

HFUS 3 BOU 210430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 141A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 21 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. NO SIGNIFICANT
CHANGES HAVE BEEN NOTED IN DISK OR LIMB FEATURES.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET BUT SHOULD BECOME
ACTIVE IN THE NEXT 8-12 HOURS.

III. EVENT PROBABILITIES 21 MAY - 23 MAY

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 130

PREDICTED 21-23 MAY 135/140/145

90-DAY MEAN 20 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MAY 04

ESTIMATED AFR/AP 20 MAY 04/07

PREDICTED AFR/AP 21-23 MAY 20/25 - 25/34 - 18/22

SOLTERWARN

BT

HFUS 3 BOU 211500
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO
SDF NUMBER 141B
JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 21 MAY 1978
IA. SOLAR ACTIVITY CONTINUES AT A LOW LEVEL WITH FREQUENT SMALL C-
EVENTS. OPTICAL REPORTS HAVE BEEN LIMITED, BUT THE SOLAR DISK IS
APPARENTLY STABLE EXCEPT FOR THE NE AND SW LIMBS. CORONAL RAIN,
SURGES, BRIGHT FLARE AND AT LEAST ONE H-TYPE SPOT ARE BEING OBSERVED
WITH REGION 1129 (N18E77) AS IT ROTATES ON TO THE DISK. REGIONS
1110 (S20W1) CONTINUES TO PRODUCE SURGE ACTIVITY AS IT TRANSITS
WEST LIMB.
IB. THE LOW LEVEL OF SOLAR ACTIVITY SHOULD CONTINUE THRU THE FORECAST
PERIOD WITH INFREQUENT MINOR EVENTS MOSTLY FROM REGIONS 1129 AND
1110. IT IS TOO EARLY TO DETERMINE THE POTENTIAL OF 1129 DUE TO ITS
LIMB PROXIMITY.
II. THE RECURRENT GEOMAGNETIC DISTURBANCE EXPECTED TODAY HAS NOT
YET BEEN OBSERVED. GEOMAGNETIC CONDITIONS HAVE BEEN RELATIVELY QUIET.
MORE ACTIVE LEVELS ARE EXPECTED LATER IN THE FORECAST PERIOD.
III. EVENT PROBABILITIES 21 MAY - 23 MAY
CLASS M 30/30/30
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 20 MAY 130
PREDICTED 21-23 MAY 135/140/145
90-DAY MEAN 20 MAY 147
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 19 MAY 04
ESTIMATED AFR/AP 20 MAY 04/07
PREDICTED AFR/AP 21-23 MAY 20/25 - 25/34 - 18/22
SOLTERWARN
BT

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 141

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 MAY 1978

IA. SOLAR ACTIVITY WAS AT A LOW LEVEL THE PAST 24 HOURS. MOST OF THIS SMALL ACTIVITY WAS ASSOCIATED WITH DEPARTING REGION 1110 (S21WL) IN THE FORM OF SURGES AND WITH REGION 1129 (N18E71) IN THE FORM OF SMALL FLARES AND SURGE ACTIVITY. REGION 1129 CONSISTS OF AT LEAST TWO H-TYPE SPOTS AND IMPORTANCE 3 TO 4 PLAGE EXTENDING TO THE LIMB. THIS AREA MAY BE MORE THAN ONE REGION. THE REMAINING DISK REGIONS HAVE BEEN RELATIVELY STABLE. MINOR PROMINENCE ACTIVITY WAS REPORTED ON THE WEST LIMB NEAR N45.

IB. THE LOW LEVEL OF SOLAR ACTIVITY SHOULD CONTINUE THRU THE FORECAST PERIOD WITH INFREQUENT CLASS M EVENTS FROM REGION 1129. THIS AREA WAS VERY PRODUCTIVE LAST ROTATION AND APPEARS TO RETAIN ITS CAPACITY FOR SIGNIFICANT ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL ABOUT 21/1900Z WHEN A MINOR DISTURBANCE BEGAN. THE FIELD IS NOW UNSETTLED AT BOULDER. CONDITIONS ARE EXPECTED TO BECOME ACTIVE THRU THE NEXT 24-48 HOURS.

III. EVENT PROBABILITIES 22 MAY - 24 MAY

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MAY 130

PREDICTED 22-24 MAY 133/136/139

90-DAY MEAN 21 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 MAY 07

ESTIMATED AFR/AP 21 MAY 12/12

PREDICTED AFR/AP 22-24 MAY 24/30 - 18/20 - 12/15

SOLTERWARN

BT