

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 143

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 MAY 1979

IA. THE LOW LEVEL OF SOLAR ACTIVITY CONTINUED FOR ANOTHER DAY WITH SOME SOLAR INDICES, FOR EXAMPLE THE 10 CM FLUX, BEING THE LOWEST IN MONTHS. OF THE TEN REGIONS ON THE DISK ONLY TWO AREAS CURRENTLY SHOW ANY DEVELOPMENT, THE AREA AROUND 1756 (S20E13) AND 1761 (S22W00) WHICH HAS SHOWN SLIGHT GROWTH AND REGION 1759 (N18E31) WHICH HAS SOME INDICATIONS OF AN ENCIRCLING FILAMENT. REGION 1766 (N16E70) HAS ROTATED ON TO THE DISK BUT APPEARS QUIET. SMALL SURGES HAVE BEEN REPORTED NEAR SE30.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL THRU THE FORECAST PERIOD. ONLY SMALL FLARES ARE LIKELY FROM THE VISIBLE DISK REGIONS. OLD A.P. 1720 SHOULD BE CROSSING THE EAST LIMB AT N20 IN THE NEXT 24 HOURS. THERE ARE NO SIGNIFICANT ACTIVE CENTERS EXPECTED BEHIND 1720 FOR AT LEAST THREE DAYS.

II. THE GEOMAGNETIC FIELD WAS ACTIVE EARLY IN THE UT DAY BUT HAS BEEN QUIET SINCE 23/0600 UT. THE FIELD IS AGAIN EXPECTED TO BECOME DISTURBED IN THE NEXT 24 TO 48 HOURS. 10830A INDICATES THE PRESENCE OF A LARGE SOUTHERN CORONAL HOLE BETWEEN W05 -AND W25.

III. EVENT PROBABILITIES 24 MAY - 26 MAY

CLASS M 30/40/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAY 152

PREDICTED 24-26 MAY 154/156/158

90-DAY MEAN 23 MAY 179

V. GEOMAGNETIC-A INDICES

OBSERVED FREDERICKSBURG 22 MAY 25

ESTIMATED AFR/AP 23 MAY 10/10

PREDICTED AFR/AP 24-26 MAY 10/25 - 12/25 - 15/30

SOLIERWARN

BT