

FUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 175

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY IS LOW. C CLASS FLARE PRODUCTION CONTINUES WITH THE LARGEST SO FAR TODAY BEING A C-3. THE DISK REGIONS ARE STILL UNDERGOING STRUCTURAL CHANGES BUT THESE CHANGES HAVE FAILED TO PRODUCE PARAMETERS NORMALLY THOUGHT TO BE COMMENSURATE WITH SIGNIFICANT FLARE OCCURRENCE. REGION 4216 (N17W16) REMAINS THE LARGEST ON THE VISIBLE DISK. ITS GROWTH HAS BEEN FAIRLY CONTINUOUS BUT ITS COMPLEXITY HAS NOT KEPT PACE. REGION 4219 (S09E20) IS DECAYING IN AREA AND THIS IS PROBABLY THE IMPETUS FOR THE SUBFLARES FROM THIS REGION. RANDOM AREAS OF EMERGING FLUX STILL BLEMISH THE FACE OF THE DISK AND AN ADDITIONAL TWO REGIONS WERE NUMBERED TODAY: 4224 (S09W42) AND 4225 (S04W53).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT LOW LEVELS. HOWEVER, OLD REGION 4201 IS DUE TO RETURN TOMORROW. THIS REGION PRODUCED ONE CLASS X AND 14 CLASS M EVENTS ON ITS LAST TRANSIT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GENERALLY UNSETTLED CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 25 JUN-27 JUN

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUN 139

PREDICTED 25 JUN-27 JUN 139/137/135

90 DAY MEAN 24 JUN 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 JUN 016/023

ESTIMATED AFR/AP 24 JUN 011/015

PREDICTED AFR/AP 25 JUN-27 JUN 012/015-015/015-012/015

SOLTERWARN

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