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HFMIS 3-B011 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 227

JOINT USAF/NASA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2207Z 15 AUG 1973

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY IS JUST BARELY AT MODERATE LEVELS. AN M1 AT 150039Z (MAX) OCCURRED SIMULTANEOUSLY WITH A SUBNORMAL FLARE IN REGION 4279 (S05W23) AND A SUBBRIGHT FLARE IN REGION 4929 (S29W30). REGION 4279 APPEARS TO HAVE REGENERATED SLIGHTLY IN ITS TRAILING PORTIONS AS A COMPACT CLUSTER OF NEW SPOTS IN THAT AREA HAVE INCREASED THE SPOT COUNT AND EXTENDED THE LENGTH OF THE REGION. REGION 4279 HAS CONTINUED TO DECAY AND MAY HAVE LOST THE PENUMBRA ON ITS TRAILER SPOTS. THE REST OF THE DISK REGIONS ARE QUIET.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LEVEL WHERE AT LEAST ONE M EVENT PER DAY IS LIKELY.

III. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD WAS UNSETLED DURING THE PAST 24 HOURS.

IV. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO RESPOND TO THE RECENT FLURRY OF FLARE ACTIVITY RESULTING IN ACTIVE CONDITIONS ON 16 AUG AND EARLY ON 17 AUG.

V. EVENT PROBABILITIES 16 AUG-17 AUG

CLASS X 80/70/70

CLASS Y 81/81/81

PROTON 81/81/81

PCAF GREEN

VI. OTTAWA 10.7 CM FLUX

OBSERVED 15 AUG - 129

PREDICTED 16 AUG-17 AUG 125/122/121

90 DAY MEAN 15 AUG 134

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 14 AUG 010/013

ESTIMATED AFR/AP 15 AUG 010/015

PREDICTED AFR/AP 16 AUG-17 AUG 000/015-014/015-000/015

SOLARFLARE

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