

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/ON 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 UNSETLED 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 (24-25 MAR) DUE TO A TRIO OF DISAPPEARING FILAMENTS ON 21 MAR. THEY WERE LOCATED APPROXIMATELY AT S10W20 AND TOTLED 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 UNSETLED 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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