

HFUS 1 BOU 121300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 285A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 12 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
11/1200Z TO 12/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS. REGION 3938 (N23W25) REMAINS THE ONLY SIGNIFICANT
REGION ON THE DISK - SLOW GROWTH CONTINUES HERE BUT IS WANING.
FLUX HAS EMERGED IN THE SOUTHERN PORTION OF 3938 MAKING FOR A
WEAK BETA GAMMA MAGNETIC CONFIGURATION. SEVERAL SMALL FLARES
HAVE BEEN OBSERVED FROM THIS REGION. A SMALL REGION IS GROWING
RAPIDLY AT N07E26 AND HAS BEEN NUMBERED 3948. OTHER REGIONS ARE
SMALL AND MAGNETICALLY SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW
FOR THE NEXT THREE DAYS. THERE IS A SLIGHT POSSIBILITY OF AN
ISOLATED CLASS M FLARE FROM REGION 3938. NO SIGNIFICANT REGIONS
ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE FORECAST
PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO SLIGHTLY ACTIVE. THIS LEVEL OF ACTIVITY
SHOULD CONTINUE THROUGH 12 OCT. MINOR STORM CONDITIONS ARE
FORECAST TO BEGIN ON 13 OCT IN RESPONSE TO SMALL FILAMENT
DISRUPTIONS NEAR CENTRAL MERIDIAN ON 09 OCT. GENERALLY ACTIVE
CONDITIONS SHOULD PREVAIL THROUGH THE REMAINDER OF THE FORECAST
PERIOD. ON 15 OCT, THE GEOMAGNETIC FIELD IS EXPECTED TO BEGIN
RESPONDING TO A CORONAL HOLE RELATED HIGH SPEED SOLAR WIND
STREAM. ACTIVE CONDITIONS SHOULD CONTINUE THROUGH 19 OCT.

III. EVENT PROBABILITIES 13 OCT-15 OCT

CLASS M 05/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

| | | |
|-------------|---------------|-------------|
| OBSERVED | 11 OCT | 138 |
| ESTIMATED | 12 OCT | 139 |
| PREDICTED | 13 OCT-15 OCT | 142/143/145 |
| 90 DAY MEAN | 11 OCT | 167 |

V. GEOMAGNETIC A INDICES

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|------------------|---------------|-------------------------|---------------|---------|
| OBSERVED AFR | 10 OCT | 012 | AP 11 OCT | 012 |
| ESTIMATED AFR | 11 OCT | 012 | AFR/AP 12 OCT | 010/015 |
| PREDICTED AFR/AP | 13 OCT-15 OCT | 035/030-015/025-020/015 | | |

SOLTERWARN

BT

HXUS BOU 121300

PREDM 00513 01014 01015

PREDX 00113 00114 00115

PREDP 00113 00114 00115

PCAFT 00113

TENCM 14213 14314 14515

AFRED 03513 01514 02015

AFAPF 03013 02514 01515

KKK 22455 43334 55443

BT

