

HFUS 1 BOU 041400
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 063A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 04 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

03/1200UT TO 04/1200UT:

SOLAR ACTIVITY HAS DECREASED TO THE LOW END OF THE MODERATE CATEGORY WITH ONLY TWO CLASS M1 EVENTS IN THE PAST 24 HOURS. ONLY THE EVENT AT 04/1016Z WAS OBSERVED OPTICALLY, OCCURRING IN REGION 2954 (S17W49). THIS REGION IS SLOWLY DECAYING BUT RETAINS A DELTA MAGNETIC CONFIGURATION AND AN ACTIVE ASSOCIATED FILAMENT. REGION 2958 (S12W24) IS SIMILAR IN STRUCTURE AND DECAY BUT LACKS THE ACTIVE ASPECT OF ITS ASSOCIATED PLAGE. SLOW GROWTH CONTINUES IN REGION 2959 (N19W75) AND IN THE LARGER REGION 2964 (S03E64). THREE SMALL REGIONS HAVE ROTATED INTO VIEW NEAR THE NE LIMB (REGIONS 2965, 2966 AND 2967). THERE ARE THIRTEEN SPOT GROUPS ON THE DISK TODAY. ANALYSIS IS RESTRICTED BY POOR WEATHER.

IB. SOLAR ACTIVITY FORECAST:

SMALL CLASS M EVENTS ARE EXPECTED WITH DECREASING FREQUENCY DURING THE NEXT THREE DAYS. CLASS X EVENTS ARE NOT EXPECTED UNLESS ADDITIONAL SPOTS FORM IN REGION 2954 OR 2958.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD BECAME GRADUALLY MORE UNSETTLED IN THE PAST 12 HOURS, WITH THE MOST SIGNIFICANT SUBSTORM NEAR 0900Z. CONDITIONS ARE EXPECTED TO BE INTERMITTENTLY UNSETTLED TO SLIGHTLY ACTIVE FOR THE NEXT TWO DAYS.

III. EVENT PROBABILITIES: 05-07 MARCH

CLASS M 70/70/60

CLASS X 20/15/15

PROTON 20/15/15

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 MAR 248

ESTIMATED 04 MAR 250

PREDICTED 05-07 MAR 245/240/235

90 DAY MEAN 03 MAR 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 MAR 24 AP 03 MAR 06

ESTIMATED AFR 03 MAR 05 AFR/AP 04 MAR 15/18

PREDICTED AFR/AP 05-07 MAR 18/25 18/15 12/10

SOLTERWARN

BT

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 063B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 04 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200UT TO 04/2200UT:

SOLAR ACTIVITY CONTINUES AT THE MODERATE LEVEL. REGIONS 2954
(S17W54) PRODUCED AN M1/1N FLARE AT 1727 UT MAXIMUM WHICH WAS
UNIMPRESSIVE IN THE RADIO FREQUENCIES. NEW REGION 2967 (N08W27)
HAS GROWN RAPIDLY DURING THE PAST 10 HOURS WHILE PRODUCING SMALL
SUBFLARES. REGIONS 2958 (S12E31) AND 2955 (S09W54) HAVE ALSO
PRODUCED SUBFLARES.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT THE MODERATE LEVEL,
ALTHOUGH A GENERAL DECREASE OF ALL PARAMETERS IS EXPECTED
THROUGH THE PERIOD. WITH REGION 2954 APPROACHING WEST LIMB,
THE 10CM RADIO FLUX SHOULD GRADUALLY DECREASE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE PAST
10 HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED THROUGH
THE NEXT 24 HOURS.

III. EVENT PROBABILITIES: 05 MARCH - 07 MARCH

CLASS M 70/70/60

CLASS X 20/15/15

PROTON 20/15/15

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 MARCH 255

PREDICTED 05-07 MARCH 245/240/235

90 DAY MEAN 04 MARCH 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MARCH 07/06

ESTIMATED AFR/AP 04 MARCH 12/13

PREDICTED AFR/AP 05-07 MARCH 18/25 18/15 12/10

SOLTERWARN

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