

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

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