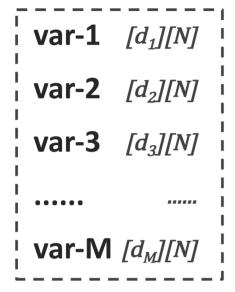
Performance metrics for multivariable integrated evaluation

two modes of stats provided:

M-variables

Scalar fields and Individual vector fields



Group into

Normalize with rms of Reference

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} & \cdots & a_{1N} \\ a_{21} & a_{22} & a_{23} & \cdots & a_{2N} \\ a_{31} & a_{32} & a_{33} & \cdots & a_{3N} \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ a_{D1} & a_{D2} & a_{D3} & \cdots & a_{DN} \end{bmatrix}$$

$$(D = \sum_{m=1}^{M} d_m)$$

Multivariable Integrated field

Uncentered statistics

$$UCORR$$
 $Eq. 2 (M = d_m)$ VSC $Eq. 2 (M = D)$ rms $Eq. 1 (M = d_m)$ $RMSL$ $Eq. 1 (M = D)$ rms_std $Eq. 6$ $RMSD$ $Eq. 3 (M = d_m)$ $RMSVD$ $Eq. 3 (M = D)$

MISS Eqs. 2, 8–10

◆ Centered statistics

CORR Eq.12
$$(M = d_m)$$

CVSC Eq.12 $(M = D)$

SD Eq.11 $(M = d_m)$

CRMSL Eq. 11 $(M = D)$

SD_std Eq. 18

CRMSD Eq.13 $(M = d_m)$

CRMSVD Eq.13 $(M = D)$

ME Eq.14 $(M = D)$

VME Eq.14 $(M = D)$

MEVM $(MEVD)$

Eqs. 2, 8-10

Grades of Performance metrics

MISS

Statistics for individual variables

Statistics for multivariable integrated field

An index summarizing overall performance