

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 23

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 JANUARY 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW. REGION 2247 (S15W25)
HAS INCREASED SIGNIFICANTLY IN COMPLEXITY AND AREA AND HAS
BECOME INCREASINGLY MORE UNSTABLE. IT HAS STILL PRODUCED ONLY
C-CLASS FLARES THUS FAR. REGION 2256 (S12E55) HAS BEEN
ERUPTIVE THIS PERIOD, PRODUCING SEVERAL C-CLASS FLARES;
HOWEVER IT APPEARS VERY SIMPLE IN BOTH WHITE LIGHT AND
H-ALPHA. IT IS A C-CLASS BETA GROUP WITH 6 SPOTS. REGION
2247 APPEARS TO BE A COMPACT, D-TYPE GROUP WITH 29 SPOTS
COVERING ONLY A 9 DEGREE EXTENT. THE REGION HAS BEEN CHARACTER-
IZED BY AN ACTIVE FILAMENT, NUMEROUS BRIGHT POINTS AND
FLUCTUATING FLARE DURING THIS PERIOD.

IB. SOLAR ACTIVITY IS PREDICTED TO REACH SLIGHTLY MODERATE
LEVELS DURING THE NEXT 24 HOURS. REGION 2247'S POTENTIAL TO
PRODUCE MODERATE X-RAY CLASS FLARES CONTINUES TO INCREASE WITH
ITS RAPID GROWTH. NO OTHER REGION APPEARS TO HAVE THE
POTENTIAL TO PRODUCE M-CLASS FLARES AT THIS TIME.

II. THE GEOMAGNETIC FIELD HAS REMAINED AT QUIET LEVELS. THE
FIELD IS STILL EXPECTED TO BECOME INCREASINGLY UNSETTLED DURING
THE NEXT FORECAST PERIOD.

III. EVENT PROBABILITIES 24 - 26 JANUARY

CLASS M 50/55/60

CLASS X 05/10/10

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 JAN 172

PREDICTED 24-26 JAN 177/183/188

90-DAY MEAN 23 JAN 217

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 JAN 05

ESTIMATED AFR/AP 23 JAN 06/07

PREDICTED AFR/AP 24-26 JAN 10/10 11/12 14/15

SOLTERWARN

BT