

HFUS 3 BOUL 270500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 147A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 27 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1129 (N18E10) HAD A SF FLARE
AT 2228Z. OTHERWISE ONLY SMALL CLASS C XRAY EVENTS WITH NO OPTICAL
ASSOCIATION. NEW REGION 1137 (S23E64) IS AN A-TYPE GROUP. AN EPL
OCCURRED AT SW54 AT 0110Z. IT EXTENDED TO 0.4 SOLAR RADII. THE REST OF
THE DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 8 HOURS. CONDITIONS
ARE EXPECTED TO BE UNSETLED TO ACTIVE.

III. EVENT PROBABILITIES 27 MAY - 29 MAY

CLASS M 60/70/75

CLASS X 05/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 146

PREDICTED 27 - 29 MAY 151/155/158

90-DAY MEAN 26 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 MAY 13

ESTIMATED AFR/AP 26 MAY 10/12

PREDICTED AFR/AP 27 - 29 MAY 18/18 - 35/28 - 22/22

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HFUS 3 BOU 271500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 27 MAY 1978

I. SOLAR ACTIVITY HAS BEEN MODERATE THIS U.T. DAY. SEVEN CLASS C EVENTS HAVE BEEN OBSERVED, THE LARGEST A C8 AT 1009Z. REGION 1129 (N18E04) HAS REMAINED STABLE BUT RETAINS ITS ENERGETIC FLARE CAPABILITY. REGION 1134 (N19E42) HAS SHOWN SIGNIFICANT SPOT GROWTH AND IS INCREASING IN COMPLEXITY RAPIDLY. REGION 1133 (N21W06) IS AT NEAR FLARE INTENSITY AND HAS SHOWN SOME SPOT GROWTH.

II. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL. THE GROWTH OF REGION 1133 COULD RESULT IN INCREASED INTERACTION WITH REGION 1129 WHICH COULD INSTIGATE SIGNIFICANT ACTIVITY. REGION 1134 HAS BECOME CAPABLE OF PRODUCING ENERGETIC FLARES AND CONTINUED GROWTH WILL INCREASE THE PROBABILITY OF THAT PRODUCTION.

III. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD SHOULD REMAIN QUIET BUT RECURRENT PATTERNS INDICATE ACTIVE CONDITIONS SHOULD BEGIN WITHIN THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 27 MAY - 29 MAY

CLASS M 60/70/75

CLASS X 05/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 146

PREDICTED 27 - 29 MAY 151/155/158

90-DAY MEAN 26 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 MAY 13

ESTIMATED AFR/AP 26 MAY 10/12

PREDICTED AFR/AP 27 - 29 MAY 07/08 - 23/28 - 20/22

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HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDE NUMBER 147

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. ELEVEN CLASS C X-RAY EVENTS HAVE OCCURRED. REGION 1134 (N20E43) IS SHOWING SPOT GROWTH AND PRODUCED A CA/1B FLARE AT 1558Z. REGION 1133 (N23W09) CONTINUES ITS GROWTH IN WHITE LIGHT, ADDING TO THE COMPLEXITY OF THE AREA NEAR REGION 1129 (N18E72). THE LARGE PROMINENCE AT SW54 ERUPTED AT 0100Z. ERUPTIVES WERE ALSO OBSERVED AT NW25 AT 0505Z. AND 1725Z.

IB. THE LIKELIHOOD OF SIGNIFICANT SOLAR ACTIVITY REMAINS IN SPITE OF THE LACK OF MAJOR FLARES PRODUCED THIS DISK TRANSIT BY REGION 1129. THE COMPLEXITY OF NEARBY DYNAMIC REGIONS 1133 AND 1134 ADDING TO ALREADY COMPLEX REGION 1129 MAY RESULT IN HIGH LEVELS OF ACTIVITY TOMORROW.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. NO FLARE INDUCED ACTIVITY IS ANTICIPATED, BUT GEOMAGNETIC CONDITIONS ARE EXPECTED TO BECOME ACTIVE DURING THE NEXT 24 HOURS DUE TO RECURRENT PATTERNS.

III. EVENT PROBABILITIES 28 - 30 MAY

CLASS M	70/75/75
CLASS X	10/10/10
PROTON	01/05/05
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	27 MAY 148
PREDICTED	28 - 30 MAY 150/153/148
90-DAY MEAN	27 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	26 MAY 07
ESTIMATED AFR/AP	27 MAY 05/07
PREDICTED AFR/AP	28 - 30 MAY 23/30 - 20/25 - 18/20

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