

HFUS3 BOU 242200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 083

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100
TO 24/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4637 (N07E52)
PRODUCED ARCHED FILAMENT SYSTEMS AND BRIGHT POINTS. BUT NO
SIGNIFICANT EVENTS. IT REMAINED A BETA-TYPE WITH A DKO
WHITE-LIGHT CLASSIFICATION. HAVING ROTATED INTO GOOD VIEWING
POSITION, IT INCREASED VERY LITTLE IN AREA OR OTHER ASPECTS.
THE HORSE-SHOE SHAPED LEADER GROUP CONTAINED ONLY UNIPOLAR
UMBRAE. REGION 4638 (N04W48) EMERGED AS A CRO BETA-TYPE. IT
ALSO PRODUCED ARCHED FILAMENTS AND ONE ACTIVE DISAPPEARING
FILAMENT OF THREE DEGREES (N02W40 AT 24/1430Z) THAT LATER
REAPPEARED (1517Z). NEWLY ASSIGNED REGION 4639 (S07E40) WAS A
BXO BETA-TYPE WITH ARCHED FILAMENTS. BOTH REGIONS 4638 AND 4639
HAD AN AREA OF 20 MILLIONTHS, AN EXTENT OF THREE DEGREES, AND
FOUR SPOTS IN WHITE-LIGHT. A SIX-DEGREE LONG DISAPPEARING
FILAMENT AT S35E23 WAS GONE BY 24/0730Z. REGION 4633 (S12W58)
HAD ANOTHER 14 DEGREE LONG DISAPPEARING FILAMENT AT S18W48 THAT
WAS ALSO GONE BY 0730Z. EARLY IN THE PERIOD AT 23/2141Z. REGION
4636 (S16E21) PRODUCED A B3/0F EVENT. THIS SPOTLESS REGION WAS
ORIGINALLY NUMBERED BECAUSE OF A SUB-FLARE AND HAS NOT
SUSTAINED SPOTS DURING ITS HISTORY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z:
GEOMAGNETIC ACTIVITY WAS QUIET-TO-UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE ACTIVE. STORM CONDITIONS ARE POSSIBLE DUE TO THE
TRIO OF DISAPPEARING FILAMENTS FROM APPROXIMATELY S10W20 ON 21
MAR. THEIR TOTAL LENGTH WAS ABOUT 20 DEGREES AND THE MOST
PROBABLY BEGINNING TIME IS 25 MAR. THE OUTLOOK IS FOR UNSETTLED
TO ACTIVE CONDITIONS.

III. EVENT PROBABILITIES 25 MAR-27 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 080

PREDICTED 25 MAR-27 MAR 080/081/082

90 DAY MEAN 24 MAR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAR 006/011

ESTIMATED AFR/AP 24 MAR 007/015

PREDICTED AFR/AP 25 MAR-27 MAR 019/020-016/015-014/015

SOLTERWARN

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