

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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