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HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 223A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 11 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 11/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE LARGEST EVENT WAS A C9/SB AT 1136Z FROM REGION 3839 (N11W04). A 260 FU BURST AT 2695 MHZ AND A STRONG SHORT WAVE FADE THROUGH 18 MHZ ACCOMPANIED THIS FLARE. BOTH REGIONS 3839 AND 3837 (N10W19) HAVE BEGUN A SLOW DECAY.

HOWEVER, THEY STILL RETAIN A CONVOLUTED, COMPLEX NEUTRAL LINE. REGION 3844 (S08E02) HAS GROWN AND IS CONTRIBUTING TO THE SUBFLARE ACTIVITY; AS ARE REGIONS 3843 (S08E25) AND 3845 (N16E33). OTHER DISK REGIONS ARE STABLE.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE BUT WITH AN INCREASING TEMPORAL SPACING BETWEEN ENERGETIC FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVEL. A GEOMAGNETIC STORM IS EXPECTED ON 12 AUGUST DUE TO THE CORONAL TRANSIENT ON 09 AUGUST. FOLLOWING THE STORM, THE FIELD IS EXPECTED TO REMAIN ACTIVE THROUGH THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 12 AUG-14 AUG

CLASS M 90/80/70

CLASS X 15/10/05

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 AUG 204

ESTIMATED 11 AUG 205

PREDICTED 12 AUG-14 AUG 202/200/195

90 DAY MEAN 10 AUG 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 AUG 031 AP 10 AUG 033

ESTIMATED AFR 10 AUG 028 AFR/AP 11 AUG 018/025

PREDICTED AFR/AP 12 AUG-14 AUG 045/050-022/025-018/020

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HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 223B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
11/1200Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY  
SUBFLARES AND NO SIGNIFICANT XRAY EMISSION. REGIONS  
3837(N10W28) AND 3839(N12W11) STILL RETAIN MAGNETIC COMPLEXITY  
BUT BOTH HAVE DROPPED FROM BGD TO BG MAGNETIC CLASS. REGION  
3844(S09W06) HAS DOUBLED IN AREA IN WHITE LIGHT DURING THE LAST  
24 HOURS AND IS NOW A DSO CLASS GROUP. THREE NEW AREAS  
3854(N50W03), 3855(S22E21) AND 3856(S13E51) WERE NUMBERED  
TODAY. THESE ARE SMALL CLASS A OR B GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
RETURN TO MODERATE LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE DURING THE PERIOD. A MAJOR MAGNETIC STORM IS  
EXPECTED ON 12 AUGUST DUE TO THE CORONAL TRANSIENT ON 9 AUG.

III. EVENT PROBABILITIES 12 AUG-14 AUG

CLASS M 90/80/70

CLASS X 15/10/05

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 AUG 202

PREDICTED 12 AUG-14 AUG 197/195/190

90 DAY MEAN 11 AUG 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 AUG 026/033

ESTIMATED AFR/AP 11 AUG 020/030

PREDICTED AFR/AP 12 AUG-14 AUG 045/050-022/025-018/020

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