HFUS 1 BOU 032200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 034
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 03 FEBRUARY 1980
IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. THE MOST SIGNIFICANT EVENT WAS AN M5/1B PARALLEL RIBBON FLARE FROM REGION 2266 (S15E14) WHICH MAXED AT 1402 UT AND WHICH LASTED 91 MINUTES (START TO X-RAY HALF-POWER). THE RADIO BURST AT 10CM WAS 620 FU, LASTING 69 MINUTES. EARLIER, REGION 2262 (N15W18) PRODUCED AN M2/2B FLARE (1012 UT), AND IT NOW SHOWS A DELTA MAGNETIC CONFIGURATION. REGIONS 2266 AND 2271 (N17E24) MAINTAINED THEIR MAGNETIC COMPLEXITY. DRAMATIC GROWTH WAS SEEN IN 2270 (N19E06), REGION 2267 (N12W07) DECAYED SIGNIFICANTLY, AND NEW REGION 2274 (N03E28), A B-TYPE GROUP, APPEARED TODAY.
IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT AT LEAST MODERATE LEVELS WITH INCREASING POTENTIAL FOR MAJOR FLARE EFFECTS FROM REGION 2266.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO REMAIN MOSTLY QUIET TOMORROW, INCREASING SHARPLY TO NEAR STORM LEVELS ON 5 AND 6 FEBRUARY OWING TO THE M5 FLARE TODAY. A SMALL PROTON EVENT IS POSSIBLE, BEGINNING NEAR 0000 UT ON 4 FEBRUARY AND ENDING ON THE SAME DAY. POLAR CAP ABSORPTION EFFECTS ARE NOT EXPECTED TO BE SIGNIFICANT.
III. EVENT PROBABILITIES 04 - 06 FEBRUARY

CLASS M	90/90/90
CLASS X	25/25/25
PROTON	10/15/15
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	03 FEB	233
PREDICTED	04-06 FEB	238/242/240
90-DAY MEAN	03 FEB	215

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	02 FEB	09
ESTIMATED AFR/AP	03 FEB	03/06
PREDICTED AFR/AP	04-06 FEB	05/08 20/15 20/18

SOLTERWARN
BT