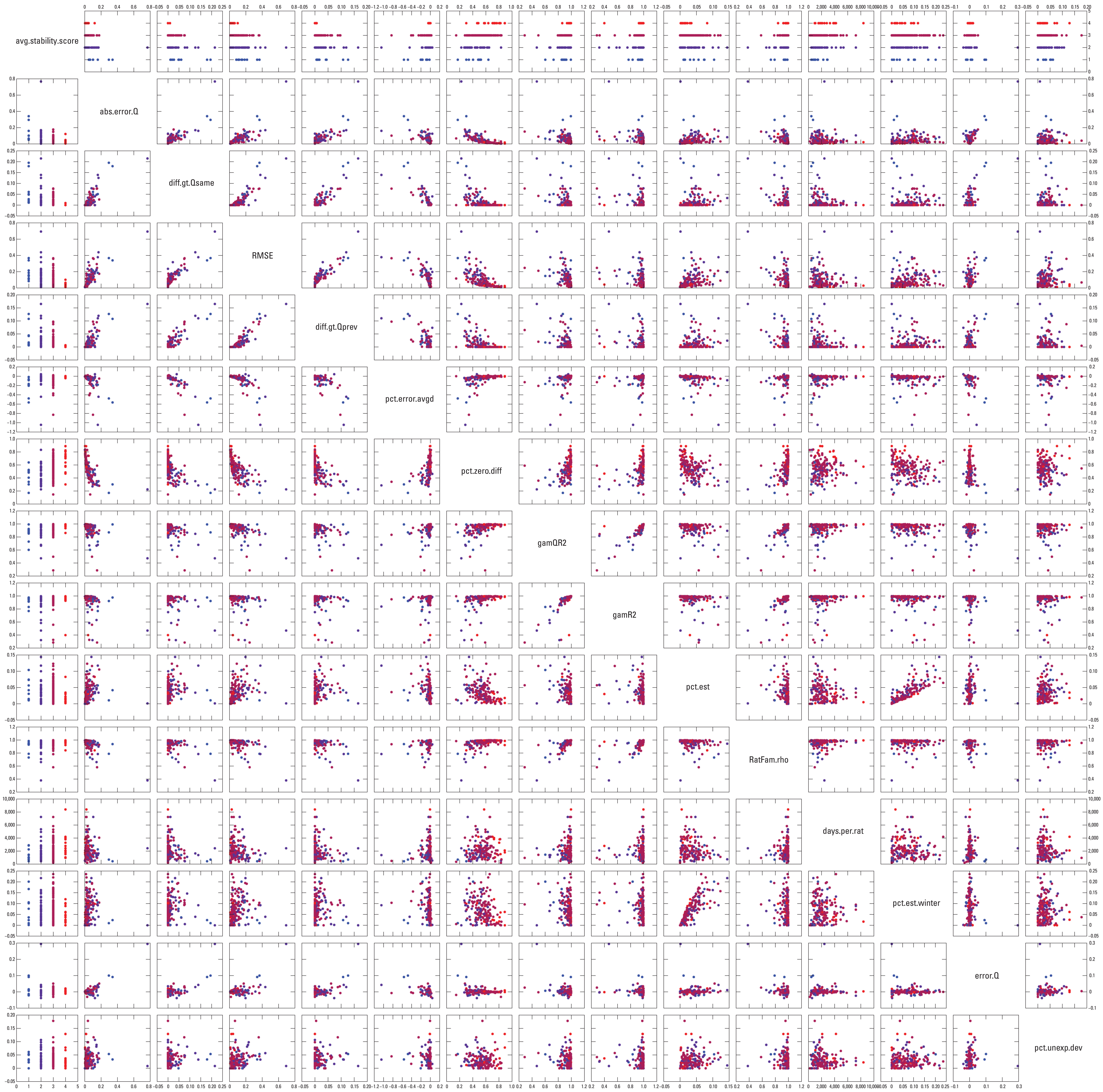

EXPLANATION

[RMSE, root mean square error; AltFlows, alternative flow tables; >, greater than; Q_{same}, the flow value from the shifted rating table used to compute the daily flow value at the time of the most recent flow measurement that corresponds to the gage height of each day's daily flow value; Q_{prev}, the flow value from the shifted rating table in effect at the time of the previous flow measurement that corresponds to the gage height of each day's daily flow value; R^2, coefficient of determination; GAM, generalized additive model]

Variable name	Description of variable
avg.stability.score	Stability class, where 4 = excellent (●), 3 = good (●), 2 = fair (●), and 1 = poor (●)
RMSE	Root-mean-square error of AltFlows, in log units
diff.gt.Qsame	Proportion of days when $Q_{prev} - Q_{same} > Q_{same}$
abs.error.Q	For AltFlows, sum of absolute values of error divided by sum of flow
pct.error.avgd	Daily percent error, averaged
diff.gt.Qprev	Proportion of days when $Q_{prev} - Q_{same} > Q_{prev}$
gamQR2	R^2 of GAM models of flow as a function of gage height from discharge measurements, for the most recent rating family
pct.zero.diff	Proportion of days of AltFlow record when $Q_{prev} = Q_{same}$
RatFam.rho	Spearman's rho for gage height and flow from discharge measurements, for the most recent rating family
gamR2	R^2 of GAM models of gage height as a function of flow from discharge measurements, for the most recent rating family
pct.est	Percentage of daily values that were estimated
days.per.rat	Average length base ratings were in effect, in days
pct.est.winter	Proportion of daily values in winter that were estimated
pct.unexp.dev	Percentage of discharge measurements that deviated from ratings by more than guidelines allow
error.Q	For AltFlows, sum of error divided by sum of flow

Matrix of proposed stability metrics developed using daily flow, shifted ratings, and flow measurements for streamgages in Virginia, water years 1991–2013

By

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