

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/09/87 00:00:00

End : 04/09/87 23:59:00

04/09 22:00

32

HFUS3 BOU 092200 RTD  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 099

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100Z TO 09/2100Z: SOLAR ACTIVITY WAS LOW. SEVERAL MINOR FLARES OCCURRED IN REGION 4787 (S33E37) AS IT APPARENTLY IS STILL FORMING TRAILING SPOTS DIRECTLY SOUTH OF THE LEADER SPOT OF REGION 4790 (S30E40). THESE TWO REGIONS ARE ALMOST MERGED IN STRUCTURE BUT STILL RETAIN THE 'NEW CYCLE' POLARITY OF SAME-POLE LEADER IN AN ALMOST WEST-TO-EAST CONFIGURATION. WITH REGION 4790'S LEADER DIRECTLY NORTH OF THE TRAILER OF REGION 4787, THE SUBSEQUENT SHEAR HAS CONTRIBUTED TO NUMEROUS EVENTS AND THIS SPECIFIC AREA CONTAINS MODERATE POTENTIAL FOR ACTIVITY. REGION 4786 (S23W06) DECAYED SLIGHTLY IN MOST PARAMETERS. REGION 4789 (S06E51) PRODUCED A FEW FLARES INCLUDING THE MOST SIGNIFICANT EVENT OF THE PERIOD: C2/1N WITH MAX AT 09/0647Z. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4787 (AND STACKED REGION 4790) PROVIDE A FAIR CHANCE OF MODERATE ACTIVITY. A VERY SLIGHT TO SLIGHT CHANCE OF A PROTON FLARE CONTINUES AS THE REGIONS APPROACH CENTRAL MERIDIAN.

IC. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 10 APR-12 APR

CLASS M 40/40/40

CLASS X 04/04/04

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APR 100

PREDICTED 10 APR-12 APR 100/101/099

90 DAY MEAN 09 APR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 APR 010/012

ESTIMATED AFR/AP 09 APR 008/012

PREDICTED AFR/AP 10 APR-12 APR 013/015-013/015-013/015

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