

HFUS 130U 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 106

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 APRIL 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE WITH THREE CLASS M EVENTS TODAY, TWO IN REGIONS CONSIDERED UNLIKELY TO BE SO ACTIVE. REGION 2390 (S18E06) PRODUCED AN M1/SB FLARE AT 0551Z (MAX) FROM A SMALL REGION OF REVERSED POLARITY-ARRANGEMENT WITHIN AN EXTENDED FAINT FLARE (REGION 2392). AN IMPULSIVE M8/1B FLARE ERUPTED IN REGION 2389 (N19E07), WITH A 1512Z MAX, WITH A DEVELOPING CLASS D SPOT GROUP. THE LARGEST SPOT IS IN THE CENTER OF THE REGION RATHER THAN LEADING IT, AND IT IS VERY DARK AND CONTAINS UMBRA OF BOTH POLARITIES. REGION 2375 (S31W29) HAS DECAYED AND NO LONGER HAS A DELTA CONFIGURATION. AN M1/1B FLARE OCCURRED HERE AT 0208Z MAX. REGION 2377 (S08W25) REMAINS THE BRIGHTEST AND MOST COMPLEX REGION BUT ITS DELTA HAS ALSO DISSIPATED. SIGNIFICANT GROWTH BEGAN LATE TODAY IN A SPOT GROUP THAT FORMED IN THE SE CORNER OF REGION 2392. THIS NEW AREA IS REGION 2393 (S28E12). A BRIGHT FLARE WITH A SINGLE SPOT HAS ROTATED INTO VIEW AT 1608Z (REGION 2394).

IB. SOLAR ACTIVITY WILL CONTINUE MODERATE BUT WITH DECREASING EVENT FREQUENCY. ACTIVE LONGITUDES RETURNING BY THE THIRD DAY WILL COMPENSATE FOR DECAY IN REGIONS NOW PRESENT.

II. THE GEOMAGNETIC FIELD WAS ACTIVE EARLY TODAY, BUT AT LESS THAN STORM INTENSITY. CONDITIONS HAVE BEEN UNSETTLED FOR THE PAST 12 HOURS. UNSETTLED TO ACTIVE CONDITIONS WILL PREVAIL FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 15 APRIL - 18 APRIL

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 APRIL 207

PREDICTED 16-18 APRIL 198/194/190

90-DAY MEAN 15 APRIL 191

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 APRIL 09

ESTIMATED AFR/AP 15 APRIL 15/21

PREDICTED AFR/AP 16-18 APRIL 10/13 - 14/18 - 12/15

SOLTERWARN

BT