

HFUS 180U 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 206

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 JULY 1980

IA. SOLAR ACTIVITY HAS DROPPED BACK TO THE LOW LEVELS EXPERIENCED BEFORE YESTERDAY'S M8/2B FLARE. REGION 2579 (S20W11) WHICH SHOWED GOOD FLARE POTENTIAL YESTERDAY HAS PRODUCED ONLY A C6/SB AT 0918Z MAXIMUM. THE SLOW GROWTH HAS CEASED AND THE DELTA CONFIGURATION IN THE LARGEST LEADING PENUMBRA HAS WEAKENED CONSIDERABLY. REGIONS 2570 (S27W65) AND 2571 (S22W52) HAVE EACH PRODUCED A SMALL SUB-FLARE DURING WHAT APPEARS TO BE A SLOW DECAYING PHASE. REGION 2588 (S07E63) HAS PRODUCED SEVERAL SUBFLARES, BUT IS UNIMPRESSIVE IN WHITE LIGHT AND H-ALPHA. REGION 2582 (N12E06) HAS RE-EMERGED TODAY WITH A SMALL BIPOLAR SET OF SPOTS OF REVERSE POLARITY AND ARCH FILAMENTS. NEW REGION 2589 (N28E82) HAS COME OVER EAST LIMB AS AN H-TYPE SPOT.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE DURING THE FORECAST PERIOD. ALTHOUGH WEAKENING IN MOST PARAMETERS, REGION 2579 RETAINS A SMALL POTENTIAL FOR AN ISOLATED M-CLASS EVENT. AN ISOLATED M-CLASS EVENT IS ALSO POSSIBLE FROM THE 2570/2571 COMPLEX PRIOR TO WEST LIMB TRANSIT.

II. THE GEOMAGNETIC FIELD HAS BEEN AT LOW UNSETTLED LEVELS DURING THE PAST 24 HOURS. A SLIGHT INCREASE IN ACTIVITY DURING THE PAST 3 HOURS COULD INDICATE AN EXPECTED SUDDEN COMMENCEMENT AND ACTIVE PERIOD FORECAST FOR EARLY IN THE ZULU DAY ON THE 25TH AS A RESULT OF THE M8/2B FLARE ON THE 23RD.

III. EVENT PROBABILITIES 25 JULY - 27 JULY

CLASS M 60/60/50

CLASS X 25/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JULY 215

PREDICTED 25 - 27 JULY 206/190/182

90-DAY MEAN 24 JULY 205

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 JULY 05

ESTIMATED AFR/AP 24 JULY 08/09

PREDICTED AFR/AP 25 - 27 JULY 18/18 10/12 08/10

SOLTERWARN

BT