

HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 084

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 MAR 1984

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY WAS AT A LOW LEVEL DURING THE PAST 24 HOURS. THE DISK REGIONS HAVE SHOWN VERY LITTLE IN THE WAY OF CHANGE. REGION 4449 (S14E14) HAS INCREASED IN NUMBER OF SPOTS BUT DECREASED IN SPOT AREA. IT RETAINS ITS SIMPLE BETA MAGNETIC CONFIGURATION AND IN SPITE OF ITS UNIMPRESSIVE SIMPLICITY IS THE MOST PROMISING CANDIDATE FOR SIGNIFICANT ACTIVITY. REGION 4451 (S12W15) WAS NUMBERED TODAY AND IS A SIMPLE B TYPE GROUP.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL FOR THE NEXT 24 HOURS. OLD REGIONS 4434 AND 4432 SHOULD RETURN TO THE VISIBLE DISK DURING THE NEXT 24 HOURS BUT BOTH WERE UNPRODUCTIVE ON THEIR LAST TRANSIT.

II A. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE AT MID LATITUDES AND AT ACTIVE TO STORM LEVELS AT HIGH LATITUDES.

II B. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 25 MAR-27 MAR

CLASS M 30/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 114

PREDICTED 25 MAR-27 MAR 113/113/109

90 DAY MEAN 24 MAR 123

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAR 020/023

ESTIMATED AFR/AP 24 MAR 012/013

PREDICTED AFR/AP 25 MAR-27 MAR 013/015-010/015-014/015

SOLTERWARN

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