

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERV CES CENTER, BOULDER, COLORADO

SDF NUMBER 338

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100
TO 04/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A VERY LOW LEVEL FOR
THE PAST 24 HOUR PERIOD. NO OPTICAL FLARES WERE SEEN AND ONLY
ONE CLASS "B3" X-RAY EVENT AT 04/1611UT HAS OCCURRED. ONE NEW
REGION 4371 (S03E78) WAS ASSIGNED DURING THE PERIOD. IT IS A
BXO WITH ASSOCIATED SURGING NE BEHIND THE LIMB.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO
BE AT A VERY LOW TO LOW LEVEL THROUGH-OUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z:
THE GEOMAGNETIC ACTIVITY HAS BEEN AT QUIET TO UNSETTLED LEVELS
DURING THE PAST 24 HOUR PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE AT AN ACTIVE LEVEL FOR THE FIRST DAY (5
DECEMBER) WITH BRIEF PERIODS OF MINOR STORM ACTIVITY AT HIGH
LATITUDE SITES DURING NIGHT-TIME PERIODS. THE GEOMAGNETIC
ACTIVITY IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS
THROUGH-OUT THE SECOND AND THIRD DAY (6 & 7 DECEMBER) WITH
BRIEF PERIODS OF MAJOR STORM LEVEL ACTIVITY AT HIGH LATITUDE
SITES DURING NIGHT-TIME PERIODS. THIS DISTURBANCE IS
ATTRIBUTED TO RECURRENCE.

III. EVENT PROBABILITIES 05 DEC-07 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 DEC 095

PREDICTED 05 DEC-07 DEC 094/092/091

90 DAY MEAN 04 DEC 104

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 DEC 002/006

ESTIMATED AFR/AP 04 DEC 006/010

PREDICTED AFR/AP 05 DEC-07 DEC 017/020-022/025-024/025

SOLTERWARN

BT

HS

Good