

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 02/27/86 00:00:00

: 02/27/86 23:59:00

02/27 22:00

2144

HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 058

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 FEB 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. PLAGE REGION 4715 (S13E66) WAS NUMBERED LATE ON 26 FEB. IT IS THE REMNANT OF OLD REGION 4711. REGION 4715 SUSTAINED A CORONAL MASS EJECTION ACCCOMPANIED BY A LOW INTENSITY/LONG DURATION X-RAY EVENT. THE X-RAY INTENSITY WAS B2 AND THE BEGIN-END TIME WAS 0900-2200UT 26 FEB. NEW REGION 4716 (N02W18) EMERGED NORTH OF PLAGE REGION 4714 (S02W29). REGION 4716 IS A CRO TYPE SPOT GROUP WITH A BETA MAGNETIC CONFIGURATION. THE REST OF THE DISK AND LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. REGION 4713 IS DUE TO RETURN 01 MAR. THIS REGION WAS A DKO TYPE SPOT GROUP WITH 690 MILLIONTHS AREA ON 11 FEB. IT SHOULD REAPPEAR AT LATITUDE S01 AND CARRINGTON LONGITUDE 019 AND MAY PRODUCE MINOR FLARE ACTIVITY. NO OTHER REGIONS ARE DUE TO RETURN.

IC. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: MAGNETIC ACTIVITY HAS BEEN ACTIVE WITH PERIODS OF STORM CONDITIONS. OCCASIONAL PERIODS OF MAJOR TO SEVERE STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT 24 HOURS AND ACTIVE WITH PERIODS OF STORM CONDITIONS FOR THE SUBSEQUENT 48 HOURS.

III. EVENT PROBABILITIES 28 FEB-02 MAR:

CLASS M 10/10/10

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 FEB 077

PREDICTED 28 FEB-02 MAR 080/083/086

90 DAY MEAN 27 FEB 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 FEB 020/032

ESTIMATED AFR/AP 27 FEB 020/025

PREDICTED AFR/AP 28 FEB-02 MAR 012/015-020/020-018/020

SOLTERWARN

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