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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 217A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 05 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
3837 (N10E65) PRODUCED AN M1/1B FLARE WITH MINOR CM BURSTS AT
05/0347Z. A BRIGHT MOUND PROMINENCE AT NE23 AND ACTIVE SURGING
AT NE06 WERE ALSO VISIBLE AT THE TIME OF THIS FLARE. 3837 HAS
COMPLETED ROTATING ONTO THE DISK IN A LESS COMPACT FORM THAN
LAST ROTATION BUT STILL EXHIBITS A VERY LARGE LONGITUDINAL
EXTENT AND HIGH FIELD STRENGTHS. REGION 3838 (N09E23) IS
GROWING RAPIDLY AND IS NOW A CLASS D GROUP. MOST LIKELY AS A
RESULT OF THIS RAPID EMERGENCE, A LARGE NEARBY FILAMENT LOCATED
BETWEEN S10E44 AND N23E13 ERUPTED SLOWLY BETWEEN 04/1500-1620Z.
REGION 3829 (S12W24) IS STABILIZING.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
MODERATE. REGION 3837 SHOULD PRODUCE ONE TO SEVERAL CLASS M
FLARES/DAY WITH AN INFREQUENT CLASS X FLARE POSSIBLE. TWO
PREVIOUSLY ACTIVE REGIONS ARE DUE TO RETURN TO THE EAST LIMB ON
07 AUG WHICH SHOULD CONTRIBUTE TO THE FREQUENCY OF CLASS M
FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO SLIGHTLY ACTIVE. UNSETTLED CONDITIONS SHOULD
PREDOMINATE FOR 06 AUG BECOMING ACTIVE ON 07 AUG IN RESPONSE TO
A SMALL EQUATORIAL CORONAL HOLE. NEAR MINOR STORM LEVELS SHOULD
BE EXPERIENCED ON 08 AUG AS A RESULT OF YESTERDAY'S FILAMENT
DISRUPTION.

III. EVENT PROBABILITIES 06 AUG-08 AUG

CLASS M 75/80/80

CLASS X 15/15/15

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 AUG 163

ESTIMATED 05 AUG 180

PREDICTED 06 AUG-08 AUG 138/200/206

90 DAY MEAN 04 AUG 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 AUG 025 AP 04 AUG 016

ESTIMATED AFR 04 AUG 014 AFR/AP 05 AUG 017/020

PREDICTED AFR/AP 06 AUG-08 AUG 012/015-017/020-025/025

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 217B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST NINE HOURS. FAIRLY FREQUENT SUBFLARE ACTIVITY HAS BEEN OBSERVED FROM A VARIETY OF REGIONS, BUT X-RAY OUTPUT FROM THESE FLARES HAVE CONSISTED OF ONLY LOW-LEVEL C-CLASS EVENTS. THE LARGEST OF THESE OCCURRED AT 1752Z, A C3/SB IN REGION 3838 (N10E15). THIS REGION, WHICH GREW RAPIDLY AT THE LOCATION OF THE LARGE DISAPPEARING FILAMENT, HAS NOW STABILIZED AS A D-TYPE SPOT GROUP. REGION 3837 (N10E56), WHICH HAS ALSO PRODUCED SOME SUBFLARES DURING THE PERIOD, HAS NOW BEEN DIVIDED INTO TWO GROUPS. REGION 3839 (N10E70) IS THE SMALL BIPOLE STRUCTURE IMMEDIATELY FOLLOWING THE 3837 COMPLEX. THIS REGION CAN BE DISTINCTLY SEPARATED IN WHITE LIGHT AS A D-TYPE GROUP. THIS TRAILER PORTION WAS THE ACTUAL SOURCE OF THIS MORNING'S M1/1B AT 0347Z. REGION 3829 (S12W29) WAS THE ONLY OTHER DISK REGION TO PRODUCE ANY ACTIVITY. THIS REGION HAS ALSO STABILIZED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN BASICALLY MODERATE DUE TO REGIONS 3837/3839 POTENTIAL. X-CLASS PROBABILITY FROM THIS COMPLEX REMAINS LOW WITH ONLY ISOLATED X-CLASS EVENTS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS REMAINED ACTIVE DURING THE PERIOD. UNSETTLED CONDITIONS ARE FORECAST DURING THE NEXT 24 HOURS FOLLOWED BY ACTIVE LEVELS THROUGH THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 06 AUG-08 AUG

CLASS M 75/80/80

CLASS X 15/15/15

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 AUG 176

PREDICTED 06 AUG-08 AUG 188/200/206

90 DAY MEAN 05 AUG 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 AUG 016/016

ESTIMATED AFR/AP 05 AUG 017/020

PREDICTED AFR/AP 06 AUG-08 AUG 012/015-017/020-025/025

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