

HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 231

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100 TO 18/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. THE MOST ENERGETIC ACTIVITY WAS A C1 X-RAY EVENT (MAXIMUM AT 0559 UT) WITH MINOR TYPE III RADIO BURSTS WHICH WAS NOT OPTICALLY ASSOCIATED. HOWEVER, THIS AND OTHER LOWER LEVEL X-RAY ENHANCEMENTS ARE PROBABLY FROM DEPARTED REGION 4563 (N04W92). BRIGHT POINTS AND SURGING FROM ITS VICINITY ON THE NORTHWEST LIMB HAVE BEEN REPORTED IN PROGRESS ALL DAY. A RADIO BURST AT 245 MHZ OF 370 FLUX UNITS OCCURRED AT 1405 UT. THE ONLY SPOT ON THE DISK IS A STABLE H-TYPE SPOT (REGION 4564, S10E49). NO ACTIVITY ON THE EAST LIMB HAS BEEN REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO SLIGHTLY UNSETTLED TOMORROW BUT STORM CONDITIONS ARE LIKELY BY THE END OF THE FORECAST PERIOD. POSSIBLE STORM COMMENCEMENT IS EXPECTED MIDDAY ON 20 AUGUST BASED ON A FAVORABLE FILAMENT DISAPPEARANCE ON 16 AUGUST.

III. EVENT PROBABILITIES 19 AUG-21 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 AUG 077

PREDICTED 19 AUG-21 AUG 080/080/080

90 DAY MEAN 18 AUG 096

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 AUG 012/014

ESTIMATED AFR/AP 18 AUG 007/012

PREDICTED AFR/AP 19 AUG-21 AUG 010/010-020/025-035/045

SOLTERWARN

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