

4FUS 11B0U 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 124

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

I. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS WITH NO X-RAY BURST LARGER THAN C2. EXTENDED REGION 1711 (N16W32) CONTINUES TO HAVE A BETA/GAMMA CONFIGURATION WITH THE TIGHTEST GRADIENT BEHIND THE LARGE LEADER SPOT. HOWEVER, REGION 1720 (N12W20) HAS RE-EMERGED DRAMATICALLY ABOUT 4 DEGREES SSE OF THE LARGE TRAILER OF REGION 1711. STRONG ARCH FILAMENTS INDICATE REGION 1720 IS STILL IN A VIGOROUS GROWTH PATTERN. REGIONS 1724 (N22E68), 1725 (N24E41), 1726 (S28E74), AND 1727 (N24E60) HAVE ~~grown~~ TODAY WITH REGION 1727 SHOWING SOME GROWTH. CULGOORA REPORTED A TYPE II BURST ABOVE THE NE LINE. OLD ACTIVE REGIONS 1684 AND 1689 ARE DUE BACK IN THE NE QUADRANT ON 26 AND 27 MAY RESPECTIVELY.

II. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. THE REGION 1711/1720 COMPLEX IS EXPECTED TO PRODUCE ISOLATED (1-3) EVENTS EQUAL OR GREATER THAN CLASS M OVER THE FORECAST PERIOD.

III. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED. A SHORT-LIVED MINOR MAGSTORM IS EXPECTED ON 25 MAY IN RESPONSE TO THE FLARE ON 22 MAY. THE FIELD IS EXPECTED TO BE UNSETLED ON 26 AND 27 MAY.

IV. EVENT PROBABILITIES 25 - 27 MAY

CLASS M 22/80/80

CLASS X 25/25/25

PROTON 15/15/15

PCAF GREEN

V. OTTAWA 12.7 CM FLUX

OBSERVED 24 MAY 173

PREDICTED 25 - 27 MAY

90-DAY MEAN 24 MAY 189

172/170/168

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 23 MAY

ESTIMATED AFR/AP 24 MAY

PREDICTED AFR/AP 25 - 27 MAY

SOLTERWARN BT

25

25/10

30/30

10/14

17/12