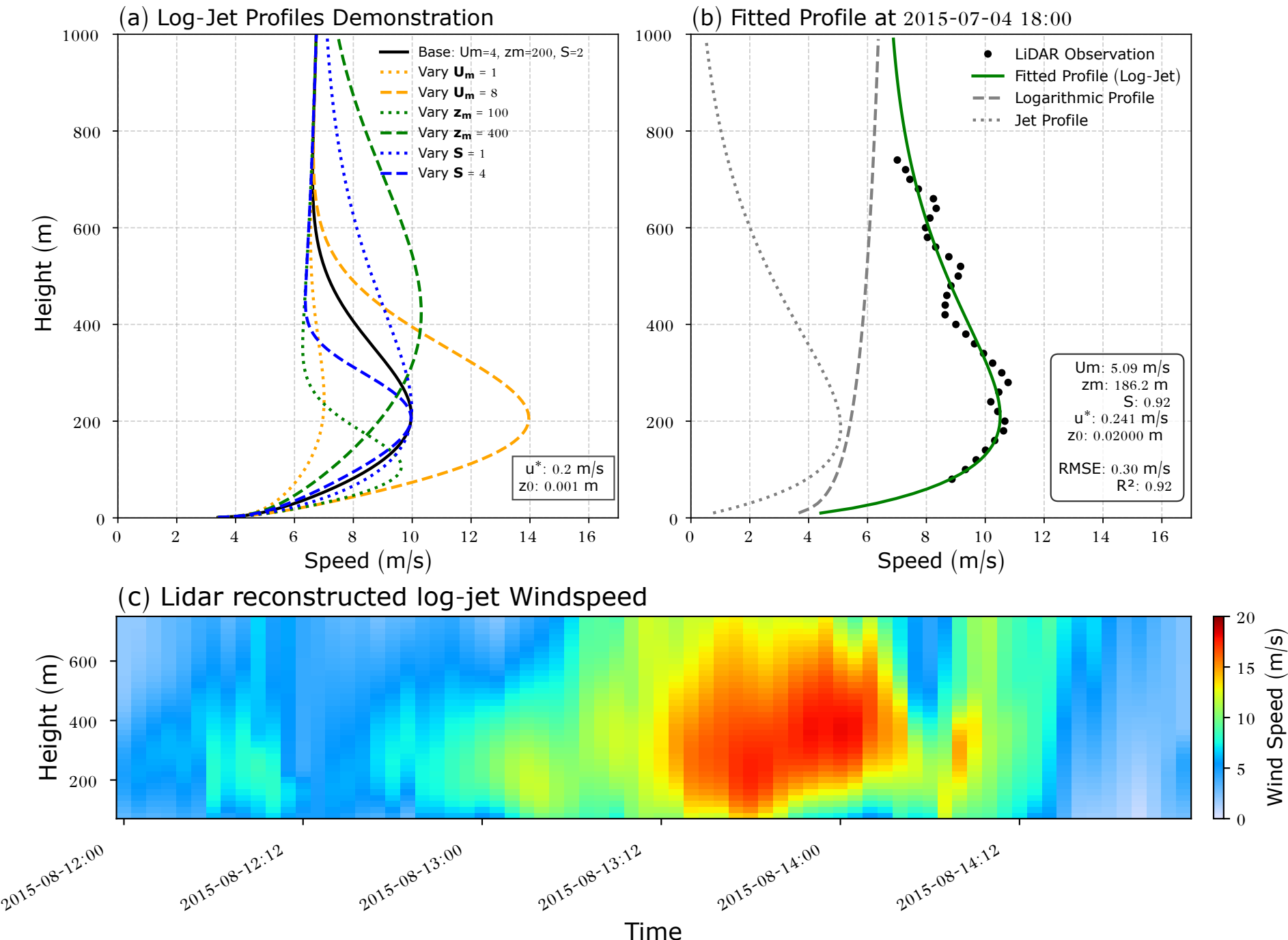
(a) Log-Jet Profiles Demonstration
Base: Um=4, zm=200, S=2
Vary Um = 1
Vary Um = 8
Vary zm = 100
Vary zm = 400
Vary S = 1
Vary S = 4
u*: 0.2 m/s
z0: 0.001 m
Height (m)
Speed (m/s)
(b) Fitted Profile at 2015-07-04 18:00
LiDAR Observation
Fitted Profile (Log-Jet)
Logarithmic Profile
Jet Profile
Um: 5.09 m/s
zm: 186.2 m
S: 0.92
u*: 0.241 m/s
z0: 0.02000 m
RMSE: 0.30 m/s
R²: 0.92
Height (m)
Speed (m/s)
(c) Lidar reconstructed log-jet Windspeed
Height (m)
Wind Speed (m/s)
2015-08-12:00
2015-08-12:12
2015-08-13:00
2015-08-13:12
2015-08-14:00
2015-08-14:12
Time