

NNNNZCVZGVZLVZOUU

KBOU

HFUS 1 BOU 201300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 232A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 20 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 20/1200Z: SOLAR ACTIVITY CONTINUES LOW WITH ONLY C-CLASS SUBFLARES OBSERVED. REGIONS 3856 (S11W67) AND 3867 (S13E47) HAVE PRODUCED THE MAJORITY OF THESE EVENTS. THE LARGEST X-RAY EVENT RECORDED DURING THE 24 HOUR PERIOD WAS AN UNCORRELATED C2.5 AT 19/1551Z MAXIMUM. REGION 3856 IS NOW SHOWING SIGNIFICANT DECAY THROUGHOUT ITS INTERIOR AND TRAILER PORTIONS. THE WEAK MAGNETIC DELTA CONFIGURATION VISIBLE YESTERDAY IN THE CENTRAL PORTION OF THE REGION HAS NOW FRAGMENTED. REGION 3867 HAS EXHIBITED SOME MINOR GROWTH IN RECENT HOURS ESPECIALLY IN ITS CENTRAL PORTION. PLAGE FLUCTUATIONS AND AN ARCH FILAMENT SYSTEM IS VISIBLE HERE, BUT THE OVERALL MAGNETIC COMPLEXITY OF THE REGION REMAINS SIMPLE. THE REMAINING FOUR SPOTTED DISK REGIONS HAVE SHOWN LITTLE CHANGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. AN ISOLATED M-CLASS EVENT IS POSSIBLE FROM REGION 3856 DURING THE NEXT TWO DAYS, BUT WHEN THIS REGION ROTATES OVER THE WEST LIMB ON THE THIRD DAY, FLARE POTENTIAL FROM THE REMAINING DISK REGIONS WILL BE VERY LOW. SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW WITH ONLY C-CLASS X-RAY EVENTS FORECAST.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO OCCASIONALLY ACTIVE DURING THE PAST 24 HOURS. THE CORONAL HOLE RESPONSE FORECAST FOR TODAY HAS YET TO MATERIALIZE, BUT CURRENT ISEE-3 SPACECRAFT DATA INDICATE A GRADUAL INCREASE IN THE SOLAR WIND SPEED WHICH COULD BE A PRECURSOR TO THE EXPECTED ACTIVE LEVELS. THESE ACTIVE CONDITIONS ARE FORECAST FOR THE THREE DAY PERIOD.

III. EVENT PROBABILITIES 21 AUG-23 AUG

CLASS M 25/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 AUG 156

ESTIMATED 20 AUG 140

PREDICTED 21 AUG-23 AUG 125/115/110

90 DAY MEAN 19 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 18 AUG 016 AP 19 AUG 012

ESTIMATED AFR 19 AUG 012 AFR/AP 20 AUG 015/020

PREDICTED AFR/AP 21 AUG-23 AUG 020/030-020/020-015/015

SOLTERWARN

BT

NNNNZSV

HFUS 3 BOU 202200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 232B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 20 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
20/1200Z TO 20/2100Z: SOLAR ACTIVITY HAS BEEN LOW. CLASS C X-RAY
FLARES HAVE EMANATED FROM REGIONS 3856 (S12W71), 3867 (S13E39)
AND 3870 (N15E64). REGION 3856 CONTINUES TO DECAY AND NOW HAS A
BETA-GAMMA MAGNETIC CONFIGURATION. REGION 3867 CONTINUES TO
SHOW SLIGHT GROWTH. NEW REGIONS NUMBERED THIS PERIOD ARE 3869
AND 3870 WITH AXX AND BXO SPOT CLASSIFICATIONS RESPECTIVELY.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW.
ONLY REGION 3856 APPEARS TO BE CAPABLE OF SIGNIFICANT FLARE
ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. THE LEVEL OF ACTIVITY SHOULD INCREASE TO ACTIVE
CONDITIONS FOR 48 HOURS DUE TO THE INFLUENCE OF A EQUATORIAL
CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN AND A FILAMENT WHICH
DISAPPEARED YESTERDAY. THE FIELD SHOULD RETURN TO UNSETTLED
LEVELS ON THE THIRD DAY OF THE FORECAST.

III. EVENT PROBABILITIES 21 AUG-23 AUG

CLASS M 25/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUG 141

PREDICTED 21 AUG-23 AUG 125/115/110

90 DAY MEAN 20 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 AUG 012/012

ESTIMATED AFR/AP 20 AUG 013/020

PREDICTED AFR/AP 21 AUG-23 AUG 020/030-020/020-015/015

SOLTERWARN

BT