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HOUS 2 BOU 280200

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

I. SUNSPOT DATA FROM BOULDER AT 27/1510Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0082 N13W42 146 0010 D 09 52 GAMMA DELTA

0085 S06E14 090 0019 E 12 63 GAMMA DELTA

0087 S01E19 085 0001 B 04 11 BETA

NOTE- REGION 087 MISNUMBERED REGION 088 ON 27/0200Z MESSAGE.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END

082 1N 27/1011Z 1015Z 1025Z

III. AREAS OF SPECIAL INTEREST-

BOTH REGIONS 082 AND 085 COMPLEX AND CAPABLE OF ENERGETIC
FLARES.

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HFUS 1 BOU 280601
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 118A
JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 28 APRIL 1973
IA. NO CHANGE.
IB. REGIONS 082 (N13W49) AND 085 (S06E07) ARE BOTH CAPABLE OF
ENERGETIC FLARE ACTIVITY. REGION 085 APPEARS TO BE DECLINING
SOME IN WHITE LIGHT.
II. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET DURING THE
PAST 12 HOURS.
III. NO CHANGE.
IV. NO CHANGE.
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 26 APRIL 20
ESTIMATED 27 APRIL 24
PREDICTED 28 APRIL-30 APRIL 25/22/20
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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 118B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 28 APRIL 1973

IA. SOLAR ACTIVITY REMAINS LOW TO MODERATE. REGION 082 (N13W54)
HAS GROWN IN BOTH WHITE LIGHT AND H ALPHA. AN AFS IS VISIBLE IN
THE CENTER OF THE TRAILING PORTION OF THE PLAGE. REGION 085
(S06E02) HAS PRODUCED SMALL SUBFLARES, AND REMAINS A DELTA CONFIG-
URATION. SMALL SURGES HAVE BEEN REPORTED ON BOTH LIMBS. THE
REMAINDER OF THE DISK HAS BEEN QUIET.

IB. ENERGETIC EVENTS ARE POSSIBLE FROM REGIONS 082 AND 085. EAST
LIMB ACTIVITY IS LIKELY WITH TWO OLD REGIONS DUE TO RETURN TODAY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE, AND IS
EXPECTED TO REMAIN AT THIS LEVEL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 28-30 APR

CLASS M 70/70/60

CLASS X 05/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 APR 111

PREDICTED 28-30 APR 113/113/111

90-DAY MEAN 27 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 APR 20

ESTIMATED 27 APR 25

PREDICTED 28-30 APR 25/22/20

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HFUS BOU 282200

FROM SPACE ENVIRONMENT SERVICE CENTER BOULDER COLO

SDF NUMBER 118

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

IA. SOLAR ACTIVITY HAS BEEN LOW. FIFTEEN FLARES HAVE BEEN REPORTED
THIS ZULU DAY, ALL CLASS C. REGION 082 (N13W58) HAS HAD A LARGE
PENUMBRA GROWTH, WITH THE PENUMBRA NOW 6X4 DEGREES AND
ENCOMPASSING NEARLY ALL SIGNIFICANT UMBRA. PLAGE STRUCTURE IS
ENHANCED BUT NOT LARGE. HOWEVER, SUNSPOT STRUCTURE IS ASSUMING
SOME CHARACTERISTICS OF PAST SUNSPOT GROUPS WHICH PRODUCED PROTON
FLARES. REGION 085 (S05W04) REMAINS MAGNETICALLY COMPLEX. SUNSPOT
STRUCTURE IS FRAGMENTING. REGION 089 (S12E01) HAS EMERGED WHERE
THE LARGE FILAMENT HAD BEEN ENTERING REGION 082

IB. ONE TO TWO CLASS M FLARES PER DAY ARE EXPECTED FOR THE NEXT 48
HOURS. REGION 082 IS BECOMING A THREAT AS A PROTON FLARE PRODUCER,
WITH LOCATION GEOMETRY ALSO FAVORABLE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. IT IS EXPECTED TO
REMAIN ACTIVE, BECOMING UNSETTLED TOWARD THE LATTER PORTION OF THE
FORECAST PERIOD. THE REINFORCEMENT OF THIS SECTOR, WHICH WAS
EXPECTED DUE TO SOLAR ACTIVITY, HAS NOT MATERIALIZED.

III. EVENT PROBABILITIES 29 APR 01 MAY

CLASS M 70/60/50

CLASS X 10/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 112

PREDICTED 29 APR-01 MAY 110/108/105

90-DAY MEAN 28 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 APR 26

ESTIMATED 28 APR 15

PREDICTED 29 APR -01 MAY 23/18/13

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