

HFUS 180U 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO.

SDF NUMBER 239

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 AUGUST 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 1943 (N06W25) HAS BECOME GENERALLY DORMANT SINCE ITS X2/2B FLARE YESTERDAY, PRODUCING ONLY SUBFLARE/LOW LEVEL C-CLASS X-RAY EVENTS. THE LARGEST, A C4/SN WAS OBSERVED AT 0049Z MAXIMUM. ALTHOUGH THIS REGION RETAINS ITS COMPLEX MAGNETIC CLASSIFICATION AS A BETA GAMMA DELTA, SIGNIFICANT PENUMBRAL AND GRADIENT DECAY HAVE BEEN NOTED TODAY. THE REGION AT N19E67 HAS BEEN RENUMBERED AS 1958, SINCE 1956 WAS GIVEN TO A REGION IN THE NORTHWEST QUADRANT ON FRIDAY. 1958 HAS PRODUCED SEVERAL SUBFLARES, BUT DOES NOT APPEAR TO IMPRESSIVE AT THIS TIME. REGION 1956 (N13W47) HAS RE-EMERGED TODAY AS A SMALL B-TYPE GROUP. NEW REGION 1959 (N23E62) HAS APPEARED AS A SIMPLE B-TYPE GROUP.

IB. THE LACK OF ACTIVITY TODAY IS NOT EXPECTED TO LAST, WITH REGIONS 1943, 1942 (S32W23) AND 1951 (N18W14) HAVING THE POTENTIAL FOR M-CLASS EVENTS. REGION 1943 CAN ALSO BE EXPECTED TO PRODUCE AN ISOLATED X-CLASS PROTON EVENT DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN AT LOW ACTIVE LEVELS FOR THE LAST 24 HOURS. THE EXPECTED MINOR MAGNETIC STORM FORECAST TO ARRIVE TODAY AT 1300Z IS NOW EXPECTED TO ARRIVE EARLY IN THE ZULU DAY ON THE 28TH. MINOR STORM LEVELS SHOULD PERSIST THROUGH THE 28TH, TRENDING DOWN THROUGH ACTIVE LEVELS DURING THE LAST TWO DAYS. A SMALL PROTON ENHANCEMENT WAS OBSERVED IN THE LOW ENERGY RANGE FROM 28/0300Z TO 1200Z. THE PARTICLE COUNT FOR THIS PERIOD NEVER REACHED EVENT THRESHOLD LEVELS.

III. EVENT PROBABILITIES 28 AUGUST - 30 AUGUST

CLASS M	60/70/70
CLASS X	30/40/40
PROTON	30/40/40
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 208

PREDICTED 28 - 30 AUGUST 201/198/192

90-DAY MEAN 27 AUG 174

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 AUGUST 16

ESTIMATED AFR/AP 27 AUGUST 15/15

PREDICTED AFR/AP 28 - 30 AUGUST 40/55 22/25 18/30

SOLTERWARN

BT