

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/13/87 00:00:00

End : 04/13/87 23:59:00

04/13 22:00

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HFUS3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 103

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ACCORDING TO THE LATEST REPORTS, REGION COMPLEX 4790 IS ACTUALLY THREE SEPERATE AND DISTINCT REGIONS. HOWEVER, WITH THE DIFFICULTY OF FOLLOWING THIS COMPLEX AT THE OBSERVING SITES, THE CURRENT METHOD OF ANALYSIS USING REGION 4787 (S33W14) AND 4790 (S32W04) WILL CONTINUE. WHILE THESE TWO REGIONS REMAIN AS POTENTIAL SIGNIFICANT EVENT PRODUCERS, THE ACTIVITY LEVELS HAVE SHOWN A DECREASE. REGION 4790 DOES STILL EXHIBIT A COMPLEXITY IN THE CENTRAL PORTION OF THE REGION THAT BEARS CONSIDERATION FOR SIGNIFICANT EVENT POTENTIAL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGIONS 4790 AND 4787 ARE THE MAIN REGIONS TO MONITOR AS THEY STILL PROVIDE A FAIR CHANCE OF AT LEAST MODERATE ACTIVITY. A SLIGHT CHANCE OF X-LEVEL AND PROTON FLARES EXIST, ESPECIALLY IN REGION 4790.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO UNSETTLED UNTIL 13/1800Z WHEN ACTIVE TO MINOR STORM LEVELS WERE REACHED. THE SOURCE OF THE DISTURBANCE IS UNKNOWN AT THIS TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE ON 14 APRIL. THERE IS A POSSIBILITY OF PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES. THE REMAINING TWO DAYS OF THE FORECAST ARE EXPECTED TO BE UNSETTLED.

III. EVENT PROBABILITIES 14 APR-16 APR

CLASS M 20/20/20

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APR 099

PREDICTED 14 APR-16 APR 097/096/095

90 DAY MEAN 13 APR 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 APR 005/007

ESTIMATED AFR/AP 13 APR 015/017

PREDICTED AFR/AP 14 APR-16 APR 015/020-010/011-010/014

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