

FD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 244

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 SEP 1987

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. NEW REGION 4849 (S21E68) ROTATED ONTO THE DISK AS AN H-TYPE SPOT OVER THE PAST 24 HOURS. THE REMAINDER OF THE REGION SHOULD COME INTO VIEW BY TOMORROW. THIS REGION HAS NOT PRODUCED ANY X-RAY FLARE ACTIVITY SINCE THE C6/BRIGHT SURGE YESTERDAY. REGION 4848 (S23E49) HAS BEEN THE MOST ACTIVE REGION, PRODUCING TWO C-CLASS FLARES SINCE YESTERDAY. THE LARGEST WAS A C6/1N MAXING AT 01/1550UT. THIS FLARE PARTIALLY DISRUPTED THE REGION'S INVERSION LINE FILAMENT AND WAS ASSOCIATED WITH MINOR RADIO ACTIVITY. OTHER REGIONS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. ADDITIONAL C-CLASS FLARES ARE EXPECTED FROM REGIONS 4848 AND 4849. THERE IS A REMOTE CHANCE OF MODERATE ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS BEEN AT UNSETTLED TO ACTIVE LEVELS FOR THE PAST 24 HOURS. THE HIGH LATITUDE FIELD WAS MOSTLY AT MINOR TO MAJOR STORM LEVELS. SEVERE STORM CONDITIONS WERE EXPERIENCED FROM 0300-0730UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED TO ACTIVE. STORM CONDITIONS ARE POSSIBLE AT HIGHER LATITUDES.

III. EVENT PROBABILITIES 02 SEP-04 SEP

CLASS M 05/05/05

CLASS X 01/01/01

OTTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 SEP 086

PREDICTED 02 SEP-04 SEP 088/090/092

90 DAY MEAN 01 SEP 085

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 AUG 033/058

ESTIMATED AFR/AP 01 SEP 025/065

PREDICTED AFR/AP 02 SEP-04 SEP 015/030-010/015-010/015