

HFUS 3 BOU 300600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO  
SDF NUMBER 364A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 30 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN LIMITED TO A 1N/M4 FLARE IN REGION 967  
(S18E40) AT 30/0410Z. A 300 F.U. BURST (2700 MHZ) OF 7 MINUTE DURA-  
TION ACCCOMPANIED THIS FLARE. THE X-RAY BURST WAS ALSO OF SHORT DURATION.  
FURTHER EVALUATION OF DISK REGIONS SINCE 29/2200Z NOT POSSIBLE DUE  
TO LIMITED OPTICAL REPORTS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 8 HOURS. GENER-  
ALLY UNSETTLED CONDITIONS, WITH SHORT PERIODS ACTIVE, ARE EXPECTED  
THROUGH 01 JANUARY.

III. EVENT PROBABILITIES 30 DEC 1977 - 01 JAN 1978

CLASS M 80/80/80

CLASS X 15/15/20

PROTON 05/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 DEC 112

PREDICTED 30 DEC - 01 JAN 113/115/118

90-DAY MEAN 29 DEC 98

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 DEC 09

ESTIMATED AFR/AP 29 DEC 10/10

PREDICTED AFR/AP 30 DEC - 01 JAN 15/15 - 12/12 - 12/12

SOLTERWARN

BT

HFUS 3 BOUL 301500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 364B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 30 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST EIGHT HOURS. A CLASS C-7 X-RAY BURST WAS RECORDED AT 30/1024Z WITH NO OPTICAL FLARE REPORTED AND REGION 967 (S 18E39) PRODUCED A SUB-BRILLIANT FLARE AT 1255Z WITH AN M-1 X-RAY BURST. OTHER ACTIVITY HAS BEEN LIMITED TO SMALL CLASS C EVENTS. MOST REGIONS ARE GENERALLY STABLE WITH 970 (S 19E65) HAVING SHOWN SOME GROWTH.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET WITH QUIET TO UNSETLED CONDITIONS EXPECTED THRU THE PERIOD.

III. EVENT PROBABILITIES 30 DEC 1977 - 01 JAN 1978

CLASS M 80/80/80

CLASS X 15/15/20

PROTON .05/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 DEC 112

PREDICTED 30 DEC - 01 JAN 117/118/120

90-DAY MEAN 29 DEC 98

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 DEC 09

ESTIMATED AFR/AP 29 DEC 09/09

PREDICTED AFR/AP 30 DEC - 01 JAN 09/10 - 12/12 - 12/12

SOLTERWARN

BT

HFUS 1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 364

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 30 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGIONS 967 (S18E31), 969  
(N20W03), AND 970 (S17E55) HAVE BEEN PRODUCING SUBFLARES THRU THE  
PERIOD. A IN FLARE AT 30/0412Z FROM REGION 967 PRODUCED AN M-5 X-  
RAY EVENT AND AN SB FLARE FROM THE SAME REGION PRODUCED AN M-1.  
NO SIGNIFICANT GROWTH OR CHANGE HAS BEEN OBSERVED IN OTHER DISK  
REGIONS.

IB. SOLAR ACTIVITY WILL REMAIN AT A MODERATE LEVEL. NO SIGNIFICANT  
CHANGE IS FORESEEN IN PRESENT REGIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD SHOULD REMAIN  
QUIET TO SLIGHTLY UNSETLED THRU THE PERIOD. THE POSSIBILITY OF  
PROTON AND PCAF EVENTS WILL INCREASE AS ACTIVE REGIONS NEAR THE  
WESTERN HEMISPHERE.

III. EVENT PROBABILITIES 31 DEC 77-02 JAN 78

CLASS M	90/90/90
CLASS X	15/20/20
PROTON	15/20/20
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	30 DEC 119
PREDICTED	31 DEC - 02 JAN 123/125/125
90-DAY MEAN	30 DEC 98

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	29 DEC 07
ESTIMATED AFR/AP	30 DEC 04/03
PREDICTED AFR/AP	31 DEC - 02 JAN 08/08 - 08/08 - 08/08
SOLTERWARN	

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