

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/15/87 00:00:00

End : 07/15/87 23:59:00

07/15 22:00

2202

HFUS3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 196

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100Z TO 15/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. NEW REGION 4823 (N27W60) EMERGED AS A SMALL BIPOLAR SPOT GROUP. A FEW SMALL B-CLASS X-RAY EVENTS OCCURRED DURING THE LAST 24 HOURS, THE LARGEST A B9.2 PEAKING AT 15/1306UT. THESE FLARES WERE NOT CORRELATED WITH OPTICAL ACTIVITY ON THE DISK. ACTIVE SURGING HAS BEEN OBSERVED ON THE EAST LIMB NEAR S30 AND MAY HERALD THE APPROACH OF AN ACTIVE REGION RESPONSIBLE FOR THE X-RAY ACTIVITY. THE REGION NEAR N20 MENTIONED IN YESTERDAY'S FORECAST ROTATED ONTO THE DISK AS DULL SCATTERED PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. OLD REGION 4817 (S31,L-255) IS DUE TO RETURN AT THE EAST LIMB DURING THE NEXT 24 HOURS. THIS REGION WAS A SPOTLESS, DECAYING PLAGE REGION AS IT LEFT THE DISK LAST ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET TO UNSETTLED AT MIDDLE LATITUDES. ACTIVE CONDITIONS WERE EXPERIENCED DURING 06-09UT AND 09-12UT PERIODS FOLLOWING A NEGATIVE SUDDEN IMPULSE (58 NT AT BOULDER) AT 15/0800UT. THE HIGH LATITUDE FIELD WAS GENERALLY UNSETTLED UNTIL THE SUDDEN IMPULSE AND WAS AT MINOR STORM LEVELS, THEREAFTER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO QUIET AT MIDDLE LATITUDES AND ACTIVE TO UNSETTLED AT HIGH LATITUDES.

III. EVENT PROBABILITIES 16 JUL-18 JUL

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JUL 076

PREDICTED 16 JUL-18 JUL 078/080/080

90 DAY MEAN 15 JUL 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JUL 006/010

ESTIMATED AFR/AP 15 JUL 015/025

PREDICTED AFR/AP 16 JUL-18 JUL 010/016-010/012-007/013

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15 23:45

2345

HFUS3 BOU 152345 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

::::::: C O R R E C T I O N :::::::

SDF NUMBER 196

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100Z TO 15/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. NEW REGION 4823 (N27W60) EMERGED AS A SMALL BIPOLAR SPOT GROUP. A FEW SMALL B-CLASS X-RAY EVENTS OCCURRED DURING THE LAST 24 HOURS, THE LARGEST A B9.2 PEAKING AT 15/1306UT. THESE FLARES WERE NOT CORRELATED WITH OPTICAL ACTIVITY ON THE DISK. ACTIVE SURGING HAS BEEN OBSERVED ON THE EAST LIMB NEAR S30 AND MAY HERALD THE APPROACH OF AN ACTIVE REGION RESPONSIBLE FOR THE X-RAY ACTIVITY. THE REGION NEAR N20 MENTIONED IN YESTERDAY'S FORECAST ROTATED ONTO THE DISK AS DULL SCATTERED PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. OLD REGION 4821 (S31,L-225) IS DUE TO RETURN AT THE EAST LIMB DURING THE NEXT 24 HOURS. THIS REGION WAS A SPOTLESS, DECAYING PLAGE REGION AS IT LEFT THE DISK LAST ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET TO UNSETTLED AT MIDDLE LATITUDES. ACTIVE CONDITIONS WERE EXPERIENCED DURING THE 06-09UT AND 09-12UT PERIODS FOLLOWING A NEGATIVE SUDDEN IMPULSE (58 NT AT BOULDER) AT 15/0800UT. THE HIGH LATITUDE FIELD WAS GENERALLY UNSETTLED UNTIL THE SUDDEN IMPULSE AND WAS AT MINOR STORM LEVELS, THEREAFTER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO QUIET AT MIDDLE LATITUDES AND ACTIVE TO UNSETTLED AT HIGH LATITUDES.

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