

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 (S05E28), WHILE PRODUCING ONLY SUBFLARES TODAY, SHOWED SUBSTANTIAL 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 BEHAVIOR 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

PREDICTON . . 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

SOLTERWARN

BT