

HFUS 3 BOU 192200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 050  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 19 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. SEVERAL VERY SMALL EVENTS WERE OBSERVED IN REGION 4090(S16E01) EARLY IN THE REPORT PERIOD. NO ACTIVITY HAS OCCURRED SINCE 18/1800Z. REGION 4090 HAS DECLINED BY ABOUT HALF IN WHITE LIGHT. REGIONS 4091(S12E35), AND 4092(S09E53) REMAIN STABLE REGIONS WITH SINGLE SPOTS. A NEW REGION TODAY HAS DEVELOPED TWO SMALL SPOTS AND EXHIBITS AFS, REGION 4093(S17W33). XRAY BACKGROUND AND WHOLE DISK 10 CM RADIO EMISSION HAVE BOTH DECLINED TODAY. A PARTIAL FILAMENT DISAPPEARANCE IS REPORTED NEAR UNSPOTTED REGION 4088(S12W59).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW. LITTLE OR NO POTENTIAL FOR ACTIVITY IS EVIDENT IN REGIONS PRESENTLY IN VIEW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETLED WITH MIDLATITUDE K-INDICES RANGING FROM 0 TO 4 FOR THE OBSERVATION INTERVAL.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED TO NEAR QUIET FOR THE FORECAST PERIOD. AN ISOLATED K-INDEX OF 4 AT MIDLATITUDE IS POSSIBLE DURING NIGHTTIME HOURS EARLY IN THE FORECAST.

III. EVENT PROBABILITIES 20 FEB-22 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 FEB 097

PREDICTED 20 FEB-22 FEB 105/109/113

90 DAY MEAN 19 FEB 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 FEB 012/017

ESTIMATED AFR/AP 19 FEB 010/010

PREDICTED AFR/AP 20 FEB-22 FEB 010/015-010/015-010/015

SOLTERWARN

BT