

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 079

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4636 (S16E72) WAS NUMBERED TODAY. THIS REGION IS CURRENTLY SPOTLESS, HOWEVER IT PRODUCED A SUBFAINT FLARE AT 20/1901UT WITH AN ASSOCIATED BRIGHT SURGE. REGION 4633 (S12W06) HAS SHOWN SOME DECAY SINCE YESTERDAY BOTH IN AREA AND IN THE NUMBER OF SPOTS. TODAY REGION 4633 IS A BXO SPOT GROUP WITH A BETA-TYPE MAGNETIC CLASSIFICATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY QUIET TO UNSETTLED. AN ISOLATED DISTURBANCE FROM 1800-2400UT YIELDED ACTIVE CONDITIONS AT ALL LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED ON THE FIRST DAY OF THE FORECAST PERIOD. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED TO PREVAIL FOR THE REST OF THE PERIOD. THIS ACTIVITY IS BASED ON RECURRENT PATTERNS.

III. EVENT PROBABILITIES 21 MAR-23 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAR 075

PREDICTED 21 MAR-23 MAR 073/072/071

90 DAY MEAN 20 MAR 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 MAR 007/012

ESTIMATED AFR/AP 20 MAR 008/010

PREDICTED AFR/AP 21 MAR-23 MAR 010/015-014/015-015/015

SOLTERWARN

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