

HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 101

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 APR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100 TO 11/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NO SPOTTED REGIONS WERE OBSERVED ON THE DISK. AN ACTIVE PROMINENCE WITH A POINT BRIGHTENING WAS REPORTED ON THE EAST LIMB (S13E90) EARLY IN THE PERIOD, BUT THE ACTIVITY HAD DIMINISHED BY FORECAST TIME. THIS PROMINENCE MAY BE EVIDENCE OF THE RETURN OF REGION 4634 WHICH PRODUCED ONLY SUB-FAINT FLARES LAST ROTATION. A THREE (3) DEGREE LONG FILAMENT AT S20W63 ASSOCIATED WITH PLAGE REGION 4642 (S22W78) HAD DISAPPEARED BY MID-DAY. THIS DISAPPEARANCE IS NOT EXPECTED TO PRODUCE SIGNIFICANT ACTIVITY. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. NO SIGNIFICANT REGIONS ARE DUE TO RETURN FOR THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST 24 HOURS. ISOLATED PERIODS OF MINOR STORM CONDITIONS OCCURRED AT HIGH AND MID LATITUDE STATIONS EARLY IN THE PERIOD BUT THE ACTIVITY DID NOT PERSIST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 12 APR-14 APR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 APR 069

PREDICTED 12 APR-14 APR 069/070/072

90 DAY MEAN 11 APR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 APR 013/016

ESTIMATED AFR/AP 11 APR 014/016

PREDICTED AFR/AP 12 APR-14 APR 010/020-008/015-012/015

SOLTERWARN

BT