

HFUS 3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 121

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100 TO 30/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD WITH TWO M CLASS EVENTS (BOTH FROM 4474 S13W35) THE LARGEST A M2/2B AT 1132UT ONLY MINOR RADIO WAS REPORTED WITH BOTH EVENTS.

REGION 4474 CONTINUES TO EXHIBIT MINOR SIZE DECAY AND SOME DECREASE IN MAGNETIC GRADIENT. REGION 4476 (S12W06) HAS BEEN STABLE DURING THIS PERIOD. NO NEW REGIONS WERE OBSERVED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTE TO BE AT A MODERATE LEVEL DURING THIS FORECAST PERIOD. REGION 4474 IS EXPECTED TO BE THE MAIN PRODUCER OF M CLASS EVENTS WITH REGION 4476 HAVING A CHANCE FOR ISOLATED M EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE PAST 24 HOURS. THE PROTON EVENT CONTINUES IN PROGRESS WITH 12 PARTICLES (AT SATELLITE ALTITUDES) AT GREATER THAN 10MEV/CM²/SEC/STER OBSERVED AT 30/2000UT. AGAIN ONLY POLAR CROWN CORONAL HOLES HAVE BEEN INFERRED TODAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT GENERALLY UNSETTLED TO SLIGHTLY ACTIVE LEVELS DURING THIS FORECAST PERIOD. THE PROTON EVENT IS EXPECTED TO END DURING THE NEXT 12 HOURS.

III. EVENT PROBABILITIES 01 MAY-03 MAY

CLASS M 80/70/70

CLASS X 10/05/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 APR 168

PREDICTED 01 MAY-03 MAY 160/150/145

90 DAY MEAN 30 APR 131

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 APR 015/020

ESTIMATED AFR/AP 30 APR 012/015

PREDICTED AFR/AP 01 MAY-03 MAY 012/020-015/020-010/015

SOLTERWARN

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