

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 113

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 APR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE LARGEST EVENT WAS A LONG LIVED C3/SF FLARE FROM REGION 4647 (N05E30). THE X-RAYS FROM THIS EVENT MAXED AT 1903, BUT REMAINED ABOVE THE C2 LEVEL THROUGH 2100Z. RADIO NOISE STORMS AT 245, 410, AND 610 MHZ WERE OBSERVED TODAY WITH THE LARGEST PEAK OF 500 S-U AT 410 MHZ AT 2027Z. REGION 4647 REMAINS THE ONLY SPOTTED REGION ON THE DISK. IT IS NOW AN EKI GROUP WITH A WHITE LIGHT AREA OF ABOUT 840 MILLIONTHS OF THE DISK. MAGNETICALLY IT IS A BETA-GAMMA-DELTA REGION AND HAS HAD A DELTA CONFIGURATION IN BOTH THE LEADER AND TRAILER PENUMBRA, BUT ONLY THE LEADER DELTA REMAINS AT THIS TIME. THE MAGNETIC GRADIENT WAS MEASURED AT .37 AT 1615Z TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGHOUT THE FORECAST PERIOD. REGION 4647 HAS THE POTENTIAL FOR PRODUCING M CLASS EVENTS, AND MAY PRODUCE ISOLATED X CLASS ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE, WITH SOME MINOR STORM LEVELS AT HIGH LATITUDES AROUND 1800Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 APR-26 APR

CLASS M 85/70/50

CLASS X 15/10/05

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 APR 092

PREDICTED 24 APR-26 APR 100/105/103

90 DAY MEAN 23 APR 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 APR 014/018

ESTIMATED AFR/AP 23 APR 014/020

PREDICTED AFR/AP 24 APR-26 APR 013/020-009/015-008/015

SOLTERWARN

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