

FUS 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 172

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100 TO 21/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. AN M1, CURRENTLY NOT ASSIGNED TO A REGION, OCCURRED AT 0159Z. OTHER FLARES HAVE HAD X-RAY BURSTS OF C3 OR LESS AND MOST OF THESE HAVE OCCURRED IN REGIONS 4216 (N17E27) AND 4219 (S10E62). BOTH THESE REGIONS CONTINUE TO GROW AND HAVE BETA GAMMA MAGNETIC ALIGNMENTS. REGION 4213 (S12W26) STILL RETAINS AN ISLAND OF LEADER POLARITY IN THE SOUTHEASTERN PORTION OF THE PLAGE. OCCASIONAL FLARES COULD OCCUR AT THIS SITE. THE STRUCTURAL CONFIGURATION OF REGION 4209 (N14W27) REMAINS THE SAME BUT THERE HAS BEEN GROWTH IN ITS PLAGE. TODAY'S MAGNETIC DATA CONFIRMS THAT 4217 (N18E42) WAS COMPOSED OF TWO BIPOLAR SETS. THE MOST EASTERLY SPOT (AN H-TYPE) HAS BEEN ASSIGNED AS REGION 4220 (N18E49). THE FILAMENT SEGMENT NORTH OF REGION 4214 SLOWLY DISAPPEARED TODAY. THE FILAMENT SEGMENT SOUTHWEST OF REGION 4214 HAS BEEN ACTIVE AND CHANGING IN FORM. IT MAY ALSO DISAPPEAR OVER THE NEXT 24 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. MOST OF THE FLARES ARE EXPECTED TO EMANATE FROM REGIONS 4216 AND 4219.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO ACTIVE FIELD CONDITIONS ARE EXPECTED TO EXIST THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 JUN-24 JUN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JUN 139

PREDICTED 22 JUN-24 JUN 142/145/147

90 DAY MEAN 21 JUN 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 JUN 017/021

ESTIMATED AFR/AP 21 JUN 017/020

PREDICTED AFR/AP 22 JUN-24 JUN 012/020-012/015-010/015

SOLTERWARN

BT