

HFUS3 BOU 072200 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 038

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

::::::: CORRECTED COPY:::::::

ISSUED 2200Z 07 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4623 (S07E29) IS THE ONLY NUMBERED REGION ON THE DISK, HOWEVER IT IS SPOTLESS AT FORECAST TIME. REGION 4623 DID PRODUCE A C1/1B FLARE AT 1918 UT WHICH HAD SEVERAL ERUPTIVE CENTERS. SURGING WAS REPORTED AT THE WEST LIMB NEAR N15 AND S14 AS REGIONS 4621 AND 4620 ROTATED FROM VIEW. SURGING ON THE EAST LIMB (S10) AT ABOUT 1400 UT IS NEAR THE EXPECTED LOCATION OF RETURNING REGION 4617, WHICH PRODUCED AN X-CLASS FLARE LAST ROTATION. AN ACTIVE FILAMENT NEAR S17E26 DISAPPEARED AT APPROXIMATELY 1600 UT BUT IS NOW IN THE PROCESS OF REFORMING. NO NEW REGIONS WERE IDENTIFIED OR NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY HAS BEEN MOSTLY AT ACTIVE LEVELS FOR THE PAST 24 HOURS, WITH SOME ISOLATED PERIODS AT MINOR STORM LEVELS AT BOTH MIDDLE AND HIGH LATITUDE LOCATIONS. THIS ACTIVITY IS ATTRIBUTED TO THE RECURRENT EFFECTS OF A POSITIVE POLARITY CORONAL HOLE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. THERE IS NO EVIDENCE THAT OLD REGION 4617 WILL BE ACTIVE ON THIS ROTATION.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE MOSTLY UNSETTLED FOR THE NEXT TWO DAYS. CONDITIONS MAY RANGE FROM NEARLY QUIET DURING LOCAL DAYLIGHT HOURS TO ACTIVE OR EVEN MINOR STORM LEVELS DURING THE NIGHT AT HIGH GEOMAGNETIC LATITUDES. MOSTLY QUIET LEVELS ARE EXPECTED BY THE END OF THE FORECAST PERIOD AS THE FIELD RECOVERS FROM THE GENERAL MINOR STORM CONDITIONS EXPERIENCED ON 6 FEBRUARY.

III. EVENT PROBABILITIES 08 FEB-10 FEB

CLASS M 01/01/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 FEB 072

PREDICTED 08 FEB-10 FEB 073/075/075

90 DAY MEAN 07 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 FEB 037/045

ESTIMATED AFR/AP 07 FEB 023/020

PREDICTED AFR/AP 08 FEB-10 FEB 015/020-015/015-010/010

SOLTERWARN

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