

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/15/86 00:00:00

End : 05/15/86 23:59:00

05/15 22:00

2136

RFUS3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 135

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4729 (N04E66) WAS NUMBERED TODAY AS A CAD TYPE SPOT GROUP WITH A BETA MAGNETIC CLASSIFICATION. IT DEVELOPED ON THE DISK LATE YESTERDAY. ONLY MINOR FLARE ACTIVITY WAS OBSERVED. AN 18 DEGREE FILAMENT DISAPPEARED OVERNIGHT NEAR S30E51.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. REGION 4727 (N07, L-83 CLASS/AREA DR0/O80 ON 24 APRIL) IS DUE TO RETURN AT APPROXIMATELY MID-DAY ON 17 MAY. THIS REGION PRODUCED SEVERAL MINOR FLARES ON THE LAST SOLAR ROTATION. REGION 4729 AND RETURNING REGION 4727 ARE NOT EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY ON THE CURRENT ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO UNSETTLED FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE FOR THE NEXT 48 HOURS AND QUIET TO UNSETTLED FOR THE SUBSEQUENT 24 HOURS. A SHORT-LIVED GEOMAGNETIC DISTURBANCE IS FORECAST FOR 16-17 MAY ON THE BASIS OF A SMALL CORONAL HOLE NEAR THE SUBEARTH POINT ON 13 MAY (IRON XIV DATA) AND AN ANTICIPATED 50 PERCENT INCREASE IN THE SOLAR WIND SPEED BEGINNING 16 MAY (INTERPLANETARY SCINTILLATION DATA.)

III. EVENT PROBABILITIES 16 MAY-18 MAY

CLASS M 10/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 MAY 071

PREDICTED 16 MAY-18 MAY 072/073/074

90 DAY MEAN 15 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 MAY 003/008

ESTIMATED AFR/AP 15 MAY 006/009

PREDICTED AFR/AP 16 MAY-18 MAY 012/018-010/015-005/010

SOLTERWARN

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