

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 246A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 3886 (N14E47) PRODUCED A C9/1N FLARE AND 4 OTHER SMALLER C-CLASS X-RAY EVENTS, BUT IT DOES NOT NOW APPEAR CAPABLE OF A MAJOR FLARE. ITS MAGNETIC INVERSION LINE HAS SIMPLIFIED AND GROWTH HAS SLOWED. REGION 3883 (S21E06) HAS CONTINUED RAPID GROWTH AND IS PRESENTLY EXHIBITING ACTIVE DARK FILAMENTS, AN ARCH FILAMENT SYSTEM, AND OCCASIONAL DARK SURGES. HOWEVER, ONLY TWO SURFAINT FLARES HAVE BEEN OBSERVED IN 3883 DURING THIS REPORTING PERIOD. A BIPOLAR GROUP JUST NORTH OF 3880 (N12W20) WHICH APPEARED YESTERDAY HAS CONTINUED TO DEVELOP. THIS GROUP EMERGED IN THE PLAGE AREA ORIGINALLY ASSOCIATED WITH 3880 AND IT IS NOT YET CLEAR WHETHER TO ASSIGN IT A SEPARATE DESIGNATION. REGION 3887 (N06W42) HAS GROWN FROM A B- TO A D-TYPE GROUP WITH ASSOCIATED EMERGING FLUX BUT IT HAS NOT YET BEGUN TO FLARE. SURGING AT NW06 IS MARKING THE WEST LIMB PASSAGE OF REGION 3881 (N09W91).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. SIGNIFICANT FLARES ARE LIKELY FROM REGION 3886 AND POSSIBLE FROM REGION 3883.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED FOR THE PAST 24 HOURS BUT IT HAS BECOME INCREASINGLY DISTURBED IN RECENT HOURS. ISEE-3 SPACECRAFT DATA INDICATES THAT THE ORIGIN OF THIS ACTIVITY IS NOT YET AN EXPECTED CORONAL HOLE DISTURBANCE, BUT IS INSTEAD FROM LOW-SPEED SOLAR WIND WHICH IS CARRYING A STRONGLY SOUTHWARD INTERPLANETARY MAGNETIC FIELD. GEOMAGNETIC ACTIVITY IS EXPECTED TO INCREASE TOWARD MINOR STORM LEVELS TOMORROW AND THEN TO DECLINE TO UNSETTLED CONDITIONS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 SEP-06 SEP

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 SEP 169

ESTIMATED 03 SEP 170

PREDICTED 04 SEP-06 SEP 175/180/180

90 DAY MEAN 02 SEP 169

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 SEP 009 AP 02 SEP 018

ESTIMATED AFR 02 SEP 016 AFR/AP 03 SEP 024/025

PREDICTED AFR/AP 04 SEP-06 SEP 029/030-019/025-012/015

SOLTERWARN

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HFUS 3-BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 246B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW SINCE 03/1200Z. THE VISIBLE DISK REGIONS APPEAR DORMANT WITH THE EXCEPTION OF 3886 (N14E40) WHICH DISPLAYED BRIGHT PLAGE SEGMENTS MOST OF THE MORNING AND 3883 (S20W01) WHICH IS GROWING IN WHITE LIGHT. THREE ADDITIONAL REGIONS WERE NUMBERED TODAY: 3888 (N27W12) 3889 (S29E66) AND 3890 (N07E78). SUBFLARES FROM RANDOM SOURCES ARE BEING REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. ISOLATED M EVENTS ARE POSSIBLE BUT THE NORM IS EXPECTED TO BE OCCASIONAL C CLASS ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH A BRIEF PERIOD OF MINOR STORM CONDITIONS. GENERALLY ACTIVE CONDITIONS SHOULD PREVAIL FOR THE NEXT 24 TO 48 HOURS.

III. EVENT PROBABILITIES 04 SEP-05 SEP

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 SEP 173

PREDICTED 04 SEP-06 SEP 179/184/188

90 DAY MEAN 03 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 SEP 015/018

ESTIMATED AFR/AP 03 SEP 022/025

PREDICTED AFR/AP 04 SEP-06 SEP 029/025-019/020-012/015

SOLTERWARN

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