

HFUS 1 BOU 041300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 124A

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

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200UT TO 04/1200UT:

SOLAR ACTIVITY HAD BEEN LOW UNTIL REGION 3080 (N16E14) PRODUCED
A M9/1B FLARE AT 0835Z. MODERATE SHORT WAVE FADE THROUGH 22MHZ
AND A 410 FU BURST AT 2695 MHZ OCCURRED WITH THIS FLARE. REGION
3081 (N05E60) PRODUCED A LONG-LIVED C6/1N AT 0607Z (X-RAY MAX).
REGION 3079 (N07E10) PRODUCED A SB FLARE IN CONJUNCTION WITH THE
FLARE IN REGION 3081. ADDITIONALLY, REGION 3081 PRODUCED A SB
FLARE SIMULTANEOUSLY WITH THE FLARE IN REGION 3080. THIS ACTIVITY
SUGGESTS A CORONAL CONNECTION BETWEEN THESE THREE REGIONS. BOTH
REGIONS 3079 AND 3080 HAVE SUFFICIENT COMPLEXITY TO PRODUCE SIG-
NIFICANT FLARES. SURGING HAS BEEN OCCURRING ON THE NE LIMB WHERE
OLD REGION 3035 IS DUE BACK AT THE END OF THE ZULU DAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. THESE CONDITIONS
ARE EXPECTED TO PREVAIL THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 05-07 MAY

CLASS M 70/80/90

CLASS X 05/10/10

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 MAY 205

ESTIMATED 04 MAY 215

PREDICTED 05-07 MAY 228/240/250

90 DAY MEAN 03 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 MAY 07 AP 03 MAY 09

ESTIMATED AFR 03 MAY 08 AFR/AP 04 MAY 07/10

PREDICTED AFR/AP 05-07 MAY 10/08 10/07 10/10

SOLTERWARN

BT

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 124B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 04 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200UT
TO 042200UT:

SOLAR ACTIVITY HAS BEEN GENERALLY LOW SINCE 1200Z. REGION
3080 (N16E06) RETAINS ITS DELTA MAGNETIC CONFIGURATION BUT HAS
ONLY MANAGED TO PRODUCE TWO SUBFLARES IN THE PAST TEN HOURS.
REGION 3079 (N07E03) CONTINUES TO DEVELOP WHILE MAINTAINING
A WELL ORGANIZED STRUCTURE. THE DISK CONTINUES IN AN EVOLUTIONARY
STATE AS SMALL SPOTS QUICKLY DEVELOP AND DIE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY MODERATE. THE RETURN
OF OLD 3035 AND 3038 AS DYNAMIC REGIONS IS STILL ANTICIPATED BUT
AS YET THEY ARE NOT VISIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AND IS NOT
EXPECTED TO CHANGE MUCH.

III. EVENT PROBABILITIES 05-07 MAY

CLASS M 70/80/90

CLASS X 05/10/10

PROTON 01/05/05

CAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MAY 218

PREDICTED 05-07 MAY 228/240/250

90-DAY MEAN 04 MAY 211

v. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MAY 06/09

ESTIMATED AFR/AP 04 MAY 07/10

PREDICTED AFR/AP 05-07 MAY 10/08 - 10/07 - 10/10

SOLTERWARN

BT