

HEUS 1 BOU 261300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 269A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 26 SEPT 1981

TA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 26/1200Z:

SOLAR ACTIVITY HAS BEEN LOW ONLY C CLASS XRAY EVENTS WERE OBSERVED. REGIONS 3361 (S08W22), 3362 (N15W04) HAVE SHOWN RAPID GROWTH. MOST OF THE OTHER REGIONS APPEAR IN DECLINE. NONE SHOWS POTENTIAL FOR MAJOR ACTIVITY. A C7 EVENT WAS OBSERVED AT 26/1007Z ACCCOMPANIED BY AN ACTIVE SURGE REGION (O.12R) FROM S18E90. THIS EVENT WAS A RAPID RISE LONG DURATION EVENT (42 MIN) SUGGESTING THE IMINENT ARRIVAL ON THE DISK OF A REGION WITH POSSIBLE MAJOR POTENTIAL.

TB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY MAY BE EXPECTED TO REMAIN AT LOW LEVELS UNTIL RETURNING REGIONS CONTRIBUTE SUFFICIENTLY TO ACTIVITY. A TREND TOWARD INCREASING ACTIVITY APPEARS TO BE BEGINNING. IT MAY BE SEVERAL MORE DAYS BEFORE MODERATE LEVELS ARE AGAIN EXPERIENCED.

TC. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE LATE IN THIS REPORT PERIOD GIVING K-INDICES OF 5 SEQUENTIALLY. A RETURN TOWARD UNSETTLED LEVEL IS EXPECTED DURING 26 SEPT AND A GENERAL TREND TOWARD LOW UNSETTLED LEVELS IS EXPECTED THROUGHOUT THE FORECAST INTERVAL.

TD. EVENT PROBABILITIES: 27-29 SEPT

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

TE. OTTAWA 10.7 FLUX

OBSERVED 25 SEPT 181

ESTIMATED 26 SEPT 186

PREDICTED 27-29 SEPT 192/198/206

90 DAY MEAN 25 SEPT 209

VE. GEOMAGNETIC A INDICES

OBSERVED AFR 24 SEPT 08 AP 25 SEPT 14

ESTIMATED AFR 25 SEPT 13 AFR/AP 26 SEPT 25/23

PREDICTED AFR/AP 27-29 SEPT 14/12 12/12 10/10

SOLARFLARE

BT

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 260B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 SEP 81

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 26/2100Z:

SOLAR ACTIVITY HAS INCREASED TO A MODERATE LEVEL. A M1 XRAY EVENT AT 1318Z AND ASSOCIATED LOOP PROMINENCE SYSTEM OBSERVED AT 1430Z TO .11 SOLAR RADII WERE PRODUCED BY A NEW REGION 3369 (S15E78). THE MAIN PORTION OF THIS REGION IS STILL BEHIND THE EAST LIMB WITH ONLY A LARGE LEADING SPOT VISIBLE IN WHITE LIGHT. ANOTHER NEW REGION 3368 (N08E12) HAS DEVELOPED VERY RAPIDLY ON THE DISK. IT CONTAINS A SPOT GROUP OF CLASS/AREA D/60. REGIONS 3361 (S08W28) AND 3362 (N16W10) CONTINUE TO GROW BUT ARE STILL RELATIVELY SMALL REGIONS.

II. SOLAR ACTIVITY FORECAST:

Moderate solar activity is possible from new region 3369 as it rotates onto the disk. Minor flares are also likely from regions 3368, 3361 and 3362.

III. GEOPHYSICAL SUMMARY AND FORECAST:

The geomagnetic field has been active for the past 18 hours.

Unsettled conditions are expected during the forecast period.

III. EVENT PROBABILITIES 27 - 29 SEP:

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 SEP 188

PREDICTED 27 - 29 SEP 192/198/206

90 DAY MEAN 26 SEP 209

V. GEOMAGNETIC A' INDICES

OBSERVED AFR/AP 25 SEP 013/014

ESTIMATED AFR/AP 26 SEP 024/026

PREDICTED AFR/AP 27 - 29 SEP 014/018 012/012 010/010

SOLTERWARN

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