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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 185A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 04 JULY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200Z TO 04/1200Z:

SOLAR ACTIVITY WAS AT MODERATE LEVELS DURING THIS PERIOD.
REGION 3188 (N 11W 38), A SOMEWHAT SMALL REGION, PRODUCED THE
ONLY REAL FIREWORKS OF THE DAY, AN M1/1B AT 03/1912UT. REGION
3180 (S 17W 42) SHOWED SUBFLARE ACTIVITY, BUT IT IS BEGIN-
NING TO DECAY.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE, BUT FEWER M-CLASS
EVENTS ARE EXPECTED AS REGION 3180 CONTINUES TO DECAY AND
3188 ROTATES BEHIND THE WEST LIMB. ALMOST ALL THE ACTIVE
REGIONS ON THE DISK ARE IN THE WESTERN HEMISPHERE NOW, WHICH
SUGGESTS A CONTINUED DECLINE IN ACTIVITY AND SOLAR FLUX.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS MOSTLY UNSETTLED, BECOMING QUIETER
NEAR THE END OF THE PERIOD. FLARE-RELATED AND CORONAL HOLE
MAGNETIC ACTIVITY IS EXPECTED OVER THE NEXT 3 DAYS, BUT NOTHING
HIGHER THAN ACTIVE LEVELS.

III. EVENT PROBABILITIES: 05-07 JULY

CLASS M 80/70/60

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 JULY 157

ESTIMATED 04 JULY 160

PREDICTED 05-07 JULY 155/155/153

90 DAY MEAN 03 JULY 190

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 JULY 28 AP 03 JULY 11

ESTIMATED AFR 03 JULY 05 AFR/AP 04 JULY 08/10

PREDICTED AFR/AP 05-07 JULY 15/18 17/20 15/15

SOLTER/WARN

BT

HELIUS 3, RCU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 185B

I. JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 0200Z 4 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 04/2100Z:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 12 HOURS. THE FEW XRAY EVENTS HAVE BEEN NO STRONGER THAN C2. REGION 3180 (S16W44) HAS DECAYED SIGNIFICANTLY WITH THE DISSOLUTION OF THE SPOTS IN THE DELTA CONFIGURATION. REGION 3191 (S09W48) IS DEVELOPING ON THE NORTHERN BORDER OF REGION 3180 BUT WITH NO SIGNIFICANT INCREASE IN THE AREA'S COMPLEXITY. SMALL REGIONS HAVE EMERGED AT S26E11 (REGION 3192) AND S04E19 (REGION 3193). ACTIVE PROMINENCE AND SURGES MARK THE RETURN OF REGION 3157 AT S30E90. A FILAMENT DISAPPEARED AT N30W25 SOMETIME BEFORE 1600Z.

IB. SOLAR ACTIVITY FORECAST:

CONTINUED MINOR GROWTH OF REGIONS ON THE DISK AND THE RETURN OF REGION 3157 WILL COMPENSATE FOR THE LOSS OF REGIONS AT WEST LIMB. ONE ADDITIONAL CLASS M EVENT IS EXPECTED IN REGION 3180 AS EMERGING FLUX ACTIVATES THE FILAMENT EMBEDDED IN THE REGION.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN PREDOMINANTLY QUIET WITH SHORT UNSETLED PERIODS. NO IMPORTANT CHANGE IS EXPECTED FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES: 05 - 07 JULY

CLASS M 60/50/40

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 4 JULY 160

PREDICTED 5 - 7 JULY 162/164/155

90 DAY MEAN 4 JULY 190

V. GEOMAGNETIC A-F INDICES

OBSERVED AFR/AP 3 JULY 09/11

ESTIMATED AFR/AP 4 JULY 08/11

PREDICTED AFR/AP 5 - 7 JULY 10/18/08/20 08/15

SOLAR TERM WARN

BT