

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 146

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 MAY 1983

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY OCCASIONAL LOW LEVEL CLASS C FLARES OCCURRING. REGION 4187 (S17W01) HAS DECAYED AS RAPIDLY TODAY AS IT HAD GROWN YESTERDAY. THIS REGION, AS WELL AS ALL OTHER DISK REGIONS, ARE SIMPLE IN MAGNETIC STRUCTURE. REGION 4196 (S09E69) ROTATED ON TO THE DISK TODAY BUT CONTAINS ONLY TWO SPOTS AND AN AVERAGE PLAGE. REGIONS 4195 (S05E03) AND 4197 (N20W27) HAVE EMERGED TODAY. THE SUN CURRENTLY IS MARKED BY NUMEROUS SMALL, SIMPLY SPOTTED REGIONS.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II A. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED.

II B. GEOPHYSICAL ACTIVITY FORECAST: THE EXPECTED CORONAL HOLE EFFECTS HAVE NOT MATERIALIZED. THE FILAMENT WHICH DISAPPEARED ON 23 MAY WAS EAST AND SOUTH OF THE CORONAL HOLE. IT IS NOW FELT THAT THE MASS FROM THIS FILAMENT WILL NOT ENTER THE ECLIPTIC PLANE. UNSETTLED FIELD CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD, BUT SHORT PERIODS OF ACTIVE CONDITIONS CAN BE EXPECTED AT HIGHER LATITUDES.

III. EVENT PROBABILITIES 27 MAY-29 MAY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 129

PREDICTED 27 MAY-29 MAY 126/123/120

90 DAY MEAN 26 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 MAY 012/016

ESTIMATED AFR/AP 26 MAY 007/010

PREDICTED AFR/AP 27 MAY-29 MAY 012/020-012/015-012/015

SOLTERWARN

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