

HFUS3 BOU 210200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 295

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100Z TO 21/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW DURING THE PAST 24 HOURS. THE ONLY OPTICAL FLARE REPORTED WAS A SF/B6 AT 0225UT FROM REGION 4586 (N04W30) A SMALL FILAMENT ASSOCIATED WITH THIS REGION DISAPPEARED DURING THE FLARE. REGION 4586 CONTINUES TO EXHIBIT DECAY, ONLY THE LEADER SPOT RETAINS PENUMBRA, IN BOTH SIZE AND AREA. NO NEW REGIONS WERE NUMBERED TODAY HOWEVER NEAR (S15E09) ONE SITE HAS REPORTED AN A TYPE GROUP.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: THE GEOMAGNETIC FIELD AT THE MID LATITUDE SITES WAS AT GENERALLY ACTIVE LEVELS WITH ONLY SHORT PERIODS OF MINOR STORM CONDITIONS BEING OBSERVED. THE GEOMAGNETIC FIELD AT THE HIGH LATITUDE SITES WAS REPORTED AT MINOR STORM LEVELS WITH SHORT PERIODS OF MAJOR STORM CONDITIONS OBSERVED GENERALLY DURING THE NIGHT TIME SECTORS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT GENERALLY ACTIVE LEVELS AT THE MID LATITUDE SITES WHILE THE HIGH LATITUDE SITES WILL BE AT MINOR STORM LEVELS DURING THE FIRST TWO DAYS OF THE FORECAST PERIOD. SHORT PERIODS OF MINOR TO MAJOR STORM LEVELS MAY BE OBSERVED AT ALL SITES DURING NIGHT TIME SECTORS DURING THIS THREE DAY FORECAST.

III. EVENT PROBABILITIES 22 OCT-24 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 OCT 074

PREDICTED 22 OCT-24 OCT 074/074/074

90 DAY MEAN 21 OCT 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 OCT 038/058

ESTIMATED AFR/AP 21 OCT 028/035

PREDICTED AFR/AP 22 OCT-24 OCT 020/030-020/025-015/025

SOLTERWARN

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