

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 082

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 23 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100
TO 23/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4637 (N07E65)
ROTATED INTO BETTER VIEW AS A DKO IN WHITE-LIGHT WITH 330
MILLIONTHS OF AREA, SEVEN DEGREES LONGITUDINAL EXTENT, AND SIX
SPOTS. IT WAS A BETA-TYPE DESPITE THE HORSESHOE-SHAPED LEADER
GROUP. IT PRODUCED SEVERAL B-LEVEL X-RAY EVENTS WITH THE
LARGEST BEING A B7/0N AT 23/1615Z. NEWLY ASSIGNED REGION 4638
(N04W35) WAS AN EMERGING ALPHA-TYPE WITH AN ARCHED FILAMENT
SYSTEM IN A SMALL BI-POLAR REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW. REGION 4637 PROVIDES A VERY SLIGHT CHANCE OF
SIGNIFICANT ACTIVITY THE FIRST AND SECOND DAYS (24-25 MAR).

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z:
GEOMAGNETIC ACTIVITY WAS UNSETTLED TO QUIET. ONE PERIOD OF
ACTIVE CONDITIONS AT MID-LATITUDES OCCURRED FROM 23/0130-0430Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE ACTIVE. STORM LEVELS ARE POSSIBLE ON THE FIRST
AND SECOND DAYS (24-24 MAR) DUE TO A TRIO OF DISAPPEARING
FILAMENTS ON 21 MAR. THEY WERE LOCATED APPROXIMATELY AT S10W20
AND TOTALED ABOUT 20 DEGREES IN LENGTH. THESE FILAMENTS WERE
ASSOCIATED WITH REGION 4633 (S12W45) IN ITS DECAYING PHASE WHEN
IT HAD LOST ITS WHITE-LIGHT SPOTS. THE OUTLOOK IS FOR UNSETTLED
CONDITIONS.

III. EVENT PROBABILITIES 24 MAR-26 MAR

CLASS M 05/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 078

PREDICTED 24 MAR-26 MAR 079/080/081

90 DAY MEAN ----- 23 MAR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 MAR 004/008

ESTIMATED AFR/AP 23 MAR 010/012

PREDICTED AFR/AP 24 MAR-26 MAR 019/020-019/020-016/015

SOLTERWARN

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