

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 140

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY CONTINUES TO BE VERY LOW. REGION 4656(N07E26) HAS GROWN IN WHITE LIGHT AND AN ISOLATED POLE OF LEADER POLARITY HAS EMERGED IN THE FOLLOWER PLAGE. AN EMBEDDED FILAMENT HAS BEEN CONTINUALLY ACTIVE AS MAGNETIC GRADIENTS HAVE INCREASED AS WELL. ONLY ONE SUBFLARE--A QN/B4 WITH MAXIMUM AT 1454Z-- WAS OBSERVED IN THE REGION AS THE RESTRUCTURING CONTINUED. REGION 4655(S08E04) WAS QUIET WHILE GROWING SLIGHTLY. SURGING HAS BEEN OBSERVED AT WEST LIMB NEAR S13 WITH THE DEPARTURE OF REGION 4652.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. REGION 4656 IS THE MOST LIKELY FLARE SOURCE AND THE ACTIVITY LEVEL COULD INCREASE IF THE REGION REMAINS DYNAMIC.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO ACTIVE CONDITIONS ARE FORECAST FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 21 MAY-23 MAY

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 085

PREDICTED 21 MAY-23 MAY 084/084/082

90 DAY MEAN 20 MAY 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 MAY 009/015

ESTIMATED AFR/AP 20 MAY 008/015

PREDICTED AFR/AP 21 MAY-23 MAY 010/015-013/020-013/020

SOLTERWARN

BT