

HFUS 1 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 132

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 12 MAY 1979

IA. SOLAR ACTIVITY CONTINUED AT A LOW LEVEL FOR ANOTHER DAY. REGION 1734 (N08W23) PRODUCED THE ONLY SIGNIFICANT EVENT OF THE DAY, A C4 AT 12/0114Z. THIS REGION HAS HAD SOME GROWTH JUST EAST OF THE LEADER, WHERE MT. WILSON REPORTS A WEAK DELTA. THE PLAGE IN 1734 IS THE BRIGHTEST ON THE DISK. REGION 1729 (S21W12) THOUGH ONLY A C-TYPE SPOT GROUP HAD THE LARGEST COMPUTED SPOT GRADIENT ON THE DISK, AND PRODUCED A C1/SB AT 1617Z. REGION 1743 (N15E12) IS GROWING SLOWLY. REGIONS 1741 (S14E58) AND 1742 (N25E76) APPARENTLY DEVELOPED ON THE BACK SIDE. ONLY SMALL FLARES HAVE BEEN REPORTED IN REGION 1724 (N22W35). LITTLE ACTIVITY OR CHANGES IN OTHER REGIONS.

IB. THE GENERALLY LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED TO CONTINUE FOR THE NEXT FEW DAYS. REGION 1734 HAS THE POTENTIAL FOR ENERGETIC ACTIVITY AND SHOULD BE MONITORED FOR ADDITIONAL DEVELOPMENT. ADDITIONAL GROWTH IN 1729 COULD ALSO RESULT IN AN INCREASE IN ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS ACTIVE EARLY IN THE UT DAY, BUT IS NOW BASICALLY UNSETTLED. THE EXPECTED DISTURBANCE FROM THE CORONAL HOLE NOW AT W30 TO W65 AS SEEN IN HELIUM 10830A HAS NOT YET BEEN OBSERVED. CONDITIONS ARE EXPECTED TO BECOME MORE DISTURBED THRU THE NEXT 24 HOURS WITH SOME SHORT ACTIVE PERIODS, FOLLOWED BY A GRADUAL SHIFT TO QUIET CONDITIONS.

III. EVENT PROBABILITIES 13 MAY - 15 MAY

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 MAY 180

PREDICTED 13-15 MAY 179/179/180

90-DAY MEAN 12 MAY 186

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 MAY 18

ESTIMATED AFR/AP 12 MAY 10/14

PREDICTED AFR/AP 13-15 MAY 15/15 - 10/12 - 08/10

SOLTERWAR N

BT