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HFUS 1 BOU 041300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 216A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 04 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS
PERIOD DUE TO A M1/SN EVENT FROM REGION 3830 (N17E10) AT
03/1824UT, NO RADIO WAS OBSERVED WITH THIS EVENT. SEVERAL LARGE
C EVENTS HAVE OCCURRED HOWEVER THERE HAS BEEN NO OPTICAL
CORRELATION, A C6 AT 04/0429UT HAD MINOR RADIO 15 FLUX UNITS AT
2695MHZ AND 200 FLUX UNITS AT 8800MHZ. CONTINUED SURGEING IS
REPORTED ON THE LIMB BEHIND REGION 3837 (N10E70) REGION 3829
(S11W10) CONTINUES TO GROW ALTHOUGH MORE SLOWLY.

B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT MODERATE LEVELS DURING THIS FORECAST PERIOD. REGION
3837 CONTINUES TO ROTATE ONTO THE VISIBLE DISK AND ALTHOUGH IT
DOES NOT APPEAR AS ACTIVE AS ITS LAST ROTATION IT STILL SHOULD
BE CAPABLE OF A FEW M CLASS EVENTS AND MAYBE EVEN AN ISOLATED
X EVENT DURING THE FORECAST PERIOD.

REGIONS 3829 AND 3820 ARE ALSO CANDIDATES FOR ISOLATED M
EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO BE
ACTIVE DURING NEXT 24 HOURS THEN UNSETTLED UNTIL 7 AUGUST WHEN
ACTIVE CONDITIONS ARE EXPECTED TO RETURN DUE TO THE EFFECTS OF
A SMALL EQUATORIAL CORONAL HOLE JUST PAST CENTRAL MERIDIAN,
THIS HOLE HAS PRODUCED ACTIVE CONDITIONS DURING ITS LAST THREE
ROTATIONS.

III. EVENT PROBABILITIES 05 AUG-07 AUG

CLASS M 75/75/75

CLASS X 15/15/15

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 AUG 151

ESTIMATED 04 AUG 162

PREDICTED 05 AUG-07 AUG 172/183/191

90 DAY MEAN 03 AUG 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 AUG 032 AP 03 AUG 031

ESTIMATED AFR 03 AUG 026 AFR/AP 04 AUG 013/020

PREDICTED AFR/AP 05 AUG-07 AUG 015/015-012/015-015/020

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HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 216B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 04/2100Z: SOLAR ACTIVITY HAS CONSISTED OF SEVERAL SUBFLARES AND SMALL RADIO BURSTS SINCE 04/1200Z. REGION 3837 (N10E70) CONTINUES TO ROTATE ONTO THE DISK AND IS ALREADY IN EXCESS OF 20 DEGREES IN LENGTH. POINT BRIGHTENINGS AND AN ACTIVE SURGE REGION HAVE CHARACTERIZED THIS REGION'S BEHAVIOR THUS FAR. REGION 3838 (N09E31) RAPIDLY GREW FROM A SMALL A TYPE SPOT YESTERDAY TO A SMALL D TYPE TODAY. REGION 3829 (S11W17) CONTINUES TO SHOW DEVELOPMENT BUT REMAINS BASICALLY A BIPOLAR STRUCTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO INCREASE FROM ITS CURRENT LEVEL OF INFREQUENT M PRODUCTION TO SEVERAL PER DAY. ISOLATED CLASS X ACTIVITY IS BECOMING MORE PROBABLE ALSO.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED THE PAST 9 HOURS. CONDITIONS BORDERING ON ACTIVE SHOULD PREVAIL THROUGH THE NEXT 24 TO 36 HOURS. A FILAMENT DISAPPEARANCE TODAY COULD BE REFLECTED IN THE GEOMAGNETIC FIELD LATE ON 7 OR EARLY ON 8 AUG.

III. EVENT PROBABILITIES 05 AUG-07 AUG

CLASS M 75/75/75

CLASS X 15/15/15

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 AUG 163

PREDICTED 05 AUG-07 AUG 172/183/191

90 DAY MEAN 04 AUG 160

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 AUG 025/031

ESTIMATED AFR/AP 04 AUG 016/020

PREDICTED AFR/AP 05 AUG-07 AUG 015/015-012/015-015/020

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