

HFUS 3 BOU 290600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 119A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 29 APR 78

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1083 (N17W84) SHOWS SOME
FLARE FLUCTUATIONS AND MINOR SURGING. REGION 1095 (N22E49) HAD A
SN FLARE AT 2140Z. REGION 1092 (N21E28) IS STILL VERY COMPLEX WITH A
DELTA CONFIGURATION. A PCA STARTED AT ABOUT 29/0400Z. A PROTON EVENT
BEGAN AT ABOUT 28/2100Z.

IB. SOLAR ACTIVITY SHOULD BE MODERATE. MAJOR FLARING ACTIVITY
IS STILL EXPECTED FROM REGION 1092.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. CONDITIONS SHOULD BE UN-
SETTLED TO ACTIVE FOR THE REST OF TODAY.

III. EVENT PROBABILITIES 29 APR - 01 MAY

CLASS M 95/95/95

CLASS X 50/50/50

PROTON 15/15/20

PCA IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APRIL 197

PREDICTED 29 APRIL - 01 MAY 180/182/184

90-DAY MEAN 28 APRIL 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 APR 14

ESTIMATED AFR/AP 28 APR 13/18

PREDICTED AFR/AP 29 APR - 01 MAY 20/20 - 30/30 - 40/40

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HFUS 3 BOU 291500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 119B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 29 APR 78

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 12 HOURS BUT WITH A CONTINUED HIGH BACKGROUND OF X-RAY EMISSION. REGION 1092 (N22E23) CONTINUES AS A STRONG CLASS F SPOT GROUP WITH CHARACTERISTICS OF A PROTON/CLASS X FLARE SOURCE. A POLAR CAP ABSORPTION EVENT BEGAN AT ABOUT 29/0400Z BUT REMAINS WEAK AT THIS TIME. ACTIVE PROMINENCES AT NE LIMB INDICATE AN ADDITIONAL FLARING CENTER MAY APPEAR TODAY.

IB. SOLAR ACTIVITY WILL BE MODERATE AS REGION 1092 APPEARS CAPABLE OF ADDITIONAL GREAT EVENTS. PROTON EMISSION IS EXPECTED WITH ANY EVENTS M5 OR GREATER.

II. THE GEOMAGNETIC FIELD WILL CONTINUE QUIET FOR THE REST OF TODAY BUT MAY BECOME ACTIVE LATE IN THE FORECAST PERIOD AS FLARE EFFECTS AND SOLAR WIND STREAMS BEGIN TO AFFECT THE MAGNETOSPHERE.

III. EVENT PROBABILITIES 29 APR - 01 MAY

CLASS M	95/95/95
CLASS X	50/50/50
PROTON	15/15/20
FCA	IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED	28 APRIL 197
PREDICTED	29 APRIL - 01 MAY 180/182/184
90-DAY MEAN	28 APRIL 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	27 APR 14
ESTIMATED AFR/AP	28 APR 13/18
PREDICTED AFR/AP	29 APR - 01 MAY 07/07 - 30/30 - 40/40

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HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 119

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 APRIL 1978

IA. A MAJOR SOLAR FLARE X3/3B OCCURRED AT 1853Z WITH MAJOR RAPID
BURSTS OF TYPE II AND TYPE IV AND U-SHAPED SPECTRUM. THE FLUX AT
10 CM WAS 3580 F.U. AND THERE WAS SEVERE SWF THROUGH 18 MHZ. AGAIN
THE SOURCE WAS REGION 1092 (N16E18) WHICH HAS SHOWN SIGNIFICANT
SUNSPOT MOTIONS AMONG ITS STRONGEST SPOTS. IT CONTINUES AS A
COMPLEX CLASS E OR F GROUP. A POLAR CAP ABSORPTION EVENT HAS BEEN
IN PROGRESS FOR OVER 24 HOURS WITH PEAK OF 3DB AT ABOUT 1900Z.
REDUCTION IN RIOMETER READINGS AT 1930Z MAY BE DUE TO GROUND-LEVEL
COSMIC RAYS FROM TODAY'S MAJOR EVENT.

IB. REGION 1092 MAY GIVE ADDITIONAL MAJOR EVENTS AT RATE OF ONE
EVERY OTHER DAY DURING THIS FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET ALL DAY. A MINOR MAGNETIC
STORM IS EXPECTED EARLY TOMORROW AND A MAJOR STORM WILL COMMENCE
LATE ON THE SECOND DAY.

III. EVENT PROBABILITIES 30 APRIL - 02 MAY

CLASS M	95/95/95
CLASS X	50/50/50
PROTON	80/40/40
PCA	INPROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED	29 APRIL 183
PREDICTED	30 APRIL - 02 MAY 184/184/180
90-DAY MEAN	29 APRIL 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	28 APRIL 14
ESTIMATED AFR/AP	29 APRIL 04/08
PREDICTED AFR/AP	30 APRIL - 02 MAY 30/30 - 40/40 - 60/60

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