

HFUS3-BOW 112200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 346

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 DEC 1984

I A. 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 BS/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 POSITIVE 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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