

HFUS 1 BOU 182205

COR

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 078

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 MARCH 1980

IA. THOUGH SOLAR ACTIVITY HAS REMAINED LOW, THE SUN HAS UNDERGONE A REJUVENATION PROCESS TODAY. THE LARGEST FLARE WAS A C3/SB AT 1533Z FROM REGION 2339 (S26E10). A SMALL BIPOLAR STRUCTURE JUST AHEAD OF THE LEADING SPOT OF 2339 IS INCORPORATED AS PART OF REGION 2339. THIS COMPLEX HAS A BETA GAMMA CONFIGURATION. FIVE NEW SPOTTED REGIONS HAVE BEEN ADDED TODAY. REGION 2343 (S18W42) IS EMERGING VIGOROUSLY. NO GROWTH TENDENCY IS YET APPARENT FOR NEW REGIONS 2341 (N14E62), 2342 (N26E66), 2344 (S02E24), AND 2345 (N20E47). CULGOORA REPORTED A C2/IN FLARE AT 0415Z WHERE REGION 2345 EMERGED THIS AFTERNOON.

IB. THOUGH FLARE FREQUENCY IS EXPECTED TO INCREASE, SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW (CLASS C). CONTINUED GROWTH OF REGION 2339 MAY PRODUCE CLASS M ACTIVITY TOWARD THE END OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE QUIET TO UNSETTLED THROUGH THE 20TH.

III. EVENT PROBABILITIES 19 MARCH - 21 MARCH

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 MARCH 149

PREDICTED 19-21 MARCH 152/156/159

90-DAY MEAN 18 MARCH 192

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 MARCH 06

ESTIMATED AFR/AP 18 MARCH 05/05

PREDICTED AFR/AP 19-21 MARCH 08/12 - 06/08 - 06/08

SOLTERWARN

BT