

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 234

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 AUG 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100
TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE DISK REMAINS
SPOTLESS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN VERY LOW. OLD REGION 4682 (S15 CAR 3), THE MOST ACTIVE
REGION LAST ROTATION, IS DUE BACK SOMETIME MID-DAY TOMORROW.
ACCORDING TO THE OTTAWA E-W DRIFT SCAN, THIS REGION APPEARS TO
BE LESS POTENT THAN THIS TIME LAST ROTATION. THIS REGION
PRODUCED ONLY C-LEVEL EVENTS DURING ITS TRANSIT ACROSS THE DISK
AND THERE HAS BEEN NO INDICATION THAT AN INCREASE TO THAT
AMOUNT OF ACTIVITY WILL OCCUR.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AT MID-LATITUDES, AND
ACTIVE TO MINOR STORM AT HIGH LATITUDES SINCE 2400UT ON THE
21ST. THIS ACTIVITY IS SOMEWHAT RECURRENT AND COULD BE DUE TO
A CORONAL HOLE WHICH IS TOO WEAKLY DEFINED TO SEE ON THE KITT
PEAK HE 10830. ON AUGUST 19TH THE SAC. PEAK GREEN LINE
ANALYSIS INDICATED A STRONG CORONAL HOLE LEG CROSSING CENTRAL
MERIDIAN ALMOST 20 DEGREES SOUTH AND WEAK SIGNATURES NEAR THE
EQUATOR. THIS IS FURTHER EVIDENCE THAT THE ACTIVITY MAY BE
CORONAL HOLE RELATED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: BY MID-DAY ON THE 23RD THE
GEOMAGNETIC FIELD SHOULD DECLINE TO UNSETTLED TO ACTIVE LEVELS
AT MID-LATITUDES, AND ACTIVE LEVELS AT HIGH LATITUDES, AND
REMAIN AT THOSE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 23 AUG-25 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 AUG 071

PREDICTED 23 AUG-25 AUG 072/074/075

90 DAY MEAN 22 AUG 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 AUG 012/013

ESTIMATED AFR/AP 22 AUG 019/035

PREDICTED AFR/AP 23 AUG-25 AUG 015/020-013/020-010/020

SOLTERWARN

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