

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 034

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY WAS AT A MODERATE LEVEL DURING THE PAST 24 HOURS. REGION 4398 IS NO LONGER VISIBLE IN WHITE LIGHT BUT MANAGED AN M1 FLARE AT 030410 UT (MAX). SEVERAL SMALL RADIO BURSTS WERE ASSOCIATED WITH THIS FLARE INCLUDING AN IMPORTANCE 1 TYPE II SWEEP (DURATION 9 MINS). ANOTHER M1 XRAY BURST AT 031437 UT WAS UNCORRELATED OPTICALLY AND WAS NOT AS STRONG IN RADIO EMISSIONS AS THE 0410 UT FLARE. REGION 4399 (N11W73) IS SUFFERING FROM FORESHORTENING EFFECTS AND MAY ALSO BE DECLINING IN REALITY. THIS REGION HAS BEEN RELATIVELY QUIET THE PAST 24 HOURS. REGION 4403 (N12W53) HAS CEASED ITS GROWTH AS HAS REGION 4406 (S13W35). REGION 4408 (S13E38) IS GROWING SLOWLY AND REGION 4410 (S09E72), WHICH WAS NUMBERED TODAY, IS BECOMING MORE IMPRESSIVE AS IT ROTATES FURTHER ONTO THE VISIBLE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE COMING 24 HOURS. REGION 4399 IS THE ONLY REGION THAT APPEARS THREATENING AT THE PRESENT TIME.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE FOR THE NEXT THREE DAYS. IT IS BELIEVED THAT THE FIELD WILL BE UNDER RECURRENT CONDITIONS DURING THIS PERIOD.

III. EVENT PROBABILITIES 04 FEB-06 FEB

CLASS M 50/40/20

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 FEB 135

PREDICTED 04 FEB-06 FEB 126/118/114

90-DAY MEAN 03 FEB 102

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 FEB 014/022

ESTIMATED AFR/AP 03 FEB 015/020

PREDICTED AFR/AP 04 FEB-06 FEB 010/015-010/015-013/015

SOLTERWARN

BT