Metrics	Mathematical expression	Range
Normalized mean bias	$\mathrm{NMB} = \frac{\sum_{i=1}^{n}(M_i - O_i)}{\sum_{i=1} O_i}$	-1 to $+\infty$
Mean bias	$\mathrm{MnB} = \frac{1}{N}\sum_{i=1}^{n}(M_i - O_i) = \bar{M} - \bar{O}$	$-\bar{O}$ to $+\infty$
Correlation coefficient	$R = \frac{\sum_{i=1}^{n}(M_i - \bar{M})(O_i - \bar{O})}{\left\{\sum_{i=1}^{n}(M_i - \bar{M})^2 \sum_{i=1}^{n}(O_i - \bar{O})^2\right\}^{\frac{1}{2}}}$	-1 to $+1$
Root mean square error	$\mathrm{RMSE} = \sqrt{\frac{1}{N}\sum_{i=1}^{n}(M_i - O_i)^2}$	0 to $+\infty$
Mean absolute gross error	$\mathrm{MAGE} = \frac{1}{N}\sum_{i=1}^{n}\lvert(M_i - O_i)\rvert$	0 to $+\infty$
Normalized mean bias factor	$\mathrm{NMBF}(\bar{M} \geq \bar{O}) = \frac{\sum(M_i - O_i)}{\sum O_i}$ $\mathrm{NMBF}(\bar{M} < \bar{O}) = \frac{\sum(M_i - O_i)}{\sum M_i}$	$-\infty$ to $+\infty$
Normalized mean absolute error factor	$\mathrm{NMAEF}(\bar{M} \geq \bar{O}) = \frac{\sum\lvert M_i - O_i\rvert}{\sum O_i}$ $\mathrm{NMAEF}(\bar{M} < \bar{O}) = \frac{\sum\lvert M_i - O_i\rvert}{\sum M_i}$	0 to $+\infty$