

HFUS 1 BOU 200500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 263A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 20 SEPTEMBER 1974

IA. SOLAR ACTIVITY HAS BEEN VERY HIGH THE LAST 8 HOURS. A LARGE
2N FLARE, XRAY CLASS X2, OCCURRED AT 19/2225Z IN REGION 487
(N10W66). THIS EVENT WAS ACCOMPANIED BY MAJOR RADIO BURSTS, STRONG
TYPE IV EMISSION, AND LARGE SHORT WAVE FADES. OTHER REGIONS ON THE
DISK HAVE BEEN QUIET.

IB. DUE TO THE LOCATION OF REGION 487, A PROTON EVENT IS EXPECTED
TO BEGIN AT EARTH WITHIN THE NEXT 6 HOURS. PCA OF SOME 6 TO 10 DB
IS ANTICIPATED.

II. A GEOMAGNETIC STORM IS EXPECTED DUE TO A COMBINATION OF FLARE
EFFECTS AND RECURRENCE.

III. EVENT PROBABILITIES 20 SEPT - 22 SEPT

CLASS M 45/40/35

CLASS X 15/10/10

PROTON 10/10/10

PCAF RED

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 SEPT 15

ESTIMATED AFR/AP 19 SEPT 22/33

PREDICTED AFR/AP 20 SEPT - 22 SEPT 35/46 - 40/55 - 29/40

SOLTERWARN

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HFUS BCU 201430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 263B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 20 SEPT 1974

IA. NO MAJOR SOLAR EVENTS HAVE BEEN REPORTED SINCE THE 2B (X2)
FLARE AT 19/2225Z. A BSL ON SW LIME ACCOMPANIED THE WEST LIMB
PASSAGE OF AR492. A MINOR PROTON EVENT BEGAN AT 20/0030Z AND PEAKED
NEAR 20/0700Z. THIS APPEARS TO BE A LOW ENERGY (LT25 MEV) EVENT.

IB. AR 487 STILL RETAINS POTENTIAL FOR ANOTHER MAJOR FLARE WITHIN
NEXT THREE DAYS. THE PCA ASSOCIATED WITH THE 2225Z FLARE SHOULD
BE NEAR 4DB.

II. MINOR MAGNETIC STORM CONDITIONS SHOULD CONTINUE THROUGHOUT
THIS PERIOD.

III. EVENT PROBABILITIES 20 - 22 SEPT

CLASS M 40/40/40

CLASS X 10/10/10

PROTON 10/10/10

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES - NO CHANGE

SOLTERWARN

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HFUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 263

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 SEPT 1974

IA. SOLAR ACTIVITY DURING THE PAST 8 HOURS HAS BEEN SURGE/SPRAY
ACTIVITY ON SW LIMB AS AR 492 ROTATED OFF THE DISK AND A SN FLARE
(AR 492) AT 1439Z. A MINOR PCA IS IN PROGRESS (THULE RIOMETER-
BEGAN 1900Z, MAX 2.7 DB AT 1520Z, 1.9 DB AT 2000Z). AT 2025Z,
A C2 LEVEL EVENT WAS REPORTED BY GOES.

IB. IT IS UNLIKELY THAT AR 487 WOULD PRODUCE ANOTHER MAJOR FLARE
IN THE NEXT 72 HOURS. NO RETURNING REGIONS ARE EXPECTED. THE PCA
SHOULD END WITHIN THE NEXT 18 HOURS.

II. THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT STORM LEVEL FOR THE
NEXT 72 HOURS.

III. EVENT PROBABILITIES 21 - 23 SEPT

CLASS B 35/35/10

CLASS X 10/10/2

PROTON 10/10/5

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 SEPT 87

PREDICTED 21-23 SEPT 87/85/84

90-DAY MEAN 20 SEPT 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 SEPT 24

ESTIMATED AFR/AP 20 SEPT 28/44

PREDICTED AFR/AP 21-23 SEPT 35/50 - 32/45 - 30/40

SOLTERVARN

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