

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 347

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW DURING THE PAST 24 HOURS. THE VISIBLE DISK HAS TWO SPOTTED REGIONS TODAY. THE LARGEST OF THESE IS REGION 4607 (S12W18) WHICH HAS CONTINUED TO EXHIBIT GROWTH IN SIZE. A FILAMENT LOCATED AT SW31 04 DEGREES LONG DISAPPEARED AROUND 0700Z ON 12 DEC.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY AT ACTIVE LEVELS WITH PERIODS OF MINOR STORM CONDITIONS DURING NIGHTTIME SECTORS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT STORM CONDITIONS FOR THE 13TH AND 14TH OF DEC WHILE THE 15TH SHOULD BE AT ACTIVE TO MINOR STORM CONDITIONS. THE HIGHER LATITUDES SHOULD REMAIN AT STORM CONDITIONS THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY IS DUE TO A RECURRENT HIGH SPEED POSITIVE CORONAL HOLE STREAM.

III. EVENT PROBABILITIES 13 DEC-15 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 DEC 080

PREDICTED 13 DEC-15 DEC 080/080/078

30 DAY MEAN 12 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 DEC 014/020

ESTIMATED AFR/AP 12 DEC 022/025

PREDICTED AFR/AP 13 DEC-15 DEC 070/035-035/040-020/030

BOLTERWARN

BT