

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/23/87 00:00:00

End : 03/23/87 23:59:00

03/23 22:00

2200

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 082

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 MAR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z

TO 23/2100Z: SOLAR ACTIVITY CONTINUES VERY LOW. A LONG DURATION X-RAY EVENT BEGAN ABOUT 1730Z TODAY AND HAS YET TO END. THIS IS IN CONJUNCTION WITH THE DISAPPEARANCE OF A 15 DEGREE-LONG FILAMENT FROM S29W32, AND A SUB-FAINT OPTICAL FLARE IN REGION 4779 (S36W30) AT 1836Z. THE HIGHEST X-RAY LEVEL ATTAINED WAS A MODEST B1.4. ELSEWHERE, NEWLY ASSIGNED REGION 4782 (N05W27) CONSISTS OF A SINGLE SPOT, AND REGION 4781 (N23W43) HAS 7 SPOTS AND AN ARCH-FILAMENT SYSTEM.

SURGING HAS BEEN NOTED ON THE WEST LIMB NEAR S30.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO MILDLY ACTIVE. HIGH LATITUDES EXPERIENCED MINOR STORM CONDITIONS EARLY IN THE PERIOD.

IB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS ON 24 MARCH DUE TO FILAMENT DISAPPEARANCES ON 19 MARCH. THE DISTURBANCE SHOULD WEAKEN TO UNSETTLED TO ACTIVE CONDITIONS THE LAST TWO DAYS OF THE INTERVAL.

III. EVENT PROBABILITIES 24 MAR-26 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 076

PREDICTED 24 MAR-26 MAR 076/075/075

90 DAY MEAN 23 MAR 072

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 MAR 016/019

ESTIMATED AFR/AP 23 MAR 010/014

PREDICTED AFR/AP 24 MAR-26 MAR 015/030-010/020-010/015

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