

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 28 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200UT
TO 28/2200UT:

SOLAR ACTIVITY HAS CONTINUED AT LOW LEVELS DURING THIS PERIOD.
WITH ONLY TWO C-CLASS X-RAY, NO OPTICAL, EVENTS REPORTED. NEW
REGION 3138 (S11W23) IS A C-TYPE GROUP THAT HAS DEVELOPED EAST OF
REGION 3136 (S12W32).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT OR NEAR ACTIVE LEVELS. THE FIELD
IS EXPECTED TO BE ACTIVE THROUGH 29 MAY THEN UNSETLED TO QUIET THE
REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29-31 MAY

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAY 177

PREDICTED 29-31 MAY 180/180/175

90-DAY MEAN 28 MAY 210

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 MAY 08/11

ESTIMATED AFR/AP 28 MAY 15/15

PREDICTED AFR/AP 29-31 MAY 18/20 - 10/12 - 07/12

SOLTERWARN

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HFUS 1 POU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 148A

JOINT USAF/NCAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 28 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200UT TO 28/1200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGIONS 3121 (N04W16), 3129 (S07E30), AND 3123 (N18W40) ARE NOW OF COMPARABLE SIZE AND COMPLEXITY BUT APPARENTLY DO NOT POSSESS THE POTENTIAL FOR MORE THAN THE OBSERVED OCCASIONAL C-CLASS SUBFLARES. THERE ARE ONLY THREE OTHER SPOT GROUPS ON THE VISIBLE DISK BUT THEY ARE OF MINOR SIGNIFICANCE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. HOWEVER, REGIONS 3121 AND 3129 COULD PRODUCE ISOLATED M-CLASS EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS QUIET UNTIL LATE ON 27 MAY WHEN THE FIELD BECAME UNSETLED. UNSETLED TO OCCASIONALLY ACTIVE CONDITIONS ARE EXPECTED THROUGH TOMORROW, DECREASING TO QUIET LEVELS BY THE THIRD DAY. THIS ACTIVITY IS ATTRIBUTED TO THE EFFECTS OF AN EQUATORIAL CORONAL HOLE.

III. EVENT PROBABILITIES: 29 MAY - 31 MAY

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 27 MAY 172

ESTIMATED 28 MAY 177

PREDICTED 29-31 MAY 180/185/195

90 DAY MEAN 27 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 MAY 09 AP 27 MAY 11

ESTIMATED AFR 27 MAY 08 AFR/AP 28 MAY 12/15

PREDICTED AFR/AP 29-31 MAY 18/20 10/12 07/12

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