

HFUS 3 BOU 190430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 262A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0500Z 19 SEPTEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW THE PAST 8 HOURS. REGION 889  
(N06W47) PRODUCED A SUBNORMAL FLARE WITH C7 X-RAY CLASSIFICATION  
AT 0012Z. REGION 889 IS NOW IN A GAMMA-DELTA CONFIGURATION WITH  
THE LARGE LEADER SPOTS MOVING CLOSER TOGETHER. THE REMAINDER OF  
THE DISK AND LIMBS APPEAR STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 889  
WILL LIKELY PRODUCE M AND POSSIBLY X-CLASS ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 8 HOURS. THE  
FIELD IS EXPECTED TO REMAIN QUIET UNTIL LATE ON 19 SEPTEMBER THEN  
BECOME ACTIVE.

III. EVENT PROBABILITIES 19 SEPTEMBER - 21 SEPTEMBER

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 50/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 SEPTEMBER 119

PREDICTED 19-21 SEPTEMBER 119/115/105

90-DAY MEAN 18 SEPTEMBER 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 SEPTEMBER 11

ESTIMATED AFR/AP 18 SEPTEMBER 06/05

PREDICTED AFR/AP 19-21 SEPTEMBER 14/30 - 30/30 - 30/20

SOLTERWARN

HFUS 3 BOU 191500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 262B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 19 SEPTEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN HIGH THE PAST EIGHT HOURS. A MAJOR  
SOLAR EVENT BEGAN AT 1031Z AND MAXED AT 1045Z. THE EVENT WAS  
3B OPTICAL FLARE WITH AN X-2 X-RAY MAX. HIGH ENERGY PROTONS  
HAVE BEEN OBSERVED UP TO 50 MEV. THE FLARE WAS OBSERVED IN  
REGION 889 (N09W50).

IB. SOLAR ACTIVITY IS FORECAST TO BE MODERATE. FURTHER FLARE  
ACTIVITY IS EXPECTED TO OCCUR IN REGION 889 WHICH WILL  
COMPOUND THE EFFECTS OF THE 1045Z EVENT. A PCA IS FORECAST TO  
BEGIN AT 19/1600Z AND ABSORPTION OF 1.0 DB IS NOW BEING OBSERVED.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 1305Z WHEN A SUDDEN  
ONSET OCCURRED AND THE PRESENT STATE OF THE GEOMAGNETIC  
FIELD IS MINOR STORM LEVELS. THE FIELD IS EXPECTED TO BE AT MINOR  
TO MAJOR STORM LEVELS FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 19-21 SEP

CLASS M 50/90/90

CLASS X 30/50/50

PROTON 70/70/70

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 SEP 119

PREDICTED 19-21 SEP 119/115/105

90-DAY MEAN 18 SEP 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 SEP 11

ESTIMATED AFR/AP 18 SEP 06/05

PREDICTED AFR/AP 19-21 SEP 18/25 - 30/30 - 30/30

SOLTERWARN

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 262

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 19 SEPTEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN HIGH THE PAST 24 HOURS. REGION 889  
(N09W59) PRODUCED A C-7 (SUB-NORMAL) FLARE AT 19/0013Z AND A  
X-2 (3-B OPTICAL) FLARE AT 19/1045Z. THE 19/1045Z FLARE PRODUCED  
A PROTON EVENT WHICH BEGAN AT 19/1145Z AND REMAINS IN PROGRESS.  
A PCA EVENT BEGAN AT 19/1730Z AND ALSO REMAINS IN PROGRESS. THE  
REGION HAS BEEN QUIET SINCE THE FLARE. REGION 892 (S23E40) HAS  
SHOWN SIGNIFICANT GROWTH SINCE YESTERDAY AND PALEHUA REPORTS A  
"D" SPOT GROUP WITH A BETA-GAMMA MAGNETIC CONFIGURATION. A  
STRONG AFS WAS ALSO OBSERVED.

IB. SOLAR ACTIVITY WILL BE MODERATE FOR THE NEXT 24 HOURS. REGION  
892 SHOULD BE WATCHED FOR FURTHER GROWTH AND POSSIBLE ENERGETIC  
ACTIVITY. THE CHANCE FOR FURTHER ACTIVITY FROM REGION 889 IS  
STILL VERY HIGH. THE PRESENT PROTON AND PCA ENHANCEMENTS ARE  
EXPECTED TO CONTINUE FOR THE NEXT 12-18 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM  
LEVELS SINCE AN OBSERVED SSC AT 19/1305Z. THE FIELD IS EXPECTED  
TO BE AT MINOR TO MAJOR STORM LEVELS UNTIL LATE IN THE FORECAST  
PERIOD. THE DISTURBANCE IS THE RESULT OF SOLAR FLARES AT 16/2300Z  
AND 19/1045Z.

III. EVENT PROBABILITIES 20 SEPTEMBER - 22 SEPTEMBER

CLASS M	90/90/90
CLASS X	50/50/50
PROTON	70/70/70
PCA	IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED	19 SEPTEMBER 104
PREDICTED	20-22 SEPTEMBER 110/105/105
90-DAY MEAN	19 SEPTEMBER 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	18 SEPTEMBER 05
ESTIMATED AFR/AP	19 SEPTEMBER 19/25
PREDICTED AFR/AP	20-22 SEPTEMBER 50/55 - 35/40 - 20/25