

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
Please send comments and suggestions to SWPC.Webmaster@noaa.gov

2001 Verification Statistics for Daily M flare, X flare, and Proton Event Probability Forecasts

Forecast Type: Likelihood (probability) of the occurrence of an M flare, X flare, or Proton Event

Note: Mpred1 = M flare PREDiction day 1
 Mpred2 = M flare PREDiction day 2
 Mevents = Observed number of M flares,
 etc.

Missing data: NA

Total Records: Total number of daily forecast/observation records used to generate statistics

365

Event Days: Total number of days in the sample on which at least one (M, X, Proton event) occurred

Mevents Xevents Pevents

149 18 0

Mean observation

Mevents Xevents Pevents

0.41 0.049 0

Mean, Median, and Standard Deviation of all forecasts

	Mpred1	Mpred2	Mpred3	Xpred1	Xpred2	Xpred3	Ppred1	Ppred2	Ppred3
mean	0.49	0.48	0.48	0.100	0.095	0.092	0.17	0.11	0.088
median	0.45	0.40	0.40	0.050	0.050	0.050	0.05	0.05	0.050
sd	0.25	0.24	0.24	0.099	0.095	0.092	0.29	0.18	0.122

Mean, Median and Standard Deviation of forecast given the non-occurrence ($f|x=0$) of an event

	Mpred1	Mpred2	Mpred3	Xpred1	Xpred2	Xpred3	Ppred1	Ppred2	Ppred3
mean	0.39	0.39	0.39	0.095	0.090	0.086	0.17	0.11	0.088
median	0.35	0.35	0.30	0.050	0.050	0.050	0.05	0.05	0.050
sd	0.22	0.22	0.22	0.097	0.092	0.089	0.29	0.18	0.122

Mean, Median and Standard Deviation of forecast given the occurrence ($f|x=1$) of an event

	Mpred1	Mpred2	Mpred3	Xpred1	Xpred2	Xpred3	Ppred1	Ppred2	Ppred3
mean	0.64	0.62	0.60	0.194	0.192	0.192	NA	NA	NA
median	0.75	0.75	0.70	0.200	0.175	0.200	NA	NA	NA
sd	0.21	0.22	0.22	0.089	0.099	0.094	NA	NA	NA

