

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 UNSETLED.

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	
BT	

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 (N 18W 70) AND 947 (S 21W 20). REGION 950 (S 26E 47) 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 UNSETTLED 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<sup>-3</sup> ERGS/CM<sup>2</sup>-SEC). REGION 950 (S26E43) PRODUCED A 1N/MI AT 07/1534Z AND A 2B/MI 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 UNSETLED. 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

BT