

HFUS 3 BOU 030600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 034A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 3 FEB 1978

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST EIGHT HOURS WITH TWO M-1 X-RAY EVENTS OCCURRING. THE FIRST EVENT BEGAN NEAR 03/0213Z AND MAXED AT 03/0259Z WITH SEVERAL SECONDARY MAXES IN BETWEEN. A LARGE SUBNORMAL FLARE IN REGION 998 (N28E68) APPEARED TO HAVE BEEN ASSOCIATED WITH THIS EVENT. NO OPTICAL DATA IS AVAILABLE ON THE SECOND EVENT WHICH BEGAN AT 03/0442Z, MAXED AT 03/0449Z. REGIONS 988 (S29W20) AND 991 (N20W02) CONTINUE TO DISPLAY PLAGE FLUCTUATIONS TO NEAR FLARE INTENSITY. THERE IS A NEW C-TYPE GROUP (REGION 1000) NEAR N32W13. OTHER DISK REGIONS HAVE BEEN MOSTLY STABLE.

IB. SOLAR ACTIVITY SHOULD REMAIN GENERALLY MODERATE THROUGH THE REST OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE PAST EIGHT HOURS. UNSETTLED TO OCCASIONALLY ACTIVE CONDITIONS ARE EXPECTED DURING THE REST OF THE ZULU DAY.

III. EVENT PROBABILITIES 03 - 05 FEB

CLASS M 75/75/75

CLASS X 20/20/20

PROTON 05/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 FEB 157

PREDICTED 03 - 05 FEB 156/155/154

90-DAY MEAN 02 FEB 104

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 FEB 15

ESTIMATED AFR/AP 02 FEB 11/10

PREDICTED AFR/AP 03 - 05 FEB 15/15 - 12/12 - 10/10

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HFUS 3 BOU 031500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 034-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 03 FEB 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 8 HOURS AS SEVERAL RADIO AND X-RAY BURST WERE RECORDED. THE LARGEST X-RAY BURST WAS CLASS M-1 WITH MAXIMUM AT 030812 U.T. OPTICAL REPORTS HAVE BEEN TOO LIMITED FOR CORRELATION WITH THIS EVENT. REGION 997 (N20E60) IS NOW A CLASS D TYPE AND APPEARS TO BE GROWING RAPIDLY WHILE ITS PLAGE IS BRIGHT AND FLUCTUATING. REGION 988 (S28W22) IS ALSO BRIGHT AND TRAILER SPOTS CONTINUE TO DEVELOPE. REGION IS PROBABLY A CLASS F AT THIS TIME. REGION 991 (N18W04) HAS NOT CHANGED MUCH. REGION 1000 (N32W17) HAS APPARENTLY STABILIZED IN GROWTH. NO SIGNIFICANT LIMB ACTIVITY NOTED.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD IS UNSETTLED TO ACTIVE AND NO CHANGE EXPECTED.

III. EVENT PROBABILITIES 03 - 05 FEB

CLASS M 75/75/75

CLASS X 20/20/20

PROTON 10/10/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 FEB 157

PREDICTED 03 - 05 FEB 156/155/154

90-DAY MEAN 02 FEB 104

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 FEB 15

ESTIMATED AFR/AP 02 FEB 11/10

PREDICTED AFR/AP 03 - 05 FEB 15/15 - 12/12 - 10/10

SOLTERWARN

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HFUS 1 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 034

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 03 FEB 1978

IA. SOLAR ACTIVITY IS AT A MODERATE LEVEL. SEVERAL REGIONS ON THE DISK ARE FLARE PRODUCERS AND ARE EXPECTED TO MAINTAIN THE ACTIVITY AT MODERATE LEVELS. REGIONS 997 (N21E55), 988 (S27W30), 991 (N18W09) AND 1000 (N32W20) HAVE THE POTENTIAL FOR SUSTAINING, AND EVEN INCREASING, THE CURRENT LEVEL OF ACTIVITY. REGION 997 HAS GROWN TO A MODERATE SIZE CLASS "D" GROUP SINCE YESTERDAY AND IS A BETA MAGNETICALLY. REGION 988 MAY BE UNDERGOING A REFORMATION AS IT HAS DECLINED MAGNETICALLY (FROM GAMMA DELTA TO BETA) WHILE ADDITIONAL SMALL SPOTS ARE DEVELOPING IN THE TRAILING PORTIONS. REGION 991 HAS NOT CHANGED MUCH ALTHOUGH THE NEUTRAL LINE APPEARS TO HAVE SIMPLIFIED SOMEWHAT. THE NEW REGION, 1000, IS NOT GROWING AS FAST AS EARLIER TODAY BUT THE 24 HOUR CHANGE IN ITS PLAGE WAS VERY DRAMATIC. ALL OF THESE REGIONS HAVE PRODUCED FLARES DURING THE PAST 24 HOURS, THE LARGEST BEING AN M2/1B IN REGION 997. A TOTAL OF 4 CLASS M EVENTS HAVE BEEN OBSERVED BUT A LACK OF OPTICAL DATA PREVENTS COMPLETE CORRELATION.

IB. SOLAR ACTIVITY WILL BE MODERATE TO HIGH FOR THE NEXT 24 HOURS.  
II. THE GEOMAGNETIC FIELD IS UNSETTLED. A SLIGHT INCREASE IN THE FIELD IS EXPECTED TO RENDER GENERALLY ACTIVE CONDITIONS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 04 - 06 FEB

CLASS M 85/85/85

CLASS X 20/20/20

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 FEB 169 (SEE NOTE)

PREDICTED 04 - 06 FEB 158/157/156

90-DAY MEAN 03 FEB 105

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 FEB 11

ESTIMATED AFR/AP 03 FEB 10/14

PREDICTED AFR/AP 04 - 06 FEB 15/15 - 17/17 - 20/20

NOTE: 1700 U.T. FLUX PROBABLY FLARE ENHANCED.

SOLTERWARN

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