

HFUS3 BOU 042200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 004
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 04 JAN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THERE ARE NO SPOTS VISIBLE ON THE SOLAR DISK TODAY. A FILAMENT LOCATED NEAR N32-CAR259 HAS DISAPPEARED. CULGOORA REPORTED THE FILAMENT COMPLETELY DISAPPEARED BY 03/2315Z. PALEHUA LAST OBSERVED THE FILAMENT AT 03/2130Z AT WHICH TIME THEY LOST PATROL DUE TO CLOUDS. THIS FILAMENT WAS 22 DEGREES LONG ON YESTERDAYS REPORT AND VANISHED IN LESS THAN 24 HOURS. ANOTHER REPORT OF A FILAMENT 2 DEGREES LONG DISAPPEARED NEAR S05-CAR278 AT 04/1715Z. THE REMAINDER OF THE VISIBLE SOLAR DISK IS QUIET.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY AT QUIET TO UNSETTLED LEVELS AT ALL LATITUDES DURING THE PAST 24 HOURS. THE .5 DB ABSORPTION OBSERVED AT 02/0245Z TO 02/0315Z ON THE THULE RIOMETER APPEARS TO HAVE BEEN IN ERROR. THE 5 PERCENT INCREASE OBSERVED ON THE THULE NEUTRON MONITOR DOES NOT APPEAR TO BE A REAL EVENT. NO OTHER DATA SOURCE CONFIRMS IT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE LEVELS THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY IS EXPECTED DUE TO THE FILAMENT THAT DISAPPEARED ON THE 1ST OF JANUARY AND RECURRENT PATTERNS. THE FILAMENT LOCATED NEAR N32-CAR259 IS NOT EXPECTED TO PRODUCE SIGNIFICANT GEOMAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 05 JAN-07 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JAN 070

PREDICTED 05 JAN-07 JAN 071/071/072

90 DAY MEAN 04 JAN 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 JAN 012/013

ESTIMATED AFR/AP 04 JAN 010/010

PREDICTED AFR/AP 05 JAN-07 JAN 016/020-018/020-020/025

SOLTERWARN

BT