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HFXUS 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 UNSETLED, 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

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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

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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 016/018-018/018-018/018

SOLTERWARN

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