

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/02/87 00:00:00

End : 08/02/87 23:59:00

08/02 22:00

2200

HFUS3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 214

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100Z

TO 02/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4835

(S24E46) GREW QUICKLY, DEVELOPING RUDIMENTARY PENUMBRA IN

BOTH TRAILER AND LEADER. THE REGION HAD AN ARCH-FILAMENT SYSTEM

AND PRODUCED SOME VERY SMALL SUBFLARES. REGION 4827 (S20W90)

PRODUCED SUBFLARE AND SURGING ACTIVITY LATE IN THE PERIOD WHILE

ROTATING OFF THE LIMB. A NEW REGION 4836 (N22E03) EMERGED TODAY

AS A SMALL UNIPOLAR SUNSPOT. REGION 4834 (N17W30) SHOWED SOME

DECAY OF PENUMBRA IN BOTH LEADER AND TRAILER SPOTS BUT WAS QUIET

AND STABLE AS WERE THE REMAINING NUMBERED REGIONS.

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

VERY LOW. SMALL FLARES MAY OCCUR IN REGIONS 4835 AND 4834 DURING

THE PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE UNSETTLED FOR 03 AUGUST, BECOMING UNSETTLED TO

ACTIVE FOR 04-05 AUGUST. THE INCREASE IN ACTIVITY IS FORECAST

CAUSE OF THE FLARE/FILAMENT ACTIVITY ON 01 AUGUST AND BECAUSE

OF EXPECTED RECURRENT EFFECTS.

III. EVENT PROBABILITIES 03 AUG-05 AUG

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 AUG 087

PREDICTED 03 AUG-05 AUG 084/084/082

90 DAY MEAN 02 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 AUG 011/024

ESTIMATED AFR/AP 02 AUG 005/012

PREDICTED AFR/AP 03 AUG-05 AUG 008/011-012/020-012/016

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08/02 22:00

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HFUS3 BOU 022200 COR

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IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. SMALL FLARES MAY OCCUR IN REGIONS 4835 AND 4834 DURING THE PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED FOR 03 AUGUST, BECOMING UNSETTLED TO ACTIVE FOR 04-05 AUGUST. THE INCREASE IN ACTIVITY IS FORECAST BECAUSE OF THE FLARE/FILAMENT ACTIVITY ON 01 AUGUST AND BECAUSE OF EXPECTED RECURRENT EFFECTS.

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