

HFUS3 BOU 182200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 323
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 18 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100 TO 18/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4596 (N07W65) PRODUCED A B3/0F EVENT AT 18/0709Z WITH NO ASSOCIATED RADIO EVENT CORRELATION. IT CONTINUED TO DISPLAY ACTIVE DARK AND ARCHED FILAMENTS THROUGHOUT THE PERIOD. ALTHOUGH IT HAD LITTLE OVERALL CHANGE IN WHITE-LIGHT AREA, SPOT NUMBER, OR EXTENT- ITS PENUMBRA DEVELOPED IN THE TRAILER SPOT TO QUALIFY AS A C3O CLASSIFICATION. IT MAINTAINED ITS SIMPLE BETA-TYPE MAGNETIC CONFIGURATION. REGION 4595 (S06W18) DECAYED TO A SPOTLESS AND FAINT PLAGE WITH A PERSISTENT DARK FILAMENT AS ITS ONLY SIGNIFICANT FEATURE. A 10-15 DEGREE LONG FILAMENT DISAPPEARED FROM N20E80(CAR-097 MID-POINT) BETWEEN 17/1615 AND 2215Z. IT WAS MEDIUM DARKNESS AND AVERAGED 1.5 TO 2.5 DEGREES WIDTH ON EARLIER PHOTOS. AN ACTIVE PROMINENCE REGION AT S13E90 (18/1840Z) EXTENDED TO .13 SOLAR RADII WITH INTENSITY 4 (SLIGHTLY LESS THAN FLARE BRIGHTNESS). NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. RETURNING REGION 4589 (S12. CAR-057) IS PREDICTED TO REAPPEAR AT 19/1700Z AND REGION 4590 (S10. CAR-050) AT 20/0600Z. BOTH PRODUCED ONLY ONE (1) SUB-FLARE WITHOUT X-RAY NOR RADIO CORRELATION LAST ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: GEOMAGNETIC ACTIVITY WAS AT MINOR STORM TO UNSETTLED LEVELS. THE RESTABILAZATION OF THE FIELD FROM THE MAJOR/SEVERE STORM THAT PEAKED ON 17 NOV CONTINUED WITH GENERALLY MINOR STORM LEVELS AT HIGH LATITUDES FROM THE START OF THE PERIOD UNTIL 18/1630Z. THE MID-LATITUDES CORRESPONDINGLY DECREASED FROM A START AT ACTIVE LEVELS TO UNSETTLED CONDITIONS BY 18/1500Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE.

III. EVENT PROBABILITIES 19 NOV-21 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 NOV 073

PREDICTED 19 NOV-21 NOV 073/073/073

90 DAY MEAN 18 NOV 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 NOV 033/037

ESTIMATED AFR/AP 18 NOV 016/023

PREDICTED AFR/AP 19 NOV-21 NOV 015/025-015/025-015/020

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