

FUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 118

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 APR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4157 (S04E16) PRODUCED A M1/1B FLARE AT 1048Z. A 340 FU BURST AT 2695 MHZ ACCOMPANIED THIS FLARE. NUMEROUS LOW/MID SIZED CLASS C FLARES HAVE OCCURRED IN REGIONS 4154 (S14W04) AND 4162 (S15E10). ALL THREE OF THESE REGIONS HAVE COMPLEX NEUTRAL LINES WITH REGION 4162 HAVING STRONG GROWTH DURING THE PAST 24 HOURS. ISOLATED FLARES ARE OCCURRING IN REGIONS 4159 (N14W09) AND 4160 (N18W08). REGION 4163 (S08E66) ROTATED ON TO THE DISK WITH WEAK PLAGE. REGION 4164 (S15E18) IS EMERGING ON THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A MODERATE LEVEL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED TO SLIGHTLY ACTIVE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 APR-01 MAY

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 157

PREDICTED 29 APR-01 MAY 160/158/155

90 DAY MEAN 28 APR 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 APR 016/018

ESTIMATED AFR/AP 28 APR 012/015

PREDICTED AFR/AP 29 APR-01 MAY 012/020-014/015-014/015

SOLTERWARN

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