

NNNN

KBOU

HOUS 2 BOU 230200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
230200Z SEPT 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
221615Z. LOCATIONS VALID AT 230000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0227 N13W24 323 0020 C 06 02 BETA

0231 N04E21 281 0000 A 00 01 ALPHA

0234 N05E43 259 0110 H 02 02 ALPHA

0236 N14E48 254 0150 D 08 18 BETA

IA. H-ALPHA PLACES WITHOUT SPOTS. LOCATIONS VALID 220000Z.

NMBR LOCATION LO

0226 S08W47 349

0228 S13W28 330

0238 N14W21 323

II. NONE.

III. NONE.

SOLTERWARN

SPAN

BT

NNNN

NNNN

KBOU

HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 266A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 23 SEPTEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN AT A VERY LOW LEVEL DURING THE PAST 8
HOURS. REGION 236 (N13E48) HAS SHOWN A LITTLE GROWTH. A NEW REGION
239 (N09E51) HAS DEVELOPED. ALL REGIONS APPEAR QUIET AND STABLE.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT 7 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST SIX HOURS.
THE MINOR RECURRENT DISTURBANCE HAS STARTED BUT IS NOT EXPECTED TO
REACH STORM INTENSITY.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

SPAN

BT

NNNN

KBOU

HXUS BOU 231145

IUWDS ADALERT BOULDER 231105Z

RECURRENT MINOR MAGSTORM IN PROGRESS 231100Z 231105Z

DISTURBANCE EXPECTED TO CONTINUE 48-72 HOURS MINOR.

SOLTERWARN

BT

NNNN

KBOU

HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 266B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 23 SEP 1973

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW, AND NO FLARES HAVE BEEN
REPORTED DURING THE PAST SEVEN HOURS. SLOW DEVELOPMENT HAS
CONTINUED IN REGIONS 236 (N14E41) AND 239 (N09E42). THESE TWO
REGIONS ARE EXHIBITING ENHANCED PLAGE AND MAY BE INTERACTING
WITH EACH OTHER AND WITH REGION 234 (N05E36). OTHER REGIONS ARE
UNIMPRESSIVE.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT 9 HOURS.
REGIONS 234, 236, AND 239 SHOULD BE WATCHED CLOSELY FOR ADDITIONAL
DEVELOPMENT, SINCE INTERACTION BETWEEN THESE REGIONS MAY
CONSIDERABLY INCREASE THEIR POTENTIAL FOR ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD BECAME DISTURBED TO STORM INTENSITY
DURING THE PAST 7 HOURS AS PART OF A RECURRENT DISTURBANCE.
DURING THE INTERVALS 0600-0900Z AND 0900-1200Z, K-INDICES AT
BOULDER WERE 5 AND 6 RESPECTIVELY. DURING THE TIME INTERVAL
1200-1240Z, A D-TRACE VARIATION OF 160 GAMMAS WAS OBSERVED AT
BOULDER. STRONG AURORAL ZONE ABSORPTION OF HIGH FREQUENCY RADIO
SIGNALS HAS BEEN REPORTED. MAGNETIC DISTURBANCE PROBABLY WILL
CONTINUE AS A MINOR STORM FOR AT LEAST 24 HOURS, WITH ACTIVE
CONDITIONS FOLLOWING FOR AT LEAST 48 ADDITIONAL HOURS.

III. EVENT PROBABILITIES 23-25 SEP 73

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 SEP 15

ESTIMATED 22 SEP 10

PREDICTED 23-25 SEP 35/22/20

SPAN

BT

NNNN

KBOU

HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 266

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 SEPTEMBER 1973.

IA. SOLAR ACTIVITY CONTINUES VERY LOW, ALTHOUGH THE NUMBER OF
SUBFLARES HAS INCREASED SLIGHTLY. A TOTAL OF FIVE SUBFLARES HAVE
BEEN OBSERVED FROM THE COMPLEX OF REGIONS 234 (N05E29), 236
(N14E35) AND 239 (N11E36). REGION 236 IS THE ONLY LARGE REGION
AND HAS SHOWN GROWTH BUT RETAINS A SIMPLE BETA MAGNETIC CLASSI-
FICATION. A NEW PLAGE REGION 240 (S15E31) CONTAINS NO SPOTS BUT
PRODUCED A LARGE SUBNORMAL FLARE AT 23/1800Z.

IB. SOME INCREASE IN SUBFLARE ACTIVITY IS EXPECTED, PRIMARILY
FROM REGION 236, WITH A SLIGHT CHANCE OF A SMALL CLASS M EVENT.

II. A MINOR RECURRENT GEOMAGNETIC STORM IS IN PROGRESS, AND TWO
K VALUES OF 6 WERE RECORDED BETWEEN 23/0900Z AND 23/1500Z. THE
GEOMAGNETIC FIELD HAS BEEN MUCH QUIETER SINCE 1500Z, BUT MINOR
STORM CONDITIONS ARE LIKELY AT TIMES DURING THE NEXT 24 HOURS,
GRADUALLY DECREASING TO ACTIVE CONDITIONS BY THE END OF THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 24 SEP - 26 SEP.

CLASS M 15/20/20

CLASS X 01/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 23 SEP 103

PREDICTED 24 SEP - 26 SEP 106/109/113

90-DAY MEAN 23 SEP 089

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 22 SEP 13

ESTIMATED 23 SEP 40

PREDICTED 24 SEP - 26 SEP 30/25/20

SOLTERWARN

SPAN

BT