

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/14/86 00:00:00

End : 07/14/86 23:59:00

07/14 22:00

2125

HFUS3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 195

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JUL 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4736 (NO6W107) PROVIDED A C1 X-RAY EVENT WITH LOOPS AT 14/0109Z. A LONG-DURATION X-RAY EVENT (LDXE) CHARACTERIZED THIS FLARE. THE EVENT OF 13/0401Z (C2/OF) ALSO PORTRAYED THE LDXE SIGNATURE AND WAS CONFIRMED AS A CORONAL MASS EJECTION (CME) TYPE AFTER THE SUMMARY WAS FINALIZED YESTERDAY. THIS CME WAS OF LESS THAN AVERAGE INTENSITY AND VELOCITY, ESPECIALLY WHEN COMPARED WITH THE FIRST OF THE SERIES AT 11/0506Z WHICH HAD ABOVE AVERAGE MASS AND VERY HIGH VELOCITY. NO NEW REGION WAS ASSIGNED, BUT THE AREA OF NO6, EAST LIMB DEPICTED LOW X-RAY EMISSIONS BOTH YESTERDAY AND TODAY.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE. STORM CONDITIONS ARE EXPECTED DURING NIGHTTIME PERIODS THE FIRST DAY (15 JUL) AS THE RESULT OF THE 11/0506Z LDXE EVENT AND ASSOCIATED CME IMPACTS. THE SECOND AND THIRD DAYS (16-17 JUL) PROVIDE THE POSSIBILITY OF CONTINUED ACTIVE TO STORM LEVEL CONDITIONS AS THE EVENT LINGERS.

III. EVENT PROBABILITIES 15 JUL-17 JUL

CLASS M 05/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JUL 072

PREDICTED 15 JUL-17 JUL 071/071/071

90 DAY MEAN 14 JUL 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JUL 008/014

ESTIMATED AFR/AP 14 JUL 008/010

PREDICTED AFR/AP 15 JUL-17 JUL 020/025-020/025-015/020

SOLTERWARN

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