

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/17/87 00:00:00

End : 04/17/87 23:59:00

04/17 22:00

05

HFUSS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 7

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04/17 22:00

2212

HFUSS BOU 172200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 107

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION COMPLEX 4787/4790 (S32W63) HAS ONLY PRODUCED A FEW SMALL SUBFARES AND C-CLASS X-RAY BURSTS SINCE THE LONG DURATION M1/1B EVENT OF YESTERDAY. LITTLE CHANGE HAS BEEN NOTED IN WHITE LIGHT OR H-ALPHA DURING THE PAST 24 HOURS. OTHER REGIONS HAVE SHOWN DECAY OR LITTLE CHANGE. NEW REGION 4793 (N28W40) EMERGED AS AN A-TYPE SPOT TODAY. AN ACTIVE SURGE REGION NEAR NE25 MAY MARK THE APPEARANCE OF A NEW REGION. NO SPOTS ARE YET VISIBLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. AN ISOLATED M-CLASS X-RAY EVENT IS POSSIBLE FROM THE 4787/4790 REGION COMPLEX.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MIDDLE LATITUDES. THE HIGH LATITUDE FIELD HAS BEEN MOSTLY QUIET WITH PERIODS OF UNSETTLED CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE FIRST TWO DAYS OF THE PERIOD. MINOR STORM CONDITIONS ARE EXPECTED THE THIRD DAY AS A RESULT OF THE M1/1B (16/1616Z) EVENT FROM REGIONS 4787/4790. ANALYSIS OF THE EVENT SUGGESTS THAT THE ARRIVAL OF THE DISTURBANCE WILL BE LATER THAN ORIGINALLY THOUGHT.

III. EVENT PROBABILITIES 18 APR-20 APR

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 APR 097

PREDICTED 18 APR-20 APR 094/090/086

90 DAY MEAN 17 APR 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 APR 004/006

ESTIMATED AFR/AP 17 APR 0000/010

PREDICTED AFR/AP 18 APR-20 APR 010/012-010/015-030/035

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