

HFUS 1 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 032

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 FEB 1980

IA. SOLAR ACTIVITY REMAINED SLIGHTLY MODERATE DURING THE PAST 24
HOURS. SEVERAL CLASS "C" FLARES AND ONE CLASS "M" FLARE OCCURRED
WITH THE CLASS M COMING FROM REGION 2267 (N15E22) AT 0341 U.T.
APPARENTLY SOME SIMPLIFICATION HAS OCCURRED IN 2267 SINCE THE FLARE.
THE LEADER SPOT HAS SPLIT INTO TWO PENUMBRAS WITH UMBRAE AND THE
OPPORTUNITY FOR INTERACTION WITH REGION 2262 (N15E10) HAS BEEN
DIMINISHED. CONTRASTING CHANGES IN REGION 2266 (S15E38) HAVE BEEN
EQUALLY AS SIGNIFICANT. PENUMBRAL GROWTH IN 2266 HAS BEEN QUITE
DRAMATIC AND IT NOW HAS A MAGNETIC DELTA CONFIGURATION. THE SPOT IS
CLASSED AN "EKL" WHILE THE PLAGE IS DEFINITELY BRIGHTER, MORE
ORGANIZED AND BETTER STRUCTURED THAN YESTERDAY. TWO ADDITIONAL
SMALL SPOTS WERE NUMBERED TODAY; REGION 2270 (N19E34) AND 2271
(N18E51) BUT REGION 2266 SHOULD DOMINATE THE DISK FOR AT LEAST
THE NEXT THREE DAYS.

IB. SOLAR ACTIVITY WILL CONTINUE MODERATE. THE POSSIBILITY OF X
CLASS FLARES IS INCREASING.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED.
NO SIGNIFICANT CHANGE EXPECTED.

III. EVENT PROBABILITIES 02 FEB - 04 FEB

CLASS M 95/95/95

CLASS X 20/30/35

PROTON 10/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 FEB 224

PREDICTED 02-04 FEB 228/232/236

90-DAY MEAN 01 FEB 215

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 31 JAN 03

ESTIMATED AFR/AP 01 FEB 08/06

PREDICTED AFR/AP 02-04 FEB 07/08 06/07 06/08

SOLTERWARN

BT