

HFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 066

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z TO 07/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NO NEW REGIONS HAVE EMERGED ON THE DISK OR ROTATED OVER THE EAST LIMB. THERE ARE NO SIGNIFICANT ACTIVE REGIONS ON THE VISIBLE DISK AND NONE ARE EXPECTED TO RETURN. AN ACTIVE PROMINENCE WAS NOTED ON THE WEST LIMB (N05) EARLY IN THE DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST 24 HOURS AT BOTH MIDDLE AND HIGH LATITUDES. THIS ACTIVITY IS A SLOW DECLINE FROM THE ACTIVE TO STORM LEVEL CONDITIONS EXPERIENCED ON 5 MARCH.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE TOMORROW, MOSTLY UNSETTLED ON 9 MARCH, BUT INCREASING TO GENERALLY ACTIVE CONDITIONS BY THE END OF THE FORECAST PERIOD. THE NEW ACTIVITY IS EXPECTED IN RESPONSE TO REPORTS OF A CORONAL HOLE NEAR CENTRAL MERIDIAN TODAY. THIS CORONAL HOLE IS PRESENT IN DATA FROM FLEURS RADIO OBSERVATORY (AUSTRALIA), HELIUM 10830 IMAGES (KITT PEAK), AND ROTATED CORONAL GREEN LINE PLOTS (SACRAMENTO PEAK).

III. EVENT PROBABILITIES 08 MAR-10 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAR 069

PREDICTED 08 MAR-10 MAR 070/070/070

90 DAY MEAN 07 MAR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 MAR 018/024

ESTIMATED AFR/AP 07 MAR 012/020

PREDICTED AFR/AP 08 MAR-10 MAR 015/020-010/020-015/015

SOLTERWARN

BT