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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/B 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 YESTERDAYS 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 188/200/206  
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 BIPOLAR 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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