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HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 239A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 27 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z TO 27/1200Z: SOLAR ACTIVITY INCREASED TO MODERATE WITH THE OCCURRENCE OF FIVE M1 TO M2 FLARES IN REGION 3870(N14W21) AT 26/2303Z, 0143Z, 0329Z, 0553Z, AND 0918Z. THE GROWTH OF STRONG SPOTS IN THE INTERIOR OF THIS LARGE EKI SPOT GROUP HAS FORMED A DELTA CONFIGURATION OVER WHICH ALL THESE FLARES HAVE OCCURRED. GROWTH CONTINUES IN REGION 3877(N22W33) BUT THE CONFIGURATION OF THIS DAO GROUP REMAINS SIMPLE. SOME INTERACTION WITH REGION 3870 IS EXPECTED DURING THE NEXT TWO DAYS. RAPID GROWTH HAS BEGUN IN REGION 3880(N10E74) WITH FLUX EMERGING NEAR A SMALL SYMMETRIC SPOT. NEW REGION 3879(S13E69) IS A SMALL COMPACT PLAGE WITH A SINGLE SPOT. AN ERUPTING PROMINENCE AT 0123Z FROM S15E90 AND BRIGHT PLAGE NEAR N12E90 PROMISE TWO ADDITIONAL ACTIVE REGIONS TOMORROW.

IB. SOLAR ACTIVITY FORECAST: CLASS M EVENTS ARE EXPECTED TO CONTINUE FROM REGION 3870 AND BEGIN IN REGION 3877. RETURNING REGIONS MAY ADD ADDITIONAL CLASS M EVENTS BY THE SECOND AND THIRD DAYS OF THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD QUIETED TO UNSETTLED CONDITIONS AFTER A SUBSTORM AT THE BEGINNING OF THIS REPORTING PERIOD. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS TOMORROW ARE EXPECTED TO GIVE WAY TO MINOR STORM CONDITIONS.

III. EVENT PROBABILITIES 28 AUG-30 AUG

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 AUG 163

ESTIMATED 27 AUG 171

PREDICTED 28 AUG-30 AUG 176/185/190

90 DAY MEAN 26 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 AUG 019 AP 26 AUG 022

ESTIMATED AFR 26 AUG 018 AFR/AP 27 AUG 010/015

PREDICTED AFR/AP 28 AUG-30 AUG 015/015-025/015-020/020

SOLTERWARN

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HXUS BOU 271300

PREDM 07028 07029 07030

PREDX 00528 00529 00530

PREDP 00128 00129 00130

PCAFT 00128

TENCM 17628 18529 19030

AFRED 01528 02529 02030

AFAPF 01528 01529 02030

KKK 22343 32233 34332

BT

HFUS 3 ROU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 239B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 27/2100Z: SOLAR ACTIVITY HAS RETURNED TO A LOW LEVEL FOLLOWING THE RASH OF M FLARES FROM REGION 3873 (N15W29) EARLIER IN THE DAY. THE LARGEST EVENTS SINCE 27/1200Z WERE C2 FLARES. REGION 3870 CONTINUES TO GROW IN WHITE LIGHT, BUT REMAINS A SIMPLE BETA GROUP MAGNETICALLY. GROWTH IN ITS NEIGHBOR, REGION 3877 (N23 W39) MAY HAVE SLOWED. REGION 3880 (N11 E69) APPEARS TO BE A NEW REGION AND IS GROWING. REGION 3867 (S12 W55) IS STABLE. THE 10CM EW SCAN DOES NOT INDICATE ANY STRONG SOURCES NEAR THE EAST LIMB, MOST OF THE FLUX IS COMING FROM REGIONS 3867 AND 3870.

IB. SOLAR ACTIVITY FORECAST: A RETURN TO MODERATE LEVELS OF SOLAR ACTIVITY IS EXPECTED OVER THE NEXT 24 HOURS. REGION 3870 SHOULD BE THE PRIMARY SOURCE OF THIS ACTIVITY..

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED LEVELS THRU THIS PERIOD. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED UNTIL THE EFFECTS OF THE SOUTHERN CORONAL HOLE ARE FELT ON 29 AUGUST.

III. EVENT PROBABILITIES 28 AUG-30 AUG

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 AUG 177

PREDICTED 28 AUG-30 AUG 182/187/190

90 DAY MEAN 27 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 AUG <sup>017</sup>019/022

ESTIMATED AFR/AP 27 AUG 010/015

PREDICTED AFR/AP 28 AUG-30 AUG 012/015-025/015-020/020

SOLTERWARN

BT