HFUS 3 BOU 112200 FROM SPACE ENVIRONMENT SERVICES CENTER. BOULDER. COLORADO SDF NUMBER 102 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY. ISSUED 2200Z 11 APR 1984 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100 TO 11/2100Z: SOLAR ACTIVITY WAS LOW, REGION 4468 (N11E59) PRODUCED SEVERAL SUB-FLARES WITH ASSOCIATED B-LEVEL X-RAYS. IT WAS A CAO CLASSIFICATION IN WHITE-LIGHT WITH 7 SPOTS. 170 MILLIONTHS AREA. 9 DEGREES LONGITUDENAL EXTENT, AND A BETA MAGNETICAL CONFIGURATION. IT WAS STILL DEVELOPING AT THE CLOSE OF THE PERIOD. A MAGNETOGRAM IMPLIED THE POSSIBILITY OF A GAMMA CONFIGURATION IN THE TRAILING SPOT GROUP, AND THIS WAS ALSO SUGGESTED BY OBSERVATION. IT HAD ACTIVE DARK FILAMENTS AND POINT BRIGHTENINGS. REGION 4460 (S10W72) PRODUCED A ØN FLARE IN CONGRESS WITH A SURGE ON THE LIMB TO .16 RADII AT 11/0554Z. INVESTIGATION DETERMINED THAT NO LOOPS EXISTED. BUT ARCHES WERE OBSERVED. AN UNCORRELATED C1-LEVEL X-RAY EVENT AT 11/0042Z WAS ACCOMPANIED BY SMALL RADIO BURSTS AND A WEAK TYPE III SWEEP WHICH INDICATED IT CAME FROM REGION 4460, BUT NO OPTICAL VERIFICATION CONFIRMED THIS. OUR PRIMARY ASTROGEOPHYSICAL TELETYPE/COMMUNICATIONS CIRCUIT WAS STILL COMPLETELY OUT-OF-COMMISSION. ESSENTIAL RELAY OF DATA WAS PROVIDED BY AFGWC/WSE WITH REAL-TIME AND POST-EVENT RESEARCH. NO NEW REGION WAS ASSIGNED. IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4468 PROVIDES A SLIGHT CHANCE OF MODERATE LEVELS. NO IMMEDIATE RESTORAL OF OUR TELETYPE CIRCUIT IS EXPECTED. MAINTENANCE IS WORKING THE PROBLEMS. IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: GEOMAGNETIC ACTIVITY WAS UNSETTLED TO ACTIVE. IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE THROUGHOUT THE FIRST AND SECOND DAYS (12/13 APR). THIS IS PREMISED ON HISTORICALLY ACTIVE CARRINGTON LONGITUDES INCLUDING A SOLAR SECTOR BOUNDARY PASSAGE OF 8 APR. --MINOR-STORM LEVELS ARE EXPECTED AT HIGH LATITUDES THROUGH THE FIRST/SECOND DAYS. THE GEOMAGNETIC ACTIVITY IS EXPECTED TO DECREASE TO UNSETTLED-TO-ACTIVE LEVELS FOR THE THIRD DAY (14 APR). III. EVENT PROBABILITIES 12 APR-14 APR CLASS M 15/20/25 CLASS X 01/01/01 PROTON 01/01/01 PCAF GREEN IV. OTTAWA 10.7 CM FLUX OBSERVED 11 APR 097 PREDICTED 12 APR-14 APR 098/108/117 90 DAY MEAN 11 APR 129 V. GEOMAGNETIC A INDICES OBSERVED AFR/AP 10 APR 008/010 ESTIMATED AFR/AP 11 APR 016/015 PREDICTED AFR/AP 12 APR-14 APR 021/020-016/025-014/015 SOL TERWARN

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