

HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 113

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN GENERALLY LOW THIS PERIOD. FLARE ACTIVITY HAS BEEN LIMITED TO OPTICAL FLARES (THE LARGEST WAS A 2B FLARE OUT OF REGION 4468 (N08W89) AT 0425 UT) AND C CLASS X-RAY FLARES (THE LARGEST WAS A C5 ASSOCIATED WITH THE 2B FLARE). REGION 4468 SHOWS SOME SURGING AS IT ROTATES OFF THE DISK. REGION 4474 (S11E67) IS THE MOST IMPRESSIVE SPOT GROUP ON THE DISK WITH A F TYPE SPOT CLASSIFICATION AND A BETA MAGNETIC CONFIGURATION. THIS REGION COULD BE THE RESULT OF A COLLISION OF OLD REGIONS 4454 AND 4455. NO NEW REGIONS WERE NUMBERED THIS PERIOD AND THE REST OF THE DISK APPEARS STABLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MODERATE THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED, AT ALL LATITUDES, THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE LEVELS, AT ALL LATITUDES, THE FIRST DAY OF THE FORECAST PERIOD. ACTIVITY SHOULD THEN INCREASE TO STORM LEVELS, AT ALL LATITUDES, THE REMAINDER OF THE FORECAST PERIOD. THIS INCREASE IN ACTIVITY SHOULD BE DUE TO THE RETURN OF RECURRENT CORONAL HOLE STREAMS.

III. EVENT PROBABILITIES 23 APR-25 APR

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 APR 129

PREDICTED 23 APR-25 APR 132/135/135

90 DAY MEAN 22 APR 131

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 APR 011/015

ESTIMATED AFR/AP 22 APR 009/010

PREDICTED AFR/AP 23 APR-25 APR 020/025-035/040-040/040

SOLTERWARN

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