

HFUS 1 BOU 060500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 279A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 06 OCTOBER 1974

IA. SOLAR ACTIVITY HAS INCREASED DURING THE PAST 8 HOURS. TWO CLASS
M EVENTS HAVE BEEN OBSERVED AT 06/0138Z AND 06/0236Z. BOTH OF THESE
EVENTS HAVE BEEN FROM REGION 503 (N09E73). THE OTHER DISK REGIONS
APPEAR STABLE AT THIS TIME.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT LEVEL WITH
CLASS C AND CLASS M EVENTS FROM THE REGION 503. NO MAJOR ACTIVITY IS
EXPECTED DURING THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD IS QUIET. A LITTLE ACTIVITY WAS OBSERVED
AT ABOUT 06/0130Z BUT SINCE THEN QUIET CONDITIONS HAVE BEEN PRESENT.
THE FIELD IS EXPECTED TO REMAIN QUIET DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES - NO CHANGE

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES - NO CHANGE

SOLTERWARN

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HFUS BOU 061430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 279B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 06 OCT 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS.

REGION 503 (N09E71) PRODUCED TWO CLASS M EVENTS EARLY TODAY,
M1 AT 0124Z AND M3 (VELA) AT 0240Z. THIS REGION CONTINUES TO PRO-
DUCE OCCASIONAL SUBFLARES. ALTHOUGH THE REGION APPEARS TO BE A
SIMPLE C TYPE SPOT GROUP, THERE HAVE BEEN NO MAGNETIC MEASUREMENTS
OF THIS REGION, AND THE ACTIVITY SUGGESTS SOME COMPLEXITY NOT VISIBLE
IN H ALPHA OR WHITE LIGHT. REGION 501 (S18E31) CONTAINS A D TYPE
SPOT GROUP WITH SOME SPOT GROWTH OBSERVED IN THE TRAILING PORTION.
A OF FLARE WAS OBSERVED IN THIS REGION AT 06/1041Z. REGION 497
(S06W31) CONTAINS LITTLE PLAGE, BUT SPOT GROWTH HAS BEEN OBSERVED
IN THE TRAILING PORTION OF ITS E TYPE SPOT GROUP. CONTINUED SURGING
ON THE E LIMB FROM SE07 THROUGH NE07 SUGGESTS THE POSSIBILITY OF
ADDITIONAL RETURNING REGIONS.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE OR GREATER LEVEL
THROUGH THE PERIOD WITH A GOOD CHANCE OF ADDITIONAL CLASS M ACTIVITY,
PRIMARILY FROM REGION 503.

II. A GEOMAGNETIC SUBSTORM OBSERVED DURING THE EARLY PART OF THIS
ZULU DAY HAS SUBSIDED AND QUIET CONDITIONS NOW PREVAIL. THE GEO-
MAGNETIC FIELD SHOULD CONTINUE QUIET THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 OCT - 08 OCT

CLASS M 60/65/70

CLASS X 10/15/20

PROTON 01/02/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCT 109

PREDICTED 06 OCT - 08 OCT 116/118/118

90-DAY MEAN 05 OCT 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 OCT 08

ESTIMATED AFR/AP 05 OCT 09/08

PREDICTED AFR/AP 06 OCT - 08 OCT 11/12 - 05/06 - 05/06

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HFUS BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 279

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 06 OCTOBER 1974

IA. SOLAR ACTIVITY INCREASED TO A MODERATE LEVEL DURING THE LAST 24 HOURS. REGION 503 (N07E68) PRODUCED TWO SMALL CLASS M EVENTS AT 06/0124Z AND 06/0242Z. SINCE THEN, THIS REGION HAS PRODUCED SEVERAL SUBFLARES, AND AT 06/2140Z A 1N FLARE WITH AN M2 X-RAY EVENT AND APPROXIMATELY A 30 FLUX UNIT RADIO BURST AT 2695 MHZ. THIS REGION, WHICH WAS OLD REGION 487 SHOWS A REVERSED POLARITY, BETA-GAMMA MAGNETIC CLASSIFICATION. HOWEVER, THE PROXIMITY OF REGION 502 (N07E53) AND A LARGE, LEADER POLARITY SPOT BETWEEN THESE REGIONS INCREASES THE OVERALL MAGNETIC COMPLEXITY OF THESE REGIONS. OTHER REGIONS ON THE DISK APPEAR RELATIVELY SIMPLE AND QUIET.

IB. ADDITIONAL ENERGETIC ACTIVITY NOW APPEARS LIKELY FROM THE COMPLEX OF REGIONS IN THE NE.

II. A GEOMAGNETIC SUBSTORM BETWEEN 06/0000Z-0300Z RESULTED IN MINOR STORM CONDITIONS, BUT SINCE THEN QUIET CONDITIONS HAVE BEEN OBSERVED. THE GEOMAGNETIC FIELD SHOULD REMAIN QUIET THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 07 OCT - 09 OCT

CLASS M 70/70/70

CLASS X 20/20/20

PROTON 02/03/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 OCT 115

PREDICTED 07 OCT - 09 OCT 118/118/118

90-DAY MEAN 06 OCT 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 OCT 09

ESTIMATED AFR/AP 06 OCT 10/11

PREDICTED AFR/AP 07 OCT - 09 OCT 05/06 - 05/06 - 05/06

SOLTERWARN

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