

HFUS 1 BOU 151300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 288A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 15 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 15/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 3949 (N03W40) WHICH HAS BEEN GROWING AND FORMING MIXED POLARITIES IN ITS CENTRAL PORTION, PRODUCED A C9/SB AT 15/1151Z. THIS WAS A SHORT-LIVED FLARE WITH MINOR RADIO BURSTS AND MINOR SWF. REGION 3946 (S10W41) IS ALSO GROWING, AT A SLIGHTLY FASTER RATE THAN 3949, BUT REMAINS BIPOLAR. REGION 3938 (N22W65) HAS REMAINED STABLE AND 3948 (N07W15) HAS SHOWN SLIGHT DECAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN GENERALLY LOW FOR THE FORECAST PERIOD. THE POSSIBILITY OF A CLASS M FLARE FROM 3949 OBVIOUSLY EXISTS AFTER ITS C9 TODAY, BUT MORE LIKELY ONLY FREQUENT CLASS C FLARES WILL BE PRODUCED BY THIS SMALL REGION. PREVIOUSLY ACTIVE LONGITUDES ARE DUE TO BEGIN RETURNING TO THE EAST LIMB AT THE END OF THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MINOR GEOMAGNETIC STORM CONDITIONS EXPERIENCED YESTERDAY BEGAN SUBSIDING AFTER ABOUT 14/1500Z. UNSETTLED CONDITIONS HAVE PREVAILED SINCE THAT TIME. THE EFFECTS OF A CORONAL HOLE-HIGH SPEED SOLAR WIND STREAM ARE STILL EXPECTED TO OCCUR LATER TODAY AND CONTINUE FOR THE NEXT THREE DAYS. ACTIVE GEOMAGNETIC CONDITIONS SHOULD OCCUR DURING THAT INTERVAL.

III. EVENT PROBABILITIES 16 OCT-18 OCT

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 OCT 141

ESTIMATED 15 OCT 143

PREDICTED 16 OCT-18 OCT 145/140/145

90 DAY MEAN 14 OCT 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 OCT 024 AP 14 OCT 035

ESTIMATED AFR 14 OCT 023 AFR/AP 15 OCT 014/020

PREDICTED AFR/AP 16 OCT-18 OCT 020/015-020/020-020/020

SOLTERWARN

BT

HXUS BOU 151300

PREDM 01016 01017 01018

PREDX 00116 00117 00118

PREDP 00116 00117 00118

PCAFT 00116

TENCM 14516 14017 14513

AFRED 02016 02017 02018

AFAPF 01516 02017 02018

KKK 33443 33333 34433

BT

NNNN CVZG VZL VZO UU

KBOU

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SF NUMBER 288

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 15/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THERE WERE ONLY THREE FLARES THIS PERIOD. THE LARGEST WAS A C3/SUB BRIGHT FROM REGION 3950 (S07E39). REGION 3943 (S15E01) DEVELOPED OVERNIGHT FROM A SPOTLESS PLAGE AREA TO A SMALL BIPOLAR GROUP. NO OTHER SIGNIFICANT GROWTH WAS NOTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THROUGH THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THIS PERIOD. CORONAL HOLE ASSOCIATED ACTIVE CONDITIONS ARE EXPECTED TO RETURN ON THE 16TH AND REMAIN THROUGH THE FORECAST.

III. EVENT PROBABILITIES 16 OCT-18 OCT

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCT 135

PREDICTED 16 OCT-18 OCT 133/130/128

90 DAY MEAN 15 OCT 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 OCT 021/025

ESTIMATED AFR/AP 15 OCT 007/010

PREDICTED AFR/AP 16 OCT-18 OCT 020/015-020/015-020/015

SOLTERWAR N

BT

NNNNSV

UU