

HFUS 1 BOU 150500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 288A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 15 OCTOBER 1974

IA. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL DURING THE PAST 8 HOURS
WITH ONLY A FEW NON-ENERGETIC SUBFLARES OBSERVED.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW LEVEL DURING THE NEXT 8
HOURS. THE COMPLEX REGIONS 503 (N10W41) AND 505 (N12W52) STILL
HAVE THE POTENTIAL TO PRODUCE MAJOR ACTIVITY.

II. THE GEOMAGNETIC DISTURBANCE CONTINUES. THE FIELD HAS BEEN ACTIVE
DURING THE PAST 12 HOURS AND WILL REMAIN ACTIVE DURING THE NEXT 8
HOURS.

III. EVENT PROBABILITIES - NO CHANGE

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 OCT 51

ESTIMATED AFR/AP 14 OCT 17/20

PREDICTED AFR/AP 15 OCT - 17 OCT 23/30 - 25/33 - 22/28

SOLTERWARN

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HFUS 1 BOU 151430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 288B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 15 OCTOBER 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 16 HOURS.
TWO MODERATELY ENERGETIC FLARES WERE REPORTED IN REGION 503
(N10W47). THE FIRST WAS A ONE NORMAL (M3 X-RAY FLARE) AT 0820Z
AND THE SECOND WAS A ONE BRILLIANT (M4 X-RAY FLARE) AT 1328Z.
THESE FLARES WERE ACCOMPANIED BY MODERATE SHORTWAVE FADES AND
LOW FREQUENCY PHASE SHIFTS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGH THE FORECAST
PERIOD. THE MODERATELY ENERGETIC FLARES BEING PRODUCED BY REGION
503 ARE TO BE EXPECTED AS THE REGION DISINTERGRATES. THE 503/505
COMPLEX IS NOW FAVORABLY SITUATED TO PRODUCE A PROTON EVENT BUT
THE COMPLEX HAS DIMINISHING MAJOR FLARE POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN AT MINOR MAGNETIC STORM
LEVELS FOR THE BETTER PART OF THE PAST 16 HOURS. THIS ACTIVITY
IS EXPECTED TO GRADUALLY DECLINE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 - 17 OCT 1974

CLASS M 90/85/80

CLASS X 50/45/40

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 OCT 117

PREDICTED 15 - 17 OCT 107/99/93

90-DAY MEAN 14 OCT 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 OCT 51

ESTIMATED AFR/AP 14 OCT 22/28

PREDICTED AFR/AP 15 - 17 OCT 35/51 - 30/42 - 25/33

SOLTERWARN

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HFUS BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 288

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 OCTOBER 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
REGION 505 (N11W63) HAS BEEN ESSENTIALLY QUIESCENT AND ITS PARTNER,
REGION 503 (N09W50), HAS ONCE AGAIN BEEN PRODUCING MODERATELY
ENERGETIC FLARES. THE MOST SIGNIFICANT OF THESE FLARES WERE AN M3
X-RAY EVENT (ONE NORMAL OPTICALLY) AT 0825Z AND AN M4 X-RAY EVENT
(ONE BRILLIANT OPTICALLY) AT 1328Z. REGION 503 HAS ALSO PRODUCED SEVERAL
UPPER RANGE C-CLASS X-RAY FLARES IN THE PAST 24 HOURS. OTHERWISE
THE SUN HAS BEEN QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE THROUGH THE
FORECAST PERIOD. REGION 505 SEEMS MUCH SIMPLER TODAY MAGNETICALLY.
REGION 503 IS APPARENTLY IN THE PROCESS OF DISINTEGRATING AND THIS
ACCOUNTS FOR ITS CURRENT ACTIVITY. MODERATELY ENERGETIC FLARES MAY
BE EXPECTED FROM REGION 503, BUT MAJOR ENERGETIC FLARES ARE NOW
LESS LIKELY.

II. THE GEOMAGNETIC FIELD WAS VERY ACTIVE THROUGH MOST OF THE PAST
24 HOURS. THE FIELD BECAME QUIET TO MILDLY UNSETTLED ABOUT 1300Z
BUT WILL PROBABLY BECOME ACTIVE AGAIN DURING LOCAL NIGHTTIME
HOURS. THE FIELD SHOULD REMAIN ESSENTIALLY ACTIVE THROUGH THE FORE-
CAST PERIOD.

III. EVENT PROBABILITIES 16 OCT - 18 OCT 1974

CLASS M 85/80/75

CLASS X 45/40/35

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCT 105

PREDICTED 16 - 18 OCT 98/92/88

90-DAY MEAN 15 OCT 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 OCT 22

ESTIMATED AFR/AP 15 OCT 33/54

PREDICTED AFR/AP 16 - 18 OCT 28/39 - 23/29 - 18/21

SOLTERWARN

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