

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/16/86 00:00:00

End : 05/16/86 23:59:00

05/16 22:00

2123

US3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 136

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4729 (N04E53) IS A STABLE CRO TYPE SPOT GROUP WITH A BETA MAGNETIC CLASSIFICATION. ONLY MINOR FLARE ACTIVITY WAS OBSERVED. NO NEW REGIONS WERE NUMBERED TODAY, BUT SURGING AT THE NORTHEAST LIMB (REPORTED AT FORECAST TIME), MAY BE A RETURNING REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. REGION 4727 (N07, L-83 CLASS/AREA DRO/O80 ON 24 APRIL) IS DUE TO RETURN AT MIDDAY ON 17 MAY. NEITHER RETURNING REGION 4727 NOR REGION 4729 ARE EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED AT MIDDLE LATITUDES AND ACTIVE AT HIGH LATITUDES FOR THE PAST 24 HOURS. PERIODS OF MINOR STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES. THE HIGH LATITUDE MINOR STORM CONDITIONS ARE LIKELY THE EFFECTS OF A CORONAL HOLE WHOSE TRANSEQUATORIAL EXTENSION PASSED THE CENTRAL SOLAR MERIDIAN 13 MAY (IRON XIV EMISSION DATA).

IB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO CONTINUE GENERALLY UNSETTLED AT MIDDLE LATITUDES (ACTIVE AT HIGH LATITUDES) FOR THE NEXT TWO DAYS, AND ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED AT ALL LATITUDES ON THE THIRD DAY. AN 18 DEGREE FILAMENT, WHICH DISAPPEARED 15-16 MAY NEAR S30E51, IS EXPECTED TO BE GEODEFFECTIVE BEGINNING 19 MAY.

III. EVENT PROBABILITIES 17 MAY-19 MAY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 MAY 073

PREDICTED 17 MAY-19 MAY 074/075/076

90 DAY MEAN 16 MAY 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 MAY 004/008

ESTIMATED AFR/AP 16 MAY 010/018

PREDICTED AFR/AP 17 MAY-19 MAY 010/017-012/020-015/022

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