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HOUS 2 BOU 120200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
120200Z JAN 1973

I. SUNSPOT DATA FROM CANARY IS. AT 11/0900Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0517 N08W86 151 0120 H 00 01 ALPHA

0519 N12W51 116 0160 E 15 10 BETA

0003 S18E04 061 0080 C 03 05 ALPHA

0005 N14E31 034 0060 H 00 01 ALPHA

0006 S13E46 019 0030 B 07 07 BETA

NOTE: MAGNETIC CLASSIFICATIONS FROM MT. WILSON

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN IMP BEGIN MAX END CLASS

517 1B 0037 0051 0123 M8S

517 1B 1801 1803 1820 X1S

519 0B 2133 2135 2142 M1

REMARKS: A SWF WAS ALSO OBSERVED BETWEEN 1715Z AND 1725Z
ASSOCIATED WITH AN ERUPTIVE PROMINENCE IN REGION 517.

III. AREAS OF SPECIAL INTEREST:

NONE

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HFUS 1 BOU 120600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 012A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 12 JAN 1973

I. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 012B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 12 JANUARY 1973

IA. DEPARTING REGION 517(NW08) PRODUCED A CLASS M8 X-RAY EVENT
AT 11/0037Z AND A CLASS X1 X-RAY EVENT AT 11/1747Z, BOTH OF WHICH
PRODUCED SHORT WAVE FADES. REGION 519(N12W63) APPEARS TO HAVE
EXPERIENCED SLIGHT GROWTH IN WHITE LIGHT.

IB. A PROTON ENHANCEMENT IS EXPECTED ON 12 JAN DUE TO THE 11/1747Z
EVENT. ADDITIONAL ENERGETIC ACTIVITY FROM BEHIND THE LIMB IS
POSSIBLE FROM REGION 517.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE AND IS
EXPECTED TO REMAIN SO FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 12 - 14 JAN

CLASS M 50/30/25

CLASS X 05/02/01

PROTON 50/02/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 JAN 106

PREDICTED 12 - 14 JAN 104/102/100

90-DAY MEAN 11 JAN 111

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 JAN 21

ESTIMATED 11 JAN 17

PREDICTED 12 - 14 JAN 15/18/12

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HFUS BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 012

JOINT AESU/SESC PRIMARY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 JAN 1973

IA. THE LEADING PART OF RGN 519 /N13W71/ HAS BECOME UNSTABLE DURING
THE PAST 24 HOURS. SPOT AND PLAGE GROWTH IS OCCURRING IN THIS AREA
AND THE MT. WILSON DRAWING REVEALS A MODERATE MAGNETIC GRADIENT.
A SMALL CLASS M X-RAY FLARE OCCURRED IN THIS REGION AT 1155Z
TODAY AND SEVERAL CLASS C EVENTS HAVE BEEN REPORTED. THE REMAINING
DISK REGIONS ARE UNINTERESTING.

IB. REGION 519 APPEARS CAPABLE OF PRODUCING ADDITIONAL ENERGETIC
FLARES BEFORE IT COMPLETES WEST LIMB TRANSIT ON 14 JAN. OLD
REGION 508 IS DUE TO RETURN DURING THE EARLY PART OF THE
FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND IS FORECAST TO
REMAIN SO FOR THE NEXT 24 HOURS. UNSETTLED CONDITIONS ARE EXPECTED
DURING THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 13-15 JAN

CLASS M 50/30/20

CLASS X 05/05/02

PROTON 10/05/02

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JAN 107

PREDICTED 13-15 JAN 107/106/106

90-DAY MEAN 12 JAN 111

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 JAN 18

ESTIMATED 12 JAN 24

PREDICTED 13-15 JAN 16/12/10

SOLTERWARN

SPAN

BT