

SESC Solar Summary and Forecast - For Joe Hirman

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

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

11/11 22:00

2P02

HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 315

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. AN ERUPTIVE PROMINENCE WAS OBSERVED ON THE WEST LIMB AT N34 BEGINNING AT 10/2104Z AND ENDING AT ABOUT 10/2215Z AFTER EXTENDING OUT TO .35 RADII. A C1.2 FLARE OCCURED AT 0510Z BUT WAS NOT OBSERVED OPTICALLY. A B9.8 SUBFLARE WAS OBSERVED AT 1251Z IN THE VICINITY (N18E08) WHERE A 14 DEGREE FILAMENT DISAPPEARED OVERNIGHT, SUGGESTING SOME CORRELATION. REGION 4885 (N32W76) SHOWED CONTINUED GROWTH AND REEMERGENCE OF SPOTS AND PRODUCED A FEW SUBFLARES. AN IMPRESSIVE NEW REGION 4890 (S26E78) ROTATED ONTO THE DISK TODAY. THE REGION APPEARS TO BE A FAIRLY LARGE BIPOLEAR GROUP WITH ASYMMETRIC PENUMBRA AND HAS PRODUCED SEVERAL SUBFLARES. THE OTHER REGIONS WERE QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. REGION 4890 IS EXPECTED TO PRODUCE SOME C-FLARES AND MAY PRODUCE M-CLASS FLARE ACTIVITY. THERE IS A CHANCE FOR CONTINUED SMALL FLARES FROM REGION 4885 AS IT ROTATES ON THE SOLAR DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED. A PERIOD OF SLIGHTLY ACTIVE CONDITIONS AT MID-LATITUDES AND ACTIVE TO MINOR STORM CONDITIONS AT HIGH LATITUDES OCCURRED FROM APPROXIMATELY 0300-1200Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED WITH OCCASIONAL PERIODS OF ACTIVE CONDITIONS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 12 NOV-14 NOV

CLASS M 15/20/20

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 NOV 095

PREDICTED 12 NOV-14 NOV 097/098/099

90 DAY MEAN 11 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 NOV 009/018

ESTIMATED AFR/AP 11 NOV 016/022

PREDICTED AFR/AP 12 NOV-14 NOV 016/023-012/019-010/022

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