



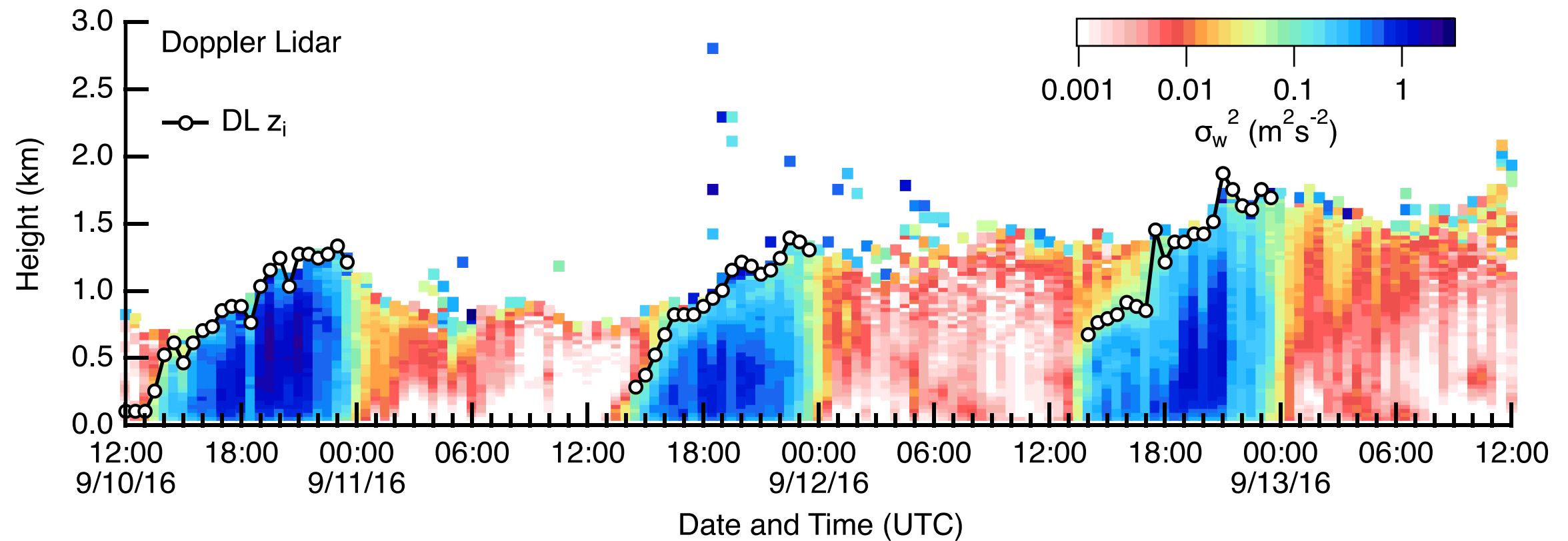
Using Doppler lidar to evaluate the simulation of the evening transition

June 28, 2019

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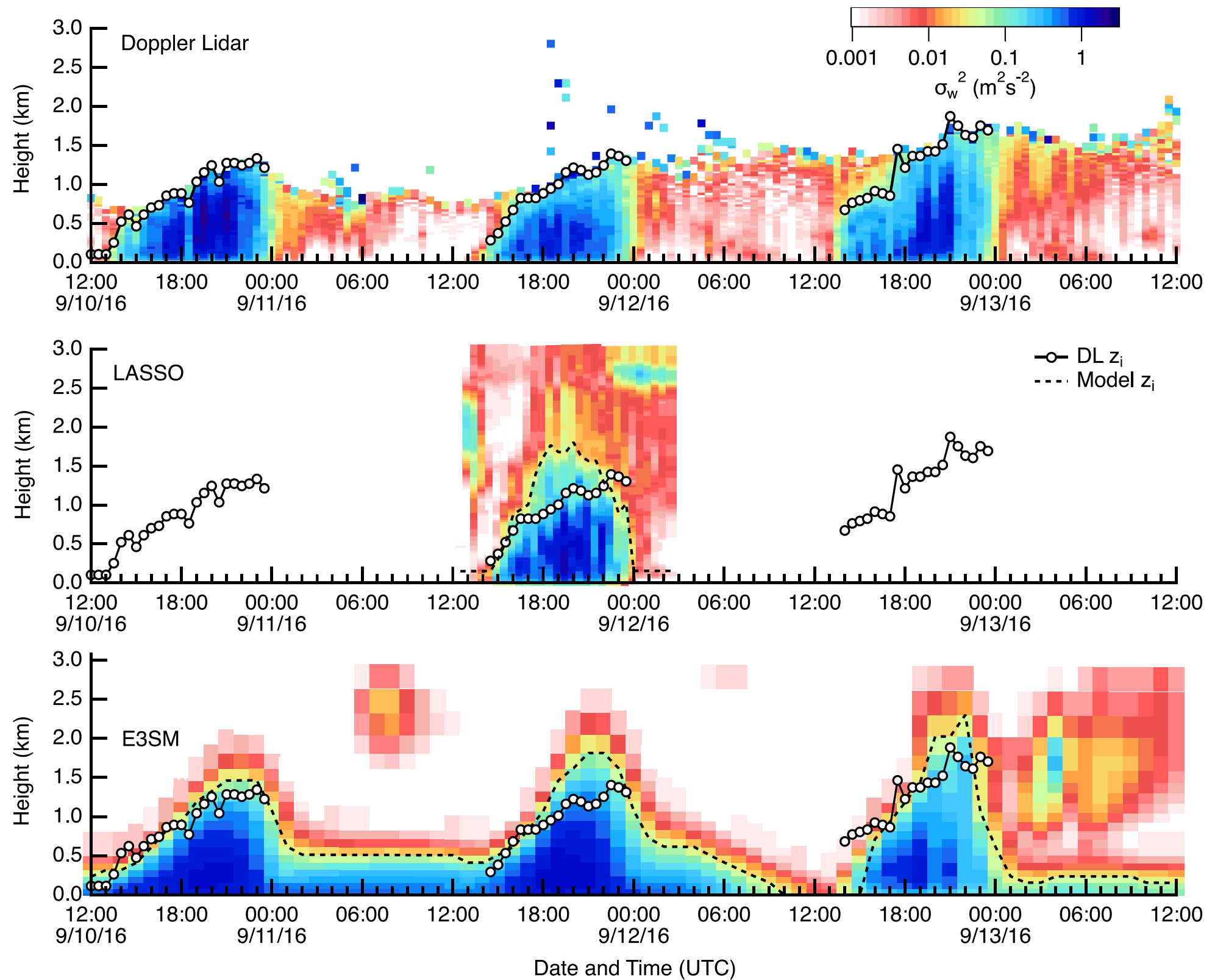
Analysis of HI-SCALE data

- Three nights selected from HI-SCALE's second IOP



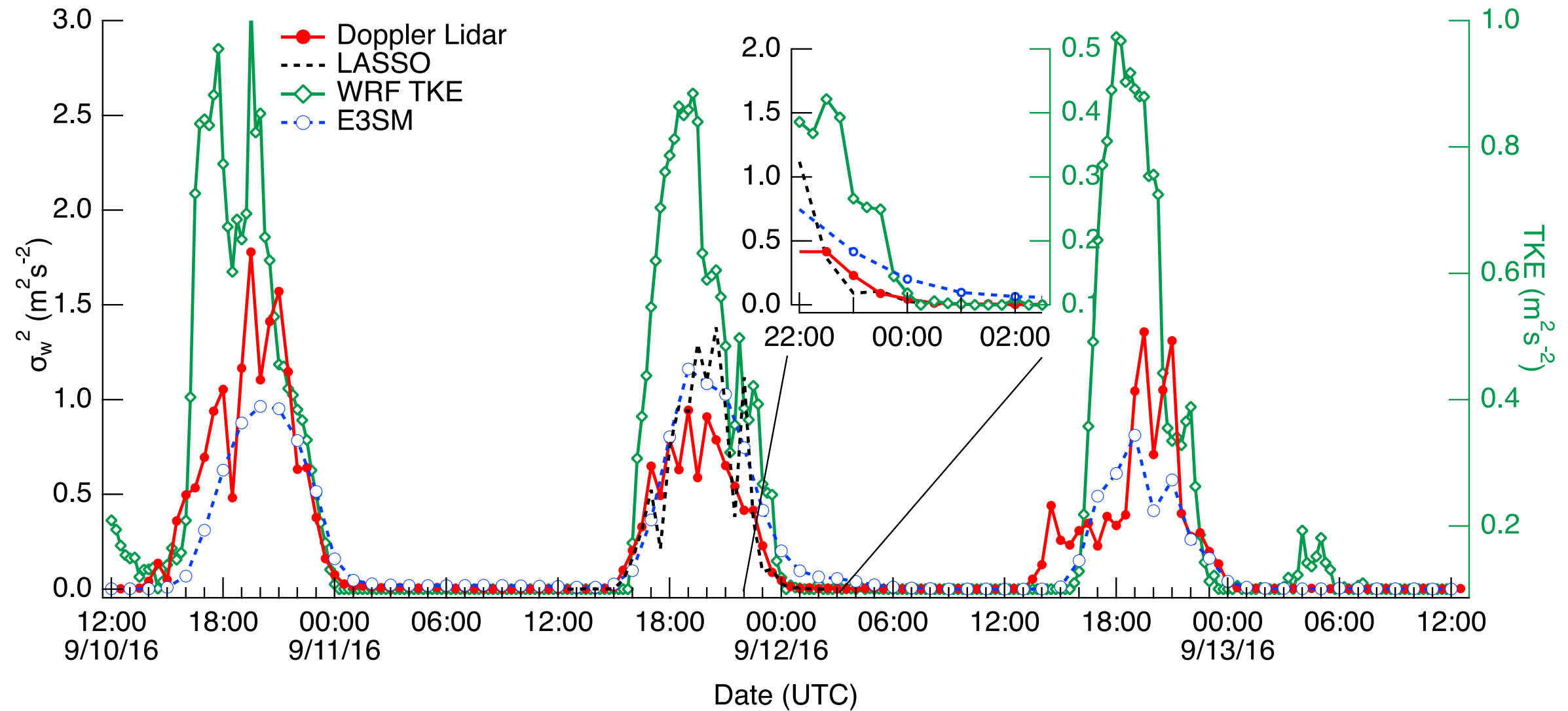
- Mixed layer depth determined based on w variance threshold (Berg et al. 2017)

- Simulations
 - LASSO-like
 - WRF (not shown)
 - E3SM

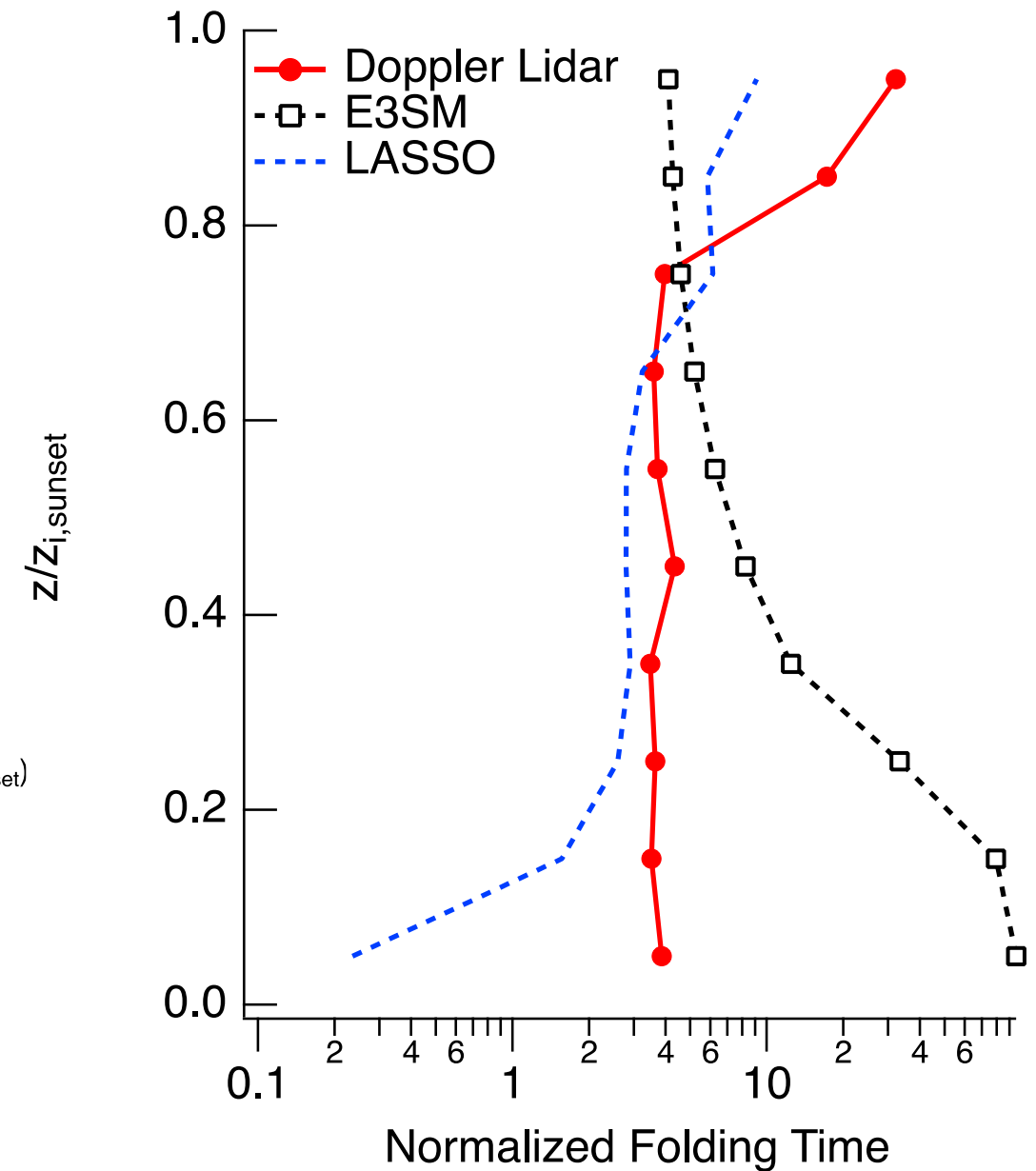
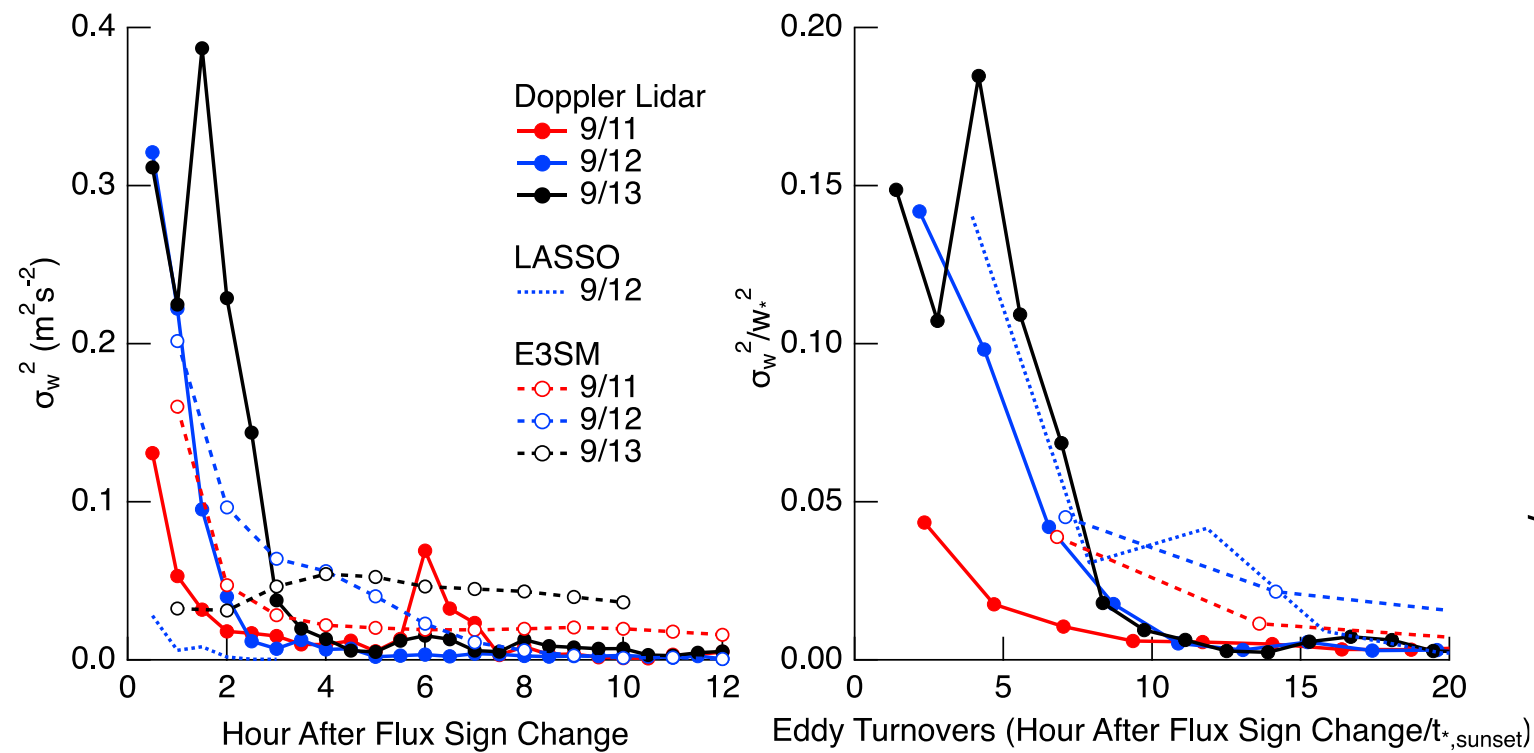


How do observed and simulated transitions compare?

Results from $0.5z/z_{i,sunest}$



How do observed and simulated transitions compare?



- Next steps:
 - Further work needed related to scaling
 - Continue to evaluate model performance
 - Additional days/cases



Thank you