

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

IA. 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.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD RESUME MODERATE LEVELS. REGION 3317
SHOULD PRODUCE INTERMITTENT 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 UNSETTLED. 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

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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

IA. 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.

IB. 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

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