

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/20/86 00:00:00

End : 05/20/86 23:59:00

05/20 22:00

2120

US3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 140

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4729 (N04W00) HAS CONTINUED A SLOW DECREASE IN SPOTS AND AREA. IT IS NOW AN HSX-ALPHA SPOT GROUP. SOME OCCASIONAL POINT BRIGHTENINGS AND A 3 DEGREE DISAPPEARING FILAMENT (NOB10 AT 1725Z) OCCURRED DURING THE PERIOD. OTHERWISE, THE REGION HAS BEEN QUIET. REGION 4731 (N06E55) IS NOW A DSO-BETA SPOT GROUP. IT HAS NOT SHOWN ANY SIGNIFICANT CHANGES DURING THE LAST 24 HOURS. THE REGION CONTINUES TO HAVE SOME FLARING, BOTH IN OPTICAL AND X-RAY, BUT NO MAJOR OCCURRENCES HAVE BEEN OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. THERE ARE SOME MINOR INDICATIONS THAT REGION 4731 IS GAINING STRENGTH, BUT AT THIS TIME SERIOUS ENERGETIC ACTIVITY IS ONLY A WEAK POSSIBILITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE PREVIOUS 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT GENERALLY ACTIVE LEVELS FOR THE NEXT THREE DAYS. THERE IS A POSSIBILITY OF MINOR STORM CONDITIONS OCCURRING ON 21 MAY.

III. EVENT PROBABILITIES 21 MAY-23 MAY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 078

PREDICTED 21 MAY-23 MAY 080/083/084

90 DAY MEAN 20 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 MAY 010/014

ESTIMATED AFR/AP 20 MAY 008/010

PREDICTED AFR/AP 21 MAY-23 MAY 020/035-015/020-013/020

SOLTERWARN

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