ZREF = 1 (bottom of the atmosphere lies at the ground)
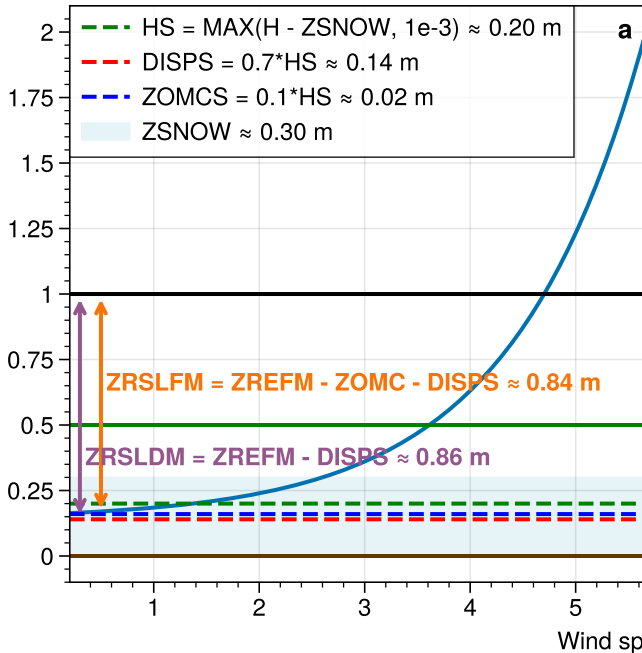
Logarithmic Wind Profile (Grass over snow)
Actual model behavior?

- HS = MAX(H - ZSNOW, 1e-3) ≈ 0.20 m
- DISPS = 0.7*HS ≈ 0.14 m
- ZOMCS = 0.1*HS ≈ 0.02 m
- ZSNOW ≈ 0.30 m

ZRSLFM = ZREFM - ZOMC - DISPS ≈ 0.84 m

ZRSLDM = ZREFM - DISPS ≈ 0.86 m

Logarithmic Wind Profile (Grass over snow)
Correct model behavior?

- HS = MAX(H - ZSNOW, 1e-3) ≈ 0.20 m
- DISPS = 0.7*HS ≈ 0.14 m
- ZOMCS = 0.1*HS ≈ 0.02 m
- ZSNOW ≈ 0.30 m

ZRSLFM = ZREFM - ZOMC - DISPS - ZS ≈ 0.54 m

ZRSLDM = ZREFM - DISPS - ZS ≈ 0.56 m

Height z (m)

Wind speed U (m/s)