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HFUS 1 BOU 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 221A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 09/1200Z: SOLAR ACTIVITY HAS REMAINED MODERATE. REGION 3839 (N12E21) PRODUCED A M1/1B AT 1546Z AND A M2/2B AT 0637Z. ONLY MINOR CENTIMETRIC BURSTS ACCOMPANIED THESE FLARES. ALSO, REGION 3845 (N16E59) PRODUCED A LONG-LIVED M1/2B WITH X-RAY MAX AT 1655Z. BOTH REGIONS 3837 (N10E07) AND 3839 CONTAIN DELTA CONFIGURATIONS; HOWEVER, REGION 3839 IS THE MORE ACTIVE OF THE TWO REGIONS AND CONTAINS MUCH STRONGER GRADIENTS. THE TWO CONTIGUOUS REGIONS FORM A LARGE COMPLEX IN BOTH WHITE LIGHT AND H-ALPHA. REGIONS 3838 (N10W33), 3840 (S15W32), AND 3845 ARE EXPECTED TO CONTRIBUTE TO THE CLASS C FLARE ACTIVITY. REGION 3829 (S11W77) APPEARS TO BE DECAYING AS IT APPROACHES WEST LIMB.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. AN ISOLATED CLASS X EVENT FROM THE 3837/3839 COMPLEX IS POSSIBLE DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAD BEEN UNSETLED BUT BECAME ACTIVE AFTER 0600Z. THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETLED, BUT INTERSPERSED WITH SHORT PERIODS OF ACTIVE CONDITIONS, DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 AUG-12 AUG

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 AUG 214

ESTIMATED 09 AUG 214

PREDICTED 10 AUG-12 AUG 210/205/200

90 DAY MEAN 08 AUG 163

V. GEOMAGNETIC A\* INDICES

OBSERVED AFR 07 AUG 075 AP 08 AUG 009

ESTIMATED AFR 08 AUG 008 APR/AP 09 AUG 015/020

PREDICTED AFR/AP 10 AUG-12 AUG 014/020-012/015-012/015

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NNN@SV

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 221B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW. SMALL C CLASS XRAY, SUB CLASS OPTICAL EVENTS WERE OBSERVED. REGIONS CONTRIBUTING TO THIS ACTIVITY WERE 3837(N11W01), 3839(N11E14), 3841(S11W21), AND 3843(S07E44). REGION 3840(S16W39) HAS DECLINED SIGNIFICANTLY. REGIONS 3837 AND 3839 ARE STILL MAGNETICALLY COMPLEX WITH SIGNIFICANT GRADIENTS AND DELTAS REPORTED. REGION 3846(N21W18) WAS NUMBERED TODAY. THIS WAS A COMPACT AREA OF INTENSE PLAGE. IT FLARED TO 1/F BEGINNING AT 1746Z APPARENTLY ASSOCIATED WITH A FILAMENT NORTH OF REGION 3837 WHICH DISAPPEARED TODAY BEGINNING NEAR THAT TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT MODERATE LEVELS. THE 3837/3839 COMPLEX OF REGIONS APPEARS CAPABLE OF MAJOR ACTIVITY WITH A SMALL CHANCE OF X LEVEL EVENTS OCCURRING.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS CONTINUED INTERMITTENTLY ACTIVE. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN ACTIVE FOR A FEW MORE HOURS WITH UNSETLED TO NEAR ACTIVE CONDITIONS LIKELY THROUGH MOST OF THE FORECAST PERIOD. LATE IN THE FORECAST PERIOD A RETURN TO MAJOR STORM LEVELS IS POSSIBLE DUE TO THE DISAPPEARING FILAMENT NEAR CENTRAL MERIDIAN AFTER 09/1700Z.

III. EVENT PROBABILITIES 10 AUG-12 AUG

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 AUG 207

PREDICTED 10 AUG-12 AUG 200/195/190

90 DAY MEAN 09 AUG 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 AUG 007/009

ESTIMATED AFR/AP 09 AUG 020/020

PREDICTED AFR/AP 10 AUG-12 AUG 014/020-012/015-012/015

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