

HFUS 3 BOU 151400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 350A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 15 DECEMBER 1980

I A. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 2840 (N07E33) PRODUCED THE ONLY M-CLASS EVENTS A M1/1B AT 1751UT AND A M1/SN AT 0842UT. NEW SPOTS HAVE BEEN REPORTED NORTH AND SOUTH OF REGION 2840, WITH THE CONTINUING DELTA CONFIGURATION THIS WILL CONTINUE THE STRONG MAGNETIC GRADIENTS AND THE HIGH FLARE POTENTIAL OF THE REGION. REGION 2826 (N15W36) CONTINUES TO SIMPLIFY MAGNETICALLY. REGION 2841 (N14E40) HAS SHOWN ONLY MINOR GROWTH THIS PERIOD. NEW REGION 2845 (S15E78) IS A LARGE H TYPE GROUP.

B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS. IF REGION 2840 EXHIBITS RAPID CHANGE THEN A PERIOD OF HIGH ACTIVITY IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN AT GENERALLY QUIET LEVELS DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 16-18 DECEMBER

CLASS M 90/90/90

CLASS X 15/15/15

PREDICTED 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 14 DEC 261

ESTIMATED 15 DEC 270

PREDICTED 16-18 DEC 272/270/270

90 DAY MEAN 14 DEC 206

V. GEOMAGNETIC INDICES

OBSERVED AFR 13 DEC 04 AP 14 DEC 07

ESTIMATED AFR 14 DEC 04 AFR/AP 15 DEC 12/12

PREDICTED AFR/AP 16-18 DEC 12/15 12/12 10/10

SOLIERWARN

BT

NOAA

HFUS 1 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 350B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 15 DECEMBER 1980

I. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 2840 (N 07E33) PRODUCED THE ONLY M-CLASS EVENTS A M1/1B AT 1751UT AND A M1/SN AT 0842UT. NEW SPOTS HAVE BEEN REPORTED NORTH AND SOUTH OF REGION 2840, WITH THE CONTINUING DELTA CONFIGURATION THIS WILL CONTINUE THE STRONG MAGNETIC GRADIENTS AND THE HIGH FLARE POTENTIAL OF THE REGION. REGION 2826 (N 15W36) CONTINUES TO SIMPLIFY MAGNETICALLY. REGION 2841 (N 14E40) HAS SHOWN ONLY MINOR GROWTH THIS PERIOD. NEW REGION 2845 (S 15E78) IS A LARGE H TYPE GROUP.

ADDITIONS TO 1200Z: AN M1/1N FLARE OCCURRED IN REGION 2841 (N 14E33) AT 15/1832 UT FOLLOWED CLOSELY BY AN M5/2B IN REGION 2840 (N 07E26) AT 15/1917 UT. RADIO BURSTS WERE OBSERVED ACROSS THE MONITORED SPECTRUM BUT NO TYPE II OR IV SWEEPS WERE OBSERVED WITH THE LARGER EVENT. A 1B FLARE IN REGION 2839 (S 16E15) WAS OBSERVED SIMULTANEOUSLY WITH THE 2B FLARE IN REGION 2840 WHICH MAY HAVE CONTRIBUTED SIGNIFICANTLY TO THE X-RAY FLUX OF THIS EVENT. A SMALL NEW REGION 2846 (N 16E21) HAS BEEN CONFIRMED.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS. IF REGION 2840 EXHIBITS RAPID CHANGE THEN A PERIOD OF HIGH ACTIVITY IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN AT GENERALLY QUIET LEVELS DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 16-18 DECEMBER

CLASS M 90/90/90

CLASS X 15/15/15

PREDICTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 15 DEC 264

PREDICTED 16-18 DEC 275/272/272

90 DAY MEAN 15 DEC 207

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 14 DEC 07/07

ESTIMATED AFR/AP 15 DEC 09/10

PREDICTED AFR/AP 16-18 DEC 12/15 12/12 10/10

SOLTERWARN

BT