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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 UNSETLED 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

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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 EMINATED 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 AXB 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 UNSETLED. 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 UNSETLED 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

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