

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 101

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY WAS LOW. BEFORE IT ROTATED AROUND THE LIMB, REGION 4458 (N18W100) PRODUCED A C6-LEVEL X-RAY EVENT AT 10/0056Z, WITH SIGHTED SURGING AND ASSOCIATED TYPES II AND IV RADIO SWEEPS. THIS WAS THE GREATEST X-RAY DURING THE PERIOD. REGION 4462 (S12W58) PRODUCED A B4/0N EVENT AT 10/0018Z. ONE NEW REGION WAS ASSIGNED. REGION 4468 (N11E71) WAS SURGING WITH OCCASIONAL FLUCTUATIONS TO FLARE INTENSITY. IT WAS SEEN AS A SIMPLE ALPHA-TYPE ON THIS FIRST DAY. OUR PRIMARY ASTROGEOPHYSICAL TELETYPE/COMMUNICATION CIRCUIT WAS STILL COMPLETELY OUT-OF-COMMISSION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4468 IS ASSUMED TO BE RETURNING REGIONS 4448/4441 (N08, CAR138/N12, CAR132). THESE REGIONS PRODUCED NO EVENTS GREATER THAN SUB-FLARES AND C-LEVEL X-RAYS DURING THEIR LAST ROTATION, BUT THE SURGING TO .03 RADII INDICATES MORE ACTIVITY THIS TIME. RETURNING REGION 4443 (N13, CAR-110) IS EXPECTED AT 11/2000Z. THESE TWO AREAS PROVIDE A SLIGHT CHANCE OF MODERATE LEVEL ACTIVITY. NO IMMEDIATE RESTORAL OF OUR TELETYPE CIRCUIT IS EXPECTED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: GEOMAGNETIC ACTIVITY WAS AT UNSETTLED TO MINOR STORM LEVELS. THE FIELD DROPPED FROM A MINOR STORM TO ACTIVE LEVEL AT 10/0300Z, AND HAS BEEN GRADUALLY DECREASING TO THE UNSETTLED LEVEL AT THE CLOSE OF THE PERIOD. THIS INITIAL ACTIVITY WAS THE LAST EFFECT OF THE DISAPPEARING FILAMENT OF 6 APR.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 11 APR-13 APR

CLASS M 10/15/20

CLASS X 01/017/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 APR 094

PREDICTED 11 APR-13 APR 101/106/115

90 DAY MEAN 10 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 APR 023/033

ESTIMATED AFR/AP 10 APR 010/010

PREDICTED AFR/AP 11 APR-13 APR 010/015-015/020-012/025

SOLTERWARN

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