

HFUS3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 307

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. AT FORECAST ISSUE TIME THERE WERE NO SPOTS VISIBLE ON THE DISK. HOWEVER, SEVERAL ENHANCEMENTS IN X-RAYS HAVE OCCURRED. THE LARGEST ENHANCEMENT COINCIDED WITH A SUBFLARE AND FILAMENT ERUPTION AT 0203 UT IN REGION 4589 (S11W45). THE ONLY LIMB ACTIVITY REPORTED TODAY WAS AN ACTIVE PROMINENCE ON THE WEST LIMB (NW19).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD WAS QUIET UNTIL APPROXIMATELY 1500 UT, WHEN UNSETTLED TO ACTIVE CONDITIONS BEGAN. THE STORM CONDITIONS EXPECTED TODAY HAVE NOT YET MATERIALIZED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REACH MINOR STORM LEVELS WITHIN THE NEXT FEW HOURS AND CONTINUE AT ACTIVE TO MINOR STORM LEVELS THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY IS EXPECTED AS THE RESULT OF A HIGH SPEED SOLAR WIND STREAM FROM A RECURRENT NEGATIVE POLARITY CORONAL HOLE WHICH CROSSED SOLAR CENTRAL MERIDIAN ON 31 OCTOBER. THERE IS THE POSSIBILITY OF ADDITIONAL DISTURBANCE ASSOCIATED WITH A FILAMENT DISAPPEARANCE ON 30 OCTOBER.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 NOV 070

PREDICTED 03 NOV-05 NOV 070/070/070

3 DAY MEAN 02 NOV 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 NOV 023/028

ESTIMATED AFR/AP 02 NOV 013/015

PREDICTED AFR/AP 03 NOV-05 NOV 040/040-025/025-025/025

SOLTERWARN

RT