

HFUS-1 BOU 231400
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 054A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 23 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
22/1200UT TO 23/1200UT:

Moderate solar activity continues from both the northwest and south east limbs. A loop prominence system was observed in region 2941 (N18W LIMB) from 23/0630-0650UT. Active surging is also reported from regions 2941, 2943 (N11W LIMB) and 2947 (N10W83). New region 2955 (S08E77) produced a C6/bright surge to .17 RAD II from 23/0420-0455UT. Another region appears to be further east of 2955 at S12E LIMB. Region 2951 (N12W28) continues a slow growth and has produced several subflares. It is still the largest region on the disk. An M4 XRAY event at 23/0554UT occurred when all of the above regions were active. It was most likely from region 2941 or 2955. New region 2956 (N17E78), with a small spot group, was numbered.

IB. SOLAR ACTIVITY FORECAST:

Solar activity is expected to decline as regions 2941, 2943 and 2947 rotate beyond west limb. Class M events are still possible from region 2951 and increasingly from region 2955.

II. GEOPHYSICAL SUMMARY AND FORECAST:

The geomagnetic field remained mostly quiet with a short unsettled period from 22/2100 to 23/0300Z. Unsettled conditions are expected late on the 23rd and 24th due to a coronal hole which crossed central meridian on 21 FEB.

III. EVENT PROBABILITIES: 24-26 FEB

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 FEB 204

ESTIMATED 23 FEB 195

PREDICTED 24-26 FEB 198/202/206

90 DAY MEAN 22 FEB 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 FEB 06 AP 22 FEB 08

ESTIMATED AFR 22 FEB 03 AFR/AP 23 FEB 07/08

PREDICTED AFR/AP 24-26 FEB 15/15 08/08 08/12

SOLIERWARN

BT

HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SD F NUMBER 054B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0200UT 23 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
23/1200UT TO 23/2200UT:

THERE WAS CONTINUED GROWTH IN REGION 2951 (N12W35) BUT NO MAJOR
FLARES OBSERVED THIS PERIOD. THE 10 CM FLUX JUMPED SIGNIFICANTLY
FROM YESTERDAY.

IB. SOLAR ACTIVITY FORECAST:

MODERATE ACTIVITY IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS UNSETLED TO ACTIVE DURING THIS PERIOD.
THE BOULDER K-INDEX FROM 1500-1800UT WAS A FOUR.

III. EVENT PROBABILITIES: 24-26 FEB

CLASS M 60/70/70

CLASS X 05/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 FEB 228

PREDICTED 24-26 FEB 230/232/234

90 DAY MEAN 23 FEB 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 FEB 07/08

ESTIMATED AFR/AP 23 FEB 14/12

PREDICTED AFR/AP 24-26 FEB 15/15 08/08 08/09

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