

HFUS3 BOU 172200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 346

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100
TO 11/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW DURING THE
PAST 24 HOURS. THE LARGEST EVENT OBSERVED WAS A B5/SF FROM
REGION 4608 (N19E66) AT 1741UT, NO RADIO BURSTS WERE OBSERVED
WITH THIS EVENT. THE VISIBLE DISK HAS ONLY TWO SPOTTED REGIONS
TODAY THE LARGEST IS 4607 (S12W05) WHICH HAS CONTINUED ITS
GROWTH. THIS GROUP CONTINUES TO CONTAIN AN STRONG ARCH FILAMENT
SYSTEM ALONG WITH NUMEROUS PLAGE FLUCUATIONS. ON 10 DEC AT
0130Z THERE WAS A REPORT ABOUT A FILAMENT LOCATED AT (N46E29)
WHICH DISAPPEARED AT ABOUT 0130Z TO 0200Z THE PORTION WHICH
DISAPPEARED WAS 13 DEGREES LONG.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN VERY LOW DURING THIS FORECAST PERIOD. HOWEVER IF REGION
4607 CONTINUES ITS RAPID GROWTH THEN AN ISOLATED ENERGETIC
EVENT IS TO BE EXPECTED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO SLIGHTLY
ACTIVE DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE AT MINOR TO MAJOR STORM LEVELS AT ALL LATITUDES
EARLY ON 12 DEC AND REMAINING AT STORM LEVELS FOR THE DURATION
OF THIS FORECAST PERIOD. THIS ACTIVITY IS EXPECTED DUE TO A
RECURRENT HIGH SPEED POSTIVE CORONAL HOLE STREAM WHICH HAS
PRODUCED MAJOR MAGNETIC STORMS THE LAST FOUR ROTATIONS.

III. EVENT PROBABILITIES 12 DEC-14 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 DEC 081

PREDICTED 12 DEC-14 DEC 083/083/082

90 DAY MEAN 11 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 DEC 008/009

ESTIMATED AFR/AP 11 DEC 013/014

PREDICTED AFR/AP 12 DEC-14 DEC 035/040-070/070-035/040

SOLTERWARN

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