

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/03/87 00:00:00

End : 08/03/87 23:59:00

08/03 22:00

2201

HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 215

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. A C3.6 X-RAY FLARE OCCURRED AT 0015UT AND WAS CORRELATED WITH CORONAL OBSERVATIONS OF MASS EJECTION FROM REGION 4827 (S21) ON THE WEST LIMB. REGION 4835 (S24E32) SLOWED FROM ITS EARLY GROWTH RATE AND BEGAN TO SHOW SOME DECAY LATE IN THE PERIOD. REGION 4834(N17W43) CONTINUED TO GRADUALLY DECREASE IN AREA AND SPOTS. THE REMAINING REGIONS WERE QUIET AND GENERALLY DECLINING. NO NEW REGIONS WERE NUMBERED.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED EARLY IN THE PERIOD AND BECAME UNSETTLED TO ACTIVE WITH PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES FOR THE REMAINDER OF THE DAY. THIS ACTIVITY IS PROBABLY DUE TO THE FILAMENT/FLARE EVENT OF 01 AUGUST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR 04-05 AUGUST PRIMARILY DUE TO A RECURRENT CORONAL HOLE EXTENDING NORTHWARD FROM THE SUN'S SOUTH POLE. SOME ADDITIONAL EFFECTS FROM THE PREVIOUSLY MENTIONED FLARE/FILAMENT EVENT MAY ALSO CONTRIBUTE TO ACTIVITY FOR THE FIRST DAY. CONDITIONS ARE EXPECTED TO RETURN TO UNSETTLED LEVELS FOR 06 AUGUST.

III. EVENT PROBABILITIES 04 AUG-06 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 AUG 085

PREDICTED 04 AUG-06 AUG 084/082/082

90 DAY MEAN 03 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 AUG 005/012

ESTIMATED AFR/AP 03 AUG 015/024

PREDICTED AFR/AP 04 AUG-06 AUG 015/020-010/016-010/014

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