

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 174

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 23 JUNE 1979

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY FIVE SUBFLARES REPORTED DURING THE PREVIOUS 24 HOURS. NEW REGION 1826 (N12W26) HAS DISPLAYED A SMALL STRONG ARCH FILAMENT SYSTEM, BRIGHT POINTS AND AN A-TYPE SPOT GROUP. REGION 1818 (S06E01) HAS SHOWN AN INCREASE IN ITS MAGNETIC GRADIENT AND CURRENTLY HAS A C-TYPE GROUP. REGION 1824 (S19W19) HAS PRODUCED A SUBFLARE (1727Z), BRIGHT POINTS AND HAS HAD AN ASSOCIATED ACTIVE DARK FILAMENT. AN ISOLATED POLE HAS ALSO BEEN REPORTED IN REGION 1824. REGION 1819 (S28E16) HAS ALSO PRODUCED A SUBFLARE AND A BRIGHT POINT. IT CONTINUES TO BE REPORTED AS A REVERSE POLARITY REGION. REGION 1822 (S12E42) HAS PRODUCED 2 SUBFLARES AND CURRENTLY CONTAINS A C-TYPE SPOT GROUP. REGION 1820 (S23W17) CONTAINS A D-TYPE SPOT GROUP WITH AN ISOLATED POLE AND HAS PRODUCED A SUBFLARE. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH THE INCREASED PROBABILITY OF MORE SIGNIFICANT EVENTS AFTER 26 JUNE. THE POSSIBILITY OF OCCASIONAL C-CLASS SUBFLARE AND ISOLATED M-CLASS EVENTS DURING THE 3 DAY FORECAST PERIOD CONTINUES.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH A SMALL SUDDEN COMMENCEMENT (41 GAMMAS) THAT OCCURRED AT 0850Z TODAY. THE MAGNETIC FIELD HAS RETURNED TO UNSETTLED TO ACTIVE CONDITIONS DURING THE PAST 12 HOURS AND IS EXPECTED TO BE UNSETTLED DURING THE 3 DAY FORECAST PERIOD.

III. EVENT PROBABILITIES 24 JUNE - 26 JUNE

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 JUNE 135

PREDICTED 24 JUNE - 26 JUNE 137/137/140

90-DAY MEAN 23 JUNE 177

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 JUNE 21

ESTIMATED AFR/AP 23 JUNE 18/25

PREDICTED AFR/AP 24 JUNE - 26 JUNE 12/20 10/15 12/15

SOLTERWARN

BT