

HFUS3 BOU 132200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 287

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 13 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100 TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. AT THE FORECAST ISSUE TIME THERE WERE NO SPOTS ON THE VISIBLE DISK. HOWEVER, TWO SUBFLARES OCCURRED. THE FIRST WAS AT 0026 UT IN NEW REGION 4585 (N04W79) WHICH EMERGED AS A PLAGE REGION ON 12 OCTOBER. AN A-TYPE SPOT WAS REPORTED HERE FOR A BRIEF TIME EARLY IN THE UT DAY. THE SECOND SUBFLARE OCCURRED IN REGION 4582 (S04W68) AT 1730 UT. A SMALL ENHANCEMENT IN X-RAYS ACCCOMPANIED THIS FLARE. LIMB ACTIVITY REPORTS INCLUDED AN ACTIVE PROMINENCE AT S11W90, AND AN ACTIVE PROMINENCE AT N50W90 WHICH SLOWLY EXPANDED AND DISAPPEARED AT APPROXIMATELY 0630 UT. AN ACTIVE SURGE REGION WAS REPORTED NEAR S01W90 NEAR 0220 UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. NO REGIONS ARE EXPECTED TO RETURN DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY ACTIVE AT BOTH MIDDLE AND HIGH LATITUDES FOR THE PAST 24 HOURS ALTHOUGH ACTIVITY LEVELS HAVE QUIETED CONSIDERABLY DURING RECENT HOURS. OVERALL, GEOMAGNETIC CONDITIONS HAVE DECLINED FROM THE ACTIVE TO MINOR STORM LEVELS EXPERIENCED YESTERDAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO CONTINUE TO DECLINE TOWARD UNSETTLED TO QUIET LEVELS BY THE END OF THE FORECAST PERIOD. OCCASIONAL ACTIVE PERIODS ARE STILL LIKELY DURING LOCAL NIGHTTIME HOURS.

III. EVENT PROBABILITIES 14 OCT-16 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCT 075

PREDICTED 14 OCT-16 OCT 075/075/075

90 DAY MEAN 13 OCT 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 OCT 027/032

ESTIMATED AFR/AP 13 OCT 018/025

PREDICTED AFR/AP 14 OCT-16 OCT 015/015-010/015-010/015

SOLTERWARN

BT