

HFUS 3 BOU 090435

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 129A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 09 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 7 HOURS
A C8 X-RAY BURST WITH MAXIMUM AT 09/0415Z HAD NO ASSOCIATED DISK
ACTIVITY AND THUS WAS PROBABLY DUE TO ACTIVITY IN REGION 1095
(N21W86) OR ITS NEIGHBOR, REGION 1092 (N23W100). DISK REGIONS HAVE
BEEN QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT MODERATE TO LOW LEVELS AS
SOON AS THE REMAINDER OF REGION 1095 DISAPPEARS BEHIND THE WEST
LIMB.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL 08/2345Z WHEN A
SUBSTANTIAL SUDDEN COMMENCEMENT WAS OBSERVED. SINCE THEN THE FIELD
HAS BEEN ACTIVE TO NEAR MINOR MAGNETIC STORM LEVELS. THE FIELD IS
EXPECTED TO BE GENERALLY ACTIVE FOR THE NEXT 48 HOURS WITH
OCCASIONAL PERIODS AT MINOR STORM LEVELS.

III. EVENT PROBABILITIES 09 MAY - 11 MAY

CLASS M 95/70/50

CLASS X 30/10/05

PROTON 30/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08SMAY 141

PREDICTED 09-11 MAY 135/130/130

90-DAY MEAN 08 MAY 148

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 MAY 08

ESTIMATED AFR/AP 08 MAY 12/13

PREDICTED AFR/AP 09-11 MAY 25/25 - 35/35 - 15/15

SOLTERWARN

BT

HFUS 3 BOU 091500D

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 129B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 09 MAY 1978

IA. SOLAR ACTIVITY HAS RETURNED TO A LOW TO MODERATE LEVEL AS REGIONS 1092 AND 1095 ROTATE OVER WEST LIMB. SIGNIFICANT X-RAY EVENTS THIS ZULU DAY HAVE BEEN A C8 (0415Z MAX), A C8 (1222Z MAX), AND AN M9 (1442Z MAX). THE M9 HAS BEEN IDENTIFIED WITH A LIMB FLARE IN REGION 1095, LOOP PROMINENCES ARE CURRENTLY DEVELOPING.

IB. SOLAR ACTIVITY IS EXPECTED TO RETURN TO A LOW LEVEL ON 10 MAY.

II. THE GEOMAGNETIC FIELD HAS BEEN AT STORM LEVEL. INTERMITTENT PERIODS OF STORM LEVEL ARE EXPECTED THROUGH 11 MAY. A PROTON EVENT MAY ACCOMPANY THE CURRENT M9 X-RAY FLARE

III. EVENT PROBABILITIES 09 MAY - 11 MAY

CLASS M 95/70/50

CLASS X 30/10/05

PROTON 30/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08MAY 141

PREDICTED 09-11 MAY 135/130/130

90-DAY MEAN 08 MAY 148

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 MAY 08

ESTIMATED AFR/AP 08 MAY 12/13

PREDICTED AFR/AP 09-11 MAY 25/25 - 35/35 - 15/15

SOLTERWARN

BT

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 129

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 MAY 1978

IA. SOLAR ACTIVITY WAS MODERATE. C-8 X-RAY EVENTS, WITH NO OPTICAL
COUNTER PARTS, OCCURRED AT 0415Z (MAX) AND 1222Z (MAX). A LIMB
FLARE, CALLED A 1B, PRODUCED AN M9 X-RAY MAX AT 1442Z. IMPORTANCE
3 SHORT WAVE FADES UP TO 45 MINUTES DURATION OCCURRED FROM 8-22
MHZ. THE CENTIMETRIC BURST WAS MINOR. THIS EVENT WAS FROM REGION
1095 JUST BEHIND WEST LIMB. LOOP PROMINENCES WERE OBSERVED
FROM FLARE MAX TO 1800Z. CULGOORA REPORTED A SIGNIFICANT METER RF
EVENT JUST BEFORE THEIR SUNSET. TYPE II EMISSION WAS OBSERVED FROM
0625-0655Z FOLLOWED BY TYPE IV EMISSION FROM 0658-0715Z. THE
LOW FREQUENCIES SUGGEST A LIMB EVENT AND LACK OF ACCOMPANING X-RAY
EVENT SUGGESTS THE METER EVENT MAY HAVE ORIGINATED FROM REGION
1092 TWO DAYS BEYOND WEST LIMB. MAUNO LOA REPORTED A DRASTIC
CHANGE IN THE K-CORONA IN THE NW QUADRANT BETWEEN THE END OF
THEIR OBS AT 0400Z AND THE START OF OBS AT 1700Z. EITHER OF THE
MAJOR EVENTS REPORTED ABOVE MAY HAVE PRODUCED A CORONAL TRANSIENT.
IB. SOLAR ACTIVITY IS EXPECTED TO DROP TO A LOW LEVEL. THE DISK
REGIONS ARE SIMPLE WITH ONLY REGION 1110 (S18E63) SHOWING SOME
GROWTH.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO MAJOR STORM LEVELS
THIS ZULU DAY. ACTIVE CONDITIONS, WITH PERIODS AT STORM LEVEL,
WILL CONTINUE THROUGH 12 MAY.

III. EVENT PROBABILITIES 10 MAY - 12 MAY

CLASS M 50/10/10

CLASS X 10/01/01

PROTON 30/10/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 MAY 133

PREDICTED 10-12 MAY 130/127/124

90-DAY MEAN 09 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 MAY 14

ESTIMATED AFR/AP 09 MAY 49/70

PREDICTED AFR/AP 10-12 MAY 40/50 - 35/40 - 35/40

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