

HFUS 1 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 175

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 JUNE 1979

IA. SOLAR ACTIVITY HAS BEEN LOW. THREE REGIONS HAVE PRODUCED ALL THE ACTIVITY DURING THE PAST 24 HOURS. REGION 1818 (S06W12) PRODUCED FOUR SUBFLARES WITH MAXIMUM AT 0120 UT, 0420 UT, 0452 UT AND 1637 UT. REGION 1820 (S23W29) PRODUCED TWO SUBFAINT FLARES WITH MAXIMUM AT 1451 UT AND 1630 UT. NEW REGION 1828 (N13E76), OLD REGION 1774 WHICH HAD SEVERAL FLARES LAST ROTATION, PRODUCED A SUBFAINT FLARE WITH MAXIMUM AT 1604 UT. REGION 1828 IS ONLY AN H-TYPE SPOT, HOWEVER SURGING BEHIND THE LIMB SUGGESTS OLD REGION 1774 MAY BE RETURNING INTACT. ANOTHER NEW REGION 1827 (S16W01) A SINGLE A-TYPE SPOT. REGION 1819 (S29E04) HAS LOST LEADER AND MOST OF THE TRAILERS LEAVING A SIMPLE A-TYPE SPOT OF LEADER POLARITY. REGION 1818 IS A BETA-GAMMA WITH AN ISOLATED POLE JUST NORTH OF THE MAIN LEADER. THERE WERE NO X-RAY FLARES OF C-CLASS OR GREATER.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THE NEXT 24 HOURS. REGIONS 1818 AND 1828 HAVE THE POTENTIAL TO PRODUCE C-CLASS FLARE WITH THE POSSIBILITY OF M-CLASS ACTIVITY TO BE INCREASING AS 1828 SHOULD BE FOLLOWED BY OLD 1781 IN THE NEXT TWO DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED AND THE FIELD SHOULD CONTINUE UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 JUNE - 27 JUNE

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUNE 137

PREDICTED 25-27 JUNE 140/143/146

90-DAY MEAN 24 JUNE 176

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 23 JUNE 21

ESTIMATED AFR/AP 24 JUNE 12/15

PREDICTED AFR/AP 25-27 JUNE 11/13 - 11/12 - 08/08

SOLIERWARN

BT