

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 124

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

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