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HOUS 2 BOU

CORRECTED COPY

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
28/0200Z FEB 1973

I. SUNSPOT DATA FROM BOULDER AT 27/1545Z.

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

043 S18W17 179 0000 B 02 02 BETA

044 N07E20 142 0420 E 13 26 BETA-GAMMA

045 S15W10 172 0000 B 03 07 BETA

048 N07W32 194 0010 B 03 07 BETA

MAGNETIC CLASSES DETERMINED AT BOULDER

II. NONE

III. AREAS OF SPECIAL INTEREST-

REGION 044.

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HFUS 1 BOU 280600

SDF NUMBER 059A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 28 FEB 1973

IA. NO CHANGE

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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HFUS 1 BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 059B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 28 FEB 1973

IA. SOLAR ACTIVITY REMAINS LOW WITH ONLY THREE NON-ENERGETIC SUBFLARES REPORTED TODAY. THE NEUTRAL LINE IN REGION 044(N08E10) IS KINKED AND PLAGE BRIGHTENINGS ARE OCCURRING NEAR ITS MAIN LEADER SPOT. THE REMAINING DISK REGIONS ARE STABLE.

IB. PROMINENCE ACTIVITY ON THE NORTHEAST LIMB IS PROBABLY ASSOCIATED WITH RETURNING REGIONS 031 AND 039. REGION 044 STILL APPEARS CAPABLE OF PRODUCING ENERGETIC FLARES.

II. THE GEOMAGNETIC DISTURBANCE IS SUBSIDING. UNSETTLED CONDITIONS ARE EXPECTED DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 28 FEB - 02 MAR

CLASS M 70/70/60

CLASS X 10/10/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 FEB 100

PREDICTED 28 FEB - 02 MAR 103/107/112

90-DAY MEAN 27 FEB 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 FEB 28

ESTIMATED 27 FEB 28

PREDICTED 28 FEB- 02 MAR 15/12/12

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HFUS BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 059

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 FEBRUARY 1973.

IA. SOLAR ACTIVITY HAS INCREASED SLIGHTLY SINCE YESTERDAY WITH
INCREASED OPTICAL FLARE ACTIVITY FROM REGION 044 (N04E10).
MOST OF THESE FLARES HAVE BEEN NONENERGETIC, ALTHOUGH A SUBFLARE
AT 1733Z PRODUCED AN X-RAY EVENT OF CLASS C9 WHICH WAS ACCOMPANIED
BY A SUDDEN PHASE ANOMALY ON VLF CIRCUITS AND A SWF LASTING 15
MINUTES AT 12MHZ. THIS ACTIVITY IS ASSOCIATED WITH A SIGNIFICANT
DEVELOPMENT WITHIN REGION 044. NEW PLAGE HAS FORMED AHEAD OF THE
LEADER SPOT IN THIS REGION SINCE YESTERDAY. THE FORMATION OF
THIS PLAGE, WHICH IS OF OPPOSITE POLARITY FROM THE LEADER SPOT,
HAS INCREASED THE MAGNETIC COMPLEXITY OF THE REGION.

IB. ENERGETIC CLASS M ACTIVITY IS EXPECTED FROM REGION 044 DURING
THE NEXT 72 HOURS DUE TO ITS INCREASED MAGNETIC COMPLEXITY. HOW-
EVER, THE WHITE LIGHT STRUCTURE INDICATES THAT THE HORIZONTAL FIELDS
CONNECTING REGIONS OF OPPOSITE POLARITY ARE STILL WEAK. FOR THIS
REASON, ENERGETIC PARTICLE EMISSION IS UNLIKELY. IONOSPHERIC
EFFECTS OF MODERATE INTENSITY CAN BE EXPECTED, BUT THEY SHOULD
BE OF SHORT DURATION, LASTING LESS THAN 20 MINUTES.

II. THE MINOR GEOMAGNETIC DISTURBANCE ENDED ABOUT 28/1200Z. THE
FIELD HAS BEEN QUIET SINCE THAT TIME. GENERALLY QUIET GEOMAGNETIC
CONDITIONS, WITH UNSETTLED PERIODS DURING LOCAL NIGHTTIME HOURS,
ARE EXPECTED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 01 MAR - 03 MAR.

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 28 FEB 104

PREDICTED 01 MAR - 03 MAR 105/105/104

90-DAY MEAN 28 FEB 102

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 27 FEB 31

ESTIMATED 28 FEB 14

PREDICTED 01 MAR - 03 MAR 12/10/10

SOLTERWARN

SPAN

BT