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HOUS 2 BOU 240200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
24/0200Z MARCH 1973

I. SUNSPOT DATA FROM CANARY AT 23/0930Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

059 N15W15 223 0150 D 06 14 BETA-DELTA

061 N08E65 143 0240 H 02 01 ALPHA

062 N05E64 144 0040 D 06 04 BETA (BOULDER)

063 N14E17 191 0000 A 00 01 ALPHA

NOTE- DELTA IN 059 CONFIRMED BY MT. WILSON AND BOULDER SPECTROSCOPE. BOULDER HAS 062 AS BETA WITH REVERSED POLARITIES.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

061 1F 23/1450Z 1452Z 1503Z

III. AREAS OF SPECIAL INTEREST-

REGIONS 059 AND 061/062 DUE TO MAGNETIC COMPLEXITY.

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 083A
JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 24 MARCH 1973
IA. REGION 059 (N15W18) HAS NOT UNDERGONE ANY GREAT CHANGE DURING
THE PAST 8 HOURS. THE REGIONS HAVE REMAINED STABLE.
IB. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL WITH CLASS C
FLARES.
II. THE GEOMAGNETIC FIELD REMAINS DISTURBED WITH MINOR STORM
CONDITIONS PREVAILING.
III. NO CHANGE.
IV. NO CHANGE.
V. NO CHANGE.
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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 083B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 24 MARCH 1973

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 059(N15W29) HAS BEEN PRODUCING C-CLASS SUBFLARES AT THE RATE OF ABOUT ONE PER HOUR DURING THE PAST 24 HOURS. FREQUENT SUBFLARE PRODUCTION SEEMS TO HAVE STALLED. AFTER THE REGION PRODUCED AN M2 X-RAY FLARE (A SUBFAINT OPTICALLY) AT 0644Z. A SUB BRILLIANT FLARE WAS IN PROGRESS AT 1200Z WITH X-RAYS REACHING M-CLASS LEVELS. THE REGIONS 061/062 COMPLEX (N07E50) HAS DULLED SOMEWHAT AND IS PRESENTLY QUIET.

IB. ALTHOUGH REGION 059 MAY BE RECONFIGURED MAGNETICALLY AFTER THE M-CLASS EVENTS, IT MAY STILL BE CAPABLE OF PRODUCING MORE SMALL M-CLASS FLARES. THE REVERSED POLARITY OF REGION 062 ALSO HOLDS MODERATE ENERGETIC POTENTIAL. MORE SMALL M-CLASS EVENTS MAY OCCUR, THOUGH LARGE ENERGETIC FLARES ARE NOT THOUGHT LIKELY.

II. THE MINOR GEOMAGNETIC STORM CONTINUES. PIONEER 9 MEASUREMENTS OF SOLAR WIND SPEEDS INDICATE THE FIELD WILL CONTINUE DISTURBED FOR ANOTHER DAY OR TWO. GEOMAGNETIC FIELD ACTIVITY WILL DECLINE TOWARD THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 - 26 MAR

CLASS M 50/40/30

CLASS X 01/01/01

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 88

PREDICTED 24 - 26 MAR 90/93/95

90-DAY MEAN 23 MAR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 MAR 33

ESTIMATED 23 MAR 30

PREDICTED 24- 26 MAR 32/30/25

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HFUS BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 083

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 MARCH 1973

IA. SOLAR ACTIVITY IS MODERATE. SOLRAD XRAY (1-8 ANGSTROM)
BEGAN A RISE NEAR 24/0140Z REACHING C5 AT 0320Z IN CONJUNCTION
WITH A 0B FLARE IN REGION 059 (N15W30), WITH SLOW DECAY TO
BACKGROUND CONTINUING TO 0900Z. SUPERIMPOSED ON THIS DECAY
PHASE WERE C5/ON (0500Z) AND C9/OF (0640Z) EVENTS IN REGION 059.
AN IMPULSIVE M1/0B AT 1158Z ALSO OCCURRED IN 059.

IN ADDITION TO THE EXISTING DELTA IN REGION 059, A NEW STRONG
TRAILER POLARITY SPOT HAS EMERGED JUST AHEAD OF THE LEADER
PENUMBRA OF THIS REGION. REGIONS 061/062 (N07E44) HAVE
BEEN COMBINED AS ONE GROUP BY MT WILSON AND CLASSIFIED
MAGNETICALLY AS A GAMMA REGION. THE NEUTRAL LINE FOR THIS
COMPLEX IS CURVED BUT ASSOCIATED H-ALPHA STRUCTURE CURRENTLY IS
NOT STRONG.

IB. ONE TO THREE CLASS M EVENTS ARE EXPECTED FROM REGION 059 DURING
THE NEXT 48 HOURS. CONTINUED GROWTH IN THE 061/062 COMPLEX
WOULD GIVE THIS REGION CLASS M EVENT POTENTIAL IN THE NEXT
24-48 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THE PAST 24 HOURS.
IT IS EXPECTED TO REGAIN MINOR MAGSTORM INTENSITY 25 MARCH AND
THEN AGAIN RETURN TO ACTIVE INTENSITY ON 26 MARCH.

III. EVENT PROBABILITIES 25-27 MAR

CLASS M 50/50/40

55 55 40

CLASS X 01/01/01

PROTON 02/03/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 90

PREDICTED 25-27 MAR 91/90/88

90-DAY MEAN 24 MAR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 MAR 31

ESTIMATED 24 MAR 25

PREDICTED 25-27 MAR 33/23/15

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