

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/03/87 00:00:00

End : 10/03/87 23:59:00

10/03 22:00

2201

HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 276

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 OCT 1987

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4859 (S24E07) CONTINUED AS THE MOST ACTIVE REGION BY PRODUCING A C1/1F FLARE AT 1659 UT. DURING THE FLARE, AN 8 DEGREE LONG PORTION OF A FILAMENT WHICH RAN THROUGH THE REGION WAS REPORTED TO HAVE DISAPPEARED. REGION 4860 (N31E19) INCREASED THE NUMBER OF ASSOCIATED SPOTS TO 23 AND REMAINED FAIRLY QUIET THROUGH THE PERIOD. REGION 4861 (N34E60) REMAINED STABLE THROUGH THE PERIOD. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4860 IS EXPECTED TO CONTINUE ITS GROWTH AND MAINTAIN ITS HIGH FLARE POTENTIAL. REGION 4859 IS EXPECTED TO REMAIN A Viable FLARE PRODUCER.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO ACTIVE LEVELS FOR THE PAST 24 HOURS. MINOR/MAJOR STORM CONDITIONS OCCURRED AT BOTH MIDDLE AND HIGH LATITUDES DURING THE SECOND HALF OF THE SUMMARY PERIOD.

IB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE AT MID-LATITUDES AND AT MINOR STORM LEVELS AT HIGH LATITUDES THE FIRST DAY OF THE PERIOD. DURING THE REMAINDER OF THE PERIOD, THE FIELD IS EXPECTED TO BE AT UNSETTLED CONDITIONS AT MID-LATITUDES AND AT ACTIVE CONDITIONS AT HIGH LATITUDES.

III. EVENT PROBABILITIES 04 OCT-06 OCT

CLASS M 02/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 OCT 086

PREDICTED 04 OCT-06 OCT 087/088/089

90 DAY MEAN 03 OCT 088

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 OCT 007/013

ESTIMATED AFR/AP 03 OCT 027/040

PREDICTED AFR/AP 04 OCT-06 OCT 020/030-015/025-015/020

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10/03 22:00

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HFUS3 BOU 032200 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

::::::CORRECTED COPY::::::

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I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100Z

03/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4859 (S24E07) CONTINUED AS THE MOST ACTIVE REGION BY PRODUCING A C1/1F FLARE AT 1659 UT. DURING THE FLARE, AN 8 DEGREE LONG PORTION OF A FILAMENT WHICH RAN THROUGH THE REGION WAS REPORTED TO HAVE DISAPPEARED. REGION 4860 (N31E19) INCREASED THE NUMBER OF ASSOCIATED SPOTS TO 23 AND REMAINED FAIRLY QUIET THROUGH THE PERIOD. REGION 4862 (N34E60) REMAINED STABLE THROUGH THE PERIOD. NO NEW REGIONS WERE NUMBERED.

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