

HFUS 3 BOU 290530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 363A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 29 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST EIGHT HOURS.
REGION 970 (S16E77) HAS PRODUCED AN M1 EVENT A 1 NORMAL FLARE AT
29/0038Z. SEVERAL CLASS C EVENTS HAVE ALSO BEEN OBSERVED. REGION
963 (N22W70) HAS ALSO PRODUCED CLASS C ACTIVITY. THE REST OF THE
DISK HAS BEEN STABLE.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL. REGIONS 970
AND 963 WILL BE THE REGIONS PRODUCING MOST OF THE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. IT IS
EXPECTED THE FIELD WILL BE UNSETTLED TO ACTIVE DURING THE FORECAST
PERIOD.

III. EVENT PROBABILITIES 29 DECEMBER - 31 DECEMBER

CLASS M 80/80/80

CLASS X 10/15/20

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 DECEMBER 102

PREDICTED 29-31 DECEMBER 104/104/104

90-DAY MEAN 28 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 DECEMBER 04

ESTIMATED AFR/AP 28 DECEMBER 09/08

PREDICTED AFR/AP 29-31 DECEMBER 25/25 - 20/20 - 15/15

SOLTERWARN

BT

WFUS 3 BOU 291500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 363B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 29 DECEMBER 1977.

IA. SOLAR ACTIVITY HAS BEEN MODERATE. SEVERAL SUB AND ONE NORMAL
FLARES WERE REPORTED EARLY IN THE PERIOD FROM REGIONS 963 (N22W75)
AND 970 (S16E70) RESULTING IN CLASS C X-RAY ACTIVITY. TWO CLASS
M-1 EVENTS WERE RECORDED. THE FIRST AT 29/0907Z WAS PRODUCED BY
A ONE NORMAL FLARE FROM REGION 970, HOWEVER, NO FLARE REPORT WAS
RECEIVED ON THE SECOND AT 1142Z. BOTH EVENTS WERE ACCOMPANIED BY
SMALL RADIO BURSTS AT 2695, 4995, AND 8800 MHZ.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST EIGHT HOURS.
UNSETTLED TO ACTIVE CONDITIONS SHOULD PREVAIL THRU THE PERIOD.

III. EVENT PROBABILITIES 29 DECEMBER - 31 DECEMBER

CLASS M 80/80/80

CLASS X 10/15/20

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 DECEMBER 102

PREDICTED 29-31 DECEMBER 104/104/104

90-DAY MEAN 28 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 DECEMBER 04

ESTIMATED AFR/AP 28 DECEMBER 09/08

PREDICTED AFR/AP 29-31 DECEMBER 10/12 - 15/15 - 12/12

SOLTERWARM

BT

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 363

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 970 (S17E72) PRODUCED TWO CLASS M-1 X-RAY EVENTS AT 29/0040Z AND 0907Z. A THIRD M-1 CLASS FLARE WAS RECORDED AT 1142Z BUT NO OPTICAL WAS REPORTED. REGION 966 (N19W05), 967 (S18E45) AND 970 HAVE ALL SHOWN GROWTH AND 970 IS NOW AN E-TYPE GROUP AND 967 CONTAINS A DELTA MAGNETIC CONFIGURATION. SUBFLARES HAVE BEEN REPORTED FROM REGIONS 963 (N23W80), 967, 969 (N21E09), AND 970.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE. CONTINUED GROWTH AND INCREASING COMPLEXITY OF REGIONS 967 AND 970 INCREASE THE PROBABILITY OF CLASS X FLARES. OLD ACTIVE REGION 950 IS DUE BACK NEAR THE END OF THIS ZULU DAY.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED. THE FIELD IS EXPECTED TO BECOME ACTIVE WITHIN THE NEXT 24 HOURS RETURNING TO UNSETTLED CONDITIONS FOR THE PAST 36 HOURS OF 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 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