

HFUS BOU 160500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 289A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 16 OCT 1974

IA. SUBFLARE ACTIVITY AND SMALL XRAY BURSTS CONTINUE FROM REGIONS
503 (N09W53) AND 505 (N11W66). NO SIGNIFICANT STRUCTURAL CHANGES
IN EITHER REGION HAVE BEEN REPORTED SINCE THE 2200Z REPORT.

IB. SUBFLARES AND OCCASIONAL CLASS M EVENTS ARE EXPECTED TO CON-
TINUE FROM REGIONS 503 AND 505.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AT MID LATITUDES AND AT
STORM LEVELS AT HIGH LATITUDES. MINOR STORM CONDITIONS DURING
NIGHTTIME HOURS SHOULD BE EXPECTED FOR THE NEXT 18 HOURS, WITH
GENERALLY ACTIVE CONDITIONS EXPECTED FOR THE REMAINDER OF THE
FORECAST 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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HFUS 1 BOU 161430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 289B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 16 OCTOBER 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 16 HOURS.
NUMEROUS C-CLASS X-RAY EVENTS WERE NOTED THAT WERE ASSOCIATED
WITH OPTICAL SUBFLARE ACTIVITY BETWEEN REGIONS 505 (N11W72)
AND 503 (N09W59). THIS ACTIVITY CULMINATED IN A ONE BRILLIANT
FLARE (M4 X-RAY EVENT) IN REGION 503 AT 1305Z.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE. WHILE
REGION 505 HAS DECLINED SOMEWHAT IN WHITE LIGHT, THERE APPEARS
TO BE RESTRUCTURING BETWEEN REGIONS 503 AND 505. THERE IS NO REASON,
AT PRESENT, TO EXPECT MORE THAN MID-LEVEL M-CLASS EVENTS OUT OF THE
COMPLEX. THE REST OF THE SOLAR DISK AND LIMBS ARE QUIET.

II. THE GEOMAGNETIC FIELD HAS BEEN AT MINOR MAGNETIC
STORM LEVELS THROUGH MOST OF THE PAST 16 HOURS. THE FIELD IS
EXPECTED TO BE UNSETTLED DURING LOCAL DAYTIME HOURS AND ACTIVE
DURING LOCAL NIGHT TIME HOURS FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 16 - 18 OCT 74

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 39/57

PREDICTED AFR/AP 16 - 18 OCT 38/64 - 28/39 - 23/29

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HFUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 289

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 OCTOBER 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS,
ALTHOUGH ACTIVITY HAS BEEN LOWER THAN DURING THE PREVIOUS DAY.
REGION 503 (N09W64) HAS PRODUCED THE ONLY ENERGETIC ACTIVITY; A
C8 X-RAY FLARE (A ONE NORMAL OPTICALLY) AT 0855Z AND AN M4 X-RAY
FLARE (A ONE BRILLIANT OPTICALLY) AT 1302Z. REGION 505 (N12W76)
HAS PRODUCED A RASH OF VERY SMALL C-CLASS SUBFLARES. OTHERWISE,
THE SUN HAS BEEN QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE THROUGH THE FORE-
CAST PERIOD. THERE APPEARS TO BE RESTRUCTURING IN THE NORTHWEST
PORTION OF REGION 503 AND SOME GROWTH ALONG THE WESTERN BORDERS OF
THIS REGION. THIS REGION IS MAINTAINING A RESPECTABLE ENERGETIC
FLARE POTENTIAL, ALTHOUGH MAJOR FLARES ARE NOW LESS LIKELY.

II. THE GEOMAGNETIC FIELD HAS BEEN AT MINOR MAGNETIC STORM LEVELS
FOR MUCH OF THE PAST 24 HOURS. WHILE THE FIELD WILL REMAIN ACTIVE
THROUGH THE FORECAST PERIOD, LEVELS OF ACTIVITY SHOULD DROP FAIRLY
RAPIDLY.

III. EVENT PROBABILITIES 17 OCT - 19 OCT

CLASS M 80/80/70

CLASS X 40/40/30

PROTON 30/30/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCT 96

PREDICTED 17 OCT - 19 OCT 92/88/84

90-DAY MEAN 16 OCT 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 OCT 39

ESTIMATED AFR/AP 16 OCT 37/64

PREDICTED AFR/AP 17 OCT - 19 OCT 28/39 - 23/29 - 18/21

SOLTERWARN

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