

FUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 153

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 02 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100
TO 02/2100Z: SOLAR ACTIVITY REMAINS MODERATE. REGION 4201
(S10E29) PRODUCED AN IMPULSIVE M1/1B FLARE AT 1527Z MAXIMUM.
THIS FLARE BEGAN AS A SUBFAINT AT 1453Z IN THE NORTHEAST
PORTION OF THE REGION, BUT BECAME EXPLOSIVE AFTER 1520Z. THE
FLARE WAS LOCATED NEAR A SMALL ISOLATED POLE OF TRAILER
POLARITY MAGNETIC FIELDS. MINOR DISCRETE FREQUENCY RADIO BURSTS
WERE RECORDED WITH THIS EVENT. REGION 4201 HAS DISPLAYED SLOW
SPOT FRAGMENTATION DURING THE PAST 12 HOURS, ESPECIALLY IN THE
INTERNAL LARGE PENUMBRA. LATEST INDICATIONS SHOW THAT THE DELTA
VISIBLE IN THIS AREA YESTERDAY HAS NEARLY DISAPPEARED. THE
NEUTRAL LINE FILAMENT REMAINS KINKED AND ACTIVE. SLOW GROWTH
ALONG WITH MINOR ACTIVITY HAS BEEN OBSERVED IN REGIONS 4196
(S11W19) AND 4199 (S12W29). NEW REGION 4203 (S18E32) WAS
NUMBERED TODAY AS A SIMPLE A-TYPE SPOT GROUP SOUTH OF REGION
4201.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
MODERATE WITH REGION 4201 CAPABLE OF AT LEAST ONE M-CLASS XRAY
EVENT A DAY. REGION

4171 (S28, CAR 296), ACTIVE LAST ROTATION, HAS RETURNED TO THE
VISIBLE DISK AS A SPOTLESS PLAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO
REMAIN AT UNSETTLED CONDITIONS WITH ONLY BRIEF SHORT PERIODS AT
ACTIVE LEVELS THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 03 JUN-05 JUN

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JUN 133

PREDICTED 03 JUN-05 JUN 134/135/137

90 DAY MEAN 02 JUN 124

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 JUN 014/016

ESTIMATED AFR/AP 02 JUN 010/015

PREDICTED AFR/AP 03 JUN-05 JUN 010/015-010/015-010/015

SOLTERWARN

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