

HEHUS 1 BOW 231300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDE NUMBER 096A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 23 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
22/1200Z TO 23/1200Z:

SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL DURING THE PAST 24
HOURS. THE LARGEST EVENT RECORDED WAS A C4/1B FROM NEW REGION
3423 (S16E50). NO SPOTS HAVE YET BEEN OBSERVED FROM THIS
REGION. REGION 3403 (S11W61) NO LONGER POSSESSES A DELTA
MAGNETIC CONFIGURATION AND CONTINUES TO DECAY MAGNETICALLY.
REGION 3406 (S08W37), 3418 (N15E48) AND 3422 (N08W60) HAVE ALL
EXHIBITED DECAY. REGION 3419 (S28E28) HAS DOUBLED IN SIZE THIS
PERIOD, AND IS A C-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE AS REGION 3403
CONTINUES TO APPEAR CAPABLE OF PRODUCING M-CLASS EVENTS. THE
CHANCE OF AN X-CLASS EVENT CONTINUES TO DECREASE AS THE GENERAL
DECAY OF THE LARGE REGIONS CONTINUES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN NEAR MINOR STORM CONDITIONS THIS
PERIOD. AS THE SOLAR WIND SPEED HAS DECREASED THE GEOMAGNETIC
FIELD IS EXPECTED TO BECOME ACTIVE THEN UNSETTLED DURING THIS
FORECAST PERIOD.

III. EVENT PROBABILITIES 24 OCT-26 OCT

CLASS M 70/60/50

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 OCT 221

ESTIMATED 23 OCT 212

PREDICTED 24 OCT-26 OCT 202/190/180

90 DAY MEAN 22 OCT 224

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 OCT 026 AFR 22 OCT 042

ESTIMATED AFR 22 OCT 042 AFR/AP 23 OCT 019/025

PREDICTED AFR/AP 24 OCT-26 OCT 015/015-010/010-008/008

SOLTERWARN

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HFUS 3 BOU 232200
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 296B
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 2200Z 23 OCT 1981
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
 PAST 9 HOURS. SEVERAL SMALL C-CLASS X-RAY BURSTS HAVE BEEN
 NOTED, EACH WITHOUT ANY OPTICAL FLARE REPORTED. MINOR DECAY
 SEEMS TO HAVE TAKEN PLACE IN REGION 3403 (S11W68). OTHER
 REGIONS REMAIN UNIMPRESSIVE COMPARED TO REGION 3403.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
 LOW TO OCCASIONALLY MODERATE WITH REGION 3403 RETAINING THE
 CAPACITY TO PRODUCE AN ISOLATED M-CLASS FLARE. X-CLASS
 PROBABILITIES CONTINUE TO DECREASE AS THE LARGE REGIONS OF THE
 PAST WEEK DISINTEGRATE OR PASS OVER THE WEST LIMB.
 II. GEOPHYSICAL SUMMARY AND FORECAST: MINOR GEOMAGNETIC STORM
 CONDITIONS QUIETED RATHER SUDDENLY SHORTLY AFTER 0900Z. SINCE
 THEN THE FIELD HAS BEEN ESSENTIALLY UNSETTLED WITH MID-LATITUDE
 K-VALUES OF 2 AND 3. THE FIELD IS EXPECTED TO BE MILDLY ACTIVE
 IN NIGHTTIME SECTORS FOR THE NEXT 24 HOURS, WITH CONDITIONS
 TRENDING TOWARD UNSETTLED TO QUIET LEVELS.
 III. EVENT PROBABILITIES 24 OCT-26 OCT
 CLASS M 70/60/50
 CLASS X 10/05/05
 PROTON 10/05/05
 PCAF GREEN
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 23 OCT 210
 PREDICTED 24 OCT-26 OCT 200/188/178
 00 DAY MEAN 23 OCT 223
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR/AP 22 OCT 043/042
 ESTIMATED AFR/AP 23 OCT 020/025
 PREDICTED AFR/AP 24 OCT-26 OCT 015/015-010/010-008/008
 SOLTERWARN
 RT

HXUS BOU 232200
 PREDM 07024 06025 05026
 PREDX 01024 00525 00526
 PREDP 01024 00525 00526
 PCAFT 00124
 TENCN 20024 18825 17826
 AFRED 01524 01025 00826
 AFAPF 01524 01025 00826
 RT