

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/19/86 00:00:00

End : 05/19/86 23:59:00

05/19 22:00

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 139

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY WAS VERY LOW DURING THE PAST 24 HOURS. REGION 4729 (N04E13) HAS BEEN STABLE AND QUIET DURING THE PERIOD. ONLY MINOR PLAGE FLUCTUATIONS WERE OBSERVED. REGION 4731 (N06E67) HAS ROTATED ON THE DISK AND IS CLASSIFIED AS A DSD-BETA GROUP. WHILE THIS REGION HAS ONLY PRODUCED SUBFLARES AT THIS TIME, DURING THE PREVIOUS ROTATION IT WAS ACTIVE WITH M-CLASS X-RAYS. REPORTS INDICATE SURGING AND PLAGE ENHANCEMENT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THE FORECAST PERIOD. HOWEVER, AS REGION 4731 CONTINUES ACROSS THE DISK THE POSSIBILITY OF AN INCREASE TO LOW OR EVEN MODERATE DOES EXIST.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE PAST 24 HOURS. SOME ACTIVE CONDITIONS WERE OBSERVED AT HIGH LATITUDES EARLY IN THE PERIOD AND STORM LEVELS WERE REACHED JUST PRIOR TO THIS REPORT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS WITH BRIEF PERIODS OF STORM CONDITIONS AT HIGH LATITUDES ON 20 AND 21 MAY. THE FINAL DAY OF THE FORECAST PERIOD IS EXPECTED TO BE UNSETTLED TO ACTIVE. THE PRIMARY REASONS FOR THE CONDITIONS OF THE FIRST TWO DAYS CAN STILL BE ATTRIBUTED TO THE INDICES DISCUSSED IN THE REPORTS OF 17 AND 18 MAY.

III. EVENT PROBABILITIES 20 MAY-22 MAY

CLASS M 05/10/10

CLASS X 01/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MAY 077

PREDICTED 20 MAY-22 MAY 078/080/083

90 DAY MEAN 19 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 MAY 005/012

ESTIMATED AFR/AP 19 MAY 013/020

PREDICTED AFR/AP 20 MAY-22 MAY 015/020-020/025-013/018

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