

AFUS3 BDU 082200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 008

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 JAN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100Z TO 08/2100Z: SOLAR ACTIVITY WAS VERY LOW. NEWLY ASSIGNED REGION 4614 (N06E64, CAR-142) WAS INITIALLY SIGHTED AS A BETA-TYPE WITH TWO SPOTS BUT DWINDLED TO AN ALPHA-TYPE BY THE END OF THE PERIOD. REGION 4613 (N07W47, CAR-254) REMAINED ONLY AS A VERY FAINT PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: GEOMAGNETIC ACTIVITY WAS AT UNSETTLED TO MINOR STORM LEVELS. A GRADUAL IMPULSE AT 8/1815Z WAS REPORTED AS MAJOR STORM LEVELS AT HIGH LATITUDES AND MINOR STORM LEVELS AT MID LATITUDES. THIS DISTURBANCE WAS ASSOCIATED WITH THE ICE SATELLITE'S HIGH DENSITIES CHARACTERISTIC OF DISAPPEARING FILAMENT MATERIAL, AND WAS ASSUMED TO BE COINCIDENT WITH THE GLOBAL IMPULSE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS THE FIRST DAY (9 JAN) WITH POTENTIAL MAJOR LEVELS CONTINUING AT HIGH LATITUDES AND MINOR LEVELS AT MID LATITUDES DURING LOCAL MIDNIGHT HOURS. THE SECOND AND THIRD DAYS (10-11 JAN) ARE EXPECTED TO RECOVER FROM THIS FILAMENT MATERIAL-CAUSED DISTURBANCE AND DECREASE TO ACTIVE TO UNSETTLED LEVELS PROGRESSIVELY THROUGH THE PERIOD.

III. EVENT PROBABILITIES 09 JAN-11 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JAN 070

PREDICTED 09 JAN-11 JAN 070/070/070

90 DAY MEAN 08 JAN 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 JAN 004/008

ESTIMATED AFR/AP 08 JAN 012/020

PREDICTED AFR/AP 09 JAN-11 JAN 020/025-016/015-012/015

SOLTERWARN

BT