

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

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

BT