Metric	Abbreviation	Description
Nash–Sutcliffe efficiency	NSE	$\mathrm{NSE} = 1 - \frac{\sum_{i=1}^{n}(o_i - m_i)^2}{\sum_{i=1}^{n}(o_i - \overline{o})^2}$
Pearson correlation coefficient	r	$r = \frac{\sum_{i=1}^{n}(o_i - \overline{o})(m_i - \overline{m})}{\sqrt{\sum_{i=1}^{n}(o_i - \overline{o})^2}\sqrt{\sum_{i=1}^{n}(m_i - \overline{m})^2}}$
Percent bias	PBIAS	$\mathrm{PBIAS} = 100 \times \frac{\sum_{i=1}^{n}(m_i - o_i)}{\sum_{i=1}^{n} o_i}$
Relative root mean square error	RRMSE	$\mathrm{RRMSE} = \frac{\sum_{i=1}^{n}\lvert m_i - o_i\rvert}{n\,\sigma_{\mathrm{obs}}}$
Geometric reliability index (cumulative distribution)	GRI (GRI_sorted)	$\mathrm{GRI} = \frac{1+\sqrt{\frac{1}{n}\sum_{i=1}^{n}\left(\frac{m_i - o_i}{m_i + o_i}\right)^2}}{1-\sqrt{\frac{1}{n}\sum_{i=1}^{n}\left(\frac{m_i - o_i}{m_i + o_i}\right)^2}}$
Relative difference between maximum concentrations	$\Delta_{C_{\max}}$	$\Delta_{C_{\max}} = \frac{C_{\max}^{\mathrm{sim}} - C_{\max}^{\mathrm{obs}}}{C_{\max}^{\mathrm{obs}}}$
Fold difference between maximum concentrations	F.diff	$\mathrm{F.diff} = \begin{cases} \frac{C_{\max}^{\mathrm{sim}} - C_{\max}^{\mathrm{obs}}}{C_{\max}^{\mathrm{obs}}} & C_{\max}^{\mathrm{sim}} > C_{\max}^{\mathrm{obs}} \\ \frac{C_{\max}^{\mathrm{obs}}}{C_{\max}^{\mathrm{obs}} - C_{\max}^{\mathrm{sim}}} & C_{\max}^{\mathrm{sim}} < C_{\max}^{\mathrm{obs}} \end{cases}$