

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 296

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 OCT 1984

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100Z TO 22/2100Z: SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THIS PERIOD WITH ONLY ONE FLARE OBSERVED A SF/B1 FROM REGION 4586 (N05W44) AT 1317UT. REGION 4586 CONTINUES TO DECAY SLOWLY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY AT ACTIVE LEVELS AT THE MID LATITUDE SITES EXCEPT FOR THE PERIOD 0300 TO 0600UT WHEN A SHORT PERIOD OF MAJOR STORM LEVELS WAS OBSERVED. THE HIGH LATITUDE SITES OBSERVED MOSTLY MINOR STORM CONDITIONS WITH A FEW SHORT PERIODS OF MAJOR STORM ACTIVITY DURING THIS PERIOD. THIS ACTIVITY IS THOUGHT TO BE FROM A POSITIVE SOUTHERN CORONAL HOLE HIGH SPEED STREAM.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM CONDITIONS AT ALL SITES DURING THE NEXT 48 HOURS WHILE THE THIRD DAY OF THE FORECAST IS EXPECTED TO BE UNSETTLED TO ACTIVE AS THE EFFECTS OF THE CORONAL HOLE TAPER OFF.

III. EVENT PROBABILITIES 23 OCT-25 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 OCT 075

PREDICTED 23 OCT-25 OCT 075/075/075

90 DAY MEAN 22 OCT 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 OCT 035/043

ESTIMATED AFR/AP 22 OCT 035/045

PREDICTED AFR/AP 23 OCT-25 OCT 020/030-020/025-015/020

SOLTERWARN

BT