

HFUS 1 BOU 110500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 254A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 11 SEPT 1974

IA. A 2B FLARE CLASSED AS AN X2 XRAY EVENT BEGAN AT 10/2130Z IN
REGION 487 (NOW LOCATED N08E54). THIS EVENT WAS ACCOMPANIED BY MAJOR
RADIO BURSTS - UP TO 5500 FLUX UNITS AT 10 CM AND STRONG TYPE IV
EMISSION - AND A SEVERE SHORT WAVE FADE THAT LASTED 2 HOURS AT THE
LOWER FREQUENCIES. SINCE THIS FLARE THE SUN HAS BEEN QUIET, BUT
REGION 487 IS A COMPLEX, REVERSE POLARITY REGION WITH A DELTA CON-
FIGURATION AND CERTAINLY HAS ENERGETIC POTENTIAL.

IB. MAJOR FLARES ARE EXPECTED FROM REGION 487. REGION 488 (S12E56)
IS 20 DEGREES SOUTH OF 487 AND ALSO CONTAINS A DELTA AND WITH
GROWTH COULD ALSO BECOME A MAJOR THREAT. CORONAL INTERACTION BE-
TWEEN THESE REGIONS COULD RESULT IN FREQUENT FLARES.

II. THE GEOMAGNETIC FIELD REMAINS QUIET. QUIET TO MILDLY UNSETTLED
CONDITIONS ARE EXPECTED UNTIL A RECURRENT DISTURBANCE DUE 14
SEPTEMBER.

III. EVENT PROBABILITIES 11 - 13 SEPT

CLASS M 60/65/70

CLASS X 25/30/35

PROTON 10/15/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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HFUS 1 BOU 111400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 254B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 11 SEPT 1974

IA. SOLAR ACTIVITY HAS BEEN LOW THUS FAR TODAY. SUBFLARES HAVE
BEEN OBSERVED IN REGIONS 482 (N07W62), 487 (N08E48), AND 488 (S12E50),
AND THE STRONG TYPE III AND CONTINUUM EMISSION HAVE CONTINUED.

REGION 487 REMAINS POTENT AND IMPRESSIVE, BUT HAS BEEN PREDOMINANTLY
QUIET SINCE THE X-2 EVENT ON 10 SEPT.

IB. MAJOR FLARES ARE EXPECTED FROM REGION 487.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. THIS
LEVEL OF ACTIVITY WILL CONTINUE THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 - 13 SEPT

CLASS M 60/65/70

CLASS X 20/30/35

PROTON 10/15/20

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEPT 101

PREDICTED 11 - 13 SEPT 105/108/111

90-DAY MEAN 10 SEPT 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 SEPT 04

ESTIMATED AFR/AP 10 SEPT 07/09

PREDICTED AFR/AP 11 - 13 SEPT 07/09 - 07/09 - 08/10

SOLTERVARN

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HFUS BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 254

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 11 SEPT 1974

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 487 (N09E44) REMAINS A COMPLEX DELTA MAGNETIC CONFIGURATION, BUT HAS PRODUCED ONLY OCCASIONAL SURGES AND INFREQUENT SUBFLARES. IT IS CURRENTLY A "D" TYPE SPOT GROUP. REGION 482 (N06W69) APPEARS TO HAVE REACHED MATURITY AS ANOTHER TYPE "D" GROUP AND HAS BEEN MOSTLY STABLE. REGION 488 (S10E43) HAS ALSO BEEN STABLE. STRONG DEKAMETRIC TYPE III AND CONTINUUM EMISSION HAVE CONTINUED. THE REMAINDER OF THE DISK AND THE LIMBS HAVE BEEN QUIET.

IB. REGION 487 REMAINS VERY POTENT AND OMINOUS. INFREQUENT ENERGETIC ACTIVITY IS EXPECTED AS THE REGION TRANSITS THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY. A FLARE INDUCED DISTURBANCE IS EXPECTED TO BRING ACTIVE CONDITIONS 13 SEPT, AND MINOR STORM LEVELS ON 14 SEPT. SATELLITE SENSORS INDICATED A PROTON ENHANCEMENT AT THE 25 MEV ENERGY LEVEL WHICH REACHED MAXIMUM AT 11/1238Z.

III. EVENT PROBABILITIES 12 - 14 SEPT

CLASS M 65/70/70

CLASS X 30/35/35

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 SEPT 103

PREDICTED 12-14 SEPT 105/107/108

90-DAY MEAN 11 SEPT 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 SEPT 06

ESTIMATED AFR/AP 11 SEPT 05/07

PREDICTED AFR/AP 12-14 SEPT 11/15 - 20/24 - 30/42

SOLTERWARN

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