

HFUS 3 BOU 082800

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 068

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100 TO 08/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. NEW REGION 4433 (S10E32) PRODUCED THE LARGEST EVENT THIS PERIOD A C6/1B AT 0922UT, MINOR RADIO BURSTS WERE OBSERVED ALONG WITH A WEAK TYPE II SWEEP DURING THE FLARE. REGION 4429 (S15E15) PRODUCED A C3/1B EVENT AT 1131UT HOWEVER NO RADIO WAS RECORDED WITH THIS EVENT. A SMALL (FOUR DEGREES LONG AT S18E22) FILAMENT DISAPPEARED AT 1427UT MINOR RADIO WAS OBSERVED DURING THIS EVENT. NEW REGION 4434 (S05W29) WAS ALSO NUMBERED TODAY ALL REGIONS TODAY ARE C TYPE GROUPS AND GENERALLY SIMPLE MAGNETICALLY EXCEPT FOR REGION 4429 WHICH IS A BETA DELTA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL DURING THIS FORECAST PERIOD. REGION 4433 MAY (IF RAPID GROWTH CONTINUES) BECOME A SOURCE OF M CLASS EVENTS NEAR THE END OF THE FORECAST PERIOD. OLD REGIONS DUE TO RETURN WERE IN A STATE OF DECAY AS THEY PASSED OVER THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS AT THE MID-LATITUDE SITES, MINOR STORM AT THE HIGH LATITUDE SITES, DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS DURING THE FORECAST PERIOD. THE FILAMENT WHICH DISAPPEARED TODAY MAY INCREASE MAGNETIC ACTIVITY NEAR THE END OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 09 MAR-11 MAR

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 MAR 105

PREDICTED 09 MAR-11 MAR 105/110/115

90 DAY MEAN 08 MAR 119

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 MAR 022/029

ESTIMATED AFR/AP 08 MAR 019/023

PREDICTED AFR/AP 09 MAR-11 MAR 012/015-010/015-015/025

SOLTERWARN

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