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HOUS 2 BOU 100200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
100200 SEPT. 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
09/1650. LOCATIONS VALID AT 10 SEPT 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0209 S14W83 193 0140 H 01 03 ALPHA

0210 N23W89 203 0130 H 01 02 ALPHA

0212 N14W51 165 0290 H 03 06 ALPHA

0215 S17W46 160 0010 B 07 08 BETA

0219 S13W23 137 0110 D 10 54 BETA-GAMMA

0224 S10W39 153 0090 C 06 23 BETA

IA. NONE.

II. NONE.

III. NONE.

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HFUS 1 BOU 100600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 253A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 10 SEPTEMBER 1973

IA. DURING THE PAST EIGHT HOURS REGION 224 (S10W42) HAS PRODUCED
SEVERAL SMALL CLASS M FLARES. REGION 224 HAS PRODUCED MOST OF THE
ACTIVITY. REGION 209 (S14W86) IS STILL CAPABLE OF PRODUCING CLASS
M FLARES.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING NEXT SEVEN HOURS. CLASS C
AND CLASS M FLARES ARE PROBABLE FROM REGIONS 224 AND 209.

II. THE MINOR GEOMAGNETIC DISTURBANCE HAS DECREASED DURING THE PAST
THREE HOURS. THE DISTURBANCE IS EXPECTED TO REMAIN AT MINOR LEVEL
DURING THE NEXT 24 HOURS.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 253B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 10 SEPTEMBER 1973

IA. SOLAR ACTIVITY HAS INCREASED SLIGHTLY DURING THE LAST 24 HOURS.
DURING THE EARLY PORTION OF THE PERIOD, SEVERAL SUBFLARES WERE
REPORTED FROM REGION 209 WHICH IS CURRENTLY ROTATING OFF THE DISK

AT S14W90. AN ERUPTIVE PROMINANCE WAS OBSERVED ON THE WEST LIMB
SOUTH OF THIS REGION AT S24 BETWEEN 10/0200Z AND 10/0530Z. REGION
224 (S10W46) CONTINUES TO SHOW RAPID GROWTH IN BOTH H-ALPHA AND

WHITE LIGHT AND HAS PRODUCED FREQUENT SUBFLARES, INCLUDING A LARGE
SUB BRILLIANT FLARE AT 0232Z WHICH TENTATIVELY REACHED A CLASS M-1.

IB. WITH CONTINUED GROWTH POSSIBLE IN REGION 224, CONTINUED FREQUENT
SUBFLARES ARE LIKELY WITH A GOOD CHANCE OF SMALL CLASS M EVENTS FROM
THIS REGION.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AT TIMES DURING THE LAST
24 HOURS AND SHOULD CONTINUE UNSETTLED TO ACTIVE DURING THE FIRST HALF
OF THE FORECAST PERIOD, BECOMING UNSETTLED BY THE END OF THE PERIOD.

III. EVENT PROBABILITIES 10 SEP - 12 SEP

CLASS M 60/65/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 SEP 112

PREDICTED 10 SEP - 12 SEP 106/100/98

90-DAY MEAN 09 SEP 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 SEP 07

ESTIMATED 09 SEP 20

PREDICTED 10 SEP - 12 SEP 15/15/10

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HFUS BOU 102200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 253
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 SEP 1973.
IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
REGION 224 (S09W52) HAS CEASED ITS RAPID GROWTH BUT REMAINS MOST
ACTIVE. IT HAS PRODUCED 8 FLARES, THE LARGEST OF WHICH WAS AN
X-RAY CLASS M-1, ONE-NORMAL FLARE THAT HAD A DOUBLE MAXIMUM
(FIRST AT 0232Z, SECOND AT 0259Z) AND HAD ASSOCIATED SHORT WAVE
FADES AND RADIO BURSTS. REGION 215 (S17W57) HAS PRODUCED 3 SUB-
FLARES THAT APPEARED ALMOST SIMULTANEOUSLY AND PERHAPS
SYMPATHETICALLY WITH FLARE ACTIVITY IN REGION 224. REGION 219
(S15W34) HAS BEEN STABLE THROUGH MOST OF THE PERIOD, ALTHOUGH
THERE HAVE BEEN 3 SUBFLARES DURING THE PAST 4 HOURS.
REGIONS 209 AND 210 HAVE BEEN PASSING OVER THE WEST LIMB WITH
ASSOCIATED PROMINENCE AND SURGE ACTIVITY.
IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE THRU THE NEXT
36 HOURS AND DECLINE SHORTLY THEREAFTER. OLD REGION 203 IS DUE
TO RETURN IN APPROXIMATELY 24 HOURS AT N15 BUT NO SIGNIFICANT
ACTIVITY IS EXPECTED FROM IT.
II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS.
IT IS EXPECTED TO DECLINE TO UNSETTLED CONDITIONS DURING THE NEXT
48 HOURS.
III. EVENT PROBABILITIES 11 SEPT -13 SEPT
CLASS M 60/50/40
CLASS X 05/02/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 10 SEP 107
PREDICTED 11-13 SEP 102/98/95
90-DAY MEAN 10 SEP 91
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 09 SEPT 22
ESTIMATED 10 SEPT 18
PREDICTED 11 SEP -13 SEP 15/10/07
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