

HFUS 3 BOU 170500
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO
SDF NUMBER 260A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 17 SEPT 1977

IA. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL DURING THE PAST 8 HOURS. REGION 889 (N09W23) PRODUCED A DOUBLE MAXIMUM FLARE (1ST MAX: 1B 2140 U.T. AND 2ND MAX: 2B 2303 U.T.) ON 16 SEPT THAT CAUSED SHORT WAVE FADES AS HIGH AS 19 MHZ AND HAD A 1700 FLUX UNIT BURST ON 2695 MHZ. THIS FLARE WAS AN M-6 X-RAY CLASS AND HAD TYPE II AND IV SWEEP FREQUENCY BURST. ACCURATE POST FLARE ANALYSIS OF THE REGION IS NOT YET AVAILABLE BUT INDICATIONS ARE THAT IT IS STILL WELL ORGANIZED. IB. REGION 889 WILL CONTINUE TO POSE A THREAT FOR ENERGETIC ACTIVITY UNTIL IT PASSES WEST LIMB IN ABOUT 5 DAYS. AN ENHANCEMENT OF GREATER THAN 10 MEV PARTICLES CAN BE EXPECTED IN THE NEAR EARTH ENVIRONMENT DURING THIS FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE SO FAR THIS ZULU DAY. UNSETTLED TO ACTIVE CONDITIONS SHOULD CONTINUE THROUGH 17 SEPT. THEN, LATE ON 17 SEPT OR EARLY ON 18 SEPT, A DISTURBANCE IS EXPECTED TO COMMENCE AND REACH MINOR STORM CONDITIONS.

III. EVENT PROBABILITIES 17-19 SEPT

CLASS M	70/70/70
CLASS X	30/30/30
PROTON	30/30/30
PCAF	RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED	16 SEPT 119
PREDICTED	17-19 SEPT 118/116/113
90-DAY MEAN	16 SEPT 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	15 SEPT 10
ESTIMATED AFR/AP	16 SEPT 06/07
PREDICTED AFR/AP	17-19 SEPT 20/20 - 30/30 - 30/30
SOLTERWARN	

HFUS 3 BOU 171500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 260-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 17 SEP 1977

IA. SOLAR ACTIVITY HAS BEEN GENERALLY MODERATE TO LOW DURING THE PAST 8 HOURS. REGION 889 (N09W19) REMAINS AS AN E TYPE SPOT GROUP AND HAS SHOWN SLIGHT DECAY IN TRAILER. IT HAS PRODUCED NO SIGNIFICANT ACTIVITY DURING THE PAST 8 HOURS BUT STILL HAS THE POTENTIAL OF PRODUCING ENERGETIC ACTIVITY. REGION 890 (N16W24) HAS EXPERIENCED SOME DECAY AND PRESENTLY DISPLAYS AN ACTIVE FILAMENT N OF TRAILER SPOTS. THE REMAINDER OF THE DISK AND LIMBS ARE REPORTED TO BE QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS WITH REGION 889 HAVING THE MOST POTENTIAL FOR ENERGETIC ACTIVITY. THE POSSIBILITY OF M CLASS OR GREATER EVENTS REMAINS HIGH.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED AND IS EXPECTED TO BE UNSETLED TO ACTIVE DURING THE NEXT 8 HOURS. MINOR STORM CONDITIONS ARE EXPECTED EARLY ON 18 SEP.

III. EVENT PROBABILITIES 17 - 19 SEP

CLASS M 70/70/70

CLASS X 30/30/30

FROTON 30/30/30

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 SEP 119

PREDICTED 17 - 19 SEP 119/116/113

90-DAY MEAN 16 SEP 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 SEP 10

ESTIMATED AFR/AP 16 SEP 06/07

PREDICTED AFR/AP 17 - 18 SEP 20/20 - 30/30 - 30/30

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FUS 1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 260

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 SEPTEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW DURING THE PAST 8 HOURS. THE PARTICLE EVENT THAT HAS BEEN IN PROGRESS SINCE 0030Z HAS SUBSIDED WITH 10 MEV PARTICLE FLUX DROPPING BELOW EVENT LEVELS AT 1800Z. REGION 889 (N08W32) CONTAINS AN ACTIVE NEUTRAL LINE/FILAMENT WITH CONTINUOUS FLUCTUATIONS OBSERVED. ITS POTENTIAL FOR PRODUCING AN ENERGETIC EVENT REMAINS HIGH. REGION 890 (N16W40) HAS DISPLAYED NEAR FLARE INTENSITY PLAGE DURING THE PAST 8 HOURS. ITS POTENTIAL FOR PRODUCING AN ENERGETIC EVENT IS MODERATE TO LOW. REGION 891 (N26E49) APPEARS STABLE WITH AN H TYPE SPOT CONFIGURATION. REGION 892 (S26E66) DISPLAYED A SINGLE SMALL SPOT AT 1430Z BUT IS PRESENTLY OBSERVED TO BE SPOTLESS. ALL OTHER DISK AND LIMB FEATURES ARE QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS WITH THE POSSIBILITY OF M CLASS OR GREATER EVENTS REMAINING GENERALLY HIGH.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED AND IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 18 SEPTEMBER - 20 SEPTEMBER

CLASS M 70/70/70

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 SEPTEMBER 119

PREDICTED 18-20 SEPTEMBER 124/120/116

90-DAY MEAN 17 SEPTEMBER 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 SEPTEMBER 07

ESTIMATED AFR/AP 17 SEPTEMBER 14/13

PREDICTED AFR/AP 18-20 SEPTEMBER 25/20 - 25/30 - 25/30

SOLTERWARN

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