

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-18 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

ESTIMATED 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

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

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

SOLTERWARN

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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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