

HFUS 3 BOU 301407

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 304A

JOINT USAF/NASA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 30 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.  
SMALL X-RAY/OPTICAL FLARES HAVE BEEN RECORDED FROM ELEVEN  
DIFFERENT REGIONS, THE LARGEST X-RAY A C9/SB AT 29/1536 UT  
FROM REGION 2765 (N29E46). THE LARGEST OPTICAL FLARE WAS A  
C4/IN FROM REGION 2748 (S11W82) AT 30/0731 UT ALONG WITH THIS  
EVENT WAS A BRIGHT SURGE THAT WAS OBSERVED OUT TO .16 RAD II.  
REGIONS 2773 (N03E72) 2774 (S16W27) AND 2761 (S03W10) CONTINUE  
TO EXHIBIT GROWTH IN BOTH SIZE AND COMPLEXITY. MORE SURGING IS  
BEING REPORTED FROM NE 10 TO NE 03 SO ACTIVITY FROM THE EAST HALF  
OF THE SOLAR DISK IS EXPECTED TO INCREASE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS.  
REGIONS THAT HAVE THE BEST POTENTIAL FOR M-CLASS ACTIVITY ARE  
2748, 2761, 2765 AND 2773.

III. THE GEOMAGNETIC FIELD HAS BEEN QUIET. LITTLE CHANGE IS  
EXPECTED.

III. EVENT PROBABILITIES: 31 OCT - 02 NOV

CLASS M 50/55/60

CLASS X 05/05/05

PROMOTION 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 OCT 189

ESTIMATED 30 OCT 195

PREDICTED 31 OCT - 02 NOV 201/207/213

90 DAY MEAN 29 OCT 186

V. GEOMAGNETIC INDICES

OBSERVED AFR 28 OCT 02 AP 29 OCT 05

ESTIMATED AFR 29 OCT - 06 AFR/AP 30 OCT 06/07

PREDICTED AFR/AP 31 OCT - 02 NOV 06/07 06/07 06/07

SOLTERWARN

HFUS 1 BOU 302200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.  
SDF NUMBER 304B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200 UT 30 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. ELEVEN SUBFLARES OCCURRED IN REGIONS 2748 (S11W93), 2759 (N23W08), 2761 (S04W18), 2763 (N15W07), 2765 (N29E40) AND 2772 (N22E50). THE LARGEST OPTICAL FLARE WAS A C4/IN FROM REGION 2748 AT 0722 UT AND THE LARGEST X-RAY EVENT WAS A C7.8 WITH NO OPTICAL CORRELATION AT 2049 UT. TWO NEW REGIONS WERE OBSERVED, 2775 (N04E79) AND 2776 (N10E80).

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THE NEXT THREE DAYS WITH A POSSIBLE X-CLASS EVENT FROM REGION 2776 DURING THE LATTER HALF OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL A SUDDEN COMMENCEMENT OF 29 GAMMAS AT 1520 UT, BECOMING UNSETTLED. THE FIELD IS EXPECTED TO BECOME INCREASINGLY UNSETTLED DUE TO A CORONAL HOLE OBSERVED 27 OCT., RETURNING TO MILDLY UNSETTLED ON 02 NOVEMBER.

III. EVENT PROBABILITIES 31 OCT - 02 NOV

CLASS M 50/55/60

CLASS X 05/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX  
OBSERVED 30 OCT 205  
PREDICTED 31 OCT - 02 NOV 2.13/221/225  
90-DAY MEAN 30 OCT 186

V. GEOMAGNETIC INDICES  
OBSERVED AFR/AP 29 OCT 02/05  
ESTIMATED AFR/AP 30 OCT 10/10  
PREDICTED AFR/AP 31 OCT - 02 NOV 09/10 - 13/15 - 07/07  
SOLTERWARN  
BT