

HFUS 1 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 255

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 24 FEB 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
REGION 1574 (N17W73) WAS RESPONSIBLE FOR THE ONLY CLASS M XRAY  
BURST SO FAR THIS ZULU DAY AND IT WAS ASSOCIATED WITH A SUB-  
BRIGHT FLARE AT 1547Z. (MAX TIME) SHORT WAVE FADES TO 18  
MHZ WERE OBSERVED WITH THIS EVENT BUT NO OTHER ENERGETIC  
RESPONSES WERE REPORTED. REGIONS 1591 (S22E60) AND 1588  
(S20W16) ARE THE ONLY OTHER REGIONS THAT HAVE FLARED AND THEY  
WERE ONLY SUBFAINTS AT 1437Z AND 1934Z (MAX) RESPECTIVELY.

IB. WITH THE WEST LIMB PASSAGE OF REGION 1574, A MARKED  
DECREASE IN THE LEVEL OF ACTIVITY CAN BE EXPECTED. A NEW  
REGION, 1591, IS THE ONLY REGION THAT HAS COME OVER THE  
EAST LIMB IN THE PAST 2 DAYS AND ONLY ONE REGION IS AN-  
TICIPATED BACK IN THE NEXT 3 DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED.  
UNSETTLED CONDITIONS WITH POSSIBLE ACTIVE CONDITIONS IN  
NIGHTIME SECTORS CAN BE EXPECTED FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 25-27 FEB

CLASS M 50/30/20

CLASS X 10/05/01

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 FEB 186

PREDICTED 25-27 FEB 181/176/171

90-DAY MEAN 24 FEB 195

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 FEB 22

ESTIMATED AFR/AP 24 FEB 14/17

PREDICTED AFR/AP 25-27 FEB 15/15 - 10/10 - 08/08

SOLTERWAR N

BT