

Glossary of important terms for GW1876

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Parameters Variable input values for models, typically representing system properties and forcings. Values to be estimated in the history matching process

Observation Measured system state values. These values are used to compare with model outputs collocated in space and time. The term is often used to mean *both* field measurements and outputs from the model.

Forecasts Model outputs for which field observations are not available. Typically these values are simulated under an uncertain future condition.

Phi

Residuals

FOSM

Gaussian (multivariate)

Weight Covariance matrix (correlation matrix)

Parametric uncertainty

Measurement noise

Structural (model) error

Monte Carlo Ensemble

Posterior (multivariate distro)

Prior (multivariate distro)

Likelihood (multivariate distro)