

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 078

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100 TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY LOW LEVEL CLASS C/SUBFLARES OCCURRING. MOST OF THE FLARES HAVE OCCURRED IN REGION 4438 (S04W60). THIS REGION HAS DECAYED IN SUNSPOT STRUCTURE DURING THE PAST 24 HOURS. REGION 4443 (N14E41) HAS BEEN THE OTHER CONTRIBUTOR TO TODAY'S FLARE ACTIVITY. LITTLE CHANGE HAS OCCURRED IN THIS REGION. REGION 4445 (N07W18) HAS EMERGED DURING THE PAST 24 HOURS. REGIONS 4446 (N13E69) AND 4447 (S13E77) HAVE ROTATED ON TO THE DISK TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. ISOLATED CLASS M FLARES ARE POSSIBLE FROM REGIONS 4438 AND 4443.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED, BUT WITH SHORT PERIODS AT ACTIVE LEVEL, THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 19 MAR-21 MAR

CLASS M 60/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 MAR 129

PREDICTED 19 MAR-21 MAR 129/130/132

90 DAY MEAN 18 MAR 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 MAR 019/023

ESTIMATED AFR/AP 18 MAR 014/020

PREDICTED AFR/AP 19 MAR-21 MAR 012/015-010/015-012/015

SOLTERWARN

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