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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 2324

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 20 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
19/1200Z TO 20/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3279 (S16E14) PRODUCED  
A M<sub>2</sub>/1B FLARE 19/1316Z WITH ASSOCIATED MODERATE RADIO BURSTS ON  
ALL FREQUENCIES AND A STRONG SHORT WAVE FADE. OTHERWISE IT HAS  
PRODUCED ONLY SURFLARES, AND APPEARS TO BE A STABLE MATURE  
REGION. REGIONS 3266 (S14W29) AND 3284 (S09E48) HAVE NOT CHANGED  
SIGNIFICANTLY. REGION 3266 PRODUCED 6 SMALL C CLASS XRAY EVENTS  
IN THE PAST 24 HOURS. SMALL REGION 3281 (N11E32) IS GROWING  
RAPIDLY BUT THE ONLY ACTIVITY WAS A C4/SR FLARE AT 20/0228Z.  
SMALL NEW REGION, 3286 (S05W33) DEVELOPED ON THE DISK NEAR REGION  
3266.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE NEXT THREE  
DAYS. CLASS M XRAY EVENTS ARE POSSIBLE FROM REGIONS 3266, 3279  
AND 3284.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED DURING THE PAST 24 HOURS.  
ACTIVE CONDITIONS ARE EXPECTED 21-22 AUG BASED ON RECURRENCE FROM  
LAST ROTATION.

III. EVENT PROBABILITIES: 21-23 AUG

CLASS M 75/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 19 AUG 245

ESTIMATED 20 AUG 257

PREDICTED 21-23 AUG 257/255/247

90 DAY MEAN 19 AUG 178

V. GEOMAGNETIC INDICES

OBSERVED AFR 18 AUG 23 (AP) 19 AUG 13

ESTIMATED AFR 19 AUG 11 (AP) 20 AUG 10/11

PREDICTED AFR/AP 21-23 AUG 20/25 18/20 14/20

SOLTERWARN

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HELIUS 3 BOUT 602200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 23284

JOINT USAF/NCAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 20 AUGUST 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200Z TO 20/2100Z: SOLAR ACTIVITY WAS AT LOW LEVELS THIS PERIOD WITH SEVERAL SUBFLARES BEING OBSERVED. THE LARGEST EVENT WAS A C5/1B AT 1848Z FROM REGION 3279 (S17E09). REGIONS 3279 AND 3266 (S14W37) HAVE BEEN THE ONLY ONES TO REMAIN CONSISTENTLY ACTIVE THROUGH THE DAY.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL CONTINUE AT LOW TO MODERATE LEVELS.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETLED TO ACTIVE LEVELS. IT IS FORECAST TO BE MOSTLY ACTIVE DURING THE NEXT 72 HOURS.

IV. EVENT PROBABILITIES 21 AUGUST - 23 AUGUST

CLASS M 75/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 20 AUGUST 258

PREDICTED 21-23 AUGUST 257/255/247

90-DAY MEAN 20 AUGUST 179

VI. GEOMAGNETIC A INDICES

OBSERVED AER/AP 19 AUGUST 12/13

ESTIMATED AER/AP 20 AUGUST 10/11

PREDICTED AER/AP 21-23 AUGUST 20/25 - 18/20 - 14/20

SOLARFLARES

PT