

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 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 ANYYHING 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 STABALIZE 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.

IIB. 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) ACCCOMPANIED 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