

HFUS 1 BOU 131300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 225A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 13 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/1200Z TO 13/1200Z: SOLAR ACTIVITY CONTINUED LOW DURING THE PAST 24 HOURS. FREQUENT SUBFLARE ACTIVITY, PRIMARILY FROM REGIONS 3937 (N09W48) AND 3839 (N12W31), IS BEING OBSERVED. BOTH OF THESE REGIONS ARE DECAYING AND ALTHOUGH BOTH ARE BETA GAMMA TYPES MAGNETICALLY, THEIR CONTINUED DECAY MAKES IT UNLIKELY EITHER WILL PRODUCE SIGNIFICANT ACTIVITY BEFORE WEST LIMB PASSAGE. HOWEVER, REGION 3843 (S08W03) HAS A DELTA CONFIGURATION, IS RESTRUCTURING AND MAYBE A CANDIDATE FOR INCREASED ACTIVITY. REGION 3856 (S12E31) IS GROWING IN WHITE LIGHT AND ITS PLAGE IS ENHANCED. CONTINUED GROWTH IN THIS REGION IS EXPECTED. OTHER DISK CHANGES HAVE BEEN SMALL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW BUT M CLASS ACTIVITY IS STILL A LIKELY POSSIBILITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. NO SIGNIFICANT CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 14 AUG-16 AUG

CLASS M 50/40/35

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 AUG 191

FESTIMATED 13 AUG 180

PREDICTED 14 AUG-16 AUG 170/160/150

90 DAY MEAN 12 AUG 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 AUG 018 AP 12 AUG 025

FESTIMATED AFR 12 AUG 025 AFR/AP 13 AUG 015/018

PREDICTED AFR/AP 14 AUG-16 AUG 015/020-015/020-015/020

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HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 225B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3837 (N10W51) PRODUCED TWO SMALL FLARES, A C3/SB AT 1348Z AND A C4/SB AT 1540Z, AND ALTHOUGH IT APPEARS LESS COMPLEX IT HAS NOT DECLINED IN AREA SINCE YESTERDAY. REGIONS 3839 (N12W39) AND 3843 (S07W07) ARE DECLINING IN COMPLEXITY AND HAVE BEEN INACTIVE. REGION 3856 (S13E27) HAS GROWN SIGNIFICANTLY SINCE YESTERDAY FROM A SUNSPOT GROUP OF CLASS/AREA B/10 TO D/120 WITH A BRIGHT PLAGE AND ARCH FILAMENT SYSTEM. NO ACTIVITY IS REPORTED IN THIS REGION BUT MINOR FLARES ARE EXPECTED IF IT CONTINUES TO DEVELOP RAPIDLY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY EXPECTED TO BE LOW DURING THE FORECAST PERIOD AS REGIONS 3837, 3839 AND 3843 CONTINUE TO DECAY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 14 AUG-16 AUG

CLASS M 50/40/35

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 AUG 181

PREDICTED 14 AUG-16 AUG 170/160/150

90 DAY MEAN 13 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 AUG 016/025

ESTIMATED AFR/AP 13 AUG 015/018

PREDICTED AFR/AP 14 AUG-16 AUG 015/020-015/020-015/020

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