

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/05/87 00:00:00

End : 09/05/87 23:59:00

09/05 22:00

2202

HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 248

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100Z

TO 05/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION

4849 (S22E19, EAI/BETA) IS THE ONLY INTERESTING REGION ON

THE DISK AT THE PRESENT TIME. THE REGION CONTINUES TO

DISPLAY SPOT GROWTH, ESPECIALLY IN THE TRAILER PORTION.

THERE HAVE BEEN REPORTS OF PENUMBRA FORMING ON MIDDLE

REGION SPOTS AND ARCH FILAMENT SYSTEMS HAVE BEEN OBSERVED

IN THE TRAILER PORTION OF THE REGION. THE REGION,

ALTHOUGH EXPERIENCING GROWTH, HAS NOT PRODUCED ANYTHING

GREATER THAN C-CLASS EVENTS.

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

VERY LOW. REGION 4849 APPARENTLY HAS NOT FULLY MATURED AND IT

CONTINUES TO BE A POTENTIAL ENERGETIC EVENT PRODUCER. AS THE

REGION MATURES IT SHOULD STABILIZE SOMEWHAT AND ANY SIGNIFICANT

EVENT LEVEL ACTIVITY AFTER THAT TIME REMAINS TO BE SEEN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AT MID

LATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES WITH

MINOR STORM CONDITIONS OCCURRING BETWEEN 0730-1200Z.

IB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE UNSETTLED TO ACTIVE ON 6 SEP. MAINLY ACTIVE

CONDITIONS ARE EXPECTED ON 7 SEP AND ACTIVE TO MINOR STORM

CONDITIONS WITH POSSIBLE MAJOR STORM CONDITIONS AT HIGH

LATITUDES ARE EXPECTED ON 8 SEP. THE ACTIVE CONDITIONS OF

THE 7TH AND STORM CONDITIONS OF THE 8TH ARE PRIMARILY DUE

TO THE SMM CONFIRMED CORONAL MASS EJECTION THAT WAS

COINCIDENT TO THE LOCATION AND TIME OF TWO OTHER EVENTS

FROM REGION 4848. THE EVENTS WERE A C6.6/1N LONG DURATION

X-RAY EVENT (MAX 01/1530Z) ACCOMPANIED BY A SIGNIFICANT

FILAMENT DISAPPEARANCE (S22E56) THAT

OCCURRED AT 01/1545Z.

III. EVENT PROBABILITIES 06 SEP-08 SEP

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 SEP 094

PREDICTED 06 SEP-08 SEP 096/094/091

90 DAY MEAN 05 SEP 085

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 SEP 006/014

ESTIMATED AFR/AP 05 SEP 010/020

PREDICTED AFR/AP 06 SEP-08 SEP 015/020-020/020-025/035