

HFUS, BOU 061404

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 065A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 06 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY

FROM 05/1200UT TO 06/1200UT:

SOLAR ACTIVITY HAS CONTINUED AT THE THRESHOLD BETWEEN LOW AND MODERATE. A CLASS M2/2N FLARE OCCURRED AT 04/2126Z IN REGION 2962 (N05E09) A SMALL AND OTHERWISE QUIESCENT AREA. AN M1/SUB-FLARE OCCURRED IN REGION 2954 (S16W74) AT 0236Z. THIS FORMERLY COMPLEX REGION IS STEADILY DECAYING AND SIMPLIFYING. REGION 2964 (S04E24) NOW IS THE MOST SIGNIFICANT REGION WITH ITS CLASS EKO SPOT GROUP AND A COMPLEX AREA OF TRAILER SUNSPOTS. MINOR GROWTH IS REPORTED HERE. THE FREQUENCY OF XRAY EVENTS HAS DECLINED SHARPLY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR INDICES ARE EXPECTED TO DECLINE RAPIDLY WITH THE WEST LIMB PASSAGES OF REGIONS 2954 AND 2958. LONGITUDES ROTATING OVER EAST LIMB ARE THE LEAST ACTIVE ON THE SUN AT THIS TIME.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE MAJOR MAGNETIC STORM THAT COMMENCED 05/0535Z SUBSIDED BY THE END OF THE 5TH. CONDITIONS HAVE BEEN QUIET FOR THE PAST NINE HOURS. THE STORM HAS BEEN TENTATIVELY ASSOCIATED WITH A LONG-LASTING M2/2N FLARE 0610Z-0747Z-0840Z ON 03 MARCH FROM REGION 2954. THIS EVENT PRODUCED LONG-LASTING WIDE-BAND TYPE IV RADIO EMISSION.

III. EVENT PROBABILITIES: 07-09 MARCH

CLASS M 60/50/40

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 MAR 231

ESTIMATED 06 MAR 220

PREDICTED 07-09 MAR 210/200/190

90 DAY MEAN 05 MAR 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 MAR 13 AP 05 MAR 55

ESTIMATED AFR 05 MAR 52 AFR/AP 06 MAR 12/20

PREDICTED AFR/AP 07-09 MAR 12/12 08/08 08/08

SOLTERWARN

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HFUS 3 BOU 062120  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 065B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200UT 06 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
06/1200UT TO 06/2200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 10 HOURS. AN  
IMPRESSIVE ERUPTIVE PROMINENCE (TO 0.43R AT SE02) WAS SEEN  
BETWEEN 1615 AND 1640UT. DURING THIS EVENT 1-3 ANGSTROM X-RAYS  
ROSE FROM C1 TO C3 LEVELS. THIS MAY HERALD THE ARRIVAL OF  
ANOTHER ACTIVE REGION AT THE EAST LIMB.

IB. SOLAR ACTIVITY SHOULD BE MODERATE WITH ISOLATED M-CLASS  
EVENTS POSSIBLE FROM REGIONS 2964 (S04E19), 2954 (S1SW82) AND  
2958 (S1IW58).

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO MILDLY ACTIVE FOR  
THE PAST 10 HOURS. ACTIVITY IS EXPECTED TO GRADUALLY DIMINISH  
DURING THE NEXT 48 HOURS.

III. EVENT PROBABILITIES: 07 MARCH - 09 MARCH 1981

CLASS M 60/50/40

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 MARCH 216

PREDICTED 07-09 MARCH 210/200/190

90 DAY MEAN 06 MARCH 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 MARCH 57/55

ESTIMATED AFR/AP 06 MARCH 13/15

PREDICTED AFR/AP 07-09 MARCH 12/12 08/08 03/08

SOLTERWARN

BT