

HFUS 3 BOU 031400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 338A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200 UT 03 DEC 1980

I A. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.
REGION 2810 (S10W06) PRODUCED FOUR M-CLASS X-RAY FLARES IN AN
8 HOUR PERIOD ON 02 DEC, BUT ITS MAGNETIC DELTA HAS WEAKENED
AND IT APPEARS LESS THREATENING. REGION 2812 (N17W72) HAS
NOW LOST ITS DELTA CONFIGURATION BUT IS STILL SHOWING BRIGHT
POINTS AND PLAGE FLUCTUATIONS. NEW REGION 2824 (S12E66) IS
SO FAR A DISAPPOINTING RETURN OF 2779 ALTHOUGH IT IS PRODUCING
C-CLASS SUBFLARES AND MAY OFFER SOME EXCITEMENT DURING ITS
DISK PASSAGE. THERE ARE CURRENTLY SEVENTEEN SPOTTED REGIONS
ON THE VISIBLE DISK.

I B. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE BASED LARGE LY
ON THE POTENTIAL CONTAINED IN 2810.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE FOR THE
PAST 24 HOURS THEREBY DEFYING ALL ATTEMPTS TO FORECAST ITS
BEHAVIOR. ACTIVE CONDITIONS HAVE BEEN EXPERIENCED SINCE 0600
TODAY ASSOCIATED WITH A SMALL BUT PREDOMINATELY SOUTHWARD
(ALTHOUGH FLUCTUATING) INTERPLANETARY FIELD DIRECTED TOWARD THE
SUN. RETURNING TO THE RATIONALE OF 1 DECEMBER, UNSETLED
TO SLIGHTLY ACTIVE CONDITIONS ARE NOW EXPECTED TO PERSIST DURING
THE DISK PASSAGE OF A 90 DEGREE WIDE, SOUTHERN CORONAL HOLE
NOW CENTERED AT WEST 10°.

III. EVENT PROBABILITIES: 04-06 DEC

CLASS M 70/70/70

CLASS X 15/10/10

PROMPT 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 DEC 219

ESTIMATED 03 DEC 220

PREDICTED 04-06 DEC 220/215/213

90 DAY MEAN 02 DEC 204

V. GEOMAGNETIC INDICES

OBSERVED AFR 01 DEC 17 AP 02 DEC 06

ESTIMATED AFR 02 DEC 07 AFR/AP 03 DEC 15/15

PREDICTED AFR/AP 04-06 DEC 15/15 15/15 15/15

SOLTERWARN

BT

HFUS 1 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 338B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.
REGION 2810 (S10W06) PRODUCED FOUR M-CLASS X-RAY FLARES IN AN
8 HOUR PERIOD ON 02 DECEMBER, BUT ITS MAGNETIC DELTA HAS
WEAKENED AND IT APPEARS LESS THREATENING. REGION 2812 (N17W72)
HAS NOW LOST ITS DELTA CONFIGURATION BUT IS STILL SHOWING
BRIGHT POINTS AND PLAGE FLUCTUATIONS. NEW REGION 2824 (S12E66)
IS SO FAR A DISAPPOINTING RETURN OF 2779 ALTHOUGH IT IS
PRODUCING C-CLASS SUBFLARES AND MAY OFFER SOME EXCITEMENT
DURING ITS DISK PASSAGE. THERE ARE CURRENTLY SEVENTEEN SPOTTED
REGIONS ON THE VISIBLE DISK.

ADDITI ONS TO 1200Z -----

SOLAR ACTIVITY HAS BEEN LOW WITH ONLY TWO C-CLASS X-RAY EVENTS,
ONE A C2/SN FROM REGION 2809 (N2W28) AT 1456 UT AND A C2/SN
FROM REGION 2810 (S12W09) AT 1912 UT. REGIONS 2821 (S11E08),
2815 (S09W03) AND 2813 (N11W13) HAVE ALSO PRODUCED SMALL OPTICAL
FLARES, NO X-RAYS WERE RECORDED WITH THESE EVENTS.

IR. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE BASED LARGE LY
ON THE POTENTIAL CONTAINED IN REGION 2810.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE
PAST 24 HOURS THEREBY DEFYING ALL ATTEMPTS TO FORECAST ITS
BEHAVIOR. ACTIVE CONDITIONS HAVE BEEN EXPERIENCED SINCE 0600 UT
TODAY ASSOCIATED WITH A SMALL BUT PREDOMINATELY SOUTHWARD
(ALTHOUGH FLUCTUATING) INTERPLANETARY FIELD DIRECTED TOWARD THE
SUN. RETURNING TO THE RATIONALE OF 01 DECEMBER, UNSETTLED TO
SLIGHTLY ACTIVE CONDITIONS ARE NOW EXPECTED TO PERSIST DURING
THE DISK PASSAGE OF A 90 DEGREE WIDE, SOUTHERN CORONAL HOLE
NOW CENTERED AT WEST 10.

III. EVENT PROBABILITIES 04 DECEMBER - 06 DECEMBER

CLASS M 70/70/70

CLASS X 15/10/10

PREDICTED 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DECEMBER 2.04

PREDICTED 04-06 DECEMBER 2.03/2.03/19.7

90-DAY MEAN 03 DECEMBER 2.03

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 02 DECEMBER 07/06

ESTIMATED AFR/AP 03 DECEMBER 15/15

PREDICTED AFR/AP 04-06 DECEMBER 15/15 - 15/15 - 15/15

SOLAR WAR N

BT