

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 171

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 JUNE 1979

IA. SOLAR ACTIVITY HAS BEEN LOW WITH NO X-RAY EVENTS OBSERVED AND ONLY SUBFLARES REPORTED FROM REGION 1820 (S23E21), REGION 1815 (N08W43) AND REGION 1818 (S07E42). REGION 1820 HAS SHOWN RAPID GROWTH, A STRONG MAGNETIC GRADIENT AND AN ARCH FILAMENT SYSTEM AND REGION 1807 (N22W43) IS CONFIGURED WITH AN ISOLATED POLE AND A BETA-GAMMA MAGNETIC STRUCTURE. REGION 1815 HAS PRODUCED 2 SUBFLARES AND CONTINUES TO DISPLAY COMPACT ENHANCED PLAGE. REGION 1818 HAS ALSO PRODUCED A SUBFLARE AND CONTINUES TO DISPLAY COMPACT PLAGE. REGION 1819 (S28E53) IS A REVERSE POLARITY BUT HAS NOT PRODUCED ANY SIGNIFICANT ACTIVITY. A NEW REGION 1822 (S12E86) DISPLAYS AN H-TYPE SPOT GROUP. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT LOW LEVELS WITH THE CONTINUING GOOD PROBABILITY OF C-CLASS SUBFLARES. A CHANCE OF ISOLATED M-CLASS EVENTS EXISTS. NO LARGE REGIONS ARE DUE TO RETURN.

II. THE GEOMAGNETIC FIELD WAS QUIET AND IS EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE NEXT FORECAST PERIOD.

III. EVENT PROBABILITIES 21 JUNE - 23 JUNE

CLASS M 30/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JUNE 145

PREDICTED 21-23 JUNE 145/148/150

90-DAY MEAN 20 JUNE 178

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 JUNE 05

ESTIMATED AFR/AP 20 JUNE 09/10

PREDICTED AFR/AP 21-23 JUNE 12/20 - 15/20 - 15/20

SOLTERWARN

BT