

HFUS 1 BOU 141240
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 257A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 14 SEPTEMBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
13/1200Z TO 14/1200Z:

SOLAR ACTIVITY HAS BEEN LOW. BOTH REGIONS 3317 (N10W54) AND
3329 (N19E29) HAVE PRODUCED CLASS C FLARES. 3317 HAS BEEN
STABLE WITH LESSENING GRADIENTS AND 3329 HAS SHOWN GROWTH.
REGION 3332 (N13E21) HAS BEEN EMERGING RAPIDLY SINCE YESTERDAY
AND IS NOW A CLASS D GROUP WHICH IS PRODUCING FREQUENT SUBFLARES.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD RESUME MODERATE LEVELS. REGION 3317
SHOULD PRODUCE INTERRMITTENT CLASS M FLARES. 3329 AND NOW POSSIBLY
3332 SHOULD ALSO PRODUCE LESS FREQUENT MODERATE ACTIVITY. 3317
IS ONLY SLIGHTLY LESS CAPABLE OF PRODUCING ANOTHER MAJOR FLARE
PRIOR TO WEST LIMB TRANSIT. REGION 3284 HAS NOT RETURNED ACTIVE
AND THESE LONGITUDES ARE NOT NOW CONSIDERED POTENTIALLY
THREATENING.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THIS LEVEL OF GEOMAGNETIC
FIELD ACTIVITY IS EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 15 - 17 SEPT

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 13 SEPT 227

ESTIMATED 14 SEPT 228

PREDICTED 15-17 SEPT 228/229/232

90 DAY MEAN 13 SEPT 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 SEPT 13 AP 13 SEPT 14

ESTIMATED AFR 13 SEPT 07 AFR/AP 14 SEPT 07/10

PREDICTED AFR/AP 15-17 SEPT 10/10 09/10 09/10

SOLTERWARN

BT

HFUS 3 BOU 142200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 257B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 14 SEPTEMBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW. A C8/1B FLARE WAS OBSERVED IN REGION 3332 (N15E17) AT 14/1816Z. REGION 3317 (N09W61) PRODUCED ONLY A SUB-BRIGHT FLARE WITH MODEST DISCRETE FREQUENCY RADIO EMISSION AT THE SHORTER WAVELENGTHS. THREE NEW REGIONS WERE NUMBERED TODAY: 3339 (S17E55), 3340 (N10E73), 3341 (S07E75), TWO HAVING MOVED ONTO THE DISK OVER NIGHT. ALL THREE MODEST, THE LATTER TWO A OR H CLASS GROUPS. REMAINING REGIONS APPEAR STABLE OR DECLINING.

I B. SOLAR ACTIVITY FORECAST: MODERATE ACTIVITY IS EXPECTED WITH ACTIVITY LIKELY FROM REGIONS 3317, 3329 (N19E21), 3332 (N15E17). REGION 3317 APPEARS STILL CAPABLE OF MAJOR ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO REMAIN AT UNSETTLED LEVELS THROUGHOUT THE FORECAST INTERVAL.

III. EVENT PROBABILITIES 15 SEPTEMBER - 17 SEPTEMBER

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 SEPTEMBER 239

PREDICTED 15-17 SEPTEMBER 232/235/235

90-DAY MEAN 14 SEPTEMBER 205

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 SEPTEMBER 08/14

ESTIMATED AFR/AP 14 SEPTEMBER 09/10

PREDICTED AFR/AP 15-17 SEPTEMBER 10/10 - 09/10 - 09/10

SOLTERWARN

BT