

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/04/87 00:00:00

End : 10/04/87 23:59:00

10/04 22:00

2200

HFUS3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 277

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 OCT 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100Z TO 04/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4860 (N31E08) GREW IN MOST ASPECTS, AND PRODUCED A FEW SUBFLARES WITH NO RADIO NOR OTHER SIGNIFICANT PARAMETERS. IT WAS THE PRIMARY CONTRIBUTOR OF MOST MEASURED ENERGY ABOVE BACKGROUND VALUES. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4860 PROVIDES A VERY SLIGHT CHANCE OF MODERATE ACTIVITY. IT IS EXPECTED TO CONTINUE TO EVOLVE, PEAK OUT, AND THEN START TO DECAY DURING THE PERIOD. RETURNING REGION 4853 IS EXPECTED BACK ON THE SECOND DAY (6 OCT). IT PRODUCED MODERATE (M-LEVEL X-RAY) ACTIVITY WHEN IT WAS ON DISK LAST.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR STORM TO ACTIVE LEVELS. MAJOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES VERY EARLY IN THE PERIOD. THIS DISTURBANCE STARTED WITH A GRADUAL COMMENCEMENT AT 3/0400Z, PEAKED WITH A MINOR STORM PERIOD AT MID-LATITUDES AND CORRESPONDING MAJOR STORM CONDITIONS AT HIGH LATITUDES LATE ON 3 OCT, AND ENDED LATE IN TODAY'S PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE TO UNSETTLED THE FIRST HALF OF THE PERIOD AS THE FIELD RECOVERS. A DISTURBANCE COMMENCEMENT IS EXPECTED LATE ON THE SECOND DAY (6 OCT), BASED ON A RECURRENT PATTERN. ACTIVE TO MINOR STORM LEVELS, WITH BRIEF MAJOR STORM PERIODS NEAR LOCAL MIDNIGHT, ARE EXPECTED THE LAST HALF OF THE PERIOD.

III. EVENT PROBABILITIES 05 OCT-07 OCT

CLASS M 05/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 OCT 089

PREDICTED 05 OCT-07 OCT 090/089/088

90 DAY MEAN 04 OCT 088

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 OCT 027/043

ESTIMATED AFR/AP 04 OCT 016/035

PREDICTED AFR/AP 05 OCT-07 OCT 012/025-016/020-021/030

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