

HFUS 3 BOU 171400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 353A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 18 DECEMBER 1980

IA. SOLAR ACTIVITY HAS CONTINUED MODERATE DURING THE PAST 24 HOURS. REGION 2841 (N13E01) BEGAN THE PERIOD BY PRODUCING AN M4/2B FLARE (WITH MAXIMUM AT 17/1209 UT) THIS FLARE WAS ACCOMPANIED BY AN IMPORTANCE 2 SHORT WAVE FADE TO 22 MHZ BUT THE CEN-TIMETER WAVELENGTH RADIO BURSTS ASSOCIATED WITH THE FLARE WERE OF MODEST PROPORTIONS. REGION 2845 (S16E38), WHICH IS REPORTED TO BE GROWING, PRODUCED AN M1/SN (WITH MAXIMUM AT 1828 UT) AND REGION 2840 (N07W08) PRODUCED AN M2/1B (WITH MAXIMUM AT 18/0148 UT). THE RADIO RESPONSE ASSOCIATED WITH THE M2 EVENT IN REGION 2840 WAS MINIMAL. THE COMPLEX OF REGIONS 2840/2841 HAS CLEARLY SIMPLIFIED DURING THE PAST 24 HOURS. REGION 2841 HAS DECAYED DRAMATICALLY AND NOW HAS A MUCH REDUCED FLARE POTENTIAL. REGION 2840 HAS WEAKENED OVERALL BUT STILL CONTAINS A MAGNETIC DELTA CONFIGURATION AND HAS SHOWN SOME GROWTH IN THE TRAILER (NEAREST REGION 2841). OTHER REGIONS ARE CURRENTLY PEACEFUL ALTHOUGH A COUPLE OF THEM APPEAR TO BE GROWING.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO LOW DURING THE FORECAST PERIOD. REGION 2840 IS STILL THE REGION MOST LIKELY TO PRODUCE MODERATELY ENERGETIC ACTIVITY BUT EVEN THIS REGION'S POTENTIAL IS WANING.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL ABOUT 18/0600 UT WHEN THERE WAS THE GRADUAL ONSET OF A MILD DISTURBANCE. THE FIELD IS AT ACTIVE LEVELS AT THE TIME OF THIS FORECAST. THE DISTURBANCE IS EXPECTED TO SUBSIDE DURING THE REMAINDER OF THE UT DAY. UNSETTLED CONDITIONS SHOULD PREVAIL OVER THE NEXT 72 HOURS.

III. EVENT PROBABILITIES: 19 DECEMBER - 21 DECEMBER

CLASS M 60/50/50

CLASS X 15/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 DEC 263

ESTIMATED 18 DEC 257

PREDICTED 19-21 DEC 251/249/248

90 DAY MEAN 18 DEC 210

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 DEC 18 AP 17 DEC 05

ESTIMATED AFR 17 DEC 02 AFR/AP 18 DEC 12/13

PREDICTED AFR/AP 19-21 DEC 10/10 09/10 08/08

SOLTERWARN

BT

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 353B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 18 DECEMBER 1980

IA. SOLAR ACTIVITY HAS CONTINUED MODERATE DURING THE PAST 24 HOURS. REGION 2841 (N13E01) BEGAN THE PERIOD BY PRODUCING AN M4/2B FLARE (WITH MAXIMUM AT 17/1209 UT) THIS FLARE WAS ACCOMPANIED BY AN IMPORTANCE 2 SHORT WAVE FADE TO 22 MHZ BUT THE CENTIMETER WAVELENGTH RADIO BURSTS ASSOCIATED WITH THE FLARE WERE OF MODEST PROPORTIONS. REGION 2845 (S16E38), WHICH IS REPORTED TO BE GROWING, PRODUCED AN M1/SN (WITH MAXIMUM AT 1828 UT) AND REGION 2840 (N07W08) PRODUCED AN M2/1B (WITH MAXIMUM AT 18/0148 UT). THE RADIO RESPONSE ASSOCIATED WITH THE M2 EVENT IN REGION 2840 WAS MINIMAL. THE COMPLEX OF REGIONS 2840/2841 HAS CLEARLY SIMPLIFIED DURING THE PAST 24 HOURS. REGION 2841 HAS DECAYED DRAMATICALLY AND NOW HAS A MUCH REDUCED FLARE POTENTIAL. REGION 2840 HAS WEAKENED OVERALL BUT STILL CONTAINS A MAGNETIC DELTA CONFIGURATION AND HAS SHOWN SOME GROWTH IN THE TRAILER (NEAREST REGION 2841). OTHER REGIONS ARE CURRENTLY PEACEFUL ALTHOUGH A COUPLE OF THEM APPEAR TO BE GROWING. ADDITIONS TO 1200Z: NO SIGNIFICANT CHANGES.

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III. EVENT PROBABILITIES: 19 DECEMBER - 21 DECEMBER

CLASS M 60/50/50

CLASS X 10/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 18 DEC 264

PREDICTED 19-21 DEC 255/250/248

90 DAY MEAN 18 DEC 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 DEC 03/05

ESTIMATED AFR/AP 18 DEC 10/10

PREDICTED AFR/AP 19-21 DEC 10/10 09/10 09/08

SOLTERWARN

BT