

HFUS 3 BOU 190530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 109A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 19 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGIONS 1070 (N14W62)
AND 1084 (S30E30) HAVE SHOWN GROWTH THRU THE PERIOD. NO SIGNIFICANT
EVENTS HAVE BEEN OBSERVED AND OTHER REGIONS ARE QUIET.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETTLED
CONDITIONS ARE EXPECTED.

III. EVENT PROBABILITIES 19 APRIL - 21 APRIL

CLASS M 50/60/60

CLASS X 30/30/30

PROTON 20/20/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 APRIL 133

PREDICTED 19-21 APRIL 132/131/130

90-DAY MEAN 18 APRIL 140

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 APRIL 06

ESTIMATED AFR/AP 18 APRIL 12/19

PREDICTED AFR/AP 19-21 APRIL 07/18 - 07/10 - 15/10

SOLTERWARN

BT

HFUS 3 BOU 191500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 109-B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 19 APR 1978

IA. SOLAR ACTIVITY WAS LOW DURING THE PAST NINE HOURS. REGION
1086 (N19E42) PRODUCED SEVERAL SUBFLARES ACCOMPANIED BY C-CLASS
X-RAY BURSTS AND CONTINUED TO GROW. REGIONS 1070 (N14W 64), 1074
(S43W 14) AND 1083 (N12E37) ARE ALSO GROWING AND PRODUCING SUBFLARE
ACTIVITY. OTHER DISK REGIONS WERE STABLE AND QUIET.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE DURING THE REST OF
THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM LEVELS DURING
THE PAST NINE HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR
THE REST OF THE ZULU DAY.

III. EVENT PROBABILITIES 19 - 21 APR

CLASS M 50/60/60

CLASS X 10/30/30

PROTON 10/20/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 APR 133

PREDICTED 19 - 21 APR 137/137/137

90-DAY MEAN 18 APR 140

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 APR 09

ESTIMATED AFR/AP 18 APR 12/19

PREDICTED AFR/AP 19 - 21 APR 15/18 - 12/12 - 10/10

SOLTERWARN

BT

HFUS 3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 109

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 APRIL 1978

IA. SOLAR ACTIVITY WAS LOW DURING THE PAST 24 HOURS WITH ONLY
C-CLASS FLARES. THE LARGEST EVENT WAS A C-8 X-RAY BURST (BEGAN
AT 19/0648Z, ENDED AT 0753Z) WHICH APPEARED TO HAVE BEEN
ASSOCIATED WITH A SUBNORMAL FLARE FROM REGION 1086 (N21E35).
REGION 1086 GREW SIGNIFICANTLY DURING THE PAST 24 HOURS WITH
FOINT BRIGHTENINGS, PLAGE FLUCTUATIONS, AND FREQUENT SUBFLARE
ACTIVITY. THE DELTA MAGNETIC CONFIGURATION IN REGION 1070 (N13W69)
HAS WEAKENED SINCE YESTERDAY. REGIONS 1083 (N16E36), 1084 (S28E19),
1073 (N17W51), AND 1080 (N30E01) PRODUCED OCCASIONAL SUBFLARES.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE
NEXT 24 HOURS. REGION 1086 SEEMS TO HAVE THE GREATEST POTENTIAL
FOR M-CLASS X-RAY ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM LEVELS AFTER
0/0500Z. ACTIVE CONDITIONS WITH OCCASIONAL MINOR STORM CONDITIONS
ARE EXPECTED ON 20 APRIL. UNSETTLED TO ACTIVE CONDITIONS SHOULD
EXIST ON 21 APRIL WITH A MODERATE RECURRENT DISTURBANCE BEGINNING
ON 22 APRIL.

III. EVENT PROBABILITIES 20 APRIL - 22 APRIL

CLASS M 55/65/70

CLASS X 10/15/20

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 APRIL 145

PREDICTED 20-22 APRIL 146/147/149

90-DAY MEAN 19 APRIL 141

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 APRIL 13

ESTIMATED AFR/AP 19 APRIL 17/29

PREDICTED AFR/AP 20-22 APRIL 18/25 - 10/15 - 25/30

SOLTERWARN

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