

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 355

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100
TO 20/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL. REGION
4609 (S12 E34) HAS PRODUCED VERY SMALL FLARES, B CLASS IN
XRAYS. REGION 4609 REMAINS SPOTLESS. THE ONLY SUNSPOT
CURRENTLY VISIBLE IS A SMALL H TYPE IN REGION 4608 (N18 W50).
AN EMERGING FLUX REGION WAS REPORTED NEAR N08 W06 AND A SPOT
WAS SEEN IN THIS AREA AROUND 1500Z. THE REMAINDER OF THE DISK
AND LIMBS ARE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT A VERY LOW LEVEL. NO SIGNIFICANT REGIONS ARE DUE
TO RETURN. THE NEXT REGION SCHEDULED TO RETURN IS REGION 4601
(S06 CAR 344) ON 22 DEC, HOWEVER, IT WAS A VERY SMALL REGION
AND DISAPPEARED BEFORE WEST LIMB PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z:
THE GEOMAGNETIC FIELD WAS BASICALLY QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE QUIET TO UNSETTLED EARLY IN THE PERIOD. THE
FIELD MAY REACH ACTIVE LEVELS BY THE END OF THE PERIOD AS
RESULT OF THE FILAMENT WHICH DISAPPEARED NEAR CM YESTERDAY.

III. EVENT PROBABILITIES 21 DEC-23 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF * GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 DEC 072

PREDICTED 21 DEC-23 DEC 072/072/071

90 DAY MEAN 20 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 DEC 006/009

ESTIMATED AFR/AP 20 DEC 006/009

PREDICTED AFR/AP 21 DEC-23 DEC 007/010-010/010-015/015

SOLTERWARN