

HFUS 1 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 045

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 FEBRUARY 1979

IA. SOLAR ACTIVITY REMAINS MODERATE. AN M3/SB FLARE WAS OBSERVED FROM RGN 1556 (N 15W 75) ON 14/1548 UT AND WAS ACCCOMPANIED BY A BRIGHT SURGE AND SHORT WAVE FADES; HOWEVER VERY LITTLE RADIO BURSTS WERE APPARENT. RGN 1574 (N 16E 61) HAS HAD SEVERAL SMALL FLARES AND SUBFLARES WITH AN M1 X-RAY FLARE ON 14/0107 U.T. RGN 1568 (N 19E 37) HAS HAD MINOR ACTIVITY WITH SEVERAL SUBFLARES HAVING OCCURRED DURING THE PERIOD. RGN 1573 (S 16E 47) IS APPARENTLY GROWING AND INCREASING IN ACTIVITY WITH FLUCTUATIONS TO NEAR FLARE AND A STRONG ARCH FILAMENT SYSTEM. RGN 1574 COULD BE A POSSIBLE DELTA MAGNETIC CONFIGURATION.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE. RGN 1556 (N 15W 83) AND 1574 (16E 61) ARE POTENTIALLY CAPABLE OF PRODUCING ENERGETIC EVENTS. OLD RGN 1525 WHICH PRODUCED 27 FLARES ON LAST ROTATION SHOULD BE RETURNING AT APPROX. NE 15-20; SURGING AT NE 15 AND SE 25 WOULD INDICATE THE APPROACH OF AN ACTIVE LONGITUDE.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS. THIS FIELD SHOULD REMAIN QUIET TO UNSETTLED FOR THE NEXT PERIOD.

III. EVENT PROBABILITIES 15-17 FEBRUARY 1979

CLASS M 9/9 0/9 0

CLASS X 15/10/10

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 13.7 CM FLUX

OBSERVED 14 FEB 228

PREDICTED 15-17 FEB 210/215/224

90-DAY MEAN 14 FEB 186

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 13 FEB 02

ESTIMATED AFR/AP 14 FEB 03/05

PREDICTED AFR/AP 15-17 FEB 08/11 - 09/13 - 10/14

SOLAR WARNS

BT