

HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 117

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 APR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4647 (N05W25) CONTINUES TO DECAY ALTHOUGH RETAINING ITS THREATENING CHARACTERISTICS. IT IS STILL AN E TYPE SPOT GROUP WITH A DELTA MAGNETIC CONFIGURATION IN ITS TRAILER PORTION. THE SEGMENTED PLAGE REMAINS MODERATELY BRIGHT AND THE MAGNETIC GRADIENT IS .25 G/KM. NO SIGNIFICANT FLARE ACTIVITY HAS BEEN REPORTED TODAY. THERE ARE NO OTHER SPOTTED REGIONS ON THE VISIBLE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT LOW TO MODERATE LEVELS DURING THE NEXT 24 HOURS. ALTHOUGH THE XRAY BACKGROUND LEVEL HAS DECLINED SHARPLY, AN ISOLATED MAJOR EVENT IS POSSIBLE FROM REGION 4647.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR TO MAJOR STORM LEVELS AT MID AND HIGH LATITUDES DURING NIGHTTIME HOURS. ACTIVE TO MINOR STORM CONDITIONS HAVE DOMINATED DAYLIGHT HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE WITH OCCASIONAL MINOR STORM CONDITIONS DURING THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 26 APR-30 APR

CLASS M 15/25/25

CLASS X 15/15/15

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 APR 080

PREDICTED 28 APR-30 APR 075/073/071

90 DAY MEAN 27 APR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 APR 026/041

ESTIMATED AFR/AP 27 APR 025/035

PREDICTED AFR/AP 28 APR-30 APR 018/025-014/020-013/020

SOLTERWARN

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