

HFUS 3 BOU 280530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 362A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 28 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST EIGHT HOURS.
THE DISK REGIONS ALL APPEAR STABLE AND QUIET AND THE LIMBS ARE
QUIET.

IB. SOLAR ACTIVITY WILL BE LOW TO MODERATE DURING THIS FORECAST
PERIOD. REGION 967 (S17E65) IS CAPABLE OF ENERGETIC ACTIVITY.

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

III. EVENT PROBABILITIES 28 DECEMBER - 30 DECEMBER

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DECEMBER 102

PREDICTED 28-30 DECEMBER 103/104/105

90-DAY MEAN 27 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 DECEMBER 09

ESTIMATED AFR/AP 27 DECEMBER 04/04

PREDICTED AFR/AP 28-30 DECEMBER 14/14 - 22/22 - 16/20

SOLTERWARN

BT

HFUS 3 BOU 281500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 362-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 28 DEC 1977

IA. SOLAR ACTIVITY IS AT A MODERATE LEVEL. REGION 967 (SITE 65) HAS BEEN QUITE PRODUCTIVE DURING THE PAST 15 HOURS HAVING PRODUCED SEVERAL SUBFLARES AND AT LEAST ONE IMP IB FLARE. THE IMP IB FLARE WAS ACCOMPANIED BY AN M1 X-RAY BURST AND OCCURRED AT 280830Z (OPTICAL MAX). THE X-RAY BURST HAD A LONG RISE TO MAXIMUM (280951Z) WITH A DURATION OF 1 HOUR AND 23 MINUTES. A RADIO BURST OF 140 F.U. ON 2695 MHZ ALSO ACCOMPANIED THIS FLARE. REGION 967 IS STILL A D TYPE SPOT GROUP BUT THE MAGNETIC CONFIGURATION IS BELIEVED TO BE COMPLEX. THE REST OF THE DISK IS STABLE.

IB. SOLAR ACTIVITY WILL REMAIN AT A MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD IS QUIET. UNSETTLED CONDITIONS ARE EXPECTED LATER TODAY.

III. EVENT PROBABILITIES 28 - 30 DEC

CLASS M 80/80/80

CLASS X 10/15/20

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DEC 102

PREDICTED 28 - 30 DEC 103/104/105

90-DAY MEAN 27 DEC 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 DEC 09

ESTIMATED AFR/AP 27 DEC 04/04

PREDICTED AFR/AP 28 - 30 DEC 14/14 - 22/22 - 16/20

SOLTERWARN

BT

HFUS 1 BOU 282255

C O R R E C T E D C O P Y

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 362

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 DECEMBER 1977

IA. SOLAR ACTIVITY REMAINED AT A MODERATE LEVEL DURING THE PAST
24 HOURS. REGION 967 (S17E55) CONTINUES TO PRODUCE C-CLASS X-RAY
BURSTS WITH AN OCCASIONAL CLASS M X-RAY BURST INTERSPERSED. REGION
967 IS A "D" TYPE SPOT GROUP WITH A MODERATELY BRIGHT COMPACT
FLAGE. ANOTHER REGION, 970 (S16E83), IS TRAILING 967 ONTO THE DISK.
REGION 970 IS ALSO A "D" TYPE SPOT GROUP. REGION 965 HAS
COMPLETED WEST LIMB TRANSIT AND THE REST OF THE DISK REGIONS ARE
FAIRLY STABLE.

IB. SOLAR ACTIVITY WILL CONTINUE AT MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD EXPERIENCED AN INITIAC IMPACT AT
NORTHERN LATITUDES NEAR 282020 U.T. CONDITIONS SHOULD BECOME
ACTIVE IN NIGHTTIME SECTORS DURING THE NEXT 12-15 HOURS WITH SHORT
PERIOD OF MINOR STORM CONDITIONS. GENERALLY ACTIVE CONDITIONS ARE
EXPECTED FOR THE NEXT THREE DAYS.

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 09/09

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

SOLTERWARN

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