

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.

SOLTERWARN

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