

HFXUS 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 UNSETLED 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

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

HFXUS BOU 121300

PREDM 00513 01014 01015

PREDX 00113 00114 00115

PREDP 00113 00114 00115

PCAF 00113

TENCM 14213 14314 14515

AFRED 03513 01514 02015

AFAPF 03013 02514 01515

KKK 22455 43334 55443

BT

