

HFUS 1 BQU 132200

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

IA. SOLAR ACTIVITY HAS CONTINUED AT MODERATE LEVELS OVER THE
PAST 24 HOUR PERIOD. REGION 1556 (N15W52) REMAINS THE MAJOR
CONTRIBUTOR WITH SMALL M-CLASS X-RAY FLARES. THIS E-TYPE,
GAMMA-DELTA REGION APPEARS COMPLEX MAGNETICALLY WITH FLUCTUATING
BROKEN FLARE DURING THE PERIOD. REGION 1568 (N19E51) PRODUCED
AN M1/SR FLARE AT N17E54 ON 13/1942 U.T. WITH ASSOCIATED SHORT
WAVE FADES AND MINOR RADIO NOISE BURSTS. REGION 1568 HAS BROKEN
MODERATE INTENSITY FLARE WITH STRONG FLUCTUATIONS. OTHER REGIONS
HAVING PRODUCED MINOR C-CLASS X-RAY AND SMALL OPTICAL FLARES ARE
RGN 1561 (S37E20) WITH A C5/SN AT 0034 U.T. AND RGN 1560 (S17W16)
WITH SEVERAL SUBFAINT FLARES.

IB. 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 UNSETTLED
LEVELS DURING THE NEXT PERIOD.

III. EVENT PROBABILITIES 14 FEB - 16 FEB 1979

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 19.7 CM FLUX

OBSERVED 13 FEB 202

PREDICTED 14 FEB - 16 FEB 204/206/204

90-DAY MEAN 13 FEB 185

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 FEB 15

ESTIMATED AFR/AP 13 FEB 05/05

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

SOLTERWARN

BT