

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 027

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL DURING THE PAST 24 HOUR PERIOD. REGION 4398 (N14W02) PRODUCED A M1/SB EVENT AT 27/0705UT, WITH AN ASSOCIATED 2695MHZ RADIO BURST OF 140SFU, AND CENTIMETRIC BURSTS OF 350SFU ON 4995MHZ/690SFU ON 8800MHZ. IT LATER PRODUCED A 1B OPTICAL FLARE AT 1253UT, BUT WITH AN X-RAY STRENGTH OF ONLY C5. THIS REGION CONTINUED TO GROW IN AREA AND WHITE-LIGHT SPOT NUMBER, AND IT WAS STILL A BETA/GAMMA/DELTA-TYPE FOR MAGNETIC CONFIGURATION. 1 NEW REGION WAS ASSIGNED: REGION 4403 (N13E44) WAS A SIMPLE BETA TYPE BUT PRODUCED A SUB-FLARE AT 27/1848UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT A MODERATE LEVEL THROUGHOUT THE FORECAST PERIOD. REGION 4398 CONTINUES TO POSE A VERY SLIGHT CHANCE OF HIGH LEVEL ACTIVITY AND WITH ITS TRANSITION ONTO THE WESTERN LONGITUDES, WILL ALSO OFFER A VERY SLIGHT CHANCE OF PROTON ENHANCEMENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN AT UNSETTLED TO ACTIVE LEVELS DURING THE PAST 24 HOUR PERIOD. BRIEF MINOR STORM LEVELS WERE REPORTED AT MID AND HIGH LATITUDE SITES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT AN ACTIVE LEVEL THROUGHOUT THE FORECAST PERIOD. BRIEF PERIODS OF STORM LEVEL ACTIVITY ARE EXPECTED AT MID AND HIGH LATITUDES.

III. EVENT PROBABILITIES 28 JAN-30 JAN

CLASS M 85/85/85

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JAN 178

PREDICTED 28 JAN-30 JAN 180/180/175

90 DAY MEAN 27 JAN 098

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 JAN 015/022

ESTIMATED AFR/AP 27 JAN 010/015

PREDICTED AFR/AP 28 JAN-30 JAN 020/025-020/025-020/025

SOLTERWARN

BT