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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 231A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 19 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 19/1200Z: SOLAR ACTIVITY REMAINS LOW WITH ONLY MINOR C-CLASS X-RAY EVENTS PRIMARILY FROM REGIONS 3856 (S11W53) AND 3867 (S12E59). THE LARGEST OF THESE WAS A C3 AT 18/1911Z MAXIMUM WITH NO OPTICAL CORRELATION. THE LARGEST OPTICAL EVENT WAS FROM 3867, A C5/1B AT 18/1501Z MAXIMUM, BUT WITH NO RADIO RESPONSE. REGION 3856 DEVELOPED A WEAK MAGNETIC DELTA IN ITS INTERIOR YESTERDAY, BUT SINCE THEN HAS SHOWN EVIDENCE OF SLOW DECAY, ESPECIALLY IN ITS TRAILER PORTION. REGION 3867 HAS NOT EXHIBITED ANY SIGNIFICANT GROWTH/DECAY TRENDS, BUT IS APPARENTLY MAINTAINING SOME COMPLEXITY WITH ALMOST CONTINUOUS FLARE BRIGHT COMPACT PLAGE. ITS WHITE LIGHT STRUCTURE DOES NOT SUPPORT THIS CONDITION, HOWEVER, WITH A FAIRLY SIMPLE SPREAD-OUT E-TYPE SPOT GROUP. MINOR REGIONS 3862 (N25E19) AND 3864 (N15W67) CONTINUE TO DISPLAY SLOW GROWTH, BUT HAVE BEEN INACTIVE DURING THE PERIOD. NO EAST LIMB ACTIVITY HAS BEEN OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. ALTHOUGH REGION 3856 HAS YET TO PRODUCE AN M-CLASS EVENT, ITS CURRENT SIZE AND COMPLEXITY INDICATE THE POSSIBILITY OF AN ISOLATED MODERATE EVENT PRIOR TO ITS WEST LIMB TRANSIT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. ACTIVE LEVELS ARE EXPECTED LATER TODAY IN RESPONSE TO A RECURRENT CORONAL HOLE. THESE ACTIVE CONDITIONS ARE FORECAST THROUGH THE REMAINDER OF THE PERIOD. A SMALL FILAMENT DISAPPEARED AT PROXIMATELY 18/21Z FROM S13E27. THIS ERUPTION MAY AFFECT THE EARTH'S MAGNETIC FIELD ON THE LAST DAY OF THE FORECAST PERIOD.

III. EVENT P

OBABILITIES 20 AUG-22 AUG

CLASS M 25/25/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 AUG 164

ESTIMATED 19 AUG 160

PREDICTED 20 AUG-22 AUG 155/145/130

90 DAY MEAN 18 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 17 AUG 016 AP 18 AUG 017

ESTIMATED AFR 18 AUG 014 AFR/AP 19 AUG 015/017

PREDICTED AFR/AP 20 AUG-22 AUG 020/020-020/015-015/015

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HFUS 3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 231B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 19 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
19/1200Z TO 19/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGIONS 3856  
(S11W60), 3867 (S13E54), AND 3858 (S04W04) HAVE ALL HAD C CLASS  
X-RAY FLARES THIS PERIOD. REGION 3856 HAS A BETA-GAMMA-DELTA  
MAGNETIC CLASSIFICATION AND IS THE REGION WITH THE MOST  
POTENTIAL FOR SIGNIFICANT FLARE ACTIVITY. REGION 3867 IS THE  
ONLY OTHER REGION WITH SIGNIFICANT FLARE POTENTIAL. NO NEW  
REGIONS HAVE BEEN NUMBERED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW  
THROUGHOUT THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED TO ACTIVE FOR THE PAST 24 HOURS AND SHOULD  
REMAIN ACTIVE FOR THE NEXT 48 HOURS BEFORE RETURNING TO  
UNSETTLED LEVELS.

III. EVENT PROBABILITIES 20 AUG-22 AUG

CLASS M 25/25/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 AUG 156

PREDICTED 20 AUG-22 AUG 150/140/130

90 DAY MEAN 19 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 AUG 016/017

ESTIMATED AFR/AP 19 AUG 011/015

PREDICTED AFR/AP 20 AUG-22 AUG 020/020-020/030-015/020

SOLTERWARN

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