

HFUS 1 BOU 052200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 096

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 APRIL 1980

I A. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 2372 (N12E18) BETA-GAMMA-DELTA HAS PRODUCED 2 SIGNIFICANT EVENTS, AN M1 AT 0605Z AND AN M5/1B AT 1552Z, WITH ASSOCIATED SHORTWAVE FADES. IT EXPERIENCED VERY RAPID GROWTH DURING THE PAST 24 HOURS AND CONTINUES TO DISPLAY AFS. REGION 2363 (N27W55) BETA-GAMMA-DELTA HAS PRODUCED SUBFLARES AND HAS HAD AN ACTIVE DARK FILAMENT DURING MOST OF THE UT DAY. REGION 2370 (N22E35) DISPLAYS AN AFS AND IS ALSO CLASSIFIED BETA-GAMMA-DELTA. IT HAS PRODUCED A SUBFLARE DURING THE PAST 24 HOURS. NEW REGION 2373 (S20E76) IS PRESENTLY A LARGE H-TYPE GROUP. NEW REGION 2374 (N20E67) IS NOW A SMALL A-TYPE GROUP. A TENFLARE OF 440 FU WAS OBSERVED AS A RESULT OF THE M5/1B FROM REGION 2372 AT 1552Z. ALL OTHER DISK AND LIMB FEATURES ARE REPORTED QUIET AND STABLE.

IB. SOLAR ACTIVITY WILL BE MODERATE WITH THE GOOD POSSIBILITY OF M-CLASS X-RAY EVENTS FROM ANY OF THE BETA-GAMMA-DELTA REGIONS ON THE DISK BUT WITH REGION 2372 HAVING THE GREATEST POTENTIAL.

II. THE GEOMAGNETIC FIELD WILL BE UNSETLED DURING THE NEXT 24 HOURS WITH ACTIVE CONDITIONS ON THE FOLLOWING DAY AND UNSETLED TO SLIGHTLY ACTIVE ON THE THIRD DAY. THE ACTIVE CONDITIONS FORECAST FOR THE SECOND DAY ARE A RESULT OF THE M5/1B FROM REGION 2372.

III. EVENT PROBABILITIES 06 APRIL - 08 APRIL

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 APRIL 223

PREDICTED 06-08 APRIL 218/220/222

90-DAY MEAN 05 APRIL 191

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 04 APRIL 09

ESTIMATED AFR/AP 05 APRIL 10/10

PREDICTED AFR/AP 06-08 APRIL 15/18 25/35 16/20

SOLTERWARN

BT