

HFUS3 BOU 212200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 326

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 21 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100
TO 21/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4597 (N19W32) AND
4598 (S12E50) PRODUCED A C3 X-RAY EVENT AT 21/1131Z. REGION
4597 APPEARS TO HAVE CONTRIBUTED MORE ENERGY TO THE EVENT
ALTHOUGH ITS OPTICAL FLARE WAS A 0B COMPARED TO REGION 4598'S
1B FLARE. A SMALL CORRELATED RADIO BURST AT 2695MHZ OF 14 SFU
ACCOMPANIED THIS EVENT. REGION 4597 CONTINUED TO GROW IN
WHITE-LIGHT AREA BUT REMAINED A BETA-TYPE DSO CLASSIFICATION.
IT PRODUCED MANY SURGES, ARCHED AND ACTIVE DARK FILAMENTS
THROUGHOUT THE PERIOD. REGION 4598 REACHED AN AREA OF 270
MILLIONTHS BETWEEN ITS SINGLE LEADER AND FOLLOWER SPOTS WITH AN
EHO WHITE-LIGHT CLASSIFICATION. IT REMAINED A BETA-TYPE
MAGNETIC CONFIGURATION. NEW REGION 4599 (S12W25) WAS ASSIGNED
MIDWAY THROUGH THE PERIOD AS A SINGLE ALPHA-TYPE SPOT, BUT WAS
ALMOST GONE BY THE END OF THE PERIOD WITH ONLY A FAINT, LESS
THAN 10 MILLIONTHS AREA UMBRAE VISIBLE. TWO DISAPPEARING
FILAMENTS WERE REPORTED ABSENT BY 21/1210Z: THE FIRST AN EIGHT
DEGREE LONG ONE CENTERED AT S08W19, AND THE SECOND A SIX DEGREE
LONG ONE CENTERED AT S13W27.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW. REGION 4597 STILL PROVIDES A VERY SLIGHT CHANCE OF
SIGNIFICANT ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z:
GEOMAGNETIC ACTIVITY WAS ACTIVE. BRIEF STORM LEVELS WERE
REPORTED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE ACTIVE. BRIEF STORM LEVELS ARE EXPECTED AT HIGH
LATITUDES DURING NIGHT-TIME PERIODS.

III. EVENT PROBABILITIES 22 NOV-24 NOV

CLASS M 01/01/01
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED ----- 21 NOV 080
PREDICTED 22 NOV-24 NOV 081/080/080
90 DAY MEAN 21 NOV 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 NOV 016/021
ESTIMATED AFR/AP 21 NOV 014/020
PREDICTED AFR/AP 22 NOV-24 NOV 013/015-014/015-018/020
SOLTERWARN

BT