

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/01/87 00:00:00

End : 09/01/87 23:59:00

09/01 00:55

0059

HFUS3 BOU 010055 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

:::::::::::: C O R R E C T E D C O P Y ::::::::::::

SDF NUMBER 243

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 31 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z TO 31/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE MOST SIGNIFICANT ACTIVITY DURING THE PAST 24 HOURS WAS A B6 X-RAY EVENT WITH EMISSION AT 2695 MHZ OF 540 SFU. THIS ACTIVITY WAS CORRELATED WITH A BRIGHT SURGE FROM BEHIND THE EAST LIMB NEAR SE23. NEW REGION 4848 (S24E63) EMERGED AS A SMALL BIPOLAR SPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. THERE IS THE PROSPECT OF AN INCREASE IN M-CLASS ACTIVITY AS CALCIUM XV (YELLOW LINE) EMISSION WAS OBSERVED AT EAST LIMB NEAR THE LOCATION OF THE BRIGHT SURGING WHICH OCCURRED EARLIER TODAY. SPOTS ARE YET TO BE OBSERVED AT THIS LOCATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM CONDITIONS AT MID-LATITUDES. HIGH LATITUDE ACTIVITY FLUCTUATED ABOUT MINOR STORM THRESHOLDS WITH SEVERE STORM CONDITIONS OBSERVED FROM 0600-1030Z. THIS DISTURBANCE IS LIKELY THE RESULT OF TWO WELL-POSITIONED CORONAL HOLES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED TO ACTIVE THROUGHOUT THE PERIOD. EPISODES OF MINOR STORM CONDITIONS ARE LIKELY AT HIGH LATITUDE SITES EARLY IN THE INTERVAL.

III. EVENT PROBABILITIES 01 SEP-03 SEP

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 AUG 082

PREDICTED 01 SEP-03 SEP 084/086/088

90 DAY MEAN 31 AUG 085

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 AUG 015/027

ESTIMATED AFR/AP 31 AUG 030/062

PREDICTED AFR/AP 01 SEP-03 SEP 015/034-010/018-010/015

NNNN

<003>

09/01 22:00

2218

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/31/87 00:00:00

End : 08/31/87 23:59:00

08/31 22:00

2214

HFUS3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER WYN:

NNNN

<003>

08/31 22:00

2232

HFUS3 BOU 312200 COR

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ESTIMATED AFR/AP 31 AUG 030/062

PREDICTED AFR/AP 01 AUG-03 SEP 015/034-010/018-010/015

NNNN

3>
08/31 22:13

2216

HFUS3 BOU 312213

243

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

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