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HFXS 1 BOU 211300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 233A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 21 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200Z TO 21/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3870(N15E58) HAS DEVELOPED ADDITIONAL SPOTS IN RECENT HOURS WHILE BOTH REGIONS 3862(N26W08) AND 3867(S13E34) HAVE DECLINED AND ALL THREE REGIONS HAVE EXHIBITED ARCH FILAMENTS. REGION 3856(S12W78) APPEARS STABLE, AND MAGNETICALLY SIMPLE AS IT APPROACHES WEST LIMB. REGION 3858(S05W24) PRODUCED A C2/1N FLARE AT 21/0013Z. REMAINING ACTIVITY WAS LIMITED TO SMALL C CLASS SUBFLARES. OLD REGION 3829 IS DUE TO RETURN LATE ON 23 AUG.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE FORECAST PERIOD. OCCASIONAL M FLARES ARE POSSIBLE BUT NOT LIKELY DURING THE DECAY PHASE OF REGIONS 3862 AND 3867.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED WITH A TREND TOWARD MORE DISTURBED LEVELS DURING THE EARLY HOURS OF 21 AUG. THE MAGNETIC FIELD SHOULD BE ACTIVE DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 AUG-24 AUG

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUG 141

ESTIMATED 21 AUG 130

PREDICTED 22 AUG-24 AUG 120/115/110

90 DAY MEAN 20 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 AUG 012 AP 20 AUG 013

ESTIMATED AFR 20 AUG 013 AFR/AP 21 AUG 013/015

PREDICTED AFR/AP 22 AUG-24 AUG 023/015-025/015-0 20/015

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HXUS BOU 211300

PREDM 02022 02023 02024

PREDX 00122 00123 00124

PREDP 00122 00123 00124

PCAFI 00122

TENCM 12022 11523 11024

AFRED 02322 02523 02024

AFAPF 01522 01523 01524

KKK 44343 32233 34332

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HFUS 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 233B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/1200Z TO 21/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD WITH ONLY SMALL C CLASS EVENTS BEING OBSERVED. THE LARGEST EVENT WAS A C3/SN, AT 1333UT, FROM REGION 3870 (N15E54), RAPID GROWTH AND ARCH FILAMENTS ARE BEING REPORTED. NEW REGION TODAY IS 3871 (N15E41) A B-TYPE GROUP. ALL OTHER REGIONS APPEAR STABLE OR LITTLE CHANGED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO CONTINUE AT ACTIVE LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 AUG-24 AUG

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 AUG 136

PREDICTED 22 AUG-24 AUG 130/120/110

90 DAY MEAN 21 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 AUG 014/013

PREDICTED AFR/AP 21 AUG 017/015

SOLTERWARN

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