

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 103

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS BEEN LOW. FREQUENT CLASS C FLARES HAVE OCCURRED IN REGIN 4468 (N11E46); THE LARGEST OF THESE WAS A C7/1B AT 1705Z. REGION 4468 HAS GROWN RAPIDLY IN SUNSPOT STRUCTURE DURING THE PAST 24 HOURS. THERE IS A MIX OF POLARITIES, WITH MODERATE GRADIENT, AT THE SE EXTREMITY OF THE LARGE LEADER PENUMbra. THIS IS THE SITE OF THE CURRENT FLARE ACTIVITY. REGION 4468 IS THE ONLY SIGNIFICANT REGION ON THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. THE CHANCE FOR CLASS M FLARES IS INCREASING AS REGION 4468 CONTINUES TO GROW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE GENERALLY ACTIVE DURING THE FIRST HALF OF THE FORECAST PERIOD AND GENERALLY UNSETTLED THE LATTER HALF OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 13 APR-15 APR

CLASS M . 40/50/50

CLASS X . 01/01/01

PROTON . 01/01/01

PCAF . GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED . 12 APR 107

PREDICTED . 13 APR-15 APR 115/122/127

90 DAY MEAN . 12 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 APR 011/014

ESTIMATED AFR/AP 12 APR 013/020

PREDICTED AFR/AP 13 APR-15 APR 016/025-014/015-012/015

SOLTERWARN

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