

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 069

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100Z TO 09/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW THIS PERIOD THE LARGEST EVENT OBSERVED WAS A B3/SF FROM REGION 4433 (S10E20) AT 0017UT. REGION 4431 (S10W05) PRODUCED FIVE SMALL OPTICAL FLARES BETWEEN 1200UT AND 1625UT HOWEVER NO X RAY EVENTS WERE RECORDED WITH THESE EVENTS. NEW REGION TODAY WAS NUMERED 4435 (N20W31) A SIMPLE B TYPE. ALL REGIONS ARE SIMPLE MAGNETICALLY AND ONLY REGION 4429 (S15W00) HAS EXHIBITED SIGNIFICANT GROWTH THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD AS CURRENT DISK AND OLD RETURNING REGIONS ARE EXPECTED TO REMAIN SIMPLE AND GENERALLY SMALL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD WAS AT ACTIVE LEVELS DURING THE FIRST HALF OF THIS PERIOD AND THEN GENERALLY UNSETTLED FOR THE REST OF THE PERIOD. THE ACTIVITY OF THE PAST THREE DAYS IS THOUGHT TO HAVE BEEN CAUSED BY A LARGE NEGATIVE CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN ON 03 MARCH.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED TO SLIGHTLY ACTIVE DURING THIS FORECAST PERIOD. ACTIVE CONDITIONS SHOULD OCCUR ON THE LAST DAY OF THE FORECAST PERIOD DUE TO THE SEVERAL SMALL FILAMENTS WHICH HAVE DISAPPEARED DURING THE PAST TWO DAYS.

III. EVENT PROBABILITIES 10 MAR-12 MAR

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 MAR 104

PREDICTED 10 MAR-12 MAR 105/110/115

90-DAY MEAN ----- 09 MAR 119

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 MAR 019/028

ESTIMATED AFR/AP 09 MAR 012/015

PREDICTED AFR/AP 10 MAR-12 MAR 010/015-012/015-015/015

SOLTERWARN

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