

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/19/87 00:00:00

End : 09/19/87 23:59:00

09/19 22:00

2201

HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 262

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100Z TO 19/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4853 (S32W51) PRODUCED ONLY SMALL SUBFLARES DURING THE PERIOD AND IS GRADUALLY DECAYING. REGION 4857 (S30W15) ALSO PRODUCED SUBFLARES AND BEGAN TO SHOW SOME GROWTH TOWARD THE END OF THE PERIOD. REGION 4856 (S27E35) PRODUCED A SINGLE SUBFLARE. THE REMAINDER OF THE SOLAR DISK WAS STABLE AND QUIET. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET WITH PERIODS OF UNSETTLED CONDITIONS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS FOR THE NEXT THREE DAYS. HIGH LATITUDE STATIONS ARE EXPECTED TO EXPERIENCE PERIODS OF MAJOR STORM CONDITIONS ON 21-22 SEPTEMBER. THE INCREASE OF ACTIVITY IS EXPECTED BECAUSE OF THE 30 DEGREE APPEARING FILAMENT EVENT ON 17 SEPTEMBER AND THE C2-CORONAL MASS EJECTION FLARE AT S27E63 ON 17 SEPTEMBER.

III. EVENT PROBABILITIES 20 SEP-22 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 SEP 082

PREDICTED 20 SEP-22 SEP 082/083/083

90 DAY MEAN 19 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 SEP 007/016

ESTIMATED AFR/AP 19 SEP 005/012

PREDICTED AFR/AP 20 SEP-22 SEP 028/036-032/050-025/050

NNNN

<003>