

HFUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 257A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY HAS BEEN LOW. FLARE ACTIVITY HAS BEEN REPORTED IN SEVERAL REGIONS BUT IT HAS ALL BEEN SUBFLARE CLASS. INTEREST REMAINS FOCUSED ON THE EAST LIMB WHERE REGION 3908 (N19E80) CONTINUES TO ROTATE ONTO THE DISK. SURGING IS ACCOMPANYING THIS REGION ONTO THE DISK WITH THE IMPLICATION THAT ADDITIONAL SPOTS ARE YET BEHIND THE LIMB. LITTLE OR NO CHANGE HAS OCCURRED IN THE OTHER VISIBLE REGIONS. IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD START TO SLOWLY INCREASE AS REGION 3908 GETS FULLY ON THE DISK AND OLD REGION 3870 MAKES ITS RETURN ON 15 SEPT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. GENERALLY UNSETTLED TO ACTIVE CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 15 SEP-17 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 SEP 149

ESTIMATED 14 SEP 148

PREDICTED 15 SEP-17 SEP 147/147/150

90 DAY MEAN 13 SEP 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 SEP 013 AP 13 SEP 015

ESTIMATED AFR 13 SEP 017 AFR/AP 14 SEP 013/016

PREDICTED AFR/AP 15 SEP-17 SEP 013/020-013/015-010/020

SOLTERWARN

BT

HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 257B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY REMAINS LOW. REGION 3908 (N18E73) PRODUCED THE LARGEST EVENT DURING THE NINE HOUR PERIOD, A C2/SN AT 2022Z MAXIMUM. THIS REGION HAS BEEN THE MOST DYNAMIC OF THE DISK REGIONS DURING THE PERIOD, DISPLAYING PLAGE FLUCTUATIONS AND SURGING AT THE LIMB BEHIND THE MAIN PLAGE AREA. REGION 3901 (S13E14) IS THE MOST MAGNETICALLY COMPLEX OF THE DISK REGIONS WITH A SMALL DELTA CONFIGURATION LOCATED IN ITS CENTRAL PORTION, BUT THIS HAS FAILED TO PRODUCE FLARE ACTIVITY DURING THE PERIOD. THE REMAINING DISK REGIONS HAVE SHOWN LITTLE CHANGE. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. OLD ACTIVE REGION 3870 (N15, CARRINGTON 129) IS DUE TO APPEAR AT EAST LIMB BY MID-DAY ON THE 15TH, AND COULD INCREASE ACTIVITY SLIGHTLY AFTER THAT TIME.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PERIOD. NO CHANGE IS EXPECTED DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 15 SEP-17 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 SEP 146

PREDICTED 15 SEP-17 SEP 146/146/147

90 DAY MEAN 14 SEP 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 SEP 014/015

ESTIMATED AFR/AP 14 SEP 012/016

PREDICTED AFR/AP 15 SEP-17 SEP 013/014-013/015-010/015

SOLTERWARN

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