

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/12/87 00:00:00

End : 11/12/87 23:59:00

11/12 22:00

2203

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 316

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 NOV 1987

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW TO LOW. REGION 4890 (S25E69) HAS PRODUCED FIVE C CLASS SUBFLARES SINCE 1300Z THROUGH THE END OF THE PERIOD, THE LARGEST BEING A C2.4 AT 2037Z. THE REGION HAS A LARGE ASSYMETRIC LEADER PENUMBRA ENCLOSING SEVERAL UMBRAE. SMALL TRAILER SPOTS HAVE ALSO BEEN OBSERVED. MAGNETIC ANALYSIS INDICATE A BETA MAGNETIC CLASS WITH A FAIRLY SIMPLE NORTH-SOUTH INVERSION LINE BETWEEN THE LEADER AND FOLLOWER SPOTS. REGION 4885 (N32W87) DISPLAYED SOME VARIABILITY AND PRODUCED A SUBFLARE DURING THE PERIOD AS IT APPROACHES THE LIMB. THE FILAMENT THAT DISAPPEARED AS REPORTED YESTERDAY APPEARS TO BE REFORMING AT THIS TIME. THE REMAINDER OF THE SOLAR DISK WAS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH A CHANCE FOR MODERATE ACTIVITY OUT OF REGION 4890.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED TO ACTIVE WITH A BRIEF PERIOD OF MINOR STORM CONDITIONS FROM 00-03Z ON 12 NOVEMBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED WITH OCCASIONAL ACTIVE PERIODS.

III. EVENT PROBABILITIES 13 NOV-15 NOV

CLASS M 20/20/20

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 NOV 095

PREDICTED 13 NOV-15 NOV 097/098/099

90 DAY MEAN 12 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 NOV 013/021

ESTIMATED AFR/AP 12 NOV 019/023

PREDICTED AFR/AP 13 NOV-15 NOV 012/019-010/022-012/015

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