

HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SOT NUMBER 049

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z FEBRUARY 19 79 **1846**

I A. SOLAR ACTIVITY HAS BEEN HIGH. REGION 1574 (N 17E 10) HAD AN X1/SB FLARE AT 0639 U. T., A 1B FLARE AT 1615 U. T., AND AN M4/SB AT 1947 U. T. OPTICALLY IT IS STABLE. REGION 1568 (N 18W 18) HAS HAD AN X1/2B FLARE AT 1636 U. T., AN M1/1N FLARE AT 1310 U. T. AND AN M1 AT 2115 U. T. OPTICALLY IT HAS DECAYED SLIGHTLY AND IS A D-TYPE GROUP. REGION 1560 (S 17W 80) IS NOW A D-TYPE GROUP. REGIONS 1571 (N 21W 49) AND 1572 (N 02W 09) HAVE DECAYED AND BOTH ARE NOW C-TYPE GROUPS. REGION 1576 (S 21W 46) HAS DECAYED TO AN H-TYPE GROUP. THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

B. SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH. REGIONS 1568 AND 1574 ARE THE MOST LIKELY SOURCES OF M AND X FLARES.

II. THE GEOMAGNETIC FIELD HAD AN SC AT 0302 U. T. WITH CONDITIONS ACTIVE UNTIL 18 U. T. CONDITIONS TOMORROW SHOULD BE UNSETLED TO SLIGHTLY ACTIVE UNTIL APPROXIMATELY 21 U. T. WHEN FLARE INDUCED EFFECTS SHOULD BEGIN AGAIN. ACTIVE TO MINOR STORM CONDITIONS ARE EXPECTED ON FEB 20 AND 21. PROTONS ARE EXPECTED AT APPROXIMATELY 01 U. T. ON 19 FEB.

III. EVENT PROBABILITIES 19 - 21 FEB

CLASS M 90/90/90

CLASS X 40/40/40

PROTON 60/30/30

PCAF RED

IV. OTTAWA 10.7 CM FLUX

ESTIMATED 18 FEB 220

PREDICTED 19 - 21 FEB 220/220/220

90-DAY MEAN 19 FEB 190

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 17 FEB 03

ESTIMATED APR/APR 18 FEB 13/14

PREDICTED APR/APR 19 - 21 FEB 13/20 30/30 25/25

SOLIERWARN

BT