

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO.

SDF NUMBER 100

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 APRIL 1980

I.A. SOLAR ACTIVITY HAS BEEN ONLY BARELY MODERATE FOR THE PAST 24 HOURS. THE LARGEST EVENT OBSERVED WAS AN M1/1B FROM REGION 2377 (S08E54) MAXING AT 0522 UT. REGION 2377 HAS BECOME MORE MAGNETICALLY COMPLEX (BETA-GAMMA) TODAY. REGIONS 2370 (N2W20) AND 2372 (N12W37) HAVE REMAINED MOSTLY STABLE. REGION 2375 (S30E48) HAS DEVELOPED A DELTA IN ITS TRAILER PORTION. TWO NEW REGIONS WERE NUMBERED TODAY. THEY ARE 2382 (S07W90) A C-TYPE GROUP, AND 2383 (S37W51) AN A-TYPE SPOT. IV

I.B. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH MAJOR FLARES POSSIBLE FROM REGIONS 2370, 2372, AND 2375. REGIONS 2370 AND 2372 ARE IN A FAVORABLE LOCATION FOR PROTON EFFECTS AT EARTH IN THE EVENT OF A SIGNIFICANT EVENT.

III. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO MINOR STORM LEVELS FOR THE PAST 24 HOURS. TWO SUDDEN COMMENCEMENTS WERE RECORDED. THE FIRST WAS 28 GAMMAS ON 08 APRIL 2335 UT, AND THE SECOND WAS 20 GAMMAS ON 09 APRIL 0508 UT. A LOCAL K INDEX OF 5 (81 GAMMAS DEVIATIONS) OCCURRED BETWEEN 1200 AND 1500 UT TODAY, BUT THE FIELD IS QUIETING DOWN AND IS EXPECTED TO RELAX TO UNSETLED AND THEN QUIET LEVELS BY THE THIRD DAY. INTERVALS OF ACTIVE CONDITIONS MAY OCCUR DURING LOCAL NIGHTIME HOURS.

III. EVENT PROBABILITIES 10 - 12 APRIL

CLASS M 9 0/90/90

CLASS X 3 0/3 0/3 0

PROTON 3 0/3 0/3 0

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APR 247

PREDICTED 10 - 12 APR 247/247 245

90-DAY MEAN 09 APR 191

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 08 APR 18

ESTIMATED AFR/AP 09 APR 22/22

PREDICTED AFR/AP 10 - 12 APR 12/12 10/10 07/07

SOLTERWARN

BT