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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDR NUMBER 031A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 19 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
18/1200Z TO 19/1200Z:

SOLAR ACTIVITY IS STILL AT LOW LEVELS. MINOR FLARE ACTIVITY HAS
CONTINUED, HOWEVER, WITH SEVERAL REGIONS PRODUCING THESE EVENTS.
REGION 3266 (S16W16) IS STILL THE MOST PROMINENT REGION ON THE
DISK AND HAS BEEN THE MOST ACTIVE REGION. NEITHER REGION 3279
(S27E27) NOR REGION 3284 (S09E59) APPEAR AS THREATENING AS
YESTERDAY.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW TO MODERATE
LEVELS. AT MOST, ONE M-CLASS EVENT PER DAY IS EXPECTED FOR THE
NEXT 3 DAYS. THE ATHENS SOLAR OBSERVATORY REPORTED AN ACTIVE
SURGE REGION ON THE LIMB AT S05, INDICATING THE POSSIBILITY OF
A RETURNING ACTIVE REGION.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE, AND ACTIVE
CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS. A CORONAL HOLE
PASSAGE, A DISAPPEARING FILAMENT ON 18 AUG, AND RECURRENCE
FROM THE LAST TWO SOLAR ROTATIONS ALL SUGGEST CONTINUED ACTIVITY.

III. EVENT PROBABILITIES: 20-22 AUG

CLASS M . . . 75/75/85

CLASS X . . . 05/05/05

PROTON . . . 05/05/05

POAE . . . GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED . . . 18 AUG 238

ESTIMATED . . . 19 AUG 242

PREDICTED . . . 20-22 AUG 245/248/251

90 DAY MEAN . . . 18 AUG 177

V. GEOMAGNETIC A INDEXES

OBSERVED AFR . . . 17 AUG 24 AP 18 AUG 25

ESTIMATED AFR . . . 18 AUG 24 AFR/AP 19 AUG 13/13

PREDICTED AFR/AP 20-22 AUG 15/19 20/25 18/20

SOLARFLARE

RT

HEUS 3 EQU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDE NUMBER 231B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200Z 19 AUGUST 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 19/2100Z: SOLAR ACTIVITY WAS MODERATE THIS PERIOD DUE TO A M2.1P EVENT FROM REGION 3279 (S16E21) AT 1316Z. STRONG SHORT WAVE FADE, TO 15 MHZ AND ALSO FLUX UNIT BURST AT 2695 MHZ WERE OBSERVED WITH THIS EVENT.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE NEAR MODERATE LEVELS DURING THE FORECAST PERIOD.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. THE FIELD IS EXPECTED TO BE AT OR NEAR ACTIVE LEVELS DURING THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 20 AUGUST - 22 AUGUST

CLASS M 75/75/85

CLASS X 05/05/05

PPOTON 05/05/05

PCAF GREEN

V. GEOMAGNETIC ACTIVITIES

OBSERVED AFR/AP 18 AUGUST 23/25

PREDICTED 20-22 AUGUST 248/251/248

90-DAY MEAN 19 AUGUST 178

SOLTERWARN RT