

HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 353

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 18 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z TO 18/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL. REGION 4608 (N18W24) IS THE ONLY SPOTTED REGION VISIBLE TODAY AND IT IS DECLINING. MINOR SURGE ACTIVITY WAS REPORTED ON THE SW LIMB ASSOCIATED WITH DEPARTING REGION 4607 (S11W98). THE PLAGE NEAR S15E70, THE REMENANTS OF OLD REGION 4598 (S12, CAR057), IS SCATTERED AND AT INTENSITY TWO. THE FILAMENT NEAR REGION 4608 WHICH DISAPPEARED YESTERDAY HAS REFORMED. NO OTHER SIGNIFICANT ACTIVITY WAS REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT A VERY LOW LEVEL THROUGH THE FORECAST PERIOD. CURRENT DISK REGIONS ARE DECLINING AND NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED. THE ACTIVE CONDITIONS OBSERVED ON 17 DEC SUBSIDED LATE IN THE DAY AND UNSETTLED CONDITIONS WERE OBSERVED ON 18 DEC.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED THROUGH THE FORECAST PERIOD. THERE IS A SLIGHT CHANCE OF ACTIVE CONDITIONS ON 19 AND 20 DEC AS A RESULT OF THE FILAMENT ACTIVITY REPORTED AROUND REGION 4608.

III. EVENT PROBABILITIES 19 DEC-21 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 DEC 073

PREDICTED 19 DEC-21 DEC 073/073/074

90 DAY MEAN 18 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 DEC 023/027

ESTIMATED AFR/AP 18 DEC 010/018

PREDICTED AFR/AP 19 DEC-21 DEC 014/015-011/010-007/010

SOLTERWARN

BT