

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/17/86 00:00:00

End : 05/17/86 23:59:00

05/17 22:00

2131

HFUS3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 137

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100 TO 17/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4729 (N04E40) REMAINS THE MOST SIGNIFICANT REGION ON THE DISK WITH A CRD SPOT GROUP. A NEW REGION WAS NUMBERED TODAY AS REGION 4730 (N05E65). THIS REGION CONTAINS A SIMPLE B-TYPE SPOT GROUP. THREE FILAMENTS APPEARED TO ERUPT TODAY: A SIX DEGREE FILAMENT (S02E03) AT AROUND 0320UT, AN 18 DEGREE FILAMENT (S35E23) AT AROUND 0724 UT, AND A TEN DEGREE FILAMENT (N47E02) AT AROUND 1500 UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. AN INCREASE IN ACTIVITY IS EXPECTED SOMETIME ON THE LAST TWO DAYS OF THE FORECAST PERIOD. THIS FORECAST IS BASED ON A POSSIBLE 105 DAY PERIODICITY IN ACTIVITY (RELATIVE TO THE PRECEEDING AND FOLLOWING TWO OR THREE ROTATIONS).

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED TO ACTIVE, WITH OCCASSIONAL PERIODS OF MINOR STORM LEVELS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON THE 18TH, AND ACTIVE TO MINOR STORM ON THE 19TH AND 20TH. THIS FORECAST IS BASED ON THE RECENTLY OBSERVED FILAMENT ACTIVITY, AND THE POSSIBILITY OF CORONAL HOLE EFFECTS ON THE 20TH.

III. EVENT PROBABILITIES 18 MAY-20 MAY

CLASS M 05/10/20

CLASS X 01/02/04

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 MAY 074

PREDICTED 18 MAY-20 MAY 077/080/086

90 DAY MEAN 17 MAY 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 MAY 008/015

ESTIMATED AFR/AP 17 MAY 012/017

PREDICTED AFR/AP 18 MAY-20 MAY 015/020-020/022-020/027

SOLTERWARN

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