

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 058

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY CONTINUES AT A LOW LEVEL. HOWEVER, AN INCREASE IN THE FREQUENCY OF SMALL FLARES HAS BEEN OBSERVED. THESE FLARES OCCURRED FROM RANDOM SOURCES AND NONE WERE LARGER THAN C1. REGION 4102 (S15E67) WHICH PRODUCED TWO OF THE SUBFLARES IS THE ONLY VISIBLE REGION THAT SHOWS ANY SIGNS OF BEING A CONSISTENT FLARE PRODUCER AS OCCASIONAL LIMB ACTIVITY CONTINUES TO BE OBSERVED WHERE 4102 ROTATED OVER. REGION 4095 (S09W68) REGAINED ITS SMALL SPOT GROUP AND REGION 4103 (S15E14) DEVELOPED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW WITH SUBFLARES OCCURRING FREQUENTLY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: QUIET TO UNSETTLED CONDITIONS ARE EXPECTED TO PERSIST FOR THE NEXT 24 TO 48 HOURS.

III. EVENT PROBABILITIES 28 FEB-02 MAR

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 FEB 141

PREDICTED 28 FEB-02 MAR 144/146/146

90 DAY MEAN 27 FEB 156

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 FEB 003/003

ESTIMATED AFR/AP 27 FEB 007/010

PREDICTED AFR/AP 28 FEB-02 MAR 010/010-010/010-010/010

SOLTERWARN

BT