

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

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100 TO 21/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4597 (N19W32) AND 4598 (S12E60) 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 DSD 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.

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

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

II B. 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

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