

HFUS 1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 908

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 08 JANUARY 1980

I.A. SOLAR ACTIVITY HAS BEEN MODERATE TO HIGH. REGION 2232 (S11E24) PRODUCED A X1/1B FLARE AT 1010Z. THIS FLARE PRODUCED STRONG SHORTWAVE FADE THROUGH 18 MHZ AND RADIO BURSTS THROUGH THE FULL SPECTRUM. ADDITIONALLY TYPE II (NORTHWEST CAPE OBS) AND TYPE IV (MANCAY OBS) DEKAMETRIC BURSTS WERE REPORTED. REGION 2232 HAS A PROBABLE DELTA CONFIGURATION IN THE TRAILING PORTION OF THE SUNSPOT STRUCTURE. REGION 2229 (N15W01) PRODUCED A M1/1B AT 0410Z. MINOR SHORTWAVE FADE AND CENTIMETRIC BURSTS ACCCOMPANIED THIS FLARE. THIS REGION HAS A BETA GAMMA MAGNETIC STRUCTURE. THOUGH FLARE ACTIVITY HAS BEEN MINIMAL, REGION 2228 (N15E17) HAS A POSSIBLE DELTA CONFIGURATION AT THE LARGE SUNSPOT AS A RESULT OF THE FLUX WHICH EMERGED YESTERDAY. OTHER DISK REGIONS HAVE BEEN STABLE TODAY.

I.B. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. ONE OR TWO CLASS X FLARES ARE POSSIBLE DURING THE NEXT THREE DAYS. REGIONS 2228, 2229, AND 2232 ARE CAPABLE OF PRODUCING ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED ON 09 AND 11 JAN WITH ACTIVE FIELD CONDITIONS ON 10 JAN IN RESPONSE TO TODAYS X1 FLARE.

III. EVENT PROBABILITIES 08 - 11 JAN

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JAN 243

PREDICTED 09-11 JAN 243/245/245

90-DAY MEAN 08 JAN 220

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 07 JAN 06

ESTIMATED AFR/AP 08 JAN 06/08

PREDICTED AFR/AP 09-11 JAN 10/10 22/25 12/12

SOLARFLAREWARNING 08 JAN 06/08

BT