

HFUS 1 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO.

SDF NUMBER 094

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 APRIL 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. BOTH REGIONS 2363 (N27W30) AND 2359 (N14W68) HAVE PRODUCED "M" LEVEL XRAY BURSTS. REGION 2359 PRODUCED AN M 1/2B AT 030122 UT. (MAX) THAT HAD SOME SMALL RADIO BURSTS (39 F.U. AT 2695 MHZ) BUT LITTLE ELSE. THIS REGION IS A RELATIVELY SIMPLE "C" TYPE SPOT GROUP THAT IS APPROACHING THE WEST LIMB AND DOES NOT APPEAR CAPABLE OF SIGNIFICANT ACTIVITY AGAIN BEFORE PASSAGE. REGION 2363 HOWEVER, REMAINS COMPLEX IN ITS LEADING PORTIONS AND APPARENTLY WAS NOT DEPLETED BY THE PRODUCTION OF THE M2/1B AT 030658 U.T. (MAX). THIS EVENT WAS ACCCOMPANIED BY A 1000 F.U. BURST AT 2695 MHZ, SHORTWAVE FADES TO 15 MHZ AND TYPE II/TYPE IV SWEEP FREQUENCY BURSTS. THE NEUTRAL LINE IN 2363 IS LESS KINKED THAN YESTERDAY BUT THE GRADIENTS REMAIN TIGHT IN THE WESTERN EDGE AND TWO OBSERVATORIES WERE STRONGLY SUSPICIOUS OF A DELTA CONFIGURATION. IN THE SMALL PENUMBRA IN THE SOUTHWEST AREA OF THE SPOT GROUP REGION 2362 (S13W39) HAS BEEN QUIET AND IS A SIMPLE H TYPE SPOT GROUP BUT THE H-ALPHA PLAGE HAS BEEN MODERATELY BRIGHT AND IT IS WELL ORGANIZED.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE IN VIEW OF THE STATUS OF 2363 & MENTIONED ABOVE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETLED. CONTINUED QUIET TO UNSETLED CONDITIONS ARE EXPECTED THROUGH TOMORROW BUT THEN ACTIVE CONDITIONS SHOULD COMMENCE EARLY ON 5 APRIL.

III. EVENT PROBABILITIES 04 APRIL - 06 APRIL

CLASS M 5.0/5.0/5.0

CLASS X 05/05/05

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APRIL 176

PREDICTED 04-06 APRIL 172/168/165

90-DAY MEAN 03 APRIL 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 02 APRIL 02

ESTIMATED AFR/AP 03 APRIL 08/09

PREDICTED AFR/AP 04-06 APRIL 08/10 15/15 13/18

SOLTERWARN

BT