

HFUS 3 BOU 140530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 045A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 14 FEBRUARY 1978

IA. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL DURING THE PAST EIGHT HOURS. THE REGION 1001 (N14W33) HAS DEVELOPED A FEW NEW SPOTS BUT NO MAJOR GROWTH HAS BEEN OBSERVED. THE REST OF THE DISK REGIONS APPEAR STABLE AND QUIET. THE LIMBS ARE QUIET. THE GREATER THAN 10 MEV PARTICLE EVENT CONTINUES WITH THE READINGS ABOUT THE 600 PROTON/CM2/SEC/STER/LEVEL.

IB. SOLAR ACTIVITY WILL BE MODERATE DURING THE FORECAST PERIOD. REGION 1001 IS CAPABLE OF FURTHER HIGH ACTIVITY, CLASS M OR CLASS X EVENTS. THE PROTON EVENT IS EXPECTED TO START DECREASING DURING THE NEXT EIGHT HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED. IT IS EXPECTED THE FIELD WILL REMAIN THAT WAY UNTIL ABOUT THE MIDDLE OF THE 15TH WHEN CONDITIONS WILL BECOME ACTIVE.

III. EVENT PROBABILITIES 14 FEBRUARY - 16 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 13 FEBRUARY 155

PREDICTED 14-16 FEBRUARY 151/148/146

90-DAY MEAN 13 FEBRUARY 112

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 FEBRUARY 07

ESTIMATED AFR/AP 13 FEBRUARY 06/06

PREDICTED AFR/AP 14-16 FEBRUARY 12/12 - 30/30 - 25/25

SOLTERWARN

BT

HFUS 3 BOU 141500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 045-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 14 FEB 1978

IA. SOLAR ACTIVITY WAS LOW TO MODERATE DURING THE PAST 8 HOURS.
FLARE ACTIVITY WAS RESTRICTED TO THE CLASS C VARIETY. REGION 1001
(N14W37) IS FLUCTUATING IN BRIGHTNESS AND HAS AN ARCH FILAMENT
SYSTEM. COMPLEX GRADIENTS ARE PRESENT IN THE SOUTHWEST PORTION OF
REGION. REGION 1007 (N31E65) IS ALSO FLUCTUATING IN BRIGHTNESS BUT
SO FAR APPEARS TO BE RELATIVELY SIMPLE IN STRUCTURE. A NEW SPOT
GROUP MAY BE DEVELOPING NEAR S33E20. OTHER DISK FEATURES AND THE
LIMBS ARE STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A MODERATE LEVEL
WITH REGION 1001 BEING THE PRIME SOURCE FOR ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD IS UNSETTLED TO ACTIVE. UNSETTLED TO
ACTIVE CONDITIONS SHOULD CONTINUE THROUGH TODAY WITH ACTIVE TO MINOR
STORM CONDITIONS EXPECTED ON 15 FEB. THE PCA REMAINS IN PROGRESS
WITH 4.4 DB ABSORPTION REPORTED AT 141400 U.T. THE GREATER THAN
10 MEV PARTICLE FLUX IS SLOWLY DECREASING. A MAXIMUM FLUX OF 639
PROTON/CM2/SEC/STER HAS BEEN OBSERVED SO FAR. (140230 U.T.)

III. EVENT PROBABILITIES 14 - 16 FEB

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF IN PROGRESS (SEE PART II)

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 FEB 155

PREDICTED 14 - 16 FEB 151/148/146

90-DAY MEAN 13 FEB 112

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 FEB 07

ESTIMATED AFR/AP 13 FEB 06/06

PREDICTED AFR/AP 14 - 16 FEB 12/12 - 30/30 - 25/25

SOLTERWARN

BT

HFUS 1 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 045

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 FEB 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 1001 (N15W42) HAS SUFFICIENT COMPLEXITY FOR CONTINUED PRODUCTION OF ENERGETIC ACTIVITY. THE LEADING PORTION OF THE REGION IS APPARENTLY THE AREA OF MOST DYNAMIC BEHAVIOR. PLAGE FLUCTUATIONS, POINT BRIGHTENINGS AS WELL AS ARCH FILAMENT SYSTEMS HAVE BEEN REPORTED IN THE SOUTH WEST PORTION OF REGION SINCE YESTERDAY. THE SOUTHWEST AREA IS ALSO THE LOCATION OF THE STRONGEST MAGNETIC GRADIENTS. TWO ADDITIONAL REGIONS HAVE BEEN NUMBERED SINCE YESTERDAY; REGION ~~1006~~ ~~1008~~ (S26W43) AND REGION ~~1009~~ (N32E66). SMALL SURGES ARE OCCURRING NE 05-15 AND NW 25. THE REST OF THE DISK AND LIMBS ARE QUIET.

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

II. THE GEOMAGNETIC FIELD IS QUIET TO UNSETTLED. ACTIVE TO MINOR STORM LEVELS ARE EXPECTED DURING THE NEXT 24 HOURS. A 32 GAMMA SC WAS OBSERVED AT 14/2150 U.T. THE PCA IS AT 6 DB ABSORPTION. THE GREATER THAN 10 MEV PARTICLE FLUX WAS 703 AT 141400Z.

III. EVENT PROBABILITIES 15 - 17 FEB

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 FEB 152

PREDICTED 15 - 17 FEB 148/144/142

90-DAY MEAN 14 FEB 113

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 FEB 07

ESTIMATED AFR/AP 14 FEB 05/07

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

SOLTERWARN

BT