

HFUS 1 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 102

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 11 APRIL 1980

IA. THE SUN AGAIN PRODUCED SEVERAL FLARES TODAY, BUT NONE REACHED  
THE M-CLASS X-RAY LEVEL, PUTTING US IN THE LOW CATEGORY OF SOLAR  
ACTIVITY FOR THE DAY. THE LARGEST FLARE WAS A C9.8/SF IN REGION  
2375 (S30E29) AT 1749Z (MAX). REGIONS 2370 (N23W44) AND 2372  
(N12W63) WERE ALSO AGAIN VERY GOOD FLARE PRODUCERS TODAY. REGION  
2377 (S08E28), WHILE PRODUCING ONLY SUBFLARES TODAY, SHOWED SUB-  
STANTIAL GROWTH IN BOTH SPOT AREA AND MAGNETIC COMPLEXITY.

IB. THE FOUR REGIONS MENTIONED ABOVE ALL POSSESS MAJOR FLARE  
POTENTIAL. MODERATE LEVELS OF SOLAR ACTIVITY ARE EXPECTED FOR  
THE NEXT 72 HOURS.

II. THE GEOMAGNETIC FIELD CONTINUED ITS BEHAVIOUR OF THE PAST  
SEVERAL DAYS, WITH INTERMITTENT ACTIVE CONDITIONS CAUSED BY  
SOLAR FLARE ACTIVITY. ACTIVE CONDITIONS ARE AGAIN FORECAST FOR  
THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 12-14 APRIL 1980

CLASS M 90/90/90

CLASS X 30/35/35

PROTON 20/20/25

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 APR 249

PREDICTED 12-14 APR 248/246/244

90-DAY MEAN 11 APR 191

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 10 APR 29

ESTIMATED AFR/AP 11 APR 20/25

PREDICTED AFR/AP 12-14 APR 20/22 18/20 16/18

SOLTERWARM

BT