

HFUS 1 BOU 191300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 292A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 19 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
18/1200Z TO 19/1200Z: SOLAR ACTIVITY IS LOW. CLASS C FLARES
CONTINUE TO BE THE ONLY TYPE OF ACTIVITY OBSERVED. THE NEW
REGIONS IN THE SOUTHEAST, 3954 (S07E58) AND 3955 (S09E74) ARE
STILL SMALL AND SIMPLE BUT POINT BRIGHTENINGS AND FLUCTUATIONS
SUGGEST DYNAMIC POTENTIAL IN THESE REGIONS. ANOTHER SPOT
ROTATING ONTO THE DISK NEAR SE 09 MAY OR MAY NOT BE TRAILER
PORTIONS OF 3955. FURTHER ANALYSIS IS NEEDED BEFORE
DETERMINATION. REGION 3950 (S07W07) IS LITTLE CHANGED AND
CONTINUES ITS PRODUCTION OF SPORADIC SUBFLARE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
REMAINS UNSETTLED TO ACTIVE. GENERALLY UNSETTLED TO ACTIVE
CONDITIONS SHOULD CONTINUE WITH A TREND TOWARD QUIET TO
UNSETTLED CONDITIONS.

III. EVENT PROBABILITIES 20 OCT-22 OCT

CLASS M 05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 134

ESTIMATED 19 OCT 136

PREDICTED 20 OCT-22 OCT 139/144/149

90 DAY MEAN 18 OCT 158

V. GEOMAGNETIC A INDICES

OBSERVED AFR 17 OCT 018 AP 18 OCT 022

ESTIMATED AFR 18 OCT 019 AFR/AP 19 OCT 015/015

PREDICTED AFR/AP 20 OCT-22 OCT 012/020-010/015-010/015

SOLTERWARN

BT

HXUS BOU 191300

PREDM 00520 00521 00522

PREDX 00120 00121 00122

PREDP 00120 00121 00122

PCAFF 00120

TENCM 13920 14421 14922

AFRED 01220 01021 01022

AFAPF 02020 01521 01522

KKK 32344 33333 44332

BT

HFUS 3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 2928

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 19/2100Z: SOLAR ACTIVITY HAS REMAINED LOW DURING THE PERIOD, HOWEVER, THERE HAS BEEN A SIGNIFICANT INCREASE IN SUBFLARE ACTIVITY DURING THE PAST FIVE HOURS. REGION 3955 (S09E 71) HAS PRODUCED TWO SN/C2 FLARES, ONE AT 1752Z MAXIMUM AND ONE AT 1809Z MAXIMUM. INTERMITTENT MINOR SURGING HAS BEEN OBSERVED ALSO FROM THIS REGION. BECAUSE OF ITS LIMB PROXIMITY, LITTLE DETAILED ANALYSIS OR GROWTH TRENDS ARE AVAILABLE FOR THIS REGION, HOWEVER, IT IS A LARGE E-TYPE SPOT GROUP WITH BRIGHT PLAGE. REGION 3950 (S07W 14) HAS ALSO PRODUCED MINOR FLARES, BUT EVIDENCE INDICATES THIS REGION IS DECAYING SLOWLY WHILE POSSESSING AN EMBEDDED ACTIVE FILAMENT. A NEW REGION DEVELOPED AT N08W 62, A SIMPLE A-TYPE GROUP NUMBERED 3956. NEW REGION 3957 (S14E 18) IS A RAPIDLY GROWING D-TYPE GROUP WITH STRONG ARCH FILAMENTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, HOWEVER, A SLOW INCREASE IN MINOR FLARE PRODUCTION IS FORECAST THROUGH THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS UNSETLED TO SLIGHTLY ACTIVE FOR THE NINE HOUR PERIOD. THE FIELD HAS EXHIBITED A SLIGHT QUIETING TREND FROM PREVIOUS DAYS. CORONAL HOLE INDUCED ACTIVITY. UNSETLED TO SLIGHTLY ACTIVE LEVELS ARE FORECAST FOR THE NEXT 12 HOURS FOLLOWED BY LOW UNSETLED LEVELS FOR THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 20 OCT-22 OCT

CLASS M 05/10/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCT 138

PREDICTED 20 OCT-22 OCT 142/148/152

90 DAY MEAN 19 OCT 158

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 18 OCT 018/022

ESTIMATED AFR/AP 19 OCT 014/015

PREDICTED AFR/AP 20 OCT-22 OCT C12/015-010/010-010/015

SOLAR/WARN

BT

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