

HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 224

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100 TO 11/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4554 (N08W25) DECAYED IN ALL WHITE-LIGHT CHARACTERISTICS. IT RETAINED AN ARCHED FILAMENT SYSTEM AND A BETA CONFIGURATION MAGNETICALLY. AN UNCORRELATED B2 X-RAY EVENT OCCURRED AT 11/0615Z. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4554 PROVIDES ONLY A FAIR CHANCE OF C-LEVEL X-RAYS. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: GEOMAGNETIC ACTIVITY WAS AT UNSETTLED TO ACTIVE LEVELS. MINOR STORM LEVELS WERE REPORTED AT HIGH LATITUDES 11/0730-1330Z, WITH ONE PERIOD OF MAJOR LEVELS 11/1200Z. THIS PULSE OF ACTIVITY WAS ATTRIBUTED TO A WEAK CORONAL HOLE'S SOLAR WIND EMISSION PLUS AN INTRUDING SOLAR SECTOR BOUNDARY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE TO OCCASIONAL MINOR STORM LEVELS THE FIRST AND SECOND DAYS (12-13 AUG). THIS IS EXPECTED IN RESPONSE TO A WEAK CORONAL HOLE WITH INTRUDING SOLAR SECTOR BOUNDARY SWEEPING MEDIUM/HIGH SPEED SOLAR WIND INTO THE MAGNETOSPHERE. MAJOR LEVELS ARE EXPECTED AT HIGH LATITUDES DURING NIGHT-TIME PERIODS. THE ACTIVITY IS EXPECTED TO DECREASE TO MOSTLY ACTIVE LEVELS DURING THE THIRD DAY (14 AUG).

III. EVENT PROBABILITIES 12 AUG-14 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 AUG 088

PREDICTED 12 AUG-14 AUG 086/084/082

90 DAY MEAN 11 AUG 100

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 AUG 008/011

ESTIMATED AFR/AP 11 AUG 011/015

PREDICTED AFR/AP 12 AUG-14 AUG 015/020-015/025-015/020

SOLTERWARN

BT