

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

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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 UNSETTLED AND IS EXPECTED TO BE
UNSETTLED 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

PROTON 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 CONFIG-
URATION. 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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