

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

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