

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

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 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 FLARE 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.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE BASED LARGELY ON THE POTENTIAL CONTAINED IN 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 TODAY ASSOCIATED WITH A SMALL BUT PREDOMINATELY SOUTHWARD (ALTHOUGH FLUCTUATING) INTERPLANETARY FIELD DIRECTED TOWARD THE SUN. RETURNING TO THE RATIONALE OF 1 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: 04-06 DEC

CLASS M 70/70/70

CLASS X 15/10/10

PROTON 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 A 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 B0U 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 FLARE 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.

ADDITIONS TO 1200Z -----

SOLAR ACTIVITY HAS BEEN LOW WITH ONLY TWO C-CLASS X-RAY EVENTS, ONE A C2/SN FROM REGION 2809 (N21W28) 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.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE BASED LARGELY 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

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DECEMBER 204

PREDICTED 04-06 DECEMBER 203/203/197

90-DAY MEAN 03 DECEMBER 203

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

SOLTERWARN

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