

HFUS 1 BOU 071408

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 038A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 07 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200UT TO 07/1200UT:

SOLAR ACTIVITY HAS CONTINUED MODERATE SINCE 06/1200UT. REGION
2926 (S14W47) HAS PRODUCED TWO M-CLASS X-RAY FLARES, AN M1/SN
AT 06/1247 UT AND AN M2/1B AT 06/2127 UT. THE SECOND FLARE WAS
ACCOMPANIED BY NUMEROUS SMALL RADIO BURSTS. THIS REGION HAS
CONTINUED GROWING AND MAY NOW POSSESS A DELTA MAGNETIC CONFIG-
URATION. THERE HAVE BEEN SEVERAL SUBFLARES OCCURRING MOSTLY IN
REGIONS 2926 AND 2930 (N12E46), THE LARGEST WAS A C7/SB AT
07/0334UT FROM REGION 2926, AGAIN ACCOMPANIED BY NUMEROUS
RADIO BURSTS. NO NEW REGIONS WERE NUMBERED IN THE PAST 24 HOURS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE DUE PRIMARILY
TO GROWTH IN REGION 2926. SLIGHT GROWTH HAS ALSO BEEN OBSERVED
IN REGION 2930 WHICH, IF CONTINUED, MAY CAUSE INCREASED MODERATE
ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM LEVELS FOR THE
PAST 24 HOURS AND IS EXPECTED TO BECOME MILDLY UNSETTLED FOR
THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 08 FEB - 10 FEB

CLASS M 35/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 FEB 194

ESTIMATED 07 FEB 190

PREDICTED 08-10 FEB 187/183/180

90 DAY MEAN 06 FEB 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 FEB 26 AP 06 FEB 37

ESTIMATED AFR 06 FEB 31 AFR/AP 07 FEB 14/20

PREDICTED AFR 08-10 FEB 10/14 08/08 08/08

SOLTERWARM

BT

HFUS 3 BOU 072142

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 038B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 07 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

07/1200UT TO 07/2200UT:

SOLAR ACTIVITY CONTINUES MODERATE. REGION 2926 (S15W52) PRODUCED AN IMPULSIVE M2/SB AT 1344Z MAXIMUM. AN M3 AT 1835Z MAXIMUM WAS FINALLY ASSOCIATED TO REGION 2930 (N11E38) AS A IN FLARE BY KIT PEAK. THE OBSERVATORIES HAVE BEEN HAMPERED BY PROBLEMS AND WEATHER THUS LIMITING OPTICAL INFORMATION. REGION 2930 HAS INCREASED IN SIZE AND COMPLEXITY DURING THE PAST 10 HOURS WITH A DELTA CONFIGURATION NOW EVIDENT IN THE TRAILER PORTION.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE WITH M-CLASS FLARES LIKELY FROM BOTH REGIONS 2926 AND 2930.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS GRADUALLY QUIETED FROM YESTERDAY'S ACTIVITY WITH LOW UNSETTLED CONDITIONS OBSERVED IN THE PAST 10 HOURS. MILDLY UNSETTLED CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 08 FEBRUARY - 10 FEBRUARY

CLASS M 35/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 07 FEB 186

PREDICTED 08-10 FEB 182/178/176

90 DAY MEAN 07 FEB 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 FEBRUARY 31/37

ESTIMATED AFR/AP 07 FEBRUARY 18/20

PREDICTED AFR/AP 08-10 FEBRUARY 10/14 08/08 08/08

SOLTERWARN

BT