

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 02/03/86 00:00:00

End : 02/03/86 23:59:00

02/03 22:00

2213

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 034

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 FEB 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. REGION 4711 (S08E24) HAS GROWN TO 700 MILLIONTHS OF THE DISK. THIS REGION IS A MAGNETICALLY COMPLEX DKC/BETA-DELTA TYPE SPOT GROUP. REGION 4712 (S04W58) HAS GROWN SLIGHTLY AND IS A CSI TYPE SPOT GROUP. NEW REGION 4713 (S02E69) HAS DEVELOPED FROM A SMALL PLAGE AREA THAT ROTATED ONTO THE DISK YESTERDAY AND IS A BXO TYPE SPOT GROUP. A FLARE WAS ASSOCIATED WITH REGION 4711 WHICH REACHED MAXIMUM AT 2048 UT 03 FEB 86. THE X-RAY/OPTICAL CLS WAS M2/1B. NUMEROUS DISCRETE FREQUENCY RADIO BURSTS AND TYPE III RADIO SWEEPS HAVE BEEN RECORDED. THE 10CM SOLAR FLUX (2800 MHZ) IS AT ITS HIGHEST VALUE SINCE 09 JUN 85. THE REST OF THE DISK AND LIMBS HAVE BEEN RELATIVELY QUIET AND FEATURELESS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT THREE DAYS. MAJOR FLARE ACTIVITY IS LIKELY TO OCCUR IN REGION 4711. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z:

GEOMAGNETIC ACTIVITY HAS BEEN MOSTLY QUIET FOR THE PAST 24

HOURS. OCCASIONAL UNSETTLED CONDITIONS HAVE BEEN OBSERVED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE QUIET FOR THE NEXT 48 HOURS AND ACTIVE FOR THE SUBSEQUENT 24 HOURS. THE INCREASE IN ACTIVITY ON 06 FEB 86 IS FORECAST ON THE BASIS OF THE EXPECTED GEOMAGNETIC EFFECTS OF AN 8 DEGREE LONG FILAMENT WHICH DISAPPEARED FROM NEAR REGION 4711 ON 02 FEB 86.

III. EVENT PROBABILITIES 04 FEB-06 FEB

CLASS M 60/40/20

CLASS X 10/10/05

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 FEB 099

PREDICTED 04 FEB-06 FEB 105/108/105

90 DAY MEAN 03 FEB 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 FEB 005/007

ESTIMATED AFR/AP 03 FEB 006/010

PREDICTED AFR/AP 04 FEB-06 FEB 005/010-005/010-015/020

SOLTERWARN

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