

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 108

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 17 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100  
TO 17/2100Z: SOLAR ACTIVITY WAS AT A LOW TO MODERATE LEVEL  
DURING THE PREVIOUS 24 HOURS. REGION 4469 (S15E37) IS THE  
PRIMARY FLARE PRODUCER AND PRODUCED AN M1/1B AT 171448Z (MAX).  
NO SIGNIFICANT RADIO BURSTS WERE REPORTED WITH THIS FLARE.  
REGION 4469 CONTINUED TO GROW SLOWLY DURING THE PAST 24 HOURS  
AS THE SPOTS INCREASED IN NUMBER. REGION 4468 (N09W22) PRODUCED  
A C2/1F AT 171629Z (MAX) BUT THIS HAS BEEN ITS MOST ENERGETIC  
OUTPUT TODAY. A SMALL H TYPE SPOT ROTATED OVER THE EAST LIMB  
NEAR S10 AND WAS NUMBERED 4472. THE REST OF THE DISK IS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW TO MODERATE DURING THE NEXT THREE DAYS AS 4468 AND 4469  
APPEAR CAPABLE OF ISOLATED M CLASS FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z:  
THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED DURING THE PAST 24  
HOURS. THE FIELD EXPERIENCED A SHARP EXCURSION OF ABOUT 38  
GAMMAS NEAR 171455Z. ALTHOUGH TIME RELATED TO THE M1/1B FLARE,  
IT IS BELIEVED THIS EXCURSION IS A SUDDEN IMPULSE RATHER THAN A  
SOLAR FLARE EFFECT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.  
RECURRENT EFFECTS ARE THOUGHT TO BE THE PRIME FACTOR  
INFLUENCING THE FIELD DURING THIS INTERVAL.

III. EVENT PROBABILITIES 18 APR-20 APR

CLASS M	50/50/50
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	17 APR	124
PREDICTED	18 APR-20 APR	126/127/129
90 DAY MEAN	17 APR	130

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP	16 APR	005/009
ESTIMATED	AFR/AP	17 APR	010/015
PREDICTED	AFR/AP	18 APR-20 APR	015/025-015/020-015/020

SOLTERWARN

BT