

HFUS 3 BOU 260530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 360A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 26 DECEMBER 1977

IA. A CLASS M4 X-RAY EVENT AT 26/0152Z WAS ASSOCIATED WITH A BRIGHT LIMB FLARE, LOOP PROMINENCES AND MODERATE TYPE IV RADIO EMISSION FROM S18E90, THE RETURN OF A COMPLEX ACTIVE AREA THAT WAS ACTIVE ON THE PREVIOUS DISK PASSAGE. THIS REGION IS NOW ASSIGNED NUMBER 967. NUMEROUS SUBFLARES UP TO CLASS C3 IN INTENSITY HAVE OCCURRED DURING THE PAST 8 HOURS IN REGION 965 (S27W60) WHICH CONTINUES TO GROW. IT IS NOW A CLASS D SPOT GROUP OF MODERATE SIZE AND COMPLEXITY. MINOR GROWTH HAS OCCURRED NEAR THE LARGE SINGLE SUNSPOT IN REGION 963 (N23W26) WITH ASSOCIATED DARK SURGE ACTIVITY. MINOR GROWTH IS ALSO REPORTED IN THE LEADING PORTION OF REGION 966 (N19E43) WHICH APPEARS AS A BLEND OF TWO OLD ACTIVE CENTERS. IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE SIGNIFICANTLY WITH THE LIMB TRANSIT OF WHAT APPEARS TO BE A MAJOR CENTER OF ACTIVITY. CONTINUED GROWTH OF THE REGIONS ON THE VISIBLE HEMISPHERE WILL CONTRIBUTE TO THE RISE OF GENERAL SOLAR INDICES AND TO CLASS C FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST SEVERAL DAYS, UNTIL UNSETTLED CONDITIONS BEGAN AT 26/0300Z. QUIET TO SLIGHTLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 48 HOURS, FOLLOWED BY THE ONSET OF A RECURRENT ACTIVE PERIOD.

III. EVENT PROBABILITIES 26 DECEMBER - 28 DECEMBER

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 DECEMBER 100

PREDICTED 26-28 DECEMBER 106/112/114

90-DAY MEAN 25 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 DECEMBER 05

ESTIMATED AFR/AP 25 DECEMBER 05/05

PREDICTED AFR/AP 26-28 DECEMBER 08/08 - 08/13 - 15/15

SOLTERWARN

BT

HFUS 3 BOU 261500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 360B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 26 DEC 1977

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 15 HOURS.
SINCE THE CLASS M4 FLARE AT 260152 U.T., SEVERAL CLASS C EVENTS HAVE
BEEN OBSERVED, THE LARGEST A C-5 AT 261147 U.T. CLOUDS HAVE HAMPERED
OBSERVATIONS AT MOST OBSERVATORIES BUT LIMITED OBS SUGGEST THAT MOST
OF THIS ACTIVITY IS ASSOCIATED WITH THE SOUTHEAST LIMB. NO SPOTS
ARE VISIBLE IN THAT AREA AS YET BUT THE PROMINENCE ACTIVITY CONTINUES.

IB. AN INCREASE IN THE LEVEL OF FLARE OCCURRENCES IS ANTICIPATED AS
THE REGION IN THE SOUTHEAST (RGN 967) ROTATES ONTO THE DISK.

II. THE GEOMAGNETIC FIELD IS QUIET TO SLIGHTLY UNSETTLED. QUIET
TO SLIGHTLY UNSETTLED CONDITIONS SHOULD PERSIST FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 26-28 DECEMBER

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 DECEMBER 100

PREDICTED 26-28 DECEMBER 106/112/114

90-DAY MEAN 25 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERIKSBURG 24 DECEMBER 05

ESTIMATED AFR/AP 25 DECEMBER 05/05

PREDICTED AFR/AP 26-28 DECEMBER 08/08 - 08/13 - 15/15

SOLTERWARN

BT

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 360

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 DEC 1977

IA. SOLAR ACTIVITY IS AT A LOW TO MODERATE LEVEL. TWO M CLASS X-RAY EVENTS HAVE BEEN RECORDED DURING THE PAST 24 HOURS. THE FIRST ONE OCCURRED AT 260152 U.T. AND WAS ASSOCIATED WITH A BRIGHT LIMB FLARE NEAR SE18. THIS IS THE AREA WHERE OLD REGION 947 IS RETURNING AND ALREADY THAT RETURNING REGION IS DESIGNATED NUMBER 967. THE SECOND M EVENT HAD NO OPTICAL CORRELATION BUT IS THOUGHT TO BE ASSOCIATED WITH 967 ALSO. SEVERAL SMALL SPOT GROUPS HAVE DEVELOPED SINCE YESTERDAY, AND ARE DESIGNATED 968 (S27W07) AND 969 (N21E49).

IB. SOLAR ACTIVITY SHOULD BE AT A LOW TO MODERATE LEVEL FOR THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD IS QUIET TO UNSETTLED AND NO SIGNIFICANT CHANGE IS EXPECTED DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 27-29 DEC

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 DEC 103

PREDICTED 27-29 DEC 106/108/110

90-DAY MEAN 26 DEC 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 DEC 05

ESTIMATED AFR/AP 26 DEC 08/08

PREDICTED AFR/AP 27-29 DEC 10/10 - 14/14 - 22/22

SOLTERWARN

BT