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HFUS 3 BOU 131400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 348A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 13 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.

FOUR M-CLASS EVENTS HAVE BEEN RECORDED, A M1/SB FROM REGION 2840 (N07E59) AT 12/1541UT, A M1/IN FROM REGION 2838 (N16E49) AT 12/1557UT AND A PAIR FROM REGION 2826 (N14W10) A M2/IB AT 12/1721UT AND A M1/SB AT 12/2116UT. REGION 2826 HAS CONTINUED TO GROW, HOWEVER AT A MUCH SLOWER RATE, A PERSIST BUT WEAK DELTA CONTINUES IN THE LEADER GROUP. REGION 2840 APPEARS TO HAVE A DELTA WITH A RELATIVELY SIMPLE NEUTRAL LINE. STRONG MAGNETIC GRADIENTS ARE BEING REPORTED IN REGIONS 2826 AND 2840. NEW REGION 2843 (N06E77) IS A SIMPLE H TYPE.

IB SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS WITH A CHANCE FOR A SHORT PERIOD OF HIGH ACTIVITY IF REGION 2826 AGAIN EXHIBITS RAPID CHANGE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE NEXT THREE DAYS.

IF REGION 2826 PRODUCES A LARGE ENERGETIC EVENT, DURING THE NEXT 24 HOURS, THEN A MAGNETIC STORM NEAR END OF THE FORECAST PERIOD IS EXPECTED.

III. EVENT PROBABILITIES: 14-16 DEC

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 12 DEC 239

ESTIMATED 13 DEC 255

PREDICTED 14-16 DEC 265/270/272

90 DAY MEAN 12 DEC 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR 14 AP 12 DEC 13

ESTIMATED AFR 12 DEC 11 AFR/AP 13 DEC 08/12

PREDICTED AFR/AP 14-16 DEC 10/10 12/12 12/15

SOLTERWAR N

BT

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KBOU

HFUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 348B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 13 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. FOUR M-CLASS EVENTS HAVE BEEN RECORDED, A M1/SB FROM REGION 2340 (N07E59) AT 12/1541UT, A M1/IN FROM REGION 2838 (N16E49) AT 12/1557UT AND A PAIR FROM REGION 2826 (N14W10) A M2/IB AT 12/1721UT AND A M1/SB AT 12/2116UT. REGION 2826 HAS CONTINUED TO GROW, HOWEVER AT A MUCH SLOWER RATE, A PERSISTENT BUT WEAK DELTA CONTINUES IN THE LEADER GROUP. REGION 2340 APPEARS TO HAVE A DELTA WITH A RELATIVELY SIMPLE NEUTRAL LINE. STRONG MAGNETIC GRADIENTS ARE BEING REPORTED IN REGIONS 2826 AND 2340. NEW REGION 2843 (N06E77) IS A SIMPLE H TYPE.

ADDITIONS TO 1200Z: SOLAR ACTIVITY HAS BEEN LOW SINCE THE M1/SB FLARE AT 12/2116 U.T. FROM REGIONS 2826.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS WITH A CHANCE FOR A SHORT PERIOD OF HIGH ACTIVITY IF REGION 2826 AGAIN EXHIBITS RAPID CHANGE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE NEXT THREE DAYS. IF REGION 2826 PRODUCES A LARGE ENERGETIC EVENT, DURING THE NEXT 24 HOURS, THEN A MAGNETIC STORM NEAR END OF THE FORECAST PERIOD IS EXPECTED.

III. EVENT PROBABILITIES: 14-16 DEC

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 13 DEC 252

PREDICTED 14-16 DEC 265/270/272

90 DAY MEAN 13 DEC 205

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 DEC 14/13

ESTIMATED AFR/AP 13 DEC 06/12

PREDICTED AFR/AP 14-16 DEC 10/10 12/12 12/15

SOLTERWARN

BT