

HFUS 3 ROU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 147B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 0200UT 27 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200UT TO 27/2200UT:

SOLAR ACTIVITY HAS REMAINED LOW THIS PERIOD. ONLY A FEW SMALL
C-CLASS EVENTS HAVE BEEN RECORDED. NEW REGION 3137 (NOTE 56)
ALTHOUGH SPOTLSS PRODUCED A SE, NO X-RAY, EVENT AT 0744 UT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. THE FIELD IS
EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD EXCEPT
FOR 29 MAY WHEN A SHORT PERIOD OF ACTIVE CONDITIONS ~~ARE~~ ~~EXPECTED~~
EXPECTED.

III. EVENT PROBABILITIES: 28-30 MAY

CLASS M 30/35/40

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 27 MAY 172

PREDICTED 28-30 MAY 175/179/183

90 DAY MEAN 27 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 MAY 09/13

ESTIMATED AFR/AP 27 MAY 08/10

PREDICTED AFR/AP 28-30 MAY 12/15 18/20 10/12

SOLTERWARN

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HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 147A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 27 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

26/1200UT TO 27/1200UT:

SOLAR ACTIVITY HAS CONTINUED LOW FOR THE PAST 24 HOURS. REGION 3121 (N03W03) HAS PRODUCED SEVERAL LOW C -CLASS XRAY EVENTS BUT REMAINS MOSTLY STABLE DESPITE ACTIVE FILAMENT SYSTEMS, BRIGHT POINTS AND PLAGE FLUCTUATIONS. REGION 3129 (S07E41) HAS GROWN AND LEARMONTH OBSERVATORY REPORTS THAT IT HAS THE STRONGEST MAGNETIC GRADIENTS OF THE VISIBLE REGIONS. REGION 3123 (N18W40) IS GROWING SLOWLY, HAS AN ACTIVE CIRCULAR INVERSION LINE, AND HAS PRODUCED SEVERAL SUBFLARES. NONE OF THE NEW REGIONS WHICH HAVE ROTATED OVER THE EAST LIMB APPEAR TO BE PARTICULARLY COMPLEX AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH THE CONTINUING POSSIBILITY OF ISOLATED M-CLASS ACTIVITY FROM 3121.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOUR. CONDITIONS ARE EXPECTED TO BECOME UNSETTLED TO ACTIVE ON 28 AND 29 MAY RETURNING TO LOW UNSETTLED LEVELS ON THE THIRD DAY. FORECAST ACTIVITY IS BASED ON THE PRESENCE OF AN EQUATORIAL CORONAL HOLE INFERRED FROM HELIUM 10830 ANGSTROM SPECTROHELIOGRAPHS FROM KITTEPEAK OBSERVATORY.

III. EVENT PROBABILITIES: 28 MAY - 30 MAY

CLASS M 30/35/40

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 MAY 169

ESTIMATED 27 MAY 172

PREDICTED 28-30 MAY 175/179/183

90 DAY MEAN 26 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 MAY 24 AP 26 MAY 13

ESTIMATED AFR 26 MAY 10 AFR/AP 27 MAY 06/10

PREDICTED AFR/AP 28-30 MAY 12/15 18/20 10/12

SOLTERWARN

BT