

HFUS 3 90U 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
BT