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HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 235A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 23 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/1200Z TO 23/1200Z: SOLAR ACTIVITY HAS BEEN LOW. A SMALL NUMBER OF C CLASS SUBFLARES HAVE BEEN OBSERVED, ALL BUT ONE FROM REGION 3870(N15E33). REGION 3870 HAS GROWN SIGNIFICANTLY IN THE LEADER PART. SPOTS HAVE ALSO APPEARED NEARBY IN WHAT APPEARS TO BE THE TRAILER OF 3871(N14E21). ALL CURRENT REGIONS ARE MAGNETICALLY SIMPLE BUT THE MAGNETIC GRADIENT IN 3870 HAS INCREASED AND ARCH FILAMENTS HAVE BEEN NEARLY CONTINUOUSLY PRESENT. REGION 3867(S12E08) HAS BEEN CONTINUOUSLY ENHANCED BUT HAS NOT FLARED IN RECENT HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. REGION 3870 MAY BEGIN PRODUCING LARGER FLARES AND AN ISOLATED M FLARE IS POSSIBLE FROM IT OR PERHAPS FROM REGION 3867 AS WELL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS CONTINUED ACTIVE IN RECENT HOURS. SOLAR WIND VELOCITIES ARE ELEVATED AND WHILE THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED, BRIEF PERIODS AT ACTIVE LEVELS MAY BE OBSERVED EARLY IN THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 AUG-26 AUG

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 AUG 136

ESTIMATED 23 AUG 130

PREDICTED 24 AUG-26 AUG 130/130/125

90 DAY MEAN 22 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 AUG 016 AP 22 AUG 021

ESTIMATED AFR 22 AUG 017 AFR/AP 23 AUG 014/015

PREDICTED AFR/AP 24 AUG-26 AUG 012/010-012/010-012/010

SOLTERWARN

BT

HXUS BOU 231300

PREDM 02024 02025 02026

PREDX 00124 00125 00126

PREDP 00124 00125 00126

PCAF 00124

ENCM 13024 13025 12526

AFRED 01224 01225 01226

AFAPF 01024 01025 01026

KKK 33333 32223 33332

BT

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HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 235B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3870 (N15E25) HAS BEEN THE ONLY REGION CONTRIBUTING FLARES THIS PERIOD WITH SN AND SF OPTICAL FLARES. THIS REGION HAS HAD SEVERAL ARCH FILAMENT SYSTEMS AND APPEARS TO BE FORMING A DELTA MAGNETIC CONFIGURATION IN THE MIDDLE OF THE REGION. SEVERAL CLASS C X-RAY FLARES HAVE OCCURRED BUT CANNOT BE ATTRIBUTED TO A CERTAIN REGION. NEW REGIONS 3873 (S14W25) AND 3874 (S09E30) HAVE BEEN NUMBERED THIS PERIOD. THEY HAVE BXO AND AXX CLASSIFICATIONS, RESPECTIVELY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. REGIONS 3870 AND 3867 (S12E00) APPEAR TO BE THE ONLY REGIONS CAPABLE OF SIGNIFICANT FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND SHOULD REMAIN SO THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY IS ATTRIBUTED TO THE NORTHERN POLAR CORONAL HOLE TRANSITING THE DISK.

III. EVENT PROBABILITIES 24 AUG-26 AUG

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 AUG 138

PREDICTED 24 AUG-26 AUG 140/142/142

90 DAY MEAN 23 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 AUG 023/021

ESTIMATED AFR/AP 23 AUG 016/017

PREDICTED AFR/AP 24 AUG-26 AUG 016/018-018/018-016/018

SOLTERWARN

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