

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 191600Z AND ABSORPTION OF 1.0 DB IS NOW BEING OBSERVED.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 1305Z WHEN A SUDDEN
COMMENCEMENT 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 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