

HFUS-1 BDU 2822 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 149

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 MAY 1980

I. SOLAR ACTIVITY WAS HIGH DURING THE PAST 24 HOURS. A M1
X-RAY FLARE, MAXIMUM AT 0010 UT, MAY HAVE BEEN PRODUCED BY OLD
REGION 2456 WHICH ROTATED OVER THE WEST LIMB LATE ON 26 MAY.
THE EVENT HAD A VERY SLOW RISE TIME. REGION 2470 (S20W45) PRODUCED
TWO M-CLASS X-RAY EVENTS: A M2/1N AT 0216 UT AND A M3/1B AT
1721 UT, THIS EVENT PRODUCED 323 FLUX UNITS AT 2695 MHZ. THIS
FLARE WAS OBSERVED IN HELIUM D3, MAXIMUM 1717 UT. A X1/2B FLARE
FROM REGIONS 2470 AND 2469, MAXIMUM AT 1953 UT, PRODUCED 1200
FLUX UNITS AT 2695 MHZ. THE FLARE WAS FROM THE TRAILER OF 2469
AND THE LEADER OF 2470, THE DELTA'S OF BOTH REGIONS WERE INVOLVED.
REGIONS 2466 (S08W47), 2476 (N10W10) AND 2473 (S11E27) HAVE
PRODUCED SEVERAL C-CLASS X-RAY FLARES. REGION 2478 HAS SHOWN
GROWTH IN AREA AND HAS BECOME MORE COMPLEX MAGNETICALLY AND NOW
MAY HAVE TWO DELTA'S IN CENTRAL PORTION. REGIONS 2469 AND
2470 ALSO HAVE DELTA'S.

II. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGIONS 2469/2470
SHOULD CONTINUE TO PRODUCE M-CLASS X-RAY FLARES, HOWEVER, A
X-CLASS EVENT WILL REMAIN POSSIBLE. REGION 2478 CONTINUES TO GROW
AND MAY BECOME A PRODUCER OF M-CLASS EVENTS DURING THE FORECAST
PERIOD.

III. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS.
THE FIELD IS EXPECTED TO REMAIN QUIET DURING THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 29 MAY - 31 MAY

CLASS M 9.0/9.0/9.0

CLASS X 15/20/20

PROTON 15/20/20

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAY 284 (FLARE ENHANCED)

PREDICTED 29-31 MAY 278/276/276

90-DAY MEAN 28 MAY 200

VI. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 27 MAY 04

PREDICTED AFR/AP 28 MAY 06/06

PREDICTED AFR/AP 29-31 MAY 06/08 - 06/10 - 10/15

SOLTERWARN

BT