

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/12/87 00:00:00

End : 09/12/87 23:59:00

09/12 22:00

2201

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 255

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4849 (S22W72) PRODUCED ONLY ONE SIGNIFICANT SUB-FLARE: A C7/OF EVENT WITHOUT ANY RADIO PARAMETERS. IT CONTINUED TO DECAY VERY SLOWLY. REGION 4851'S (S27W10) HYDER-FLARE YESTERDAY (11/1904Z) WAS ACCOMPANIED BY A FIVE DEGREE LONG DISAPPEARING FILAMENT AS WELL AS A TYPE II RADIO SWEEP. THIS EVENT OCCURRED TOO LATE YESTERDAY TO ENTER ALL PERTINENT DATA IN THE SUMMARY. NEWLY ASSIGNED REGION 4854 (N23E25) WAS A SIMPLE ALPHA TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4849 PROVIDES A VERY SLIGHT CHANCE OF MODERATE ACTIVITY. IT IS EXPECTED TO CONTINUE TO DECAY VERY SLOWLY AS IT APPROACHES AND CROSSES THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD WAS MOSTLY ACTIVE. OCCASIONAL STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES, AND ONE ISOLATED MINOR STORM CONDITION OCCURRED AT MIDDLE LATITUDES EARLY IN THE PERIOD. THIS RESTABILIZATION PHASE OF THE STORM, THAT STARTED AT 10/1135Z WITH A SUDDEN STORM COMMENCEMENT, IS SLOWLY DIMINISHING. THE DISTURBANCE WAS PROBABLY ASSOCIATED WITH AN EXTENSION OF THE NORTHERN POLAR CROWN CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE TO UNSETTLED. INTERMITTENT STORM CONDITIONS ARE EXPECTED AT HIGH LATITUDES THE FIRST HALF OF THE PERIOD AS THE CURRENT RESTABILIZATION CONTINUES. THE HYDER-FLARE OF 11/1855Z MAY ALSO PRODUCE SOME BRIEF FIELD DISTURBANCES.

III. EVENT PROBABILITIES 13 SEP-15 SEP

CLASS M 10/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 SEP 090

PREDICTED 13 SEP-15 SEP 087/085/084

90 DAY MEAN 12 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 SEP 040/076

ESTIMATED AFR/AP 12 SEP 017/040

PREDICTED AFR/AP 13 SEP-15 SEP 012/035-008/030-008/020

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