

HFUS 1 BOU 231300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 296A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 23 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
22/1200Z TO 23/1200Z: SOLAR ACTIVITY HAS REMAINED LOW - CONFINED  
TO LOW TO MID LEVEL CLASS C X-RAY BURSTS. REGION 3955 (S10E23)  
REMAINS THE MOST SIGNIFICANT REGION ON THE DISK. RESTRUCTURING  
AND INCREASING MAGNETIC COMPLEXITY CONTINUE. HOWEVER, ACTIVITY  
HAS BEEN CONFINED TO MINOR FLARES. FOR A REGION HAVING ITS  
CURRENT CHARACTERISTICS, THIS LACK OF SIGNIFICANT FLARES IS AN  
ENIGMA. REGION 3960 (N12E60) HAS PRODUCED SEVERAL FLARES  
INCLUDING A 1B AT 2121Z. REGION 3959 (N11E30) IS COMPOSED OF  
TWO CLOSELY PACKED BIPOLAR SETS. GROWTH IS OCCURRING IN THIS  
REGION. REGION 3961 (S07E65) ROTATED ON TO THE DISK AS A SMALL  
SIMPLE REGION AND HAS BEEN QUIET SINCE ITS LIMB ACTIVITY  
YESTERDAY. NEW FLUX IS EMERGING NEAR N13E23 AND N15E62; ALSO,  
SURGING HAS BEEN REPORTED AT NE06.

IB. SOLAR ACTIVITY FORECAST: ENERGETIC FLARES ARE STILL  
EXPECTED TO OCCUR IN REGION 3955 DURING THE FORECAST PERIOD.  
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. STORM LEVELS ARE EXPECTED ON 24 AND 25 OCTOBER,  
INTERPERSED WITH ACTIVE CONDITIONS THE BALANCE OF THE FORECAST  
PERIOD.

III. EVENT PROBABILITIES 24 OCT-26 OCT

CLASS M 60/60/60  
CLASS X 05/05/05  
PROTON 05/05/05  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 OCT 170  
ESTIMATED 23 OCT 178  
PREDICTED 24 OCT-26 OCT 186/190/194  
90 DAY MEAN 22 OCT 159

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 OCT 009 AP 22 OCT 008  
ESTIMATED AFR 22 OCT 008 AFR/AP 23 OCT 012/010  
PREDICTED AFR/AP 24 OCT-26 OCT 035/040-035/030-015/025

SOLTERWARN  
BT

HXUS BOU 231300  
PREDM 06024 06025 06026  
PREDX 00524 00525 00526  
PREDP 00524 00525 00526  
PCAFT 00124  
TENCM 18624 19025 19426  
AFRED 03524 03525 01526  
AFAPF 04024 03025 02526  
KKK 22455 54434 55543  
BT

NNNNICVZGVZLVZO UU

XBOU

HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

DF NUMBER 296B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS INCREASED TO A MODERATE LEVEL WITH AN M1/5B FLARE AT 1257Z IN REGION 3955 (S10E13).

THIS REGION REMAINS MAGNETICALLY COMPLEX WITH STRONG GRADIENTS AT SEVERAL POINTS AND IT HAS INCREASED IN SMALL FLARE ACTIVITY IN THE PAST 24 HOURS. REGION 3960 (N13E47) IS GROWING IN AREA AND COMPLEXITY, IT CONTAINS TWO ARCH FILAMENT SYSTEMS AND THE SPOT GROUP HAS DEVELOPED A MAGNETIC DELTA CONFIGURATION. IT

HAS PRODUCED SEVERAL SMALL FLARES SINCE 1200Z AND APPEARS CAPABLE OF CONTINUED GROWTH AND FLARE ACTIVITY. REGION 3959 HAS BEEN DIVIDED INTO TWO REGIONS, THE OLDER PORTION IS 3959

(N12E19) AND THE NEW DEVELOPING REGION IS 3963 (N13E13). REGION 3963 HAS PRODUCED SEVERAL SMALL FLARES TODAY. SMALL SIMPLE REGION 3964 (S14E35) WAS ALSO NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE THROUGHOUT THE FORECAST PERIOD WITH M-CLASS FLARES LIKELY FROM REGION 3955 AND POSSIBLE FROM REGION 3960.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. MINOR STORM CONDITIONS ARE EXPECTED ON 24 AND 25 OCT WITH ACTIVE CONDITIONS THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 OCT-26 OCT.

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 OCT 192

PREDICTED 24 OCT-26 OCT 190/194/198

90 DAY MEAN 23 OCT 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 OCT 008/003

ESTIMATED AFR/AP 23 OCT 008/007

PREDICTED AFR/AP 24 OCT-26 OCT 035/020-035/020-015/015

SOLTERWAR N

BT

HXUS BOU 232200

PREDM 06024 06025 06026

PREDX 00524 00525 00526

PREDP 00524 00525 00526

PCAF 00124

TE NCM 19024 19425 19826

AFRED 03524 03525 01526

AFAPF 02024 02025 01526

BT

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NNNNICVZGVZLVZO

XBOU

HXUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

RF NUMBER 296P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 OCT 1960

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS INCREASED TO A MODERATE LEVEL WITH AN M1.5E FLARE AT 1257Z IN REGION 3955 (S10E13).

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III. EVENT PROBABILITIES 24 OCT-26 OCT

CLASS M 60/60/60  
CLASS X 05/05/05  
PROTON 05/05/05  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 23 OCT 132  
PREDICTED 24 OCT-26 OCT 190/194/198  
90 DAY MEAN 23 OCT 160

V. GEOMAGNETIC A INDICES  
OBSERVED AFR/AP 22 OCT 008/003  
ESTIMATED AFR/AP 23 OCT 008/007  
PREDICTED AFR/AP 24 OCT-26 OCT 035/020-035/020-015/015

SOLTERWAR N  
BT

HXUS BOU 232200

PRED M 06024 06025 06026  
PRED X 00524 00525 00526  
PRED P 00524 00525 00526  
PCAF 00124

TE NCM 19024 19425 19826  
AFRED 03524 03525 01526  
AFAPF 02024 02025 01526

BT  
NNNN