

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 ACCOMPANIED 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 CRD 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.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z:
GEOGRAPHIC 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
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