

HFUS 3 80U 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 061

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100 TO 01/2100Z: SOLAR ACTIVITY WAS AT A MODERATE LEVEL DURING THE PAST 24 HOURS. REGION 4421 (N13W90) PRODUCED AN M1 FLARE AT 292150Z (MAX) AND REGION 4422 (N11W72) PRODUCED AN M1 AT 010233Z (MAX). SINCE THEN, ACTIVITY HAS BEEN RESTRICTED TO SMALL RADIO AND XRAY BURSTS. REGION 4421 HAS NOW COMPLETED WEST LIMB PASSAGE WHILE REGION 4422 IS APPROACHING WEST LIMB PASSAGE. THE REMAINING VISIBLE REGIONS, 4423 (S11W31), 4426 (S12W57) AND 4427 (S13E34), ARE RELATIVELY SIMPLE REGIONS WITHOUT THE APPEARANCE OF THREATENING CHARACTERISTICS. HOWEVER, REGION 4427 CONTINUES TO DEVELOP ADDITIONAL SMALL SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW FOR THE NEXT 24 HOURS. EVEN SO, REGION 4422 COULD PRODUCE ISOLATED M EVENTS BEFORE CROSSING THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. STORM CONDITIONS RETURNED AGAIN TODAY AT 1500Z BUT UNLIKE YESTERDAY LASTED THROUGH 2100Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS AS THE FIELD RESPONDS TO THE RECURRENT PATTERN.

III. EVENT PROBABILITIES 02 MAR-04 MAR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAR 146

PREDICTED 02 MAR-04 MAR 143/140/136

90 DAY MEAN 01 MAR 117

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 FEB 010/014

ESTIMATED AFR/AP 01 MAR 015/015

PREDICTED AFR/AP 02 MAR-04 MAR 015/020-012/015-010/010

SOLTERWARN

BT