

FUS 3 BDU 232200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 204
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 23 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100
TO 23/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24
HOURS. AN M1 X-RAY EVENT OCCURRED AT 0945Z DURING A PERIOD
WITHOUT OPTICAL OBSERVATIONS. IT IS LIKELY THAT THE EVENT
ORIGINATED IN THE COMPLEX REGION 4260/4249 (S05W78/S08W77).
BOTH REGIONS HAVE APPARENTLY SIMPLIFIED TODAY ALTHOUGH ANALYSIS
IS HAMPERED BY THEIR WEST LIMB PROXIMITY. OTHER REGIONS
REMAINED MOSTLY UNCHANGED WITH THE EXCEPTION OF 4259 (S05W52)
WHICH BECAME SPOTLESS. NEW REGION 4261 (S05W52) EMERGED AS A
SMALL A-TYPE SPOT. MINOR SURGING WAS REPORTED ON THE EAST LIMB
NEAR S17 BUT NO NEW REGIONS HAVE YET BEEN IDENTIFIED AND THE 10
CM RADIO SCAN DOES NOT SHOW AN EAST LIMB ENHANCEMENT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW ALTHOUGH ANOTHER ISOLATED M-CLASS FLARE COULD OCCUR BEFORE
THE WEST LIMB PASSAGE OF REGIONS 4260/4249.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS,
PROBABLY IN RESPONSE TO A HIGH-SPEED STREAM FROM A SOUTHERN
CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO CONTINUE AT ACTIVE LEVELS TOMORROW WITH THE
POSSIBILITY OF ISOLATED MINOR STORM CONDITIONS ESPECIALLY AT
HIGH LATITUDES. THIS ACTIVITY SHOULD SUBSIDE TO UNSETTLED
LEVELS BY 26 JULY.

III. EVENT PROBABILITIES 24 JUL-26 JUL
CLASS M 10/05/05
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 23 JUL 130
PREDICTED 24 JUL-26 JUL 125/120/115
90 DAY MEAN 23 JUL 135

V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 22 JUL 011/014
ESTIMATED AFR/AP 23 JUL 023/020
PREDICTED AFR/AP 24 JUL-26 JUL 020/015-015/015-010/015

SOLTERWARN
BT