

HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 145

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY CONTINUED LOW DURING THE PAST 24 HOURS WITH A C7/1N FROM REGION 4492 (S10W08) AT 0950UT, ONLY MINOR RADIO WAS OBSERVED WITH THE EVENT. REGION 4492 HAS BEEN GENERALLY STABLE IN SIZE THIS PERIOD HOWEVER THE DELTA MAGNETIC CONFIGURATION APPEARS TO HAVE DISAPPEARED. THE REST OF THE REGIONS HAVE EXHIBITED LITTLE CHANGE THIS PERIOD. NEW REGION TODAY 4497 (N05W01) A SIMPLE A TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL DURING THE REST OF THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS AT ACTIVE TO UNSETTLED LEVELS UNTIL 0800UT WHEN THE FIELD RETURNED TO ACTIVE LEVELS, THE HIGH LATITUDE SITES HAD PERIODS OF MAJOR STORM LEVELS AFTER 1500UT. AN INCREASE IN PROTON PARTICLES, AT SATELLITE ALTITUDES, WAS OBSERVED TO BEGIN AT 1025UT AND REACHED EVENT LEVEL OF 10 PARTICLES AT GREATER THAN 10MEV/ SEC/CM2/STER AT 1045UT THIS EVENT REACHED MAXIMUM OF 31 PARTICLES AT GREATER THAN 10MEV/SEC/CM2/STER AT 1140UT, THE EVENT REMAINS IN PROGRESS. THE PARTICLE EVENT WAS CONFINED TO THE VERY LOW ENERGY END OF THE SPECTRUM. THIS PARTICLE EVENT IS THOUGHT TO BE FROM THE M6 X RAY EVENT OF 22 MAY AT 1450UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT MINOR STORM TO ACTIVE LEVELS DURING THE FIRST HALF OF THE FORECAST PERIOD THEN GENERALLY ACTIVE FOR THE REST OF THE PERIOD. THE PROTON EVENT SHOULD END DURING THE NEXT SIX HOURS.

III. EVENT PROBABILITIES 25 MAY-27 MAY

CLASS M 30/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAY 124

PREDICTED 25 MAY-27 MAY 123/115/110

90 DAY MEAN 24 MAY 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAY 031/040

ESTIMATED AFR/AP 24 MAY 025/033

PREDICTED AFR/AP 25 MAY-27 MAY 030/030-020/020-015/015

SOLTERWARN

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