

HFUS 3 BOU 250600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 056A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 25 FEB 1978

IA. SOLAR ACTIVITY HAS SHOWN A TENDENCY TOWARD INCREASING DURING THE
PAST 8 HOURS. REGION 1011 (N22W11) PRODUCED AN M-4 X-RAY BURST AT
250314 U.T. (MAX) AND PALEHUA OBSERVED A CORRESPONDING 2B FLARE.
REGION 1011 IS BRIGHT, FLUCTUATING AND HAS AN ARCH FILAMENT SYSTEM.
SMALL SPOTS CONTINUE TO INCREASE IN NUMBER IN THIS REGION. THE OTHER
DISK FEATURES AND THE LIMBS ARE APPARENTLY QUIET.

IB. CONTINUED DEVELOPMENT IN REGION 1011 IS EXPECTED TO YIELD ADDITIONAL
ENERGETIC ACTIVITY DURING THE COMING 24 HOUR PERIOD.

II. THE GEOMAGNETIC FIELD IS QUIET. UNSETTLED CONDITIONS WITH PERIODS
OF ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 25-27 FEB

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 FEB 139

PREDICTED 25 - 27 FEB 142/145/148

90-DAY MEAN 24 FEB 117

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 FEB 04

ESTIMATED AFR/AP 24 FEB 04/04

PREDICTED AFR/AP 25-27 FEB 15/20 - 20/25 - 15/20

SOLTERWARN

BT

HXUS BOU 25 15 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 056-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 25 FEB 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 17 HOURS.
AN M4 X-RAY BURST WAS OBSERVED WITH MAXIMUM AT 25/0314Z AND A C8
BURST WITH MAXIMUM AT 25/0812Z. A 2B FLARE WAS OBSERVED IN REGION
1011 (N22W17) CONCURRENT WITH THE M4 BURST. NO OPTICAL REPORTS WERE
RECEIVED DURING THE 0812Z EVENT, BUT OBSERVATIONS AT SEVERAL
OBSERVATORIES WERE HAMPERED BY WEATHER CONDITIONS.

IB. CONTINUED DEVELOPMENT IN REGION 1011 IS EXPECTED TO PRODUCE
FURTHER FLARE ACTIVITY DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 17
HOURS. THE FIELD IS EXPECTED TO BECOME ACTIVE DURING THE FORECAST
PERIOD WITH THE RETURN OF RECURRENT STRUCTURE.

III. EVENT PROBABILITIES 25 - 27 FEB

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 FEB 139

PREDICTED 25 - 27 FEB 142/145/148

90-DAY MEAN 24 FEB 117

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 FEB 04

ESTIMATED AFR/AP 24 FEB 04/04

PREDICTED AFR/AP 25 - 27 FEB 10/15 - 20/25 - 15/20

SOLTERWARN

BT

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 056

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 FEB 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
REGION 1011 (N21W21), WHICH NOW APPEARS TO BE TWO REGIONS
CROWDING EACH OTHER, PRODUCED HALF A DOZEN FLARES DURING THIS PERIOD.
TWO OF THESE FLARES WERE MODERATELY ENERGETIC; AN M4/2B WITH A
MAXIMUM AT 25/0314Z AND AN M4/1B WITH A MAXIMUM AT 25/1453Z. NUMEROUS
BRIEF SHORT WAVE FADES WERE REPORTED AFTER THE 1453Z EVENT. 10 CM
RADIO BURSTS OF 110 F.U. AND 160 F.U., RESPECTIVELY, WERE REPORTED
WITH THESE X-RAY FLARES. OTHER REGIONS AND THE LIMBS REMAINED
RELATIVELY QUIET.

IB. CONTINUED GROWTH IN THE REGION 1011 COMPLEX IS EXPECTED TO PRO-
DUCE FURTHER MODERATELY ENERGETIC FLARE ACTIVITY. THE COMPLEX,
HOWEVER, DOES NOT APPEAR CAPABLE OF PRODUCING MAJOR FLARES AT THIS
TIME.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS.
HOWEVER, A SUDDEN COMMENCEMENT WAS OBSERVED AT 25/1928Z, HERALDING
THE ARRIVAL OF RECURRENT MAGNETIC STORM ACTIVITY. THE FIELD IS EX-
PECTED TO BE ACTIVE FOR THE NEXT 24 HOURS WITH ACTIVITY AT MINOR
STORM LEVELS DURING LOCAL NIGHT TIME HOURS.

III. EVENT PROBABILITIES 26 - 28 FEB

CLASS M 60/60/60

CLASSX 10/15/20

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 FEB 142

PREDICTED 26 - 28 FEB 144/147/149

90-DAY MEAN 25 FEB 117

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 FEB 023

ESTIMATED AFR/AP 25 FEB 10/08

PREDICTED AFR/AP 26 - 28 FEB 28/32 - 21/24 - 16/18

SOLTERWARN

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