

HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 254A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 11 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 11/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW FOR THE PAST 24 HOURS. REGION 3885 (N09W79) PRODUCED A C3/1F FLARE WITH LARGE MATERIAL EJECTION OVER THE WEST LIMB AT 11/0529Z. REGION 3895 (S10W00) IS SLOWLY DECAYING AND HAS PRODUCED NO OBSERVED FLARE ACTIVITY. NEW REGION 3902 (S21E07) EMERGED AS A SMALL CLASS B GROUP, HAS PRODUCED SEVERAL SUBFLARES, AND CONTINUES A MODERATE GROWTH TREND. REGION 3901 (S12E59) HAS ROTATED INTO VIEW AS A D GROUP WITH BRIGHT PLAGE AND HAS GENERATED SEVERAL SUBFLARES. THIS REGION APPEARS TO BE IN A GROWTH STAGE. A SMALL FILAMENT NEAR S35E50 FADED SOMETIME AFTER 10/1500Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY LOW FOR THE NEXT THREE DAYS WITH INFREQUENT CLASS M FLARES BEING OBSERVED. 3901 IS A NEW GROWING REGION WHICH IS EMERGING NEAR WHERE A SMALL C CLASS GROUP WAS VISIBLE LAST ROTATION. SHOULD GROWTH CONTINUE, CLASS M FLARES COULD BECOME MORE FREQUENT. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB UNTIL 15 SEP.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. ACTIVE CONDITIONS ARE EXPECTED FOR 12-13 SEP IN RESPONSE TO FLARES/FILAMENT DISRUPTIONS OBSERVED IN THE RECENT PAST. THE MOST DISTURBED PERIODS SHOULD BE EXPERIENCED ON 12 SEP. GENERALLY UNSETLED CONDITIONS ARE FORECAST FOR 14 SEP.

III. EVENT PROBABILITIES 12 SEP-14 SEP.

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEP 163

ESTIMATED 11 SEP 157

PREDICTED 12 SEP-14 SEP 154/152/148

90 DAY MEAN 10 SEP 169

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 SEP 040 AP 10 SEP 011

ESTIMATED AFR 10 SEP 011 AFR/AP 11 SEP 009/012

PREDICTED AFR/AP 12 SEP-14 SEP 020/025-015/020-012/015

SOLTERWARN

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HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 254B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGIONS 3901(S12E52) AND 3902(S21E01) WERE THE SOURCES OF ALL ACTIVITY REPORTED THIS PERIOD. REGION 3902 PRODUCED A C1/SB FLARE AT 11/1527Z. REMAINING ACTIVITY WAS LIMITED TO SUB-NORMAL OR LESS OPTICAL, C1 OR LESS XRAY EVENTS. REGION 3902 HAS GROWN RAPIDLY TO D CLASS OF AREA 120 MILLIONTHS. REGION 3901 HAS ALSO GROWN BUT APPEARS TO BE STABILIZING. A FILAMENT TO THE NORTH OF REGION 3902 DISAPPEARED DURING THE SUB-BRIGHT FLARE IN THE REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW, WITH MOST ACTIVITY EXPECTED TO BE FROM REGIONS 3901 AND 3902.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. AN INCREASE IN ACTIVITY IS EXPECTED TO OCCUR WITHIN THE NEXT FEW HOURS. ACTIVE TO MINOR STORM LEVELS SHOULD OCCUR FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 12 SEP-14 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 SEP 156

PREDICTED 12 SEP-14 SEP 154/152/148

90 DAY MEAN 11 SEP 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 SEP 011/011

ESTIMATED AFR/AP 11 SEP 012/012

PREDICTED AFR/AP 12 SEP-14 SEP 020/025-015/020-012/015

SOLTERWARN

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