

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 286

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 12 OCT 1984

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4582 (S04W55) DID PRODUCE A SUBFAINT FLARE AT 1354 UT BUT IT WAS NOT AN X-RAY EVENT NOR DID IT PRODUCE MEASURABLE RADIO NOISE. ARCH FILAMENT SYSTEMS ARE STILL PRESENT IN REGIONS 4582 AND 4583 (S08W08), WHICH ARE THE ONLY SPOTTED REGIONS ON THE VISIBLE DISK. BOTH REGIONS ARE SIMPLE B-TYPE GROUPS. REGION 4584 (S15W00 AT 0000UT) WAS NUMBERED EARLY IN THIS REPORTING PERIOD BUT ALL TRACES OF IT HAVE SINCE DISAPPEARED. ACTIVE PROMINENCES WERE REPORTED ON THE WEST (N45, S20) AND EAST (N51) LIMBS TODAY.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. THERE ARE NO REGIONS EXPECTED TO RETURN DURING THE NEXT THREE DAYS.

II A. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO OCCASIONAL MINOR STORM LEVELS FOR THE PAST 24 HOURS. SOLAR WIND DATA FROM THE INTERNATIONAL COMETARY EXPLORER SPACECRAFT STILL SHOW A CORONAL HOLE SIGNATURE (HIGH SPEED, LOW DENSITY).

II B. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN GENERALLY UNSETTLED TOMORROW WITH POSSIBLE ACTIVE PERIODS ESPECIALLY DURING LOCAL NIGHTTIME HOURS. GEOMAGNETIC CONDITIONS SHOULD BECOME PROGRESSIVELY QUIETER OVER THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 13 OCT-15 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 OCT 074

PREDICTED 13 OCT-15 OCT 075/075/075

90 DAY MEAN 12 OCT 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 OCT 023/027

ESTIMATED AFR/AP 12 OCT 022/031

PREDICTED AFR/AP 13 OCT-15 OCT 015/015-010/010-007/010

SOLTERWARN

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