

HFUS 3 BOU 240500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 267A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 24 SEPT 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 7 HOURS. TWO SMALL C CLASS X-RAY BURSTS HAVE BEEN NOTED, ONE OF WHICH WAS ASSOCIATED WITH BRIGHTENING OF REGION 892 (S23W16). THE REGION IS CONTINUING TO DECLINE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD WAS MILDLY ACTIVE UNTIL 24/0300Z WHEN THE LEVEL OF ACTIVITY INCREASED TO NEARLY MINOR MAGNETIC STORM LEVELS. THE FIELD IS EXPECTED TO TREND TOWARD UNSETTLED LEVELS DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 24 SEPT-26 SEPT 1977.

CLASS M	20/10/01
CLASS X	01/01/01
PROTON	15/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	23 SEPT 99
PREDICTED	24-26 SEPT 97/95/94
90-DAY MEAN	23 SEPT 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	22 SEPT 40
ESTIMATED AFR/AP	23 SEPT 18/16
PREDICTED AFR/AP	24-26 SEPT 15/17 - 07/08 - 05/05

SOLTERWARN

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HFUS 3 BOU 241500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 267-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 24 SEP 1977

IA. A GRADUAL RISE-DECAY C-9 X-RAY EVENT BEGAN ABOUT 0930Z WITH NO
FLARE COUNTER PART BEING REPORTED, HOWEVER, BRIGHT SURGE ACTIVITY WAS
REPORTED ON THE EAST LIMB NEAR N18 AT THIS TIME AND SEVERAL HOURS
EARLIER ON THE WEST LIMB NEAR N10 WHERE REGION 889 ROTATED OFF.

A C-1 (IN) FLARE WAS OBSERVED AT 0210Z IN THE NEW REGION 897

(S22E75). REGION 897 HAS BEEN REPORTED FLARE BRIGHT AND APPEARS TO BE
DEVELOPING. GROWTH WAS REPORTED IN REGION 896 (N28E18) AND DECAY IN
REGION 892 (S23W20).

IB. C-TYPE FLARE ACTIVITY IS EXPECTED FROM REGIONS 897, 896, AND
892 WITH INFREQUENT M EVENTS POSSIBLE. LIMB ACTIVITY NEAR NE18 MAY
BE INDICATIVE OF A NEW REGION ABOUT TO ROTATE ONTO THE DISK.
REGION 889 TWO PAST WEST LIMB MAY ALSO BE ACTIVE.

II. A MINOR PROTON EVENT IS IN PROGRESS; PARTICLE ENHANCEMENT WAS
FIRST DETECTED ON SMS-GOES AT 24/0600Z AND A SMALL PCA EVENT BEGAN
ABOUT 24/0900Z. PROTON COUNTS HAVE BEEN DECLINING SLOWLY OVER THE PAST
2 HOURS. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE AND ACTIVE
TO UNSETTLED CONDITIONS ARE EXPECTED THRU THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 SEPT-26 SEPT 1977

CLASS M 20/10/01

CLASS X 01/01/01

PROTON 15/01/01

PCA EVENT IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 SEPT 99

PREDICTED 24-26 SEPT 97/95/94

90-DAY MEAN 23 SEPT 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 SEPT 40

ESTIMATED AFR/AP 23 SEPT 18/16

PREDICTED AFR/AP 24-26 SEPT 12/#7 - 07/08 - 05/05

SOLTERWARN

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HFUS 1 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 267

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 SEPTEMBER 1977

IA. SOLAR FLARE ACTIVITY HAS BEEN AT A VERY LOW LEVEL THE PAST 24 HOURS WITH ONLY SMALL EVENTS BEING REPORTED. THE LARGEST X-RAY EVENT WAS A C-9 AT 24/0930Z WHICH MAY HAVE BEEN FROM REGION 889 THREE DAYS PAST WEST LIMB. REGION 897 (S20E64) PRODUCED A C-1 (IN) FLARE AT 24/0210Z AND RAMEY REPORTED THE APPEARANCE OF PENUMBRA. REGION 896 (N28E09) HAS A STRONG AFS AND IS GROWING SLOWLY. A NEW REGION 899 (N17E90) IS ROTATING ON TO THE DISK ACCOMPANIED BY SMALL SURGE ACTIVITY.

IB. SOLAR ACTIVITY SHOULD REMAIN AT A VERY LOW LEVEL THRU THE FORECAST PERIOD. CLASS C EVENTS SHOULD BE EXPECTED FROM REGIONS 892 (S23W25), 896, 897, AND 899. THESE AREAS SHOULD BE MONITORED FOR NEW GROWTH WHICH COULD RESULT IN MORE ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS ACTIVE UNTIL ABOUT 24/1300Z AND HAS BEEN GENERALLY QUIET SINCE. MOSTLY QUIET WITH OCCASIONAL UNSETTLED PERIODS SHOULD EXIST THRU THE NEXT THREE DAYS. A MINOR PROTON EVENT REMAINS IN PROGRESS SINCE THE FIRST PARTICLE ENHANCEMENT AT 24/0600Z. THE ACCOMPANING PCA EVENT IS DECLINING.

III. EVENT PROBABILITIES 25 SEPTEMBER - 27 SEPTEMBER

CLASS M	10/05/05
CLASS X	05/01/01
PROTON	05/01/01
PCA	IN PROGRESS ✓

IV. OTTAWA 10.7 CM FLUX

OBSERVED	24 SEPTEMBER 100
PREDICTED	25-27 SEPTEMBER 101/102/103
90-DAY MEAN	24 SEPTEMBER 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	23 SEPTEMBER 14
ESTIMATED AFR/AP	24 SEPTEMBER 15/15
PREDICTED AFR/AP	25-27 SEPTEMBER 08/08 - 07/07 - 08/08

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