

HFUS3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 284

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4582 (S05W26) RETAINS ITS ARCH FILAMENT SYSTEM AND ACTIVE DARK FILAMENTS BUT HAS REMAINED MOSTLY STABLE IN WHITE LIGHT. NEW REGION 4583 (S07E20) APPEARED ON THE DISK AND IS PRESENTLY A SIMPLE B-TYPE GROUP WITH A STRONG ARCH FILAMENT SYSTEM. ACTIVE PROMINENCES WERE OBSERVED ON THE WEST LIMB NEAR N09, N26, AND N35, AND ON THE EAST LIMB NEAR N20. AT APPROXIMATELY 2000 UT, AN ACTIVE PROMINENCE ON THE WEST LIMB NEAR N42 EXPANDED RAPIDLY OUTWARD TO .16 SOLAR RADII.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS AT MIDDLE LATITUDES AND MINOR STORM LEVELS AT HIGH LATITUDES DURING THE PAST 24 HOURS. THIS CONTINUING ACTIVITY IS BELIEVED TO BE THE RESULT OF HIGH SPEED SOLAR WIND FROM A NEGATIVE POLARITY CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED TOMORROW, BUT WITH THE POSSIBILITY OF ACTIVE PERIODS ESPECIALLY AT HIGH LATITUDES. QUIET CONDITIONS ARE EXPECTED BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 OCT-13 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 OCT 074

PREDICTED 11 OCT-13 OCT 075/075/075

90 DAY MEAN 10 OCT 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 OCT 016/020

ESTIMATED AFR/AP 10 OCT 021/030

PREDICTED AFR/AP 11 OCT-13 OCT 015/020-010/010-007/010

SOLTERWARN

BT