

HFUS 1 BOU 222200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 143

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 22 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN QUIET. THERE ARE A RATHER LARGE NUMBER OF ACTIVE REGIONS SHOWING, REGIONS 2476 (N09E67), 2477 (S20W29) WERE NUMBERED TODAY. MOST REGIONS ARE STABLE. REGIONS 2469 (S13E43), 2470 (S21E43), 2466 (S08E30) SHOW MAGNETIC COMPLEXITY R2469, R2470 CONTAIN MAGNETIC DELTAS THEY ARE CLOSELY ASSOCIATED SPACIALLY, AND EXHIBIT PROPER MOTION. REGION 2455 (N15E02) HAS SPOT GROUPS OF MIXED POLARITY. REGION 2470 ALSO CONTAINS A DARK ARCH FILAMENT SYSTEM. REGION 2456 (S13W31) CONTAINS AN ACTIVE FILAMENT. AN M2.1 FLARE EVENT OCCURRED LATE IN THE DAY MAXIMUM OCCURRED AT 2102 IN REGION 2465.

IB. EXCEPT FOR THE NEW REGIONS MENTIONED ABOVE EACH OF THESE REGIONS IS A LIKELY SOURCE OF ACTIVITY. REGION 2456 IS IN A FAVORABLE POSITION TO PRODUCE A PARTICLE EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT SHOULD REMAIN QUIET UNTIL LATE IN THE FORECAST PERIOD. A SUDDEN COMMENCEMENT IS EXPECTED THEN AND A MINOR GEOMAGNETIC STORM IS EXPECTED.

III. EVENT PROBABILITIES 23 MAY - 25 MAY

CLASS M 80/85/85

CLASS X 20/20/20

PREDICTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAY 270

PREDICTED 23 MAY - 25 MAY 282/288/292

90-DAY MEAN 22 MAY 193

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 21 MAY .05

ESTIMATED AFR/AP 22 MAY .07/.09

PREDICTED AFR/AP 23 MAY - 25 MAY 30/23 20/30 20/30

SOLTERWARN

BT