

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 228

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 AUGUST 1979

IA. SOLAR ACTIVITY WAS MODERATE TODAY DUE TO AN M1/IN FLARE AT
0455Z IN REGION 1929 (S27E39). REGION 1929 IS A LARGE E-TYPE
SPOT GROUP WITH REVERSED POLARITY WHICH HAS BEEN RESPONSIBLE FOR
NUMEROUS SUBFLARES TODAY. REGION 1915 (N14W41) HAS SHOWN SOME DECAY
TODAY AND REGION 1926 (S23E22) HAS SIMPLIFIED MAGNETICALLY. NO
NEW REGIONS WERE REPORTED.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE DUE PRIMARILY TO
THE STRONG MAGNETIC GRADIENT, REVERSED POLARITY, AND ACTIVE HISTORY
OF REGION 1929. HOWEVER, REGIONS 1915 AND 1926 BOTH HAVE STRONG
MAGNETIC GRADIENTS, THUS RETAINING THERE POTENTIAL FOR CLASS M EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.
UNSETTLED TO QUIET CONDITIONS SHOULD PERSIST FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 17 AUG - 19 AUG

CLASS M 85/80/75

CLASS X 10/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 AUG 160

PREDICTED 17 AUG - 19 AUG 160/159/156

90-DAY MEAN 16 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 AUG 04

ESTIMATED AFR/AP 16 AUG 07/07

PREDICTED AFR/AP 17 AUG - 19 AUG 09/12 07/12 07/10

SOLTERWARN

BT