

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 046 ISSUED 2200Z 15 FEBRUARY 1972

A. SOLAR ACTIVITY IS AT A HIGH LEVEL. NEARLY THIRTY FLARES
HAVE OCCURRED THE FIRST 18 HOURS OF THIS ZULU DAY. THE
LARGEST RESPONSE WAS TO A SN/IN AT 0336Z; M2 XRAY WITH 63
FU AT 2700 MHZ, MODERATE TYPE 3 DEKAMETRIC FROM 15-400
MHZ AND STRONG SWF 10-18 MHZ. REGION 063 /S15E06/ IS A NEW
REVERSED POLARITY SET. REGION 061 /S20E17/ CONTINUES ITS
GROWTH AND IS THE HOTTEST SOLAR REGION. THESE TWO REGIONS
COMBINED WITH REGION 051/S17E11/ IS A LARGE ACTIVE CENTER ON
THE SUN. REGION 057/S06E47/ AND REGION 064/S09E50/ PROVIDES
ANOTHER AREA THAT HAS BEEN FLARE ACTIVE. A NEW REGION IS
ROTATING ON TO THE DISK NEAR NE 05. THE XRAY BACKGROUND 1-8
ANG IS ABOVE THE CLASS C THRESHOLD AVERAGING 2 TIMES 10⁻³
ERGS/CM²/SEC. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

B. UP TO FIVE CLASS M EVENTS PER DAY ARE EXPECTED FROM
THE TWO ACTIVE SOLAR CENTERS. THE GEOMAGNETIC FIELD IS
EXPECTED TO REMAIN UNSETTLED.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS
BEGINNING 16 FEB/0000Z ENDING 18 FEB/2400Z.

CLASS M OR GREATER 95/90/90

CLASS X 15/10/10

PROTON EVENT 25/15/20

D. OTTAWA 10.7 CM FLUXES FOR 14/1400Z 1700Z AND 2000Z WERE
150, 150 AND 150. PREDICTED 10.7 CM FLUXES FOR 16-18 FEB
ARE 155/160/~~163~~.163

E. MAGNETIC A-FREDERICKSBURG FOR 14 FEB WAS 12. FOR 15 FEB
ABOUT 10. PREDICTED AP FOR 16-18 FEB ARE 12/08/14.

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