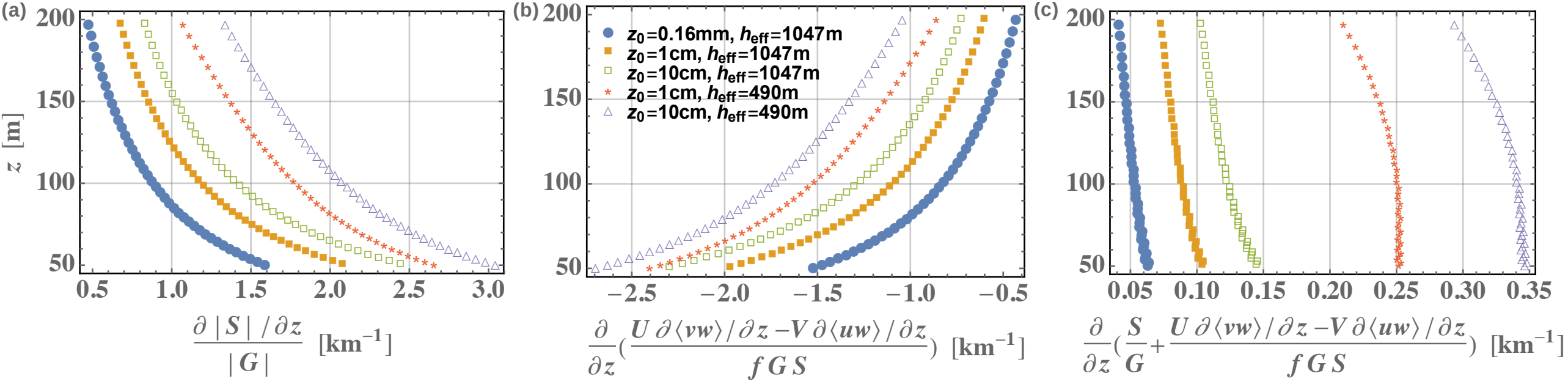
(a)
(b)
(c)
z [m]
200
150
100
50
0.5
1.0
1.5
2.0
2.5
3.0
−2.5
−2.0
−1.5
−1.0
−0.5
0.05
0.10
0.15
0.20
0.25
0.30
0.35
z0=0.16mm, heff=1047m
z0=1cm, heff=1047m
z0=10cm, heff=1047m
z0=1cm, heff=490m
z0=10cm, heff=490m
∂|S|/∂z / |G| [km−1]
∂/∂z (U ∂⟨vw⟩/∂z − V ∂⟨uw⟩/∂z / f G S) [km−1]
∂/∂z (S/G + U ∂⟨vw⟩/∂z − V ∂⟨uw⟩/∂z / f G S) [km−1]