

HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 293

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 19 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW DURING THE PAST 24 HOURS. REGION 4586 (N05W01) PRODUCED THE ONLY OPTICAL EVENT OBSERVED DURING THIS PERIOD A SF/EB AT 0016UT. REGION 4586 HAS EXHIBITED MINOR DECAY THIS PERIOD IN BOTH SPOT NUMBER AND SIZE. A SMALL REVERSE BIPOLAR AREA IS VISIBLE IN THE CURRENT MAGNETOGRAM AT N45W05 HOWEVER NO SPOTS HAVE BEEN REPORTED AT THIS TIME.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR TO MAJOR STORM LEVELS DURING MOST OF THE PERIOD WITH THE HIGH LATITUDE SITES OBSERVING MOSTLY MAJOR STORM CONDITIONS DURING THE ENTIRE PERIOD. THE MID LATITUDE SITES RECORDED MAJOR STORM CONDITIONS DURING THE NIGHT TIME SECTORS. THIS ACTIVITY APPEARS TO BE RECURRENT AND IS THOUGHT TO BE FROM A LARGE SOUTHERN CORONAL HOLE HIGH SPEED STREAM.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT MINOR TO MAJOR STORM LEVELS DURING THE FIRST TWO DAYS OF THE FORECAST WHILE THE LAST DAY SHOULD BE AT GENERALLY ACTIVE LEVELS. THE MAJORITY OF THE MAJOR STORM PERIODS SHOULD OCCUR DURING THE NIGHTTIME SECTORS.

III. EVENT PROBABILITIES 20 OCT-22 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCT 075

PREDICTED 20 OCT-22 OCT 077/077/076

90 DAY MEAN 19 OCT 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 OCT 026/041

ESTIMATED AFR/AP 19 OCT 054/065

PREDICTED AFR/AP 20 OCT-22 OCT 035/035-025/035-020/030

SOLTERWARN

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