

HFXS 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 BIPOLE SETS. GROWTH IS OCCURRING IN THIS REGION. REGION 3961 (S02E65) ROTATED ONTO THE DISK AS A SMALL SIMPLE REGION AND HAS BEEN QUIET SINCE ITS SLIMB ACTIVITY YESTERDAY. NEW FLUX IS EMERGING NEAR N13E23 AND N15E62; ALSO, SURGING HAS BEEN REPORTED AT N06.

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 UNSETLED. 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

PCAF 00124

TENCM 18624 19025 19426

AFRED 03524 03525 01526

AFAPF 04024 03025 02526

KKK 22455 54434 55543

BT

NNNZCVZGVZLVZO UU  
XBOU

HFXUS 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/SB FLARE AT 125°Z 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 UNSETLED. 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 182

PREDICTED 24 OCT-26 OCT 190/194/198

90 DAY MEAN 23 OCT 160

V. GEOMAGNETIC 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

SOLTERWARN

BT

HFXUS BOU 232200

PREDM 06024 06025 06026

PREDX 00524 00525 00526

PREDP 00524 00525 00526

PCAF 00124

TE NCM 19024 19425 19826

AFLRED 03524 03525 01526

AFAFP 02024 02025 01526

BT

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NNNN CVZ G VZL VZG ..

KC04

HXUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICE CENTER, BOULDER, COLORADO

TELETYPE NUMBER 2968

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 OCT 1990

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/S2 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.

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II. GEOPHYSICAL SUMMARY AND FORECAST : THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. 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 132

PREDICTED 24 OCT-26 OCT 190/194/192

50 DAY MEAN 23 OCT 160

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 22 OCT 008/002

ESTIMATED AFR/AP 23 OCT 008/007

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

SOLAR WARNS

BT

HXUS BOU 232200

PRED M 06024 06025 06026

PRED X 00524 00525 00526

PRED P 00524 00525 00526

PCAF T 00124

TECM 19024 19435 19826

AFFRED 03524 03525 01526

AFAPF 02024 02025 01526

BT

NNNN