

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 02/09/86 00:00:00

End : 02/09/86 23:59:00

09 22:00

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HFUS3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 040

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 FEB 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100 TO 09/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4711 (S09W57) IS A DAD/BETA SPOT GROUP THAT HAS BECOME SOMEWHAT QUIET IN THE PAST 24 HOURS. THERE HAVE BEEN A FEW SUBFLARES AND OCCASIONAL X-RAY FLARES IN THE B-CLASS, BUT NOTHING SIGNIFICANT. THE REGION HAS CONTINUED TO DECAY IN BOTH WHITE LIGHT AND H-ALPHA. REGION 4713 (S01W13) CONTINUES TO GROW SLOWLY. IT IS NOW A SPOT GROUP WITH AN EAD/BETA CLASSIFICATION. THE REGION HAS SHOWN SOME GRADIENT TIGHTENING AND POINT BRIGHTENINGS, BUT NO SIGNIFICANT OPTICAL OR X-RAY FLARES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT 24 HOURS. WHILE BOTH REGIONS STILL HAVE THE ABILITY FOR SIGNIFICANT ACTIVITY, THERE ARE PRESENTLY NO INDICATIONS THAT LEAD TO AN INCREASE IN ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MAJOR STORM LEVELS AT BOTH MID AND HIGH LATITUDES DURING THE PAST 24 HOURS. THE FLARING ACTIVITY OF THE PREVIOUS FEW DAYS THAT HAS BEEN INFLUENCING THE FIELD CONTINUES AT PRESENT TIME AT A SOMEWHAT LESSER AMPLITUDE.

IIIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT MAJOR TO MINOR STORM LEVELS FOR THE NEXT 12 HOURS THEN DROP INTO MINOR STORM TO HIGH ACTIVE LEVELS THE SECOND 12 HOURS. THE SECOND DAY OF THE FORECAST PERIOD IS EXPECTED TO AT ACTIVE LEVELS WITH THE THIRD DAY DECREASING FURTHER TO UNSETTLED TO ACTIVE LEVELS. THE DECREASE IN ACTIVITY IS DUE TO A DRAMATIC DROP IN EVENT FLARING. THE MAJOR EVENTS THAT INITIATED THE HIGHLY ACTIVE FIELD HAS NOT OCCURRED SINCE 06 FEB.

III. EVENT PROBABILITIES 10 FEB-12 FEB

CLASS M 05/05/05

CLASS X 02/02/02

PROTON 01/01/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEB 095

PREDICTED 10 FEB-12 FEB 092/092/090

90 DAY MEAN 09 FEB 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 FEB 298/236

ESTIMATED AFR/AP 09 FEB 070/100

PREDICTED AFR/AP 10 FEB-12 FEB 025/030-018/020-013/015

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