

HFUSS BOU 212200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 356

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 21 DEC 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100
TO 21/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4600 (N18 W63)
HAS DECAYED TO AN AXX SPOT GROUP AND HAS BEEN QUIET. REGION
4509 (S13 E23) HAS ONE SMALL SPOT AND HAS REDUCED IT SMALL
FLARE PRODUCTION. EFR HAVE BEEN REPORTED AT VARIOUS TIMES AND
LOCATIONS THROUGH THE DAY BUT NO SPOTS HAVE REMAINED IN THESE
REGIONS. THE LIMBS ARE QUIET.

THERE IS A CORONAL HOLE CENTERED NEAR N20 E50.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN VERY LOW. CURRENT REGIONS ARE DECAYING AND NO
SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. A SUDDEN
IMPULSE WAS OBSERVED AROUND 21/1915Z AND THE FIELD HAS BEEN
UNSETTLED SINCE THAT TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE UNSETTLED TO ACTIVE. THE FILAMENT WHICH
DISAPPEARED ON 19 DEC IS EXPECTED TO BEGIN INFLUENCING THE
FIELD EARLY IN THE PERIOD. THE FIELD IS EXPECTED TO BE BACK TO
UNSETTLED CONDITIONS BY THE END OF THE PERIOD.

III. EVENT PROBABILITIES 22 DEC-24 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DEC 072

PREDICTED 22 DEC-24 DEC 072/071/071

90 DAY MEAN 21 DEC 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 DEC 005/007

ESTIMATED AFR/AP 21 DEC 010/010

PREDICTED AFR/AP 22 DEC-24 DEC 010/015-015/020-010/010

SOLTERWARN

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