

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/21/87 00:00:00

End : 11/21/87 23:59:00

11/21 22:00

2229

HFUS3 BOU 212200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 325

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100Z TO 21/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4891 (S21E08) HAS PRODUCED TWO M-CLASS X-RAY EVENTS. AN M1/1N AT 20/2344Z AND AN M3/2B AT 21/1808Z. BOTH OF THESE EVENTS WERE ACCCOMPANIED BY DISCRETE FREQUENCY RADIO BURSTS AND TYPE II AND TYPE IV RADIO SWEEP EMISSIONS. NEW REGION 4895 (N30E80) IS THE RETURN OF OLD REGION 4875 (CLASS/AREA EAI/350 ON 29 OCTOBER). THIS REGION IS SHOWING FACULAE AND SURGING. NO CONFIRMED SPOTS DURING ANALYSIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 4890, 4891 AND 4895 ALL SHOW POTENTIAL TO SIGNIFICANTLY INCREASE THE ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED AT MID-LATITUDES. HIGH LATITUDES HAVE EXPERIENCED UNSETLED TO ACTIVE CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETLED AT MID-LATITUDES. HIGH LATITUDES EXPECT UNSETLED TO ACTIVE CONDITIONS.

III. EVENT PROBABILITIES 22 NOV-24 NOV

CLASS M 40/40/40

CLASS X 05/05/05

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 NOV 118

PREDICTED 22 NOV-24 NOV 119/120/120

90 DAY MEAN 21 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 NOV 008/015

ESTIMATED AFR/AP 21 NOV 009/013

PREDICTED AFR/AP 22 NOV-24 NOV 010/025-015/030-015/030

NNNN

<003>