

HFU 1 BOU 182300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 230

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 AUGUST 1979

IA. SOLAR ACTIVITY WAS HIGH TODAY WITH THE OCCURRENCE OF 2 X-CLASS X-RAY EVENTS. THESE EVENTS RESULTED FROM ACTIVITY BEHIND THE EAST LIMB AT 1343Z. X1 - LOCATION SE20 AND AT 1403Z X6/1B - LOCATION NE09. REGION 1929 (S25E15) CONTINUES TO GROW AND HAS PRODUCED OPTICAL SUBFLARES DURING THE UT DAY. NEW REGION 1934 (N27E09) PRESENTLY DISPLAYS AN ARCH-FILAMENT SYSTEM. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH WITH THE EXPECTED ROTATION OF A SIGNIFICANT REGION ONTO THE DISK FROM BEHIND THE NE09 LOCATION. IN ADDITION, A SIGNIFICANT EVENT IS POSSIBLE FROM REGION 1929.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS AND IS EXPECTED TO REMAIN QUIET TO UNSETTLED DURING THE NEXT 48 HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED ON THE 3RD DAY AS A RESULT OF THE HIGH SOLAR ACTIVITY OBSERVED TODAY.

III. EVENT PROBABILITIES 19 AUGUST - 21 AUGUST

CLASS M 75/80/80

CLASS X 30/30/30

PROTON 01/05/25

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 AUGUST 176

PREDICTED 19-21 AUGUST 185/190/195

90-DAY MEAN 18 AUGUST 167

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 AUGUST 07

ESTIMATED AFR/AP 18 AUGUST 07/09

PREDICTED AFR/AP 19-21 AUGUST 09/10 - 11/15 - 19/25

SOLTERWARN

BT