

NNNN

KBOU

HFUS 1 BOU 010600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 01 OCTOBER 1972

IA. SA LARGE S B FLARE OCCURED IN REGION 424 (S13 E23)

AT 01/0435Z. MEDIUM R.F. BURSTS WERE OBSERVED ON

1415MHz, 2695MHz AND 4995MHz. VELA REPORTS X-RAY

EVENT AS M9. SOME SHORT WAVE FADES HAVE BEEN OBSERVED

RADIO AND X-RAY EVENTS WERE VERY SHORT IN DURATION.

IB. ACTIVITY WILL CONTINUE FROM REGION 424 DURING

NEXT 24 HOURS.

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

~~BT~~

NNNN

NNNN

KBOU

HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 01 OCTOBER 1972

IA. REGION 424 (N12E16) HAS GROWN SIGNIFICANTLY

IN THE PAST 24 HRS, AND THIS REVERSE POLARITY

REGION IS NOW THE FEATURE OF PRIMARY INTEREST

ON THE VISIBLE DISK. ON 30 SEPTEMBER BOULDER

CLASSIFIED THE REGION AS A D/110 GROUP. THE ASSOCIATED (H-

H-ALPHA PLAGE IS OF MODERATE SIZE AND

BROKEN. REGION 424 PRODUCED A SERIES OF

(M)OMOLOGOUS FLARES EARLY ON 01 OCT.

THE MOST SIGNIFICANT OF THESE WAS A SB AT

01/0435Z WHICH PRODUCED SIGNIFICANT SHORT WAVE

FADEOUTS. PRELIMINARY DATA INDICATE THAT THE EVENT

WAS LARGE CLASS M. MINOR SURGE ACTIVITY ON THE SE LIMB

(SE22-25) IS NOT ASSOCIATED WITH

ANY KNOWN RETURNING REGION.

IB. CLASS M EVENTS ARE POSSIBLE FROM REGION 424.

NO RETURNING REGIONS ARE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET

AND IS EXPECTED TO REMAIN SO UNTIL 03 OCT.

UNSETTLED CONDITIONS ARE EXPECTED ON 03 OCTOBER.

III. EVENT PROBABILITIES 01-03OCT

CLASS M 35/35/45

CLASS X 01/01/01

PROTON 01/01/01

PCFC GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 SEPT 118

PREDICTED 01-03OCT 118/121/125

90-DAY MEAN 30 SEPT 121.4

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 SEPT 17

ESTIMATED 30 SEPT 05

PREDICTED 01-03 OCT 06/06/09

BT

NNNN

KBOU

HFUS BOU 012215

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 OCT 1972

IA. SOLAR ACTIVITY HAS INCREASED TO MODERATE WITH MOST ACTIVITY
CONFINED TO REGION 424 /N12E11/ WHICH PRODUCED 8 SUBFLARES AND TWO
IMPORTANCE ONE FLARES. A SUB-BRIGHT CLASS M-9 FLARE OCCURRED AT
0435Z PRODUCING BRIEF RADIO BURSTS AND SHORT WAVE FADES. A ONE NORMAL
FLARE OCCURRED IN REGION 424 AT 1650Z WITH SHORT DURATION RADIO
BURSTS AT MANY FREQUENCIES REACHING 95 FLUX UNITS ABOVE BACKGROUND
AT 2695 MHZ AND 103 FLUX UNITS ABOVE BACKGROUND AT 4995 MHZ. BRIEF
SHORT WAVE FADES AND SUDDEN PHASE ANOMOLIES ALSO ACCOMPANIED THIS
FLARE. VELA DATA WAS RECEIVED ONLY AFTER A RAPID DECLINE HAD STARTED,
INDICATING A MAXIMUM ABOVE M-7. BECAUSE OF THE VERY SHORT DURATION,
THE TOTAL ENERGY OUTPUT WITH THIS FLARE WAS SMALL. A ONE BRIGHT
FLARE OCCURRED IN THE SAME AREA AT 2042Z, BUT THERE HAS BEEN NO IN-
DICATION OF SUDDEN IONOSPHERIC DISTURBANCES. REGION 416 /S03W71/ HAS
PRODUCED 3 SUBFLARES EARLY IN THE PERIOD BUT HAS BEEN QUIET SINCE
1100Z. ALL OTHER REGIONS HAVE DECLINED OR REMAINED STABLE AND THE
LIMBS HAVE BEEN QUIET.

IB. REGION 424 SHOULD CONTINUE ACTIVE WITH A GOOD CHANCE OF MORE
CLASS M EVENTS. THE RISK OF CLASS X EVENTS HAS INCREASED BUT REMAINS
LOW DUE TO THE LACK OF MAGNETIC COMPLEXITY. ALL OTHER REGIONS SHOULD
REMAIN QUIET. NO RETURNING REGIONS ARE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE LAST 24 HOURS.
THE GEOMAGNETIC FIELD IS FORECAST TO BECOME SLIGHTLY UNSETTLED BY
E MIDDLE OF THE FORECAST PERIOD DUE TO AN EXPECTED SECTOR BOUNDARY
PASSAGE.

III. EVENT PROBABILITIES 02 OCT-04 OCT

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 02/03/04

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 OCT 117

PREDICTED 02 OCT-04 OCT 116/115/114

90-DAY MEAN 01 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 SEP 05

ESTIMATED 01 OCT 05

PREDICTED 02 OCT-04 OCT 06/09/08

SOLTERWARN

SPAN

BT