

HFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 173

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 22 JUNE 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1820 (S23W04) PRESENTLY DISPLAYS A D-TYPE SPOT GROUP WITH A TENDANCY TOWARD A BETA-GAMMA MAGNETIC CONFIGURATION. NEW REGION 1824 (S19W06) IS A RAPIDLY GROWING C-TYPE GROUP WITH AFS AND POINT BRIGHTENINGS. A SMALL SUBFLARE WAS REPORTED FROM 1824. REGION 1824 HAS BEEN INTERACTING WITH REGION 1820. REGION 1819 (S28E29) IS A REVERSE POLARITY REGION AND HAS ENHANCED PLAGE, POINT BRIGHTENINGS AND A WEAK ACTIVE DARK FILAMENT. THIS REGION (1819) CONTINUES TO GROW SLOWLY. REGION 1807 (N23W74) AND REGION 1818 (S06E15) HAVE BOTH PRODUCED SUBFLARES BUT ONLY 1807 HAS PRODUCED A C-CLASS SUBFLARE. NEW REGION 1825 (N27E66) HAS EXPERIENCED OCCASIONAL POINT BRIGHTENINGS AND DISPLAYS A C-TYPE SPOT GROUP. A FILAMENT PREVIOUSLY LOCATED NORTH OF REGION 1809 (N27W47) HAS DISAPPEARED IN THE PAST 24 HOURS. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH OCCASIONAL C-CLASS SUBFLARES AND ISOLATED M-CLASS SUBFLARES POSSIBLE. WITH THE RETURN OF ACTIVE LONGITUDES ON 26 JUNE SOLAR ACTIVITY IS EXPECTED TO INCREASE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND IS EXPECTED TO BE ACTIVE TO UNSETTLED DURING THE NEXT 72 HOUR PERIOD.

III. EVENT PROBABILITIES 23 JUNE - 25 JUNE

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JUNE 137

PREDICTED 23 JUNE - 25 JUNE 140/143/143

90-DAY MEAN 22 JUNE 177

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 21 JUNE 14

ESTIMATED AFR/AP 22 JUNE 17/28

PREDICTED AFR/AP 23 JUNE - 25 JUNE 15/25 12/25 10/15

SOLTERWARN

BT