

Algorithm	Diagnostic expected error (DEE)	Prognostic expected error (PEE)	Reference
Ocean			
MODIS DT	Linear regression with bias consideration: $-0.10\tau_A - 0.02$ (lower bound) and $0.10\tau_A + 0.04$ (upper bound)		Levy et al. (2013)
VIIRS EDR	Linear regression with bias consideration: $-0.238\tau_A + 0.01$ (lower bound) and $0.194\tau_A + 0.048$ (upper bound)	Linear regression: $\pm(0.250\tau_S + 0.009)$	Huang et al. (2016)
GOCI YAER V2	Linear regression: $\pm(0.185\tau_A + 0.037)$	Linear regression: $\pm(0.206\tau_S + 0.030)$ Unique regression per AOD range: Table 4	This study
Land			
MODIS DT	Linear regression: $\pm(0.15\tau_A + 0.05)$		Levy et al. (2010)
MODIS DB	Linear regression: $\pm(0.20\tau_A + 0.05)$	Linear regression with air mass factor consideration: $\pm(0.56 + 0.086)/(1/\mu_0 + 1/\mu)$	Sayer et al. (2013)
VIIRS EDR	Linear regression with bias consideration: $-0.470\tau_A - 0.01$ (lower bound) and $-0.0058\tau_A + 0.09$ (upper bound)	Linear regression: $\pm(0.34\tau_S + 0.023)$	Huang et al. (2016)
GOCI YAER V2	Linear regression: $\pm(0.137\tau_A + 0.073)$	Linear regression: $\pm(0.184\tau_S + 0.061)$ Unique regression per AOD range: Table 4	This study