

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center

Please send comments and suggestions to SWPC.Webmaster@noaa.gov

### 1997 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  
352

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

Mevents	Xevents	Pevents
14	3	0

Mean observation

Mevents	Xevents	Pevents
0.04	0.0085	0

Mean, Median, and Standard Deviation of all forecasts

	Mpred1	Mpred2	Mpred3	Xpred1	Xpred2	Xpred3	Ppred1	Ppred2	Ppred3
mean	NA	NA	NA	NA	NA	NA	NA	NA	NA
median	NA	NA	NA	NA	NA	NA	NA	NA	NA
sd	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	NA	NA	NA	NA	NA	NA	NA	NA	NA
median	NA	NA	NA	NA	NA	NA	NA	NA	NA
sd	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.30	0.24	0.19	0.15	0.093	0.14	NA	NA	NA
median	0.17	0.17	0.10	0.10	0.020	0.10	NA	NA	NA
sd	0.29	0.22	0.21	0.13	0.136	0.15	NA	NA	NA

