 2011 [scale: 1.5]

### sm1 - Sept. 2010 (PRPC)

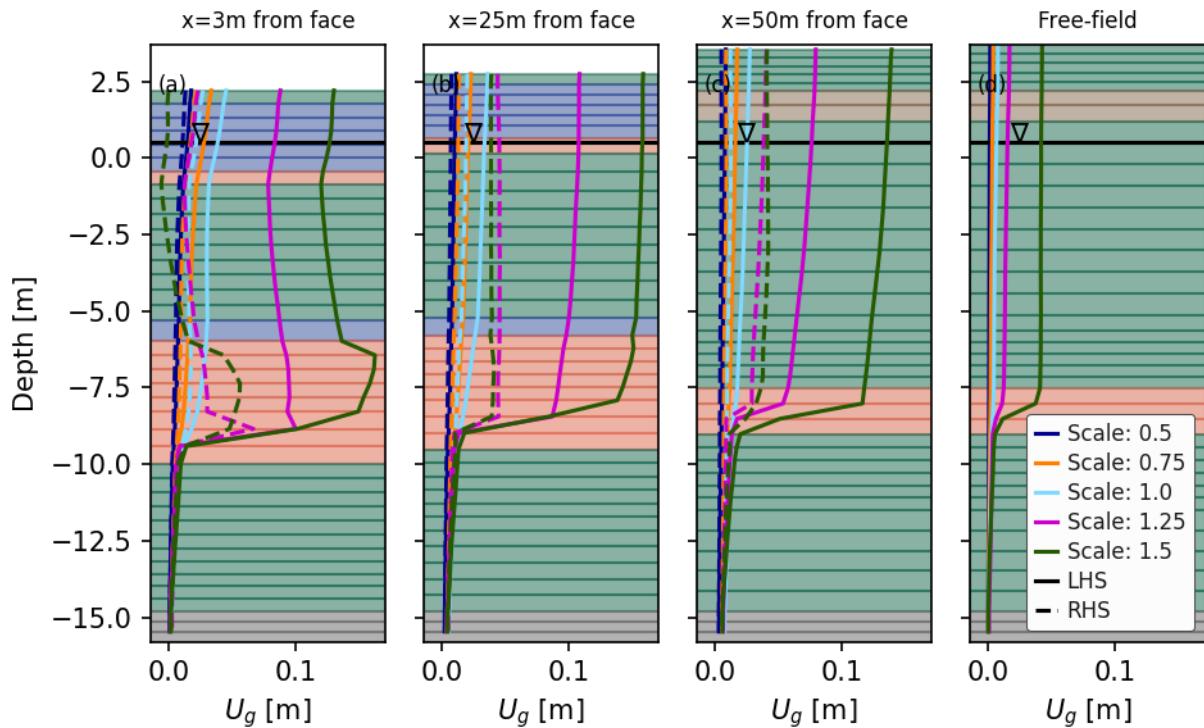


Figure 44: Lateral displacement vs depth: sm1 - Sept. 2010

### sm1 - Feb. 2011 (SHLC)

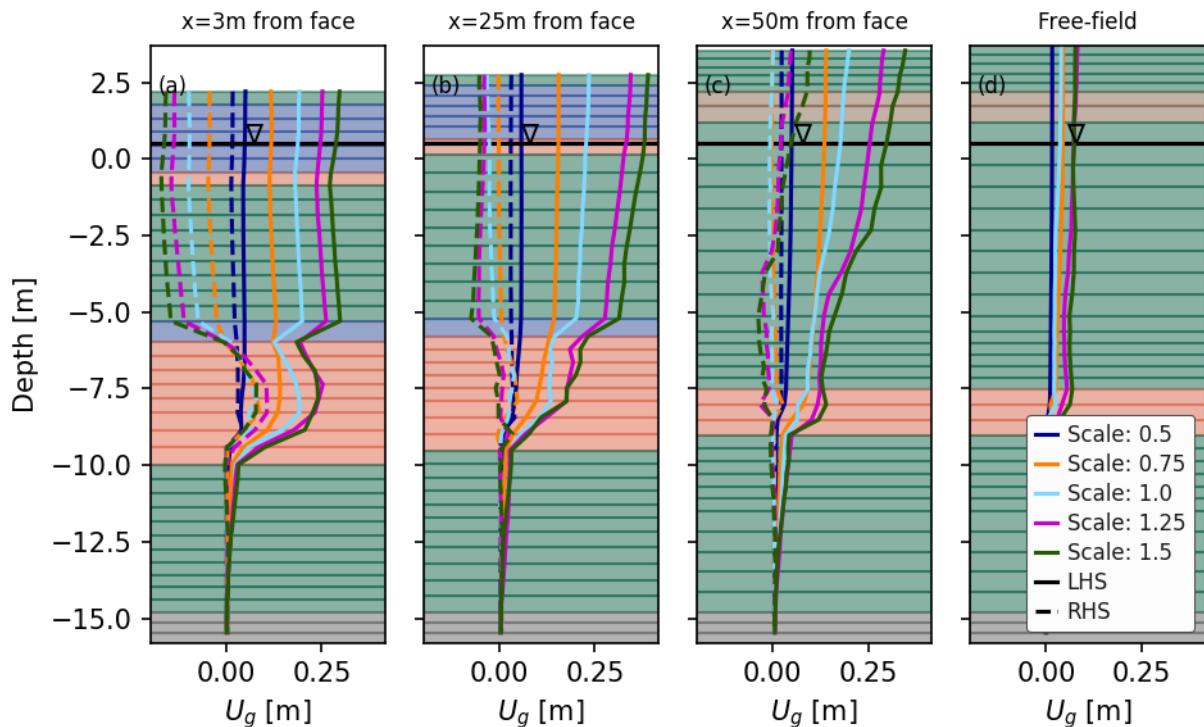


Figure 45: Lateral displacement vs depth: sm1 - Feb. 2011

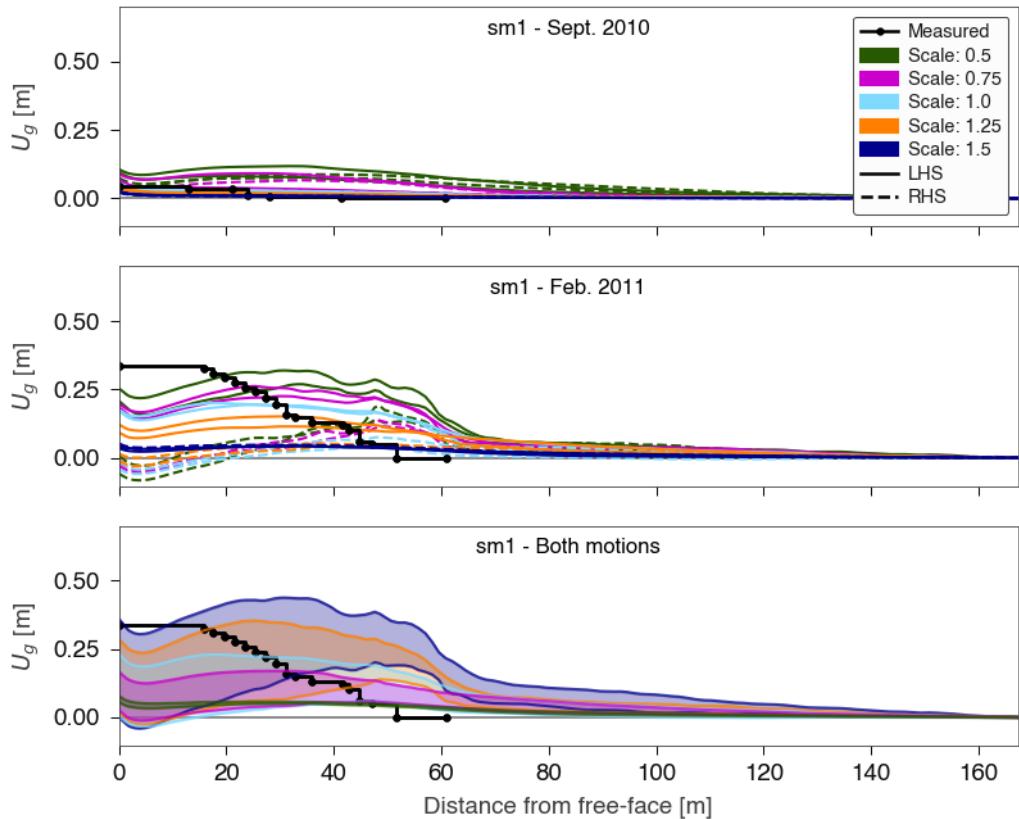


Figure 46: Lateral displacement vs distance: sm1

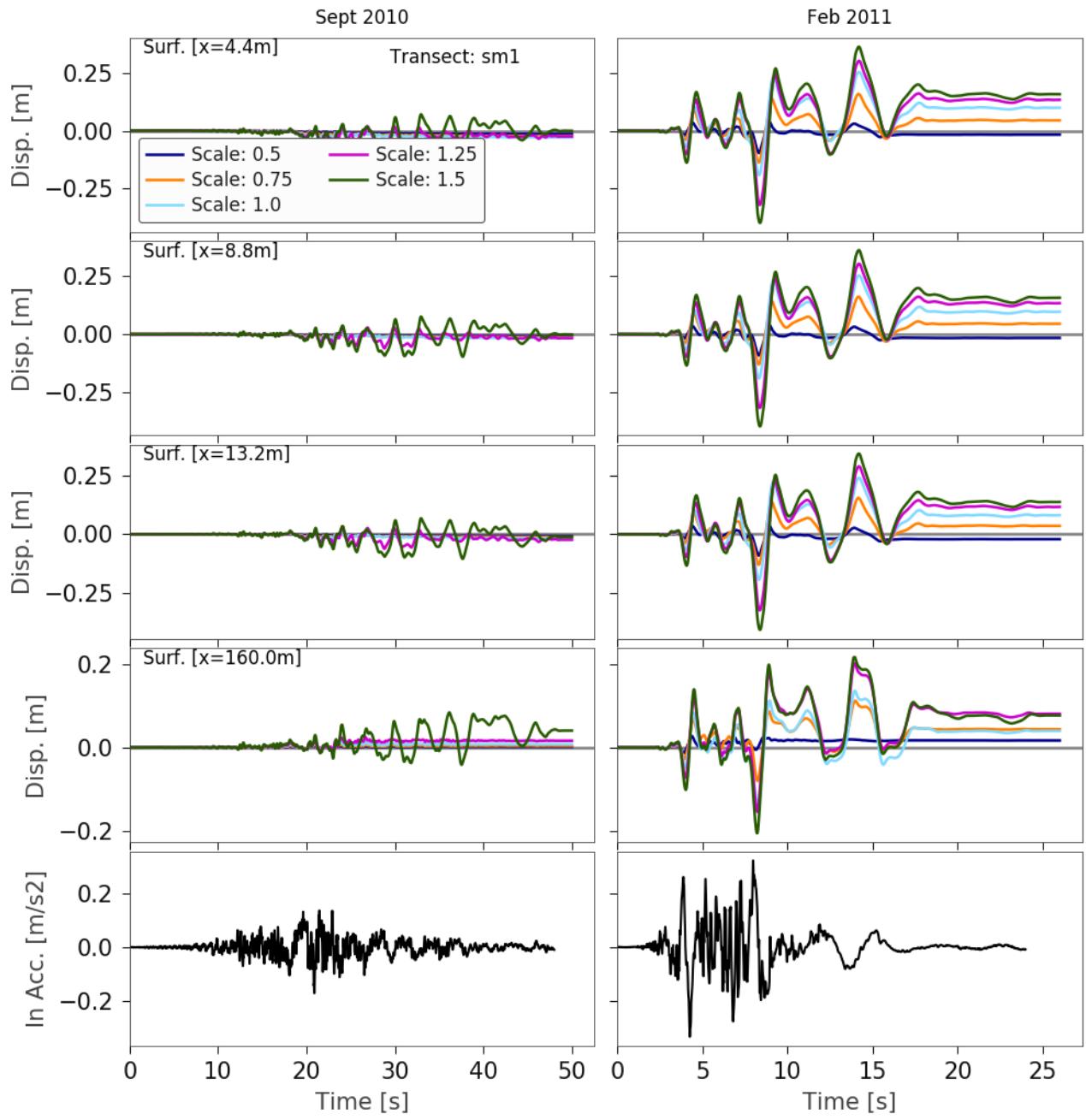


Figure 47: Lateral displacement vs time: sm1