

HFUS 3 BOU 070600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 341A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 07 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS. TWO
C-CLASS X-RAY EVENTS WERE OBSERVED. ONE AT 06/2357Z AND ONE AT
07/0239Z. ONLY SMALL SUBFLARES HAVE BEEN OBSERVED. REGION 947
(S21W12) AND 946 (N16W62) ARE BOTH CAPABLE OF PRODUCING ENERGETIC
FLARES. THE REST OF THE DISK APPEARS STABLE. REGION 952 (S18W34)
DEVELOPED ON THE DISK LATE ON THE 6TH. IS HAS NOT SHOWN ANY RAPID
GROWTH.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW TO MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IT IS EXPECTED TO BE
QUIET TO SLIGHTLY UNSETTLED.

III. EVENT PROBABILITIES 07 DECEMBER-09 DECEMBER

CLASS M 80/80/80

CLASS X 15/20/20

PROTON 10/20/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DECEMBER 109

PREDICTED 07 DECEMBER-09 DECEMBER 110/110/110

90-DAY MEAN 06 DECEMBER 098

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 DECEMBER 14

ESTIMATED AFR/AP 06 DECEMBER 04/04

PREDICTED AFR/AP 07-09 DECEMBER 06/07 - 10/15 - 20/25

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HFUS 3 BOU 071500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 341-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 07 DEC 1977

IA. SOLAR ACTIVITY IS LOW TO MODERATE. X-RAY FLARE PRODUCTION
THIS ZULU DAY IS JUST OVER ONE PER HOUR (CLASS C). CORROBORATING
OPTICAL REPORTS ARE SPARSE DUE TO WEATHER. PRESUMABLY THE FLARES
ARE FROM THE TWO MAGNETICALLY COMPLEX REGIONS; 946 (N16W70)
AND 947 (S21W20). REGION 950 (S26E47) ALSO CONTINUES ITS GROWTH
AT A MODERATE RATE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE. 1-3
CLASS M EVENTS ARE EXPECTED DURING THE FORECAST PERIOD WITH A CHANCE
FOR A CLASS X EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO SLIGHTLY UN-
SETTLED CONDITIONS ARE EXPECTED UNTIL THE EARTH ENCOUNTERS THE
HIGH SPEED STREAM OF THE EQUATORIAL CORONAL HOLE LATE ON 08 OR EARLY
ON 09 DECEMBER.

III. EVENT PROBABILITIES 07 DECEMBER-09 DECEMBER

CLASS M 80/80/80

CLASS X 15/20/20

PROTON 10/20/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DECEMBER 109

PREDICTED 07 DECEMBER-09 DECEMBER 110/110/110

90-DAY MEAN 06 DECEMBER 098

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 DECEMBER 14

ESTIMATED AFR/AP 06 DECEMBER 04/04

PREDICTED AFR/AP 07-09 DECEMBER 06/07 - 10/15 - 20/25

SOLTERWARN

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HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 341

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 07 DEC 1977

IA. SOLAR ACTIVITY IS MODERATE. X-RAY BURSTS HAVE BEEN NUMEROUS
WITH BACKGROUND CURRENTLY ABOVE CLASS C THRESHOLD (10-3 ERGS/CM2-
SEC). REGION 950 (S26E43) PRODUCED A IN/M1 AT 07/1534Z AND A
2B/M1 AT 07/1719Z. A MULTIPLE X-RAY BURST WHICH MAXED AS A C-9
AT 07/1947Z WAS ASSOCIATED WITH SIMULTANEOUS FLARES IN REGION 950,
946 (N16W73) AND 947 (S20W24). REGION 946 CONTAINS A MODERATE DELTA
CONFIGURATION. REGION 947 IS BETA GAMMA AND 950 IS PRESUMED TO BE
BETA GAMMA DUE TO PLAGE FLUCTUATIONS AND FLARE ACTIVITY. SOME
DEGREE OF SYMPATHETIC FLARING IS OCCURRING BETWEEN THESE THREE
REGIONS.

IB. CLASS M ACTIVITY IS EXPECTED TO CONTINUE WITH AT LEAST 1 CLASS
X EVENT LIKELY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO
BE QUIET TO UNSETTLED. SOMETIME DURING THE LATTER PORTION OF 08
DECEMBER OR EARLY ON THE 9TH; THE FIELD IS EXPECTED TO BECOME ACTIVE,
WITH PERIODS AT MINOR STORM LEVEL.

III. EVENT PROBABILITIES 08 - 10 DEC

CLASS M 95/95/95

CLASS X 50/50/50

PROTON 40/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 DEC 109

PREDICTED 08 - 10 DEC 110/110/111

90-DAY MEAN 07 DEC 98

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 DEC 04

ESTIMATED AFR/AP 07 DEC 02/05

PREDICTED AFR/AP 08 - 10 DEC 08/15 - 28/25 - 30/29

SOLTERWARN

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