

HFUS 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 294

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 21 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100  
TO 21/2100Z: SOLAR ACTIVITY WAS VERY LOW DURING THIS PERIOD.  
CURRENTLY THERE ARE TWO SIMPLY SPOTTED REGIONS ON THE DISK,  
INCLUDING NEWLY ADDED REGION 4345 (S07E66). TODAY'S OTTAWA 10.7  
CM FLUX IS THE LOWEST MAGNITUDE SINCE A VALUE OF 91 WAS  
RECORDED ON 15 FEBRUARY 1983.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN AT A VERY LOW LEVEL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z:  
THE GEOMAGNETIC FIELD WAS QUIET THROUGH 0800Z; IT HAS BEEN  
ACTIVE SINCE THEN AS THE FIELD RESPONDS TO CORONAL HOLE  
EFFECTS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE GENERALLY AT ACTIVE LEVELS THROUGH THE FORECAST  
PERIOD. HOWEVER, INDIVIDUAL SUBSTORMS WILL PRODUCE SHORT  
PERIODS AT STORM LEVEL, PRIMARILY AT HIGHER LATITUDES.

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 090

PREDICTED 22 OCT-24 OCT 089/088/088

90 DAY MEAN 21 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 OCT 004/009

ESTIMATED AFR/AP 21 OCT 015/015

PREDICTED AFR/AP 22 OCT-24 OCT 020/025-020/025-013/015

SOLTERWARN

BT