

HFUS3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 206

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100 TO 25/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THERE ARE ONLY TWO SPOTTED REGIONS ON THE DISK. REGION 4678 (S12E10) HAS DECAYED TO A SIMPLE AXG GROUP. REGION 4679 (N02W07), WHICH IS A SMALL BXG GROUP, WAS NUMBERED TODAY. REGION 4677 (S13W38) IS A SPOTLESS PLAGE. THIS REGION HAD A 14 DEGREE ACTIVE DARK FILAMENT THAT DISAPPEARED BY 1750Z TODAY. A SMALL 6 DEGREE LONG FILAMENT DISAPPEARED FROM S14W10 ON THE 23RD AND 24TH OF JULY, BUT THE REPORTS ONLY REACHED US TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. THE ACTIVE REGION COMPLEX OF 4671/4672 (S16L001), THAT PRODUCED TWO XRAY M CLASS FLARES LAST ROTATION IS DUE BACK ON THE 27TH. IF THESE REGIONS HAVE RETAINED THEIR COMPLEXITY THE PROBABILITIES MAY HAVE TO BE RAISED SLIGHTLY ON THE THIRD DAY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED AT MID-LATITUDES, AND GENERALLY ACTIVE WITH SOME PERIODS OF MINOR STORM LEVELS AT HIGH LATITUDES.

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

THE FILAMENT THAT DISAPPEARED ON THE 23RD AND 24TH IS NOT EXPECTED TO PRODUCE MUCH ACTIVITY. THE FILAMENT THAT DISAPPEARED FROM REGION 4677 TODAY MAY CAUSE A SLIGHT ENHANCEMENT ON THE 28TH.

III. EVENT PROBABILITIES 26 JUL-28 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JUL 073

PREDICTED 26 JUL-28 JUL 075/076/079

90 DAY MEAN 25 JUL 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 JUL 015/018

ESTIMATED AFR/AP 25 JUL 013/020

PREDICTED AFR/AP 26 JUL-28 JUL 012/015-010/015-010/015

SOLTERWARN

BT