

HFUS 3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 055

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 24 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4098 (S16E59) HAS PRODUCED TWO LOW LEVEL CLASS C FLARES. NEW SUNSPOT STRUCTURE, ACCOMPANIED WITH ARCH FILAMENTS, ARE EMERGING IN REGION 4098. REGION 4094 (N14E11) HAS HAD SLOW GROWTH AND EMBEDDED ARCH FILAMENTS INDICATE THIS GROWTH WILL CONTINUE. REGION 4099 (S18E75) HAS ROTATED ON TO THE DISK BUT THE ACCOMPANYING PLAGE IS DULL. HOWEVER, SURGING CONTINUES FROM SE22 TO 26 INDICATING THAT ANOTHER REGION IS NEARING EAST LIMB PASSAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH A CHANCE FOR AN ISOLATED ENERGETIC FLARE FROM REGION 4098. IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN PREDOMINANTLY UNSETTLED; HOWEVER, PERIODS OF ACTIVE CONDITIONS OCCURRED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THESE VARIED CONDITIONS ARE EXPECTED TO CONTINUE BUT WITH AN INCREASE IN THE LENGTH OF ACTIVE PERIODS BEGINNING THE LATTER PART OF 25 FEBRUARY. THIS EXPECTED INCREASE WILL BE THE MAGNETOSPHERIC RESPONSE TO A CORONAL HOLE.

III. EVENT PROBABILITIES 25 FEB-27 FEB

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 FEB 117

PREDICTED 25 FEB-27 FEB 122/127/132

90 DAY MEAN 24 FEB 157

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 FEB 011/018

ESTIMATED AFR/AP 24 FEB 011/010

PREDICTED AFR/AP 25 FEB-27 FEB 013/010-015/015-015/015

SOLTERWARN

BT