

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 02/26/86 00:00:00

End : 02/26/86 23:59:00

02/26 22:00

2157

HFUS3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 057

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 FEB 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. A 9-DEGREE FILAMENT IN PLAGE REGION 4714 (S02W16) DISAPPEARED OVERNIGHT. ENHANCED CALCIUM EMISSION AT THE EAST LIMB AND A SLOW RISE IN X-RAY FLUX ARE EVIDENCE FOR THE REAPPEARANCE OF REGIONS 4711 (S09, L-61 CLASS/AREA DKC/700 ON 02 FEB) AND 4713 (S01, L-19 CLASS/AREA DKO/690 ON 11 FEB). A PROMINENCE AND PLAGE WERE ALSO OBSERVED ON THE EAST LIMB AND ARE ATTRIBUTED TO THE RETURN OF REGION 4711 AT S09. THE REST OF THE DISK AND LIMBS WERE QUIET. THE RETURN OF REGION 4713 WAS ERRONEOUSLY REPORTED ON SDF 056 (25 FEB) AS OCCURRING 26 FEB. REGION 4713 IS DUE TO RETURN ON 01 MAR.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. REGION 4713 IS EXPECTED TO PRODUCE MINOR FLARE ACTIVITY AS IT ROTATES ONTO THE DISK. NO OTHER REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN AT ACTIVE TO MINOR STORM LEVELS FOR THE PAST 24 HOURS. ACTIVITY LEVELS INCREASED TO MAJOR STORM CONDITIONS AT HIGH LATITUDES AFTER 0730 UT 26 FEB AND MINOR STORM CONDITIONS FOLLOWED AT MIDDLE LATITUDES AFTER 1500 UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO CONTINUE ACTIVE WITH PERIODS OF STORM CONDITIONS FOR THE NEXT 24 HOURS. A BRIEF PERIOD OF UNSETTLED CONDITIONS WILL ENSUE ON 28 FEB. A RETURN TO AN ACTIVE FIELD WITH BRIEF STORM CONDITIONS WILL OCCUR 01 MAR FROM THE EFFECTS OF THE FILAMENT DISAPPEARANCE EARLY ON 26 FEB.

III. EVENT PROBABILITIES 27 FEB-01 MAR

CLASS M 05/10/15

CLASS X 01/01/02

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 FEB 074

PREDICTED 27 FEB-01 MAR 078/082/086

90 DAY MEAN 26 FEB 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 FEB 017/021

ESTIMATED AFR/AP 26 FEB 021/032

PREDICTED AFR/AP 27 FEB-01 MAR 020/025-012/015-020/020

SOLTERWARN

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