

HFUS3 BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 090

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 31 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100 TO 31/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4636 (S11W76) PRODUCED THE ONLY ACTIVITY INCLUDING SURGING SEEN BEYOND THE WEST LIMB AND 2 SUBFAINT FLARES. REGION 4637 (N06W44), THE LARGEST REGION ON THE DISK, REMAINED MOSTLY STABLE. TWO NEW REGIONS WERE NUMBERED. A PLAGE REGION WHICH CAME OVER THE EAST LIMB YESTERDAY ACQUIRED SPOTS TODAY AND IS NOW REGION 4640 (S26E56), A B-TYPE GROUP WHICH IS OF REVERSED POLARITY AND MAY BELONG TO THE NEW CYCLE. NEW REGION 4641 (N04W31) IS A PAIR OF A-TYPE SPOTS WHICH DEVELOPED LATE IN THE DAY EAST OF REGION 4637. THERE WAS AN ACTIVE PROMINENCE ON THE WEST LIMB NEAR S40 AND SURGING WAS REPORTED ON THE WEST LIMB NEAR N11 AND S11.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. TWO REGIONS DUE TO RETURN ON 3 APRIL WERE BOTH QUIESCENT LAST ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN MOSTLY QUIET FOR THE LAST 24 HOURS EXCEPT FOR marginally active conditions during local north american nighttime hours.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE FOR THE NEXT THREE DAYS. THIS FORECAST IS BASED PRIMARILY ON RECURRENT CONDITIONS SEEN FOR AT LEAST THE LAST THREE ROTATIONS WHICH WERE ASSOCIATED WITH A POSITIVE-POLARITY CORONAL HOLE EXTENDING FROM THE SOUTHERN POLAR CAP CORONAL HOLE. HOWEVER, THIS ROTATION THE HOLE IS VERY WEAK AND GEOMAGNETIC EFFECTS MAY ALSO BE WEAK.

III. EVENT PROBABILITIES 01 APR-03 APR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7-CM FLUX

OBSERVED 31 MAR 074

PREDICTED 01 APR-03 APR 070/070/070

90 DAY MEAN 31 MAR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 MAR 005/010

ESTIMATED AFR/AP 31 MAR 012/015

PREDICTED AFR/AP 01 APR-03 APR 020/030-020/025-015/025

SOLTERWARN

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