

HFUS3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 225

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 AUG 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100 TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. THE DISK REMAINED SPOTLESS AGAIN TODAY. EXCEPT FOR PROMINENCE ACTIVITY AT S35E90, N10E90, S04W90, AND S20W90 THE LIMBS WERE QUIET. A 9 DEGREE LONG FILAMENT AT A MAJOR SOLAR SECTOR BOUNDARY DISAPPEARED NEAR N17W25 AT APPROXIMATELY 13/1343UT. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT 72 HOURS. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MAJOR STORM LEVELS WITH PERIODS OF ACTIVE CONDITIONS FOR THE PAST 24 HOURS. STRONG ACTIVITY BEGAN WITH A GRADUAL COMMENCEMENT NEAR 12/1930UT AT MIDDLE AND HIGH LATITUDE STATIONS. ACTIVITY BEGAN TAPERING OFF AT 13/1500UT AT MIDDLE LATITUDES AND BY 13/1800UT AT HIGH LATITUDES. THE FIELD HAS BEEN AT ACTIVE CONDITIONS SINCE. THIS MAJOR GEOMAGNETIC STORM IS A RESULT OF THE EFFECTS OF A CORONAL HOLE THAT PASSED THE CENTRAL SOLAR MERIDIAN 09 AUG.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE WITH PERIODS OF MINOR STORM AT HIGH LATITUDES IN THE NIGHTTIME SECTORS AS THE EFFECTS OF THE CORONAL HOLE LINGER FOR THE NEXT 24 HOURS. FOR THE SUBSEQUENT 48 HOURS THE FIELD IS EXPECTED TO RETURN TO A PATTERN OF UNSETTLED TO ACTIVE CONDITIONS.

III. EVENT PROBABILITIES 14 AUG-16 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 AUG 067

PREDICTED 14 AUG-16 AUG 068/068/069

90 DAY MEAN 13 AUG 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 AUG 020/027

ESTIMATED AFR/AP 13 AUG 035/055

PREDICTED AFR/AP 14 AUG-16 AUG 014/020-010/020-008/015

SOLTERWARN

BT