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HOUS 2 BOU 160200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
16/0200Z 1973

I. SUNSPOT DATA FROM CANARY IS. AT 15/1000Z.

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

051 S16W60 015 0000 A 00 01 ALPHA

054 N13W75 030 0080 D 08 05 BETA

055 S07W26 341 0200 D 08 15 BETA-GAMMA

056 S10W10 325 0050 H 02 05 ALPHA

057 S12W17 332 0120 D 08 13 BETA

058 N04E04 311 0000 A 00 01 ALPHA

NOTE: MAGNETIC CLASSIFICATIONS FROM BOULDERS SPECTROHELIOSCOPE.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN IMP BEGIN MAX END CLASS

055 IN 15/0343IP 0343 0406 -----

III. AREAS OF SPECIAL INTEREST:

AN ISOLATED POLE IN REGION 055 IS ASSOCIATED WITH A TIGHT
MAGNETIC GRADIENT AND MAY BECOME A SOURCE FOR SMALL ENERGETIC
EVENTS.

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HFUS 1 BOU 160600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 075A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 16 MAR 1973.

IA. SINCE 15/2200Z, FOUR NON-ENERGETIC SUBFLARES HAVE BEEN REPORTED, TWO IN REGION 055(S07W37) AND ONE EACH IN REGIONS 051(S16W71) AND 057(S12W28). REGION 055 CONTAINS A COMPLEX MAGNETIC FIELD, AND AN ACTIVE DARK FILAMENT WAS OBSERVED IN THE REGION. REGION 054(N13W86) CONTINUES TO SHOW OCCASIONAL BRIGHTENINGS TO NEAR FLARE INTENSITY AS IT BEGINS ITS ROTATION OVER THE WEST LIMB.

IB. NO CHANGE

II. THE GEOMAGNETIC FIELD CONTINUES QUIET, BUT SLIGHTLY UNSETTLED CONDITIONS ARE EXPECTED THROUGH MOST OF THE FORECAST PERIOD.

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 075B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 16 MARCH 1973

IA. SOLAR ACTIVITY HAS RETURNED TO A LOW LEVEL. NO FLARES HAVE BEEN REPORTED SINCE THE 0600Z MSG. DURING THE PAST 24 HOURS THE LARGEST XRAY EVENT WAS A C6(2249Z) ASSOCIATED WITH A SUBFLARE IN REGION 055(S07W39). THIS REGION HAS HAD SOME SUNSPOT GROWTH AND EXHIBITS SHARP BENDS IN THE NEUTRAL LINE IN THE CENTER OF THE REGION. REGION 054 HAS PRODUCED NUMEROUS SMALL SURGES AS IT APPROACHES WEST LIMB. OTHER DISK REGIONS ARE STABLE. AN INACTIVE PLAGE IS ROTATING ON TO THE DISK NEAR NE17.

IB. A LOW LEVEL CLASS M EVENT IS POSSIBLE DURING THE NEXT 36 HOURS.

II. THE GEOMAGNETIC FIELD HAD BEEN QUIET. A SUDDEN COMMENCEMENT (24 GAMMA DEVIATION AT BOULDER) BEGAN AT 0626Z. THE FIELD HAS SINCE BECOME UNSETTLED AND IS EXPECTED TO REMAIN SO FOR THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 16 - 18 MAR

CLASS M 50/50/30

CLASS X 01/01/01

PROTON 03/03/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 MAR 110

PREDICTED 16 - 18 MAR 106/102/98

90-DAY MEAN 15 MAR 103

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 MAR 02

ESTIMATED 15 MAR 02

PREDICTED 16- 18 MAR 10/08/08

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HFUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 075

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 MARCH 1973

IA. SOLAR ACTIVITY REMAINS LOW WITH ONLY FOUR SUBFLARES REPORTED
TODAY. SLOW SPOT GROWTH CONTINUES IN REGION 055 (S07W47). THE
NEUTRAL LINE IN THIS REGION IS KINKED AND THERE APPEARS TO BE AN
ISOLATED POLE IN THE CENTRAL PART OF THE GROUP. REGION 059 (N17E80)
IS A SMALL PLAGE WITH AN "A" TYPE SPOT GROUP. REGIONS 056 (S10W27)
AND 057 (S13W36) ARE DECAYING.

IB. FLARE ACTIVITY IS EXPECTED TO INCREASE IN REGION 055. THIS REGION
APPEARS CAPABLE OF PRODUCING SMALL CLASS M EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED SINCE A SMALL SUDDEN
COMMENCEMENT AT 0626Z TODAY. UNSETTLED CONDITIONS ARE EXPECTED
TO CONTINUE UNTIL A MODERATE RECURRENT TYPE DISTURBANCE BEGINS
ON 19 OR 20 MARCH.

III. EVENT PROBABILITIES 17-19 MARCH

CLASS M 50/45/45

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 MAR 108

PREDICTED 17-19 MARCH 105/103/102

90-DAY MEAN 16 MARCH 103

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 MAR 02

ESTIMATED 16 MAR 12

PREDICTED 17-19 MAR 10/12/15

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