

HFUS 3 BOU 240530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 114A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 24 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 8 HOURS. X-RAY  
BACKGROUND LEVELS HAVE REMAINED HIGH AFTER THE M5 FLARE, NOW  
THOUGHT TO HAVE OCCURRED IN REGION 1086 (N21W20) AT 23/2030Z.  
SEVERAL C-CLASS BURSTS HAVE BEEN REPORTED, BUT OPTICAL REPORTS  
ARE SPARSE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT GENERALLY MODERATE TO  
HIGH LEVELS DURING THE NEXT 24 HOURS. REGION 1086 CONTINUES TO  
GROW AND IS CAPABLE OF PRODUCING AT LEAST M-CLASS EVENTS. THE  
NEW REGION SWINGING INTO VIEW AT THE EAST LIMB (ABOUT NE25) IS  
EXPECTED TO HAVE X-CLASS FLARE POTENTIAL.

II. A STRONG MAGNETIC BAY STARTED IN BOULDER AT 24/0130Z. THIS  
PRODUCED A MID-LATITUDE K-VALUE OF SIX. SINCE THEN THE FIELD  
HAS BEEN ACTIVE. THIS ACTIVITY IS APPARENTLY DUE TO RECURRENT  
INTERPLANETARY STRUCTURE AND THE FIELD IS EXPECTED TO BE AT  
ACTIVE LEVELS FOR FROM 24 TO 48 HOURS.

III. EVENT PROBABILITIES 24 APRIL - 26 APRIL

CLASS M 90/90/90

CLASS X 30/40/50

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 APRIL 161

PREDICTED 24-26 APRIL 155/160/165

90-DAY MEAN 23 APRIL 143

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 APRIL 09

ESTIMATED AFR/AP 23 APRIL 16/20

PREDICTED AFR/AP 24-26 APRIL 27/30 - 22/25 - 15/20

SOLTERWARN

BT

HFUS 3 BOU 241500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 114B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 24 APRIL 1978

IA. SOLAR ACTIVITY HAS CONTINUED AT A MODERATE LEVEL. REGION 1083  
(N14W 13) PRODUCED SEVERAL SUBFLARES DURING THE PAST 8 HOURS BUT  
NONE WERE VERY ENERGETIC. THE NORTHEAST LIMB REMAINS ACTIVE  
WITH SURGE AND PROMINENCE DISPLAYS. HOLLOMAN REPORTS THE LEADING  
EDGE OF A SPOT GROUP IS NOW VISIBLE AND THE VISIBLE SEGMENT OF PLAGE  
IS QUITE BRIGHT. OCCASIONAL POINT BRIGHTENINGS AND PLAGE FLUCTUATIONS  
CHARACTERIZED THE OTHER DISK REGIONS.

IB. SOLAR ACTIVITY WILL BE MODERATE TO HIGH FOR THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD IS DISTURBED. ACTIVE CONDITIONS SHOULD  
DOMINATE DURING DAYLIGHT HOURS WITH MINOR STORM CONDITIONS PREVALENT  
IN NIGHTTIME SECTORS FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 24 APRIL - 26 APRIL

CLASS M 90/90/90

CLASS X 30/40/50

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 APRIL 161

PREDICTED 24-26 APRIL 155/160/165

90-DAY MEAN 23 APRIL 143

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 APRIL 09

ESTIMATED AFR/AP 23 APRIL 16/20

PREDICTED AFR/AP 24-26 APRIL 27/30 - 22/25 - 15/20

SOLTERWARN

BT

HFUS 1 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 114

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 24 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 1083 (N15W25) HAS PRODUCED ONE SUB-BRILLIANT AND THREE SUB-NORMAL FLARES. REGIONS 1091 (N23W08) AND 1086 (N21W30) PRODUCED ONE SUBFAINT FLARE EACH. X-RAY BACKGROUNDS HAVE BEEN NEAR C-1 LEVELS AND X-RAY BURST HAVE BEEN SMALL. THE REGION IN THE NORTHEAST, NUMBER 1092 (N27E83) CONTINUES IT ROTATION ONTO THE DISK WITH AN H-TYPE SPOT VISIBLE SO FAR.

IB. THE COMPLEXITY OF REGIONS 1086, 1083 AND THE HISTORY OF REGION 1092 WOULD DICTATE A HIGH PROBABILITY FOR ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS AT MINOR TO MAJOR STORM LEVELS DURING THE PAST 24 HOURS. ACTIVE CONDITIONS IN DAYLIGHT SECTORS AND MINOR STORM CONDITIONS IN NIGHTTIME SECTORS CAN BE EXPECTED FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 25-27 APR

CLASS M 90/90/90

CLASS X 40/50/50

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 APR 158

PREDICTED 25-27 APR 163/165/168

90-DAY MEAN 24 APR 143

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 APR 24

ESTIMATED AFR/AP 24 APR 27/50

PREDICTED AFR/AP 25-27 APR 20/20 - 15/18 - 12/14

SOLTERWARN

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