

HFUS 3 BOU 150530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 046A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 15 FEBRUARY 1978

IA. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL DURING THE PAST EIGHT
HOURS. THE X-RAY LEVEL CONTINUES AT C CLASS LEVEL. THE PROTON
EVENT CONTINUES; HOWEVER THE GREATER THAN 10 MEV PROTONS HAVE
DECREASED TO ABOUT 70 PROTON/CM²/SEC/STER LEVEL. THE PCA IS
SHOWING ABOUT 1.4 DB ABSORPTION. CORRECTIONS ON THE 2200Z
SDF NUMBER 045 - REGION 1008 (S26W43) IS REGION 1006 AND REGION
1009 (N32E66) IS REGION 1008.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW TO MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETLED DURING THE
PAST 3-4 HOURS. THE SC AT 14/2150Z WOULD INDICATE UNSETLED TO
ACTIVE CONDITIONS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 FEBRUARY - 17 FEBRUARY

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 FEBRUARY 152

PREDICTED 15-17 FEBRUARY 148/144/142

90-DAY MEAN 14 FEBRUARY 113

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 FEBRUARY 07

ESTIMATED AFR/AP 14 FEBRUARY 05/09

PREDICTED AFR/AP 15-17 FEBRUARY 30/30 - 25/30 - 20/25

SOLTERWARN

BT

HFUS 3 BOU 151500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 046-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 15 FEB 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST EIGHT HOURS. A CLASS M-2 AND M-1 X-RAY EVENT HAS BEEN RECORDED. THE FIRST AT 15/0754 UT MAX, WAS PRODUCED BY A ONE-NORMAL OPTICAL FLARE IN REGION 1001 (N 17W51). THE SECOND EVENT AT 1351 UT WAS NOT REPORTED OPTICALLY. BOTH EVENTS CAUSED SHORT WAVE FADES AND SUDDEN PLAGE ANOMALIES. THE DELTA IN REGION 1001 REMAINS VERY STRONG AND THE REGION SHOWS NO SIGN OF DECAY.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE.

II. THE PCA EVENT AND THE GREATER THAN 10 MEV PROTON EVENT HAVE DECLINED THRU THE PERIOD AND SHOULD END WITHIN THE NEXT EIGHT HOURS. THE GEOMAGNETIC FIELD BECAME DISTURBED NEAR 15/0530 UT WITH MINOR TO MAJOR STORM CONDITIONS OBSERVED UNTIL 1200 UT WHEN THE FIELD RETURNED TO UNSETTLED LEVELS. THE FIELD SHOULD BE GENERALLY ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS DURING INTENSE SUBSTORM ACTIVITY.

III. EVENT PROBABILITIES 15 FEBRUARY - 17 FEBRUARY

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 FEBRUARY 152

PREDICTED 15-17 FEBRUARY 148/144/142

90-DAY MEAN 14 FEBRUARY 113

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 FEBRUARY 07

ESTIMATED AFR/AP 14 FEBRUARY 05/09

PREDICTED AFR/AP 15-17 FEBRUARY 30/50 - 25/30 - 20/25

SOLTERWARN

BT

HFUS 1 BOU 152230

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 046

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 FEBRUARY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1001 (N 15W 54) REMAINS THE MOST SIGNIFICANT REGION AND PRODUCED TWO CLASS M FLARES, THE FIRST, AT 15/0755UT WAS A 1IN, M-2 AND LAST WAS A 1IN, M-1 AT 1343UT. A NUMBER OF SUBFLARES HAVE ALSO BEEN OBSERVED FROM REGIONS 1001, 1007 (N30E 48) AND 1008 (N18E 75). LITTLE CHANGE HAS OCCURRED IN 1001 WITH A STRONG DELTA PRESENT. PLEASE NOTE THE CORRECTED LOCATIONS FOR REGIONS 1007 AND 1008.

IB. SOLAR ACTIVITY SHOULD BE MODERATE. REGION 1001 MAY YET PRODUCE A CLASS X FLARE.

II. THE GEOMAGNETIC FIELD WAS AT MINOR TO MAJOR STORM LEVELS 15/0530-1200 U.T. BUT HAS SINCE RETURNED TO AN UNSETTLED STATE. THE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS DURING SUBSTORM ACTIVITY. THE GREATER THAN 10 MEV PROTON EVENT ENDED NEAR 15/1600 U.T., HOWEVER, THE PCA CONTINUES AT .7 DB ABSORPTION.

III. EVENT PROBABILITIES 16 FEBRUARY - 18 FEBRUARY

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 70/70/70

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM. FLUX

OBSERVED 15 FEBRUARY 140

PREDICTED 16-18 FEBRUARY 135/130/130

90-DAY MEAN 15 FEBRUARY 113

V. GEOMAGNETIC A INDICES

08

OBSERVED FREDERICKSBURG 14 FEBRUARY 87

ESTIMATED AFR/AP 15 FEBRUARY 35/50

PREDICTED AFR/AP 16-18 FEBRUARY 20/30 - 18/25 - 12/20

SOLTERWARN

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