

HRUS 1 BOU 22/1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF NUMBER 081A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 22 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
21/1200UT TO 22/1200UT:

SOLAR ACTIVITY WAS AT MODERATE LEVELS THIS PERIOD. TWO M-CLASS
EVENTS WERE RECORDED, NO OPTICAL CORRELATION, AN M2 AT 21/1301UT
AND A M3 AT 21/1614UT. THE EVENT AT 21/1614UT HAD 359 FLUX UNITS
AT 10-M ALONG WITH A TYPE IV IMPORTANCE 2 SWEEP. REGIONS 2993
(N14E39) AND 2984 (N09W35) ARE STILL THE MOST ACTIVE ON THE VISIBLE
DISK. AN ERUPTIVE PROMINENCE AT SE19 WAS OBSERVED OUT TO .57 RADII
BETWEEN 22/0658UT TO 22/0755UT. NEW REGIONS ARE 2997(S07E01), SIMPLE
P TYPE, 2998 (S28E42) A C TYPE, 2999 (S45E63) H TYPE AND REGION 3000
(S18E81) WHICH PRODUCED A SN FLARE AT 22/0626UT.

IP. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD.
REGIONS 2993 AND 2984 ARE CAPABLE OF PRODUCING M-CLASS ACTIVITY AND
WITH THE NEW REGIONS IN THE EAST AND WITH OLD REGION 2958, WHICH
PRODUCED 3 X-CLASS EVENTS LAST ROTATION, DUE TO RETURN AN ISOLATED
X-CLASS EVENT IS EXPECTED DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO OCCASIONALLY UNSETTLED. THE
GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST
PERIOD EXCEPT FOR A SHORT PERIOD OF ACTIVE CONDITIONS ON 24
MARCH AS THE EFFECTS OF A SMALL CORONAL HOLE ARE REALIZED AT EARTH.

III. EVENT PROBABILITIES: 23 - 25 MARCH

CLASS M 60/70/70

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 21 MAR 183

ESTIMATED 22 MAR 188

PREDICTED 23-25 MAR 193/205/215

90 DAY MEAN 21 MAR 198

V. GEOMAGNETIC INDICES

OBSERVED AFR 20 MAR 08 - AR 21 MAR 07

ESTIMATED AFR 21 MAR 06 AFR/AP 22 MAR 07/10

PREDICTED AFR/AP 23-25 MAR 11/20 18/25 12/25

SOLTERWARN

BT

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KBOU

HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 081B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 22 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
22/1200UT TO 22/2200UT:

SOLAR ACTIVITY WAS AT A LOW LEVEL UNTIL 1942Z WHEN REGION 2984
(N09W91) PRODUCED AN M1/1B. PRIOR TO THAT TIME THE MOST
SIGNIFICANT EVENT WAS A C5/1B AT 1430Z. NO MAJOR CHANGES
HAVE OCCURRED IN THE VISIBLE FEATURES ALTHOUGH ANOTHER REGION
ROTATED OVER THE NE LIMB AS A SIMPLE H TYPE GROUP AND IS NUMBERED
3001 (N21E67).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE AT A GENERALLY MODERATE LEVELS FOR
THE DURATION OF THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET. ACTIVE CONDITIONS ARE
EXPECTED BY 24 MARCH AS THE FIELD REFLECTS THE RECURRENT
PATTERN AND RECENT FLARE ACTIVITY.

III. EVENT PROBABILITIES: 23 MARCH - 25 MARCH

CLASS M 60/70/70

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 MARCH 184

PREDICTED 23-25 MARCH 190/196/198

90 DAY MEAN 22 MARCH 197

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 MARCH 07/07

ESTIMATED AFR/AP 22 MARCH 07/10

PREDICTED AFR/AP 23-25 MARCH 11/20 18/25 12/25

SOLTERWARN

BT