

KBOU
HFUS-1 BOU 311300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 243A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 31 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 31/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. ONE M CLASS X-RAY FLARE OCCURED THIS PERIOD, A M/4. THIS FLARE PROBABLY ORIGINATED AT NE 13, WHERE SURGING AND LOOPS HAVE BEEN OBSERVED. REGION 3880 (N11E21), A C50 SPOT GROUP, PRODUCED A C9/B FLARE WITH ASSOCIATED PARALLEL RIBBONS. REGION 3877 (N22W86), AN EHO SPOT GROUP, PRODUCED A C4/SF FLARE. REGION 3882 (S04E47) HAS SHOWN MINOR GROWTH AND ENHANCED PLAGE. ALL OTHER REGIONS ON THE DISK APPEAR STABLE AT THIS TIME. NEW REGIONS NUMBERED SINCE THE LAST PRIMARY FORECAST ARE REGIONS 3884 (N08W58) AND 3885 (N11E68) WITH AXX, HAX SPOT CLASSIFICATIONS, RESPECTIVELY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MODERATE. THE REGION AT NE13 SHOULD BE THE PRIMARY SOURCE OF THE MODERATE ACTIVITY. REGION 3880 MIGHT ALSO BE A CONTRIBUTOR TO THIS ACTIVITY. NONE OF THE OTHER REGIONS APPEAR TO BE CAPABLE OF SIGNIFICANT FLARE PRODUCTION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD D HAS BEEN ACTIVE AND SHOULD REMAIN ACTIVE THROUGHOUT THE FORECAST PERIOD. A CORONAL HOLE MAY CONTRIBUTE INCREASED ACTIVITY THE LAST DAY OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 SEP-03 SEP

CLASS M 50/60/60

CLASS X 05/10/10

PROTON 01/03 /05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 AUG 171

ESTIMATED 31 AUG 175

PREDICTED 01 SEP-03 SEP 178/183/188

90 DAY MEAN 30 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 AUG 026 AP 30 AUG 031

ESTIMATED AFR 30 AUG 023 AFR/AP 31 AUG 015/020

PREDICTED AFR/AP 01 SEP-03 SEP 015/020-015/020-019/020

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HFUS 3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 243B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 31 AUGUST 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200Z TO 31/2100Z: SOLAR ACTIVITY HAS CONTINUED AT A MODERATE LEVEL THIS PERIOD DUE TO A M1.9 EVENT AT 1722 UT, NO OPTICAL. HOWEVER, FAINT LOOPS ARE VISIBLE OVER REGION 3886 (N14E84) WHICH IS THE RETURN OF OLD 3839. THE REST OF THE DISK IS LITTLE CHANGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE AS REGION 3886 CONTINUES TO ROTATE ONTO THE DISK. AN ISOLATED X-CLASS EVENT IS POSSIBLE DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO REMAIN ACTIVE FOR THIS FORECAST PERIOD. HOWEVER, THE EFFECTS OF A SMALL CORONAL HOLE ON THE THIRD DAY MAY CAUSE SHORT PERIODS OF MINOR STORM CONDITIONS.

III. EVENT PROBABILITIES 01 SEPTEMBER - 03 SEPTEMBER

CLASS M 80/80/90

CLASS X 10/20/30

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 AUGUST 177

PREDICTED 01-03 SEPTEMBER 183/190/195

90-DAY MEAN 31 AUGUST 169

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 AUGUST 24/31

ESTIMATED AFR/AP 31 AUGUST 13/21

PREDICTED AFR/AP 01-03 SEPTEMBER 15/20 - 15/20 - 19/20

SOLTERWARN

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