

HFUS3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 347

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 13 DEC 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100 TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4708 (N04E22) HAS GROWN SLIGHTLY IN EXTENT AND IS NOW A CSO TYPE SPOT GROUP. THIS REVERSED POLARITY SPOT GROUP CONTINUES TO PROVIDE LOW LEVEL FLARE ACTIVITY. NO NEW REGIONS WERE NUMBERED TODAY. THE REST OF THE DISK AND LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN AT MINOR STORM CONDITIONS FOR MOST OF THE PAST 24 HOURS. ACTIVE CONDITIONS PREVAILED EARLY IN THE PERIOD UNTIL 0300 UT 13 DECEMBER. MINOR STORM CONDITIONS AT MIDDLE LATITUDES WITH OCCASIONAL PERIODS OF MAJOR STORM CONDITIONS AT HIGH LATITUDES WERE THEN OBSERVED THROUGH 1800 UT. ACTIVE CONDITIONS CLOSED OUT THE PERIOD. THE DISTURBANCE WAS MOST PROBABLY RELATED TO THE EFFECTS OF A LARGE DISAPPEARING FILAMENT (S30E25, 30 DEGREES) LAST SEEN 09 DECEMBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE GENERALLY ACTIVE FOR THE NEXT 24 HOURS AND UNSETTLED TO ACTIVE FOR THE SUBSEQUENT 24 HOURS. THE LINGERING EFFECTS OF THE DISAPPEARING FILAMENT OF 09 DECEMBER MAY CAUSE OCCASIONAL MINOR STORM CONDITIONS, ESPECIALLY AT HIGH LATITUDES, TO BE OBSERVED DURING THE NEXT 36 HOURS. ACTIVITY LEVELS SHOULD THEN INCREASE TO VERY ACTIVE CONDITIONS ON 16 DECEMBER.

III. EVENT PROBABILITIES 14 DEC-16 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 DEC 078

PREDICTED 14 DEC-16 DEC 077/076/075

90 DAY MEAN 13 DEC 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 DEC 006/008

ESTIMATED AFR/AP 13 DEC 021/030

PREDICTED AFR/AP 14 DEC-16 DEC 015/025-010/015-018/030

SOLTERWARN

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