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HOUS 2 BOU 180200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
18/0200Z MAY 1973.

I. SUNSPOT DATA FROM BOULDER AT 17/2230Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE
0103 N09E48 145 0290 D 08 25 GAMMA-DELTA
0104 S09W03 196 0030 C 06 08 BETA
0105 N12E41 152 0030 H 01 02 ALPHA
0106 S07E41 152 0010 B 02 03 BETA

NOTE: MAGNETIC CLASSIFICATIONS FROM MT. WILSON, WITH THE EXCEPTION OF
REGION 106 WHICH WAS INFERRED AT BOULDER.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN	IMP	BEGIN	MAX	END	CLASS
103	1N	17/1352Z	1356	1430	M-1S
103	1B	17/B1908	1909	B1926	S

III. AREAS OF SPECIAL INTEREST:

A DELTA CONFIGURATION NOW EXISTS IN REGION 103, AS MAGNETIC GRADIENTS
CONTINUE TO TIGHTEN DUE TO ITS RECENT GROWTH. THE POSSIBILITY OF
ENERGETIC ACTIVITY IS INCREASING HERE.

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HFUS 1 BOU 180600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 138A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 18 MAY 1973

IA. REGION 103(N09E44) HAS BEEN THE SOURCE OF ALL FLARE ACTIVITY REPORTED SINCE 17/2200Z. THIS REGION IS NOW CLASSIFIED MAGNETICALLY AS A DELTA, AND HAS EXHIBITED GROWTH IN BOTH WHITE LIGHT AND H-ALPHA. NEW REGION 106(S07E37), REPORTED EARLIER TODAY, IS MAGNETICALLY SIMPLE, CLASSIFIED AS A BETA. NO SIGNIFICANT CHANGE CHARACTERIZES THE REMAINDER OF THE DISK.

IB. ENERGETIC ACTIVITY IS POSSIBLE, DUE TO THE MAGNETIC COMPLEXITY OF REGION 103.

II. NO CHANGE

III. EVENT PROBABILITIES 18 MAY - 20 MAY

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 138B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 18 MAY 1973

IA. SOLAR ACTIVITY IS PRESENTLY LOW. SINCE THE IMPORTANCE 1 BRIGHT FLARE (X-RAY CLASS M) AT 17/1910Z, REGION 103 (N09E40) HAS PRODUCED SEVERAL SUBFLARES. OTHER REGIONS HAVE BEEN QUIET. SURGE ACTIVITY ON THE EAST LIMB (S09) MAY HERALD THE RETURN OF THE OLD REGION 085 COMPLEX.

IB. REGION 103 SHOWS RENEWED INTENSIFICATION AND CONTAINS A DELTA CONFIGURATION. THE PRESENCE OF REGION 103 (WHICH WAS VERY ACTIVE DURING THE PRECEDING SOLAR ROTATION) AND THE POSSIBLE APPEARANCE OF A REGION ON THE EAST LIMB MAKE MODERATE FLARE ACTIVITY LIKELY DURING THE FORECAST PERIOD. SOME POTENTIAL EXISTS FOR HIGHLY ENERGETIC FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD IS ACTIVE. THOUGH THE STORM OF 14 MAY HAS SUBSIDED WE ARE IN A RECURRENT ACTIVE PERIOD, AND PRESENT LEVELS OF GEOMAGNETIC ACTIVITY WILL LIKELY PERSIST FOR SEVERAL DAYS.

III. EVENT PROBABILITIES 18 MAY - 20 MAY

CLASS M 70/70/70

CLASS X 15/15/15

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 MAY 89

PREDICTED 18 MAY - 20 MAY 90/92/96

90-DAY MEAN 17 MAY 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 MAY 27

ESTIMATED 17 MAY 23

PREDICTED 18 MAY - 20 MAY 23/23/23

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HFUS BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 138

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 MAY 1973.

IA. SOLAR ACTIVITY HAS INCREASED FOR THE SECOND STRAIGHT DAY.
REGION 103 (N10E37) HAS HAD SEVERAL SUBFLARES WITH ONE M2 (1N) AT
1527Z. THIS FLARE OCCURRED IN THE TRAILING PORTION OF THE REGION.
IT WAS ACCCOMPANIED BY SWF, MINOR CM BURSTS AND TYPE III AND TYPE
IV DEKAMETRIC BURSTS. REGION RETAINS ITS COMPLEXITY, POSSIBLE
DELTA CONFIGURATION AND MODERATE IMPRESSIVENESS IN H-ALPHA. IT STILL
HAS THE POTENTIAL FOR SIGNIFICANT ACTIVITY. MINOR LIMB ACTIVITY
HAS BEEN REPORTED ON BOTH THE NORTHEAST AND SOUTHEAST LIMBS.
REGIONS 085 (S07) AND 087 (S01) ARE BOTH DUE BACK ON 19 MAY.
MINOR ENHANCEMENTS EXIST ON OSO-7 X-RAY AND EUV MAPS ON THE
SOUTHEAST LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A MODERATE LEVEL FOR THE
NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD REMAINS UNSETTLED TO ACTIVE
AND IS EXPECTED TO REMAIN SO FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 19-21 MAY

CLASS M 80/80/80

CLASS X 15/15/15

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 MAY 93

PREDICTED 19-21 MAY 96/99/102

90-DAY MEAN 18 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 MAY 22

ESTIMATED 18 MAY 24

PREDICTED 19-21 MAY 23/22/21

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