

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 05/05/05

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

PCAFT 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 292B

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  
(S09E71) HAS PRODUCED TWO SNO/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 (S07W14) HAS ALSO PRODUCED MINOR  
FLARES, BUT EVIDENCE INDICATES THIS REGION IS DECAYING SLOWLY  
WHILE POSSESSING AN EMBEDDED ACTIVE FILAMENT. A NEW REGION  
DEVELOPED AT N08W62, A SIMPLE A-TYPE GROUP NUMBERED 3956. NEW  
REGION 3957 (S14E18) 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  
UNSETTLED TO SLIGHTLY ACTIVE FOR THE NINE HOUR PERIOD. THE  
FIELD HAS EXHIBITED A SLIGHT QUIETING TREND FROM PREVIOUS DAYS  
CORONAL HOLE INDUCED ACTIVITY. UNSETTLED TO SLIGHTLY ACTIVE  
LEVELS ARE FORECAST FOR THE NEXT 12 HOURS FOLLOWED BY LOW  
UNSETTLED 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 152

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 OCT 018/022

ESTIMATED AFR/AP 19 OCT 014/015

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

SOLTERWAR N

BT

NNNN SV

III