

FUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 173

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN LOW. SUBFLARE ACTIVITY HAS BEEN NOTED IN SEVERAL REGIONS BUT ONLY REGIONS 4216 (N17E11) AND 4213 (S12W41) APPEAR SUFFICIENTLY COMPLEX FOR PRODUCTION OF LARGER FLARES. REGION 4216 IS COMPOSED OF DENSE, BRIGHT PLAGE AND ARCH FILAMENTS WHILE REGION 4213 IS FAIRLY STABLE IN GROWTH BUT IS A BETA GAMMA MAGNETIC CLASS. REGION 4219 (S09E46) IS IMPRESSIVE IN H-ALPHA LIGHT BUT IS LESS ORGANIZED IN ITS SPOT STRUCTURE. A NEW REGION, 4221 (S17W05), WAS NUMBERED TODAY AND APPEARS AS A GROWING TYPE B GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. ISOLATED M ACTIVITY IS A POSSIBILITY AS REGIONS 4213 AND 4216 BECOME MORE ORGANIZED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETLED TO ACTIVE CONDITIONS SHOULD CONTINUE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 23 JUN-25 JUN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JUN 144

PREDICTED 23 JUN-25 JUN 146/148/150

90 DAY MEAN 22 JUN 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 JUN 020/021

ESTIMATED AFR/AP 22 JUN 018/028

PREDICTED AFR/AP 23 JUN-25 JUN 018/025-012/015-012/015

SOLTERWARN

BT