

HFUS 3 BOU 120600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 042A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 12 FEB 1978

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 8 HOURS. REGINS 1001
(N17W07) PRODUCED A B FLARE (M-1 XRAY) AT 2348Z AND SEVERAL SF FLARES.
THIS REGION STILL RETAINS ITS COMPLEXITY ALTHOUGH THERE IS ONE REPORT
OF SLIGHT PENUMBRAL DECAY. REGION 998 (N25W52) SHOWS CONTINUED DE-
VELOPMENT IN ITS CENTER AND SEEMS CONNECTED BY PLAGE AND NEUTRAL
LINE TO REGION 997 (N19W57). REGION 1006 (S26 W07) SHOWS SOME GROWTH.
THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE FOR THE REST OF TODAY.
REGION 1001 AND REGIONS 998/997 ARE MAINTAINING THEIR POTENTIAL FOR
FLARING ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 8 HOURS.
GENERALLY UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT
48 HOURS.

III. EVENT PROBABILITIES 12-14 FEB
CLASS M 90/90/90
CLASS X 50/50/50
PROTON 50/50/50
PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 FEB 158
PREDICTED 12-14 FEB 154/147/143
90-DAY MEAN 11 FEB 111

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 FEB 07
ESTIMATED AFR/AP 11 FEB 07/06
PREDICTED AFR/AP 12-14 FEB 14/15 - 14/15 - 12/15
SOLTERWARN

BT

HFUS 3 BOU 121500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF 043B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 12 FEBRUARY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. SEVERAL CLASS C
X-RAY BURST HAVE BEEN OBSERVED DURING THE PAST 8 HOURS, THE
LARGEST BEING A C-8 AT 12/1136 U.T.(MAX). NO OPTICAL REPORTS
ARE AVAILABLE FOR THIS EVENT BUT SWF TO 15 MHZ WERE REPORTED.
THE SECOND LARGEST X-RAY BURST WAS A C-5 AT 12/1311 U.T.(MAX).
RAMEY REPORTED A MULTIPLE MAXIMUM, IMPORTANCE 1B FROM REGION
1001 WITH THIS EVENT. REGION 1001 (N17W10) REMAINS LARGE AND
COMPLEX WITH LITTLE STRUCTURAL CHANGE. THE REST OF THE DISK
AND LIMBS ARE ALSO BASICALLY UNCHANGED.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD IS QUIET TO UNSETTLED AND NO SIGNIFICANT
CHANGES ARE EXPECTED.

III. EVENT PROBABILITIES 12-14 FEB

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 FEB 158

PREDICTED 12-14 FEB 154/147/143

90-DAY MEAN 11 FEB 111

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 FEB 07

ESTIMATED AFR/AP 11 FEB 12/12 - 12/12 - 12/12

SOLTERWARN

BT

HFUS 1 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 043

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 FEBRUARY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 1001 (N14W17) IS CLEARLY THE DOMINATE FEATURE ON THE DISK IN BOTH OPTICAL PARAMETERS AND DYNAMIC BEHAVIOR. ITS CHARACTERISTIC BEHAVIORIAL PATTERN APPEARS TO BE A SERIES OF STRUCTURAL CHANGES FOLLOWED BY A CLASS M X-RAY BURST. THE LATEST OF THESE SERIES OCCURRED AT 12/1907U.T.(MAX) WHEN AN IMP B FLARE WAS ACCOMPANIED BY AN M1 X-RAY BURST. THE COMPLEX OF REGIONS 997/998/999 CENTERED NEAR N18W58 IS SLOWLY DECAYING. REGION 1004 (S23E22) IS GROWING SLOWLY IN WHITE LIGHT WHILE THE REMAINING FEATURES ARE STABLE. SMALL SURGE ACTIVITY NEAR NE20 MAY BE PRESAGING THE RETURN OF OLD 986 WHICH IS DUE BACK LATE TOMORROW OR EARLY ON 14 FEB.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD IS QUIET TO OCCASIONALLY UNSETTLED. NO CHANGE IS EXPECTED DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 13-15 FEB

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 FEB 163

PREDICTED 13-15 FEB 160/156/156

90-DAY MEAN 12 FEB 112

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 FEB 04

ESTIMATED AFR/AP 12 FEB 05/05

PREDICTED AFR/AP 13-15 FEB 08/10 - 12/20 - 20/25

SOLTERWARN

BT