

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 081

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW THE PAST 24 HOURS. REGION 4637 (N07E74) PRODUCED A SUBFAINT OPTICAL FLARE AT 21/2233UT WITH AN ASSOCIATED X-RAY CLASS C2 AND A TYPE II IMPORTANCE TWO RADIO SWEEP AT 21/2232UT. SPOTS HAVE BEEN OBSERVED IN THIS REGION AND IT CURRENTLY SHOWS AN HKX TYPE SPOT GROUP IN WHITE LIGHT WITH AN ALPHA-TYPE MAGNETIC CLASSIFICATION. THE FILAMENT WHICH RUNS THROUGH THE CENTER OF REGION 4633 (S12W33) IS STILL ACTIVE. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. AN INCREASE IN THE PROBABILITY OF M-LEVEL ACTIVITY EXISTS WITH THE PRESENCE OF REGION 4637 ON THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY QUIET TO UNSETTLED FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE THROUGH THE FORECAST PERIOD. THIS ACTIVITY IS BASED ON RECURRENT PATTERNS AND THE POSSIBILITY OF ENHANCEMENT DUE TO THE DISAPPEARING FILAMENTS ON THE 21ST OF MARCH.

III. EVENT PROBABILITIES 23 MAR-25 MAR

CLASS M 05/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAR 076

PREDICTED 23 MAR-25 MAR 076/076/076

90 DAY MEAN 22 MAR 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 MAR 006/007

ESTIMATED AFR/AP 22 MAR 008/009

PREDICTED AFR/AP 23 MAR-25 MAR 015/015-015/015-018/020

SOLTERWARN

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