

HFUS 3 BOU 080530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 008A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 08 JANUARY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 8 HOURS. AN M3 X-RAY EVENT REACHED MAXIMUM AT 08/0234Z. THIS WAS THE FOURTH IN A STRANGE SERIES OF SLOW-RISING M-CLASS X-RAY EVENTS TO OCCUR DURING THE LAST 24 HOURS. THIS BURST WAS ACCCOMPANIED BY LARGE ONE BRILLIANT OPTICAL FLARE AND A 10 CENTIMETER RADIO BURST OF SOME 920 FLUX UNITS. THE OPTICAL FLARE WAS IN REGION 967 (S 19W 77), WHICH CONTAINS A MAGNETIC DELTA CONFIGURATION. OTHER REGIONS WERE QUIET AS WERE THE LIMBS, EXCEPT IN THE VICINITY OF REGION 967.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE UNTIL REGION 967 PASSES OUT OF SIGHT OVER THE WEST LIMB. MORE OF THE SLOW-RISING X-RAY EVENTS ARE LIKELY. THERE IS SOME CHANCE OF A MAJOR ENERGETIC FLARE IN REGION 967.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 8 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED FOR THE NEXT 48 HOURS. AFTER THAT, SOME MAGNETIC DISTURBANCE CAN BE EXPECTED AS A RESULT OF THE PAST 24 HOURS SOLAR ACTIVITY. SOME SMALL FLUXES OF ENERGETIC PARTICLES MAY ALREADY BE ON THE WAY TOWARD THE EARTH.

III. EVENT PROBABILITIES 08 JANUARY - 10 JANUARY

CLASS M 60/45/20

CLASS X 25/15/05

PROTON 30/15/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JANUARY 115

PREDICTED 08-10 JANUARY 112/108/106

90-DAY MEAN 07 JANUARY 100

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JANUARY 26

ESTIMATED AFR/AP 07 JANUARY 07/08

PREDICTED AFR/AP 08-10 JANUARY 14/17 - 12/12 - 25/30

SOLTERWARN

BT

HFUS 3 BOU 081500
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 008-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 08 ~~DEC 1977~~ JAN 1978

IA. SOLAR ACTIVITY HAS BEEN HIGH THIS ZULU DAY. REGION 967
(S17W83) PRODUCED A 2B/M3 (0235Z X-RAY MAX) WITH AN ACCOMPANING
BURST OF 1750 F.U. AT 2700 MHZ. REGION 967 ALSO PRODUCED A 2B/X1
(0714Z X-RAY MAX) WITH AN ACCOMPANING IMP2 SWF 9-16 MHZ. THE OTHER
DISK REGIONS ARE STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE TO HIGH UNTIL
REGION 967 IS WELL BEYOND THE WEST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. THE
CONDITIONS ARE EXPECTED TO CONTINUE UNTIL 10 DECEMBER WHEN MINOR
STORM CONDITIONS ARE EXPECTED.

III. EVENT PROBABILITIES 08 JANUARY - 10 JANUARY

CLASS M 60/45/20

CLASS X 25/15/05

PROTON 30/15/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JANUARY 115

PREDICTED 08-10 JANUARY 112/108/106

90-DAY MEAN 07 JANUARY 100

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JANUARY 26

ESTIMATED AFR/AP 07 JANUARY 07/08

PREDICTED AFR/AP 08-10 JANUARY 14/17 - 12/12 - 25/30

SOLTERWARN

BT

HFUS 1 BOU 082200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 008
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 JAN 1978

IA. SOLAR ACTIVITY HAS BEEN HIGH. REGION 967 (S 18W 90) PRODUCED A 2B/M3 (08/0234Z X-RAY MAX). TOYOKAWA REPORTED 920 F.U. 10CM BURST AND CULGOORA REPORTED A DEKAMETRIC TYPE II AND IV BURST WITH THIS FLARE. IT ALSO PRODUCED A 2B/X1 (08/0714Z X-RAY MAX). TOYOKAWA REPORTED 170 F.U. 10 CM BURST WITH THIS FLARE. MODERATE SHORT WAVE FADE ACCCOMPANIED BOTH THESE FLARES. AN M1 X-RAY EVENT (08/1919Z MAX) IS ALSO PRESUMED TO HAVE OCCURRED IN REGION 967. A 66 F.U. BURST OCCURRED AT 2700 MHZ WITH THIS EVENT. HOLLOWMAN REPORTS A WELL DEFINED LOOP SYSTEM OVER REGION 967 AT 08/2000Z. THE OTHER DISK REGIONS ARE STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE FOR ANOTHER 24-36 HOURS AS REGION 967 HAS THE POTENTIAL FOR BEYOND THE LIMB ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. UNSETLED TO ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE WITH MINOR STORM CONDITIONS EXPECTED ON 10 DECEMBER DUE TO THE FLARE ACTIVITY WHICH HAS OCCURRED IN REGION 967.

III. EVENT PROBABILITIES 09 - 11 JAN

CLASS M 60/25/10

CLASS X 25/10/01

PROTON 30/20/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JAN 106

PREDICTED 09 - 11 JAN 104/98/96

90-DAY MEAN 08 JAN 100

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 JAN 10

ESTIMATED AFR/AP 08 JAN 15/15

PREDICTED AFR/AP 09 - 11 JAN 14/17 - 30/30 - 24/20

SOLTERWARN

BT