

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

NNNZCVZGVZLVZO UU

XBOU

HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SF 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 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 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

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HXUS BOU 232200

PREDM 06024 06025 06026

PREDX 00524 00525 00526

PREDP 00524 00525 00526

PCAF 00124

TENCM 19024 19425 19826

AFRED 03524 03525 01526

AFAPF 02024 02025 01526

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HXUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
IDF NUMBER 296B

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 M1.5 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

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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

SOLTERWARN

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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

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