

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 297

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z TO 23/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW DURING THE PAST 24 HOURS. REGION 4586 (N04W61) CONTINUES TO EXHIBIT DECAY AND IS NOW AN H TYPE GROUP. NO OPTICAL FLARES HAVE BEEN REPORTED THIS PERIOD.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD WAS AT GENERALLY ACTIVE LEVELS WITH ONLY VERY SHORT PERIODS OF MINOR STORM CONDITIONS BEING OBSERVED AT THE MID LATITUDE SITES. THE HIGH LATITUDE SITES STARTED THE PERIOD AT MINOR TO MAJOR STORM CONDITIONS AND ENDED THE PERIOD AT ACTIVE LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD AT MID LATITUDES IS EXPECTED TO BE AT GENERALLY ACTIVE LEVELS DURING THE FIRST HALF OF THIS FORECAST PERIOD. A FEW SHORT PERIODS OF MINOR STORM CONDITIONS MAY OCCUR DURING THE NIGHT TIME SECTORS. THE HIGH LATITUDE SITES SHOULD BE NEAR ACTIVE TO MINOR STORM LEVELS UNTIL MIDDAY ON 25 OCT WHEN THE FIELD IS FORECAST TO RETURN TO UNSETTLED TO ACTIVE CONDITIONS FOR THE REST OF THE PERIOD.

III. EVENT PROBABILITIES 24 OCT-26 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 OCT 073

PREDICTED 24 OCT-26 OCT 073/073/073

90 DAY MEAN 23 OCT 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 OCT 032/046

ESTIMATED AFR/AP 23 OCT 015/030

PREDICTED AFR/AP 24 OCT-26 OCT 015/025-010/020-013/015

SOLTERWARN

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