Speed, heading, and time  $R^{2}$  (%) 6.415 5.605 7.425 3.618 8.009 9.323 2.366  $\times 10^{-1}$ ×10<sup>-1</sup>  $\times 10^{-1}$  $\times 10^{-2}$  $\times 10^{-1}$ ×10<sup>-3</sup>  $\times 10^{-1}$ 1.0 1.0 1.0 1.0 8.766 5.605 7.425 8.766 8.009 5.869 2.366 3.417  $\times 10^{-1}$ ×10<sup>-1</sup>  $\times 10^{-1}$  $\times 10^{-2}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$ 1.0 1.0 1.0 1.0 6.415 5.869 8.766 3.417 3.618 8.766 9.323  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$ ×10<sup>-1</sup>  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-3}$ 1.0 1.0 1.0 1.0 Forecasting time 3 s Forecasting time 5 s Forecasting time 2 s Forecasting time 4 s 9.323 1.302 3.32 6.98 1.031 3.721 ×10<sup>-3</sup>  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$ 1.0 1.0 1.0 GRU Att 4 3.13 1.302 7.415 6.98 1.232 3.721  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-1}$  $\times 10^{-2}$  $\times 10^{-1}$ 1.0 1.0 1.0 GRU Att 2

