

Metric	Definition
Mean bias (MB)	$\text{MB} = \frac{1}{N} \sum_{i=1}^N (M_i - O_i)$
Mean gross error (MGE)	$\text{MGE} = \frac{1}{N} \sum_{i=1}^N M_i - O_i $
Root mean square error (RMSE)	$\text{RMSE} = \sqrt{\frac{1}{N} \sum_{i=1}^N (M_i - O_i)^2}$
Normalized mean bias (NMB)	$\text{NMB} = \frac{\sum_{i=1}^N M_i - O_i}{\sum_{i=1}^N O_i}$
Normalized mean error (NME)	$\text{NME} = \frac{\sum_{i=1}^N M_i - O_i }{\sum_{i=1}^N O_i}$
Pearson correlation coefficient (r)	$r = \frac{\sum_{i=1}^N (M_i - \bar{M}) \cdot (O_i - \bar{O})}{\sqrt{\sum_{i=1}^N (M_i - \bar{M})^2} \cdot \sqrt{\sum_{i=1}^N (O_i - \bar{O})^2}}$