

FUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 179

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 4227 (S09E40) PRODUCED AN M1/1B FLARE AT 0254Z MAXIMUM. MINOR DISCRETE FREQUENCY RADIO BURSTS WERE ASSOCIATED WITH THIS EVENT. THIS REGION HAS DISPLAYED SOME SLOW GROWTH BUT HAS NOT SHOWN ANY SIGNIFICANT CHANGE IN STRUCTURE OR MAGNETIC COMPLEXITY. REGION 4230 (S18E59) HAS SHOWN THE MOST DYNAMICS DURING THE PERIOD WITH RAPID GROWTH AND ARCH FILAMENTS VISIBLE. THIS REGION HAS PRODUCED MINOR SUBFLARES DURING THE PERIOD.

OTHER REGIONS THAT PRODUCED MINOR ACTIVITY DURING THE PERIOD WERE REGIONS 4214 (N13W85) AND 4216 (N17W69). BOTH ARE SHOWING SIGNS OF SLOW DECAY. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN MODERATE WITH AT LEAST ONE M-CLASS XRAY EVENT PER DAY LIKELY FROM REGION 4227.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN PREDOMINANTLY UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO REMAIN UNSETTLED THROUGH THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 JUN-01 JUL

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JUN 129

PREDICTED 29 JUN-01 JUL 127/125/125

90 DAY MEAN 28 JUN 132

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 JUN 011/013

ESTIMATED AFR/AP 28 JUN 010/015

PREDICTED AFR/AP 29 JUN-01 JUL 010/010-008/010-008/010

SOLTERWARN

BT