Along-wind TI

Trad. method

a

$\tilde{TI}_u$ [-] — Single-lidar

TI_u [-] — Sonic

$y = 1.07x$
$R^2 = 0.89$

Variance method

b

$\hat{TI}_u$ [-] — Dual-lidar

TI_u [-] — Sonic

$y = 0.95x$
$R^2 = 0.94$

Cross-wind TI

Trad. method

c

$\tilde{TI}_v$ [-] — Single-lidar

TI_v [-] — Sonic

$y = 1.18x$
$R^2 = 0.94$

Variance method

d

$\hat{TI}_v$ [-] — Dual-lidar

TI_v [-] — Sonic

$y = 0.97x$
$R^2 = 0.90$

Density (Normalized KDE)

0.0 0.2 0.4 0.6 0.8 1.0