

HFUSS BUU 2222Z

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 327

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4597 (N19W47) PRODUCED A B2/0F EVENT AT 22/1252Z. IT WAS A BETA-TYPE WITH A DAD WHITE-LIGHT CLASSIFICATION. IT CONTINUED WITH ACTIVE DARK AND ARCHED FILAMENTS, POINT BRIGHTENINGS, AND DARK SURGES. REGION 4598 (S12E46) PRODUCED A B3/0F EVENT AT 22/0518Z. A 245MHZ RADIO BURST OF 100 SFU ACCOMPANIED THE EVENT ALONG WITH A TYPE III RADIO SWEEP. THIS REGION INCREASED IN SPOT NUMBER AND ITS CONTINUED ROTATION ONTO THE THE DISK CONFIRMED A BETA-TYPE MAGNETIC CONFIGURATION. IT WAS A EHO CLASSIFICATION IN WHITE-LIGHT. IT PRODUCED DARK FILAMENTS ALONG WITH POINT BRIGHTENINGS. REGION 4599 (S11W37) GREW INTO A BETA-TYPE WITH A SIMPLE BXO CLASSIFICATION IN WHITE-LIGHT. IT ALSO CONTAINED AN ARCHED FILAMENT SYSTEM EARLY AND LATE IN THE PERIOD. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. NO SIGNIFICANT RETURNING REGION IS EXPECTED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: GEOMAGNETIC ACTIVITY WAS ACTIVE. STORM LEVELS WERE REPORTED AT HIGH LATITUDES AT THE START AND MIDWAY THROUGH THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE-TO-MINOR STORM LEVELS. MAJOR STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES, WITH MINOR STORM LEVELS BRIEFLY AT MID-LATITUDES DURING LOCAL MID-NIGHT HOURS, AS THE EFFECTS OF FOUR SEPARATE DISAPPEARING FILAMENTS ON 20 AND 21 NOV IMPACT THE MAGNETOSPHERE. THESE SMALL FILAMENTS' LOCATIONS WERE N20W08/S19W10 AND S08W19/S13W27 RESPECTIVELY. THE TOTAL LENGTH OF 22 DEGREES SHOULD ENHANCE THE NORMALLY UNSETTLE-TO-QUIET LEVELS OF RECURRENT VALUES UP TO AN ACTIVE-TO-OCCASIONALLY STORMY LEVEL DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 23 NOV-25 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 NOV 080

PREDICTED 23 NOV-25 NOV 079/079/079

90 DAY MEAN 22 NOV 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 NOV 015/021

ESTIMATED AFR/AP 22 NOV 014/015

PREDICTED AFR/AP 23 NOV-25 NOV 015/020-019/020-017/015

SOLTERWARN

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