

HFUS 1 BOUL 1322 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO.

SDF NUMBER 044

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 13 FEBRUARY 1979

I A. SOLAR ACTIVITY HAS CONTINUED AT MODERATE LEVELS OVER THE PAST 24 HOUR PERIOD. REGION 1556 (N 15W 52) REMAINS THE MAJOR CONTRIBUTOR WITH SMALL M-CLASS X-RAY FLARES. THIS E-TYPE, GAMMA-DELTA REGION APPEARS COMPLEX MAGNETICALLY WITH FLUCTUATING BROKEN PLAGE DURING THE PERIOD. REGION 1568 (N 19E 51) PRODUCED AN M1/SR FLARE AT N 17E 54 ON 13/1942 U.T. WITH ASSOCIATED SHORT WAVE FADES AND MINOR RADIO NOISE BURSTS. REGION 1568 HAS BROKEN MODERATE INTENSITY PLAGE WITH STRONG FLUCTUATIONS. OTHER REGIONS HAVING PRODUCED MINOR C-CLASS X-RAY AND SMALL OPTICAL FLARES ARE RGN 1561 (S 37E 00) WITH A C5/SN AT 0034 U.T. AND RGN 1560 (S 17W 16) WITH SEVERAL SUBFAINT FLARES.

I B. SOLAR ACTIVITY SHOULD REMAIN MODERATE TO HIGH. RGN 1568 IS ROTATING FURTHER ON TO THE VISIBLE DISK AS RGN 1556 APPROACHES THE WEST LIMB; THESE REGIONS COLLECTIVELY KEEP THE POTENTIAL FOR A SIGNIFICANT ENERGETIC EVENT HIGH. RGNS 1560 AND 1561 ARE ALSO CAPABLE OF MODERATELY ENERGETIC EVENTS!

II. THE GEOMAGNETIC FIELD HAS BEEN PREDOMINATELY QUIET OVER THE LAST 24 HOURS. THE FIELD SHOULD REMAIN AT QUIET TO UNSETLED LEVELS DURING THE NEXT PERIOD.

III. EVENT PROBABILITIES: 14 FEB - 16 FEB 1979

CLASS M 9/0/9 0/9 0

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 19.7 CM FLUX

OBSERVED 13 FEB 2.22

PREDICTED 14 FEB - 16 FEB 2.04/2.06/2.04

9-DAY MEAN 13 FEB 1.85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 FEB 15

ESTIMATED AFR/APR 13 FEB 05/05

PREDICTED AFR/APR 14 FEB - 16 FEB 08/08 12/14 12/15

SOLIERWARN

BT