

BT  
HFUS 3 BOU 172200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 048  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 17 FEB 1983  
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100  
TO 17/2100Z: SOLAR ACTIVITY REMAINS VERY LOW THIS PERIOD. NO  
OPTICAL EVENTS WERE OBSERVED. NO ENHANCEMENTS IN XRAY  
BACKGROUND OF ANY CONSEQUENCE OCCURRED. THREE SMALL REGIONS  
RETAIN SPOTS AT FILE TIME. OF THESE, REGION 4090(S17E28) HAS  
MORE THAN DOUBLED IN SIZE THIS PERIOD AND IS NOW A SMALL B  
CLASS GROUP, MAGNETICALLY BETA. REGION 4092(S09E80) IS A SMALL  
H CLASS SPOT WHICH APPEARED OVER THE EAST LIMB DURING THE  
PERIOD.  
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE AT VERY LOW LEVELS DURING THE FORECAST PERIOD. NEITHER  
CURRENT REGIONS NOR ANY EXPECTED TO RETURN APPEAR CAPABLE OF  
SIGNIFICANT ACTIVITY.  
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z:  
THE GEOMAGNETIC FIELD WAS GENERALLY ACTIVE WITH PERIODS  
APPROACHING UNSETTLED AT MIDLATITUDE. THE GENERAL TREND HAS  
BEEN TOWARD UNSETTLED LEVEL.  
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO CONTINUE A TREND TOWARD UNSETTLED LEVEL EARLY IN  
THE FORECAST PERIOD AND IS EXPECTED TO BE UNSETTLED WITH  
OCCASIONAL BRIEF ACTIVE PERIODS DURING THE FORECAST INTERVAL.  
III. EVENT PROBABILITIES 18 FEB-20 FEB  
CLASS M 01/01/01  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN  
IV. OTTAWA 10.7 CM FLUX  
OBSERVED 17 FEB 094  
PREDICTED 18 FEB-20 FEB 100/105/112  
90 DAY MEAN 17 FEB 164  
V. GEOMAGNETIC A INDICES  
OBSERVED AFR/AP 16 FEB 023/028  
ESTIMATED AFR/AP 17 FEB 015/015  
PREDICTED AFR/AP 18 FEB-20 FEB 010/010-015/010-015/015  
SOLTERWARN  
BT