

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 224

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 AUG 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NO SIGNIFICANT FLARE ACTIVITY WAS NOTED AND THE DISK WAS SPOTLESS. MINOR SURGING WAS REPORTED AT S12E90 AND ACTIVE PROMINENCES WERE OBSERVED AT S12E90 AND S16W90. A THREE DEGREE LONG FILAMENT DISAPPEARED FROM REGION 4688 NEAR N09E14 AT ABOUT 1839UT. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT 72 HOURS. RETURNING REGIONS 4683 (S06, CAR136) AND 4679 (N02, CAR120) ARE DUE 13/1400UT AND 14/2000UT RESPECTIVELY. NEITHER REGION IS EXPECTED TO PRODUCE ANY ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: ACTIVITY IN THE GEOMAGNETIC FIELD HAS INCREASED FROM QUIET CONDITIONS TO MAJOR STORM LEVELS DURING THE PAST 24 HOURS. ACTIVITY BEGAN TO INCREASE AT APPROXIMATELY 1030UT 12 AUGUST AND IS PROBABLY RELATED TO THE EFFECTS OF A CORONAL HOLE PASSAGE OF THE SOLAR CENTRAL MERIDIAN ON 09 AUGUST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED TO ACTIVE FOR THE NEXT 72 HOURS. ACTIVITY WILL SLOWLY DIMINISH AS THE CORONAL HOLE RELATED DISTURBANCE SUBSIDES.

III. EVENT PROBABILITIES 13 AUG-15 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 AUG 068

PREDICTED 13 AUG-15 AUG 069/070/070

90 DAY MEAN 12 AUG 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 AUG 004/008

ESTIMATED AFR/AP 12 AUG 008/020

PREDICTED AFR/AP 13 AUG-15 AUG 012/025-008/015-008/015

SOLTERWARN

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