EXPECTED AND SIMULATED BALANCES AND SYSTEMATIC ERRORS

Consider a situation in which

Expected balance: $A = B$ (1)

A, B : Effects of separate (or artificially separated) but strongly-interacting processes

Simulated balance: $(A + \varepsilon_A) = (B + \varepsilon_B)$ (2)

ε_A , ε_B : Model errors of A and B, respectively

Generally, the fields that produce balance (2) are different from those that produce balance (1) unless $\varepsilon_A = \varepsilon_B$ (error balance).

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systematic errors of the simulated fields