

HFUS-AI BOU 2622 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 057

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 FEBRUARY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW DURING THE PAST 24 HOURS. A SMALL M-CLASS FLARE WITH NO OPTICAL ASSOCIATION OCCURRED WITH A MAXIMUM AT 26/0814Z. THERE WERE NO SIGNIFICANT GEOPHYSICAL EFFECTS WITH THIS FLARE. HOWEVER, AN M3 X-RAY EVENT OCCURRED WITH A MAXIMUM AT 1843Z. THIS EVENT WAS ACCCOMPANIED BY EVIDENCE OF A FLARE BEHIND THE NE LIMB AND MINOR SHORTWAVE FADES (TO 21 MHZ) AND SMALL MICROWAVE RADIO BURSTS. HALF A DOZEN VERY SMALL C-CLASS X-RAY EVENTS WERE ALSO NOTED WITHOUT OPTICALLY ASSOCIATED FLARES.

IB. THE FLARE BEHIND THE NE LIMB AND PROMINENCE ACTIVITY AT THE SE LIMB INDICATE THAT DYNAMIC REGIONS ARE NEAR THE EAST LIMB AND THE CURRENT LULL IN ACTIVITY MAY BE SHORT-LIVED. SEVERAL NEW REGIONS HAVE EMERGED ON THE VISIBLE DISK IN THE LAST 48 HOURS AND MAY BE SOURCES OF ENERGETIC FLARES BEFORE THEIR WEST LIMB TRANSIT.

II. THE GEOMAGNETIC FIELD BECAME MILDLY ACTIVE DURING THE PAST 24 HOURS. THIS MAY HAVE BEEN CAUSED BY A SMALL EQUATORIAL CORONAL HOLE THAT IS SOME DAYS WEST OF CENTRAL MERIDIAN. THE FIELD IS EXPECTED TO BECOME GRADUALLY QUIETER OVER THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 27 FEBRUARY - 01 MARCH 1979

CLASS M 30/30/45

CLASS X 05/05/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 FEBRUARY 171

PREDICTED 27 FEB - 01 MARCH 172/176/180

90-DAY MEAN 26 FEBRUARY 195

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 FEBRUARY 11

ESTIMATED AFR/AP 26 FEBRUARY 18/21

PREDICTED AFR/AP 27 FEB - 01 MARCH 10/15 07/12 07/12

SOLTERWARN

BT