

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/07/86 00:00:00

End : 03/07/86 23:59:00

03/07 22:00

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HFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 066

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 MAR 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 4717 (S02W14) HAS CONTINUED TO PRODUCE B AND C CLASS X-RAY EVENTS DURING THE PERIOD, BUT, WITH LESS FREQUENCY AND INTENSITY. THIS DAI BETA-GAMMA REGION CONTINUES TO EXHIBIT DECAY IN AREA AND SPOTS. HOWEVER, IT REMAINS A POTENTIAL ENERGETIC EVENT PRODUCER AS WAS SHOWN YESTERDAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW FOR THE FORECAST PERIOD. EVEN CONSIDERING THE APPARENT DECLINE OF REGION 4717, CONTINUATION OF OPTICAL AND X-RAY ACTIVITY IS EXPECTED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM TO ACTIVE LEVELS DURING THE PAST 24 HOURS. PERIODS OF MAJOR STORM LEVELS, MOSTLY AT HIGH LATITUDES, WERE OBSERVED DURING THE PERIOD. THE PROTON EVENT THAT WAS COVERED IN YESTERDAYS REPORT ENDED AT 06/2340 UT. THE MAXIMUM FLUX WAS 21P/CM<sup>2</sup>-STER-S AT 06/1930 UT.

IB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD. MAJOR STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES DURING THE SAME TIME FRAME. ON THE THIRD DAY OF THE PERIOD, THE FIELD IS EXPECTED TO DECREASE TO ACTIVE LEVELS. THE CONTINUED SIGNIFICANT ACTIVITY FROM REGION 4717, COMBINED WITH A POSSIBLE CORONAL HOLE CROSSING CENTRAL MERIDIAN, IS THE PRIMARY REASONING BEHIND THE FORECAST.

III. EVENT PROBABILITIES 08 MAR-10 MAR

CLASS M 30/30/30

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAR 089

PREDICTED 08 MAR-10 MAR 089/089/088

90 DAY MEAN 07 MAR 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 MAR 029/041

ESTIMATED AFR/AP 07 MAR 023/030

PREDICTED AFR/AP 08 MAR-10 MAR 025/030-028/030-015/020

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