

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 104

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100  
TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT WAS  
A C2/1N AT 0033Z (MAX) IN REGION 4468 (N09E32). THE INTENSITY  
AND FREQUENCY OF FLARES IN THIS REGION HAVE DECREASED. MIXED  
POLARITIES ON THE EAST SIDE OF THE LARGE LEADER PENUMBRA  
REMAIN; HOWEVER, THEIR FIELD STRENGTH AND MAGNETIC GRADIENT  
HAVE DECREASED. WITHOUT THIS SMALL CLUSTER OF MIXED POLARITY  
SPOTS, REGION 4468 WOULD BE A LARGE SIMPLE BIPOLAR SPOT GROUP.  
SURGING HAS BEEN OCCURRING NEAR SE19. TODAY'S SACRAMENTO PEAK  
CALCIUM SPECTROGRAM SHOWS A WEAK PLAGE AT THIS POSITION. A 245  
MHZ NOISE STORM IS IN PROGRESS AND IS EXPECTED TO INTENSIFY AS  
REGION 4468 APPROACHES CENTRAL MERIDIAN.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z:  
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE  
GENERALLY UNSETTLED THROUGH THE FORECAST PERIOD. HOWEVER, SHORT  
PERIODS OF ACTIVE CONDITIONS ARE EXPECTED WITH INDIVIDUAL  
SUBSTORM RESPONSES, PRIMARILY DURING LOCAL NIGHT TIME.

III. EVENT PROBABILITIES 14 APR-16 APR

CLASS M 30/20/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APR 113

PREDICTED 14 APR-16 APR 116/120/123

90 DAY MEAN 13 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 APR 015/016

ESTIMATED AFR/AP 13 APR 015/016

PREDICTED AFR/AP 14 APR-16 APR 014/015-012/015-010/010

SOLTERWARN

BT