

HFUS 1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 229

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 AUGUST 1979

IA. SOLAR ACTIVITY WAS LOW TODAY. REGION 1929 (S27E27) IS A LARGE F-TYPE SPOT GROUP WITH A STRONG MAGNETIC GRADIENT, BUT HAS SIMPLIFIED MAGNETICALLY AND IS NO LONGER CONSIDERED REVERSED POLARITY. REGION 1915 (N14W53) HAS DECAYED AND SIMPLIFIED MAGNETICALLY. REGION 1926 (S23E06) HAS ALSO SHOWN SOME DECAY. ONE NEW REGION WAS CONFIRMED TODAY, 1933 (N14W41).

IB. SOLAR ACTIVITY IS EXPECTED TO BECOME MODERATE DUE TO THE RETENTION OF SIGNIFICANT FLARE POTENTIAL OF REGION 1929. HOWEVER, SHOULD THIS REGION SIMPLIFY FURTHER, MODERATE ACTIVITY MAY FAIL TO OCCUR. REGIONS 1915 AND 1926 ARE SUFFICIENTLY DECAYED TO HAVE LOST THEIR POTENTIAL FOR SIGNIFICANT FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY AND IS EXPECTED TO REMAIN QUIET TOMORROW, BECOMING UNSETTLED THE FOLLOWING TWO DAYS.

III. EVENT PROBABILITIES 18 AUGUST - 20 AUGUST

CLASS M 75/70/70

CLASS X 10/05/05

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 AUG 162

PREDICTED 18 AUG - 20 AUG 159/157/156

90-DAY MEAN 17 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 AUG 05

ESTIMATED AFR/AP 17 AUG 05/07

PREDICTED AFR/AP 18 AUG - 20 AUG 07/12 08/10 09/15

SOLTERWARN

BT