

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