

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/10/87 00:00:00

End : 09/10/87 23:59:00

09/10 22:00

2201

HFUS3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 253

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100Z TO 10/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4849 (S23W45) CONTINUED TO SLOWLY DECAY IN MOST ASPECTS. NEWLY ASSIGNED REGION 4853 (S32E64) ROTATED ONTO THE DISK. IT MAY BE MORE COMPLICATED THAN ITS CURRENT HSX CLASSIFICATION DUE TO CURVATURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4849 PROVIDES A VERY SLIGHT CHANCE OF POSSIBLE PROTON PRODUCING FLARES. IT IS EXPECTED TO CONTINUE TO DECAY VERY SLOWLY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO QUIET THE FIRST HALF OF THE PERIOD. A SUDDEN IMPULSE WAS OBSERVED AT 10/1135Z. SUBSEQUENT MAJOR TO MINOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES WITH AN ISOLATED MINOR STORM INTERVAL AT MIDDLE LATITUDES. THIS DISTURBANCE IS PROBABLY A RECURRENT PATTERN MOST LIKELY ASSOCIATED WITH AN EXTENSION OF THE NORTH POLAR CROWN CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE THE FIRST HALF OF THE PERIOD. STORM CONDITIONS WILL PROBABLY RECUR AT HIGH LATITUDES. THE LAST HALF IS EXPECTED TO DECREASE BACK DOWN TO ACTIVE TO UNSETTLED LEVELS.

III. EVENT PROBABILITIES 11 SEP-13 SEP

CLASS M 20/15/10

CLASS X 01/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEP 097

PREDICTED 11 SEP-13 SEP 094/091/089

90 DAY MEAN 10 SEP 086

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 SEP 009/017

ESTIMATED AFR/AP 10 SEP 018/025

PREDICTED AFR/AP 11 SEP-13 SEP 018/025-016/022-014/022

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