

HFUS 3 80U 301407

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

JOINT USAF/NOAA 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 RADII.
REGIONS 2773 (N03E72) 2774 (S16W27) AND 2761 (S03W10) CONTINUE
TO EXHIBIT GROWTH IN BOTH SIZE AND COMPLEXITY. MORE SURGING IS
BEING REPORTED FROM NE10 TO NE03 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.

II. 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

PROTON 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 A 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 (N22E56). 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 2.13/22.1/22.5

90-DAY MEAN 30 OCT 186

V. GEOMAGNETIC A 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