

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/22/87 00:00:00

End : 09/22/87 23:59:00

09/22 22:00

2246

HFUSS BOU 222200 RTD
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 265

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4853 (S32W86) IS ROTATING QUIETLY OFF THE SOLAR DISK. REGION 4857 (S30W56) IS SHOWING SOME GRADUAL DECAY AND WAS QUIET. THE OTHER NUMBERED REGIONS WERE STABLE AND QUIET. A 23 DEGREE FILAMENT LOCATED TO THE NORTHEAST OF REGION 4855 (N13E05) DISAPPEARED. THERE WAS NO CORRESPONDING TYPE II RADIO SWEEP OR LONG DURATION X-RAY EVENT TO INDICATE TRANSIT THROUGH THE CORONA. A SMALL AXB SUNSPOT ROTATED ONTO THE DISK AND IS LOCATED AT ABOUT S22E72, BUT FAILED TO MEET SESC CRITERIA FOR NUMBERING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED TO ACTIVE UNTIL ABOUT 1500Z WHEN MINOR STORM CONDITIONS BEGAN. THIS ACTIVITY COULD BE REASONABLY ASSOCIATED WITH 17 SEPTEMBER'S DISAPPEARING FILAMENT ACTIVITY OR THE CORONAL MASS EJECTION FLARE IN REGION 4856 WHICH OCCURRED ON THE SAME DAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS FOR 23 SEPTEMBER, AND IS EXPECTED TO BE AT PREDOMINANTLY MINOR STORM LEVELS AT ALL LATITUDES FOR 24-25 SEPTEMBER. THIS FORECAST IS PRIMARILY BASED ON THE SERIES OF FILAMENTS THAT DISAPPEARED BETWEEN 20-21 SEPTEMBER.

III. EVENT PROBABILITIES 23 SEP-25 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 SEP 081

PREDICTED 23 SEP-25 SEP 080/080/080

90 DAY MEAN 22 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 SEP 009/012

ESTIMATED AFR/AP 22 SEP 020/025

PREDICTED AFR/AP 23 SEP-25 SEP 023/030-035/040-035/040

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09/22 22:00

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