

HFUS 3 BOU 100600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 041A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 10 FEB 1978

IA. SOLAR ACTIVITY THE PAST EIGHT HOURS HAS BEEN HOLDING AT MODERATE LEVELS. REGION 1001 (N14E21) HAS PRODUCED AN M-2 X-RAY (2B OPTICAL) FLARE, MAX 09/2256Z AND AN M-2 X-RAY (1B) AT 10/0024Z. REGION 998 (N25W23) PRODUCED M-1 XRAY EVENT AT 09/2334Z. THE REMAINDER OF THE REGIONS AND DISK AND LIMB APPEAR RELATIVELY STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO ACTIVE THE NEXT 8 HOURS. THE MAJORITY OF ACTIVITY WILL COME FROM REGION 1001 WITH REGIONS 995, 997, 998 ALSO ACTIVE. CLASS X XRAYs AND PROTON EVENTS ARE VERY POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST EIGHT HOURS AND IS EXPECTED TO BE QUIET TO UNSETTLED THE NEXT EIGHT HOURS. A FLARE INDUCED MAGSTORM IS POSSIBLE BY 12 FEB.

III. EVENT PROBABILITIES 10-12 FEB

CLASS M 90/90/90

CLASS X 40/40/50

PROTON 40/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEB 160

PREDICTED 10-12 FEB 158/157/155

90-DAY MEAN 09 FEB 110

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 FEB 07

ESTIMATED AFR/AP 09 FEB 12/15

PREDICTED AFR/AP 10-12 FEB 09/13 - 10/14 - 15/20

SOLTERWARM

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HFUS 3 BOU 101500 /
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 0419
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 10 FEBRUARY 1978
IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 18 HOURS. REGION 1001,
(N15E15) PRODUCED A 2B/M2 AT 09/2256Z (MAX) AND A 1B/M1 AT 10/0024Z
(MAX). REGION 1001 REMAINS COMPLEX WITH A VERY CONVOLUTED NEUTRAL
LINE. THE 997/998/999 COMPLEX HAS DIMINISHED IN STRUCTURAL INTENSITY
BUT STILL RETAINS A COMMON COMPLEX NEUTRAL LINE.
IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED THIS
ZULU DAY. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT
24 HOURS.
III. EVENT PROBABILITIES 10-12 FEB
CLASS M 90/90/90
CLASS X 40/40/50
PROTON 40/50/50
PCAF YELLOW
IV. OTTAWA 10.7 CM FLUX
OBSERVED 09 FEB 160
PREDICTED 10-12 FEB 158/157/155
90-DAY MEAN 09 FEB 110
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 08 FEB 07
ESTIMATED AFR/AP 09 FEB 12/15
PREDICTED AFR/AP 10-12 FEB 09/13 - 10/14 - 15/20
SOLTERWARN
BT

HFUS 180U 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 041

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 FEBRUARY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1001 (N15E10) HAS
PRODUCED A IB/M1 AT 10/0024Z (MAX) AND A IN/M1 AT 10/1229Z (MAX).
A IB/M4 PARALLEL RIBBON FLARE OCCURRED AT 10/2117Z (X-RAY MAX)
ALONG THE COMMON NEUTRAL LINE OF REGION 997 AND 999. SWF AND
MINOR CENTIMETRIC BURST ACCOMPANIED THESE EVENTS. THE AREAL
EXTENT OF THE SUNSPOT GROUP FOR REGION 1001 HAS INCREASED TO 1400
MILLIONTHS OF THE HEMISPHERE. A COMPLEX NEUTRAL LINE STILL EXISTS
IN REGION 1001. A COMMON NEUTRAL LINE WEAVES THROUGH THE 997/998/999
COMPLEX. THE NEUTRAL LINE REMAINS MODERATELY COMPLEX IN REGIONS 998
(N20W34) AND 999 (N18W29) BUT THE H-ALPHA STRUCTURE INDICATES A
LESSENING OF THE MAGNETIC GRADIENTS. A MODERATE NOISE STORM EXISTS
AT METER WAVE LENGTHS.

IB. THE SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED. THE FIELD
IS EXPECTED TO BE GENERALLY UNSETTLED 11 FEB AND UNSETTLED TO ACTIVE
12-13 FEBRUARY. THERE IS A FAIR CHANCE FOR A FLARE INDUCED MAGSTORM.

III. EVENT PROBABILITIES 11-13 FEB

CLASS M 90/90/90

CLASS X 40/50/50

PROTON 50/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 FEB 153

PREDICTED 11-13 FEB 155/155/155

90-DAY MEAN 10 FEB 110

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 FEB 14

ESTIMATED AFR/AP 10 FEB 07/06

PREDICTED AFR/AP 11-13 FEB 10/12 - 14/19 - 14/17

SOLTERWARM

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