| Statistical indicator | Equation | Range | Optimal value |
|---|---|---|---|
| $R^2$ | $\left[\frac{\sum_{i=1}^{n}(O_i-\bar{O})(S_i-\bar{S})}{\sqrt{\sum_{i=1}^{n}(O_i-\bar{O})^2}\sqrt{\sum_{i=1}^{n}(S_i-\bar{S})^2}}\right]^2$ | 0.0 to 1.0 | 1.0 |
| RMSE | $\sqrt{\frac{1}{n}\sum_{i=1}^{n}(O_i-S_i)^2}$ | 0.0 to $+\infty$ | 0 |
| pbias | $\frac{\sum_{i=1}^{n}O_i-S_i}{\sum_{i=1}^{n}O_i}\times 100$ | $-\infty$ to $+\infty$ | 0 |

$\boldsymbol{O}$: Observation; $\boldsymbol{S}$: Simulation; $\boldsymbol{n}$: number of samples