

HFUS 1 BOU 251300  
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
 SDF NUMBER 298A  
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
 ISSUED 1300Z 25 OCT 1982  
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
 24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS CONTINUED MODERATE WITH  
 A SINGLE M CLASS FLARE, AN M2/1B IN REGION 3960(N11E28) AT  
 24/1504Z. REGION 3960 HAS GROWN SLIGHTLY IN WHITE LIGHT AND  
 CONTINUES TO SHOW SOME MAGNETIC COMPLEXITY WITH A DELTA STILL  
 PRESENT. REGION 3955(S10W05) IS THE LARGEST MOST COMPLEX  
 REGION VISIBLE WITH CONSIDERABLE COMPLEXITY AND TWO PERSISTENT  
 DELTAS REPORTED. THIS REGION HAS GROWN SIGNIFICANTLY BUT HAS  
 PROVIDED ONLY SMALL C CLASS SUBFLARE ACTIVITY. REGIONS  
 3959(N12E01) AND 3963(N13W08) HAVE GROWN SOMEWHAT IN WHITE  
 LIGHT. REGION 3961(S06E37) REMAINS A SMALL SIMPLE BETA REGION  
 BUT HAS MORE THAN DOUBLED IN AREA IN RECENT HOURS, AND HAS  
 SHOWN AFS WITH BRIGHT POINTS AT THE FEET CONSISTENTLY THROUGH  
 THE REPORT PERIOD.  
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
 CONTINUE MODERATE WITH A LARGER AMOUNT OF SMALL SCALE ACTIVITY  
 EXPECTED AS WELL AS THE POSSIBILITY OF MORE AND LARGER M CLASS  
 FLARES DUE TO THE DEVELOPMENT OF REGIONS 3955 AND 3960.  
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
 BEEN GENERALLY QUIET EXCEPT FOR WHAT APPEARS TO BE AN ISOLATED  
 PULSE TO A K OF FOUR BEFORE 25/0600Z, SUBSIDING TO A K OF THREE  
 FOR THE NEXT PERIOD. MAGNETIC ACTIVITY IS EXPECTED TO REMAIN  
 GENERALLY UNSETTLED THROUGHOUT THE FORECAST PERIOD.  
 III. EVENT PROBABILITIES 26 OCT-28 OCT  
 CLASS M 70/75/80  
 CLASS X 05/05/05  
 PROTON 05/05/05  
 PCAF GREEN  
 IV. OTTAWA 10.7 CM FLUX  
 OBSERVED 24 OCT 193  
 ESTIMATED 25 OCT 198  
 PREDICTED 26 OCT-28 OCT 195/195/192  
 90 DAY MEAN 24 OCT 161  
 V. GEOMAGNETIC A INDICES  
 OBSERVED AFR 23 OCT 005 AP 24 OCT 007  
 ESTIMATED AFR 24 OCT 006 AFR/AP 25 OCT 012/015  
 PREDICTED AFR/AP 26 OCT-28 OCT 015/015-015/010-015/020  
 SOLTERWARN  
 BT

HXUS BOU 251300  
 PREDM 07026 07527 08028  
 PREDX 00526 00527 00528  
 PREDP 00526 00527 00528  
 PCAFT 00126  
 TENCN 19526 19527 19228  
 AFRED 01526 01527 01528  
 AFAPF 01526 01027 02028  
 KKK 33243 32233 34332  
 BT

KBOU  
HFUS 3 BOU 252200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 2988  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 25 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
25/1200Z TO 25/2100Z: SINCE THE LAST REPORT AT 12Z SOLAR  
ACTIVITY HAS BEEN MODERATE. THE MAJORITY OF ACTIVITY HAS COME  
FROM REGION 3955 (S10W11) WHICH MANAGED TO PRODUCE A B/C8 AT  
155Z IN ADDITION TO SEVERAL OTHER SMALLER SUBFLARES. WHILE  
THIS REGION IS CURRENTLY THE LARGEST SUNSPOT GROUP ON THE SUN  
IT IS DECAYING RAPIDLY IN WHITE LIGHT. OF THE VARIOUS ACTIVE  
REGIONS ON THE SUN REGION 3961 (S06E29) IS SHOWING THE MOST  
GROWTH. THIS REGION HAS TRIPLED IN AREA AND IS REACHING THE  
SIZE WHERE IT IS CAPABLE OF PRODUCING M-CLASS XRAY FLARES. A  
NEW REGION 3966 (N07E53) HAS BEEN CONFIRMED DURING THE PERIOD.  
OTHER REGIONS ON THE DISK REMAIN LARGELY UNCHANGED SINCE  
YESTERDAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE AT MODERATE LEVELS WITH AN ABOVE AVERAGE CHANCE OF  
M-CLASS XRAY FLARES FROM REGIONS 3955 AND 3961.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE WITH MINOR MID-LATITUDE STORM CONDITIONS OBSERVED  
BETWEEN 12 AND 16Z. ACTIVE CONDITIONS ARE EXPECTED TO PERSIST  
OVER THE NEXT SEVERAL DAYS.

III. EVENT PROBABILITIES 26 OCT-28 OCT

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 OCT 202

PREDICTED 26 OCT-28 OCT 200/198/195

90 DAY MEAN 25 OCT 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 OCT 006/007

ESTIMATED AFR/AP 25 OCT 021/018

PREDICTED AFR/AP 26 OCT-28 OCT 020/020-015/020-015/020

SOLTERWAR N

BT