

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 049

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100 TO 18/2100Z: SOLAR ACTIVITY HAS BEEN AT A HIGH LEVEL DURING THE PAST 24 HOUR PERIOD. REGION 4421 (N15E63) PRODUCED A X2/2B EVENT AT 17/2301Z WITH A TENFLARE OF 560 SFU; TYPE II AND IV RADIO SWEEP; AND SHORT WAVE FADE. IT ALSO PRODUCED THE LATER EVENTS: M1/SF AT 18/0206Z; M1 AT 18/0423Z; AND M1/0B AT 18/1610Z. IT GREW TO 1430 MILLIONTHS IN AREA AND EVOLVED INTO A H-ALPHA EKI CLASSIFICATION WITH A BETA-DELTA MAGNETIC CONFIGURATION. NO NEW REGIONS WERE ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT A MODERATE LEVEL THROUGHOUT THE FORECAST PERIOD. REGION 4421 PROVIDES A SLIGHT CHANCE OF HIGH LEVEL ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN AT UNSETTLED TO ACTIVE LEVELS DURING THE PAST 24 HOUR PERIOD. STORM LEVELS HAVE BEEN OBSERVED AT SOME HIGH LATITUDE SITES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 19 FEB-21 FEB

CLASS M 80/80/80

CLASS X 15/15/15

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 FEB 126

PREDICTED 19 FEB-21 FEB 135/145/160

90 DAY MEAN 18 FEB 108

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 FEB 009/012

ESTIMATED AFR/AP 18 FEB 017/020

PREDICTED AFR/AP 19 FEB-21 FEB 015/020-010/010-015/015

SOLTERWARN

BT