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HOUS 2 BOU 230200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
23/0200Z MAY 1973

I. SUNSPOT DATA FROM BOULDER AT 22/1800Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0103 N10W17 149 0200 C 06 27 GAMMA

0105 N12W22 152 0010 A 01 04 ALPHA

0107 S05E36 096 0010 B 01 02 BETA

0110 N02E46 086 0010 B 04 05 BETA

MAGNETIC CLASSIFICATIONS INFERRED AT BOULDER.

II. NONE

III. AREAS OF SPECIAL INTEREST-

REGION 103

SOLTERWARN

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HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 143A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 23 MAY 1973

IA. RGN 103 CONTINUES TO SLOWLY DECLINE. BUT RETAINS ITS POTENTIAL
FOR SIGNIFICANT ACTIVITY.

IB. NO CHANGE

II. THE GEOMAGNETIC FIELD BECAME SUDDENLY ACTIVE AT 0130Z AND IS
CURRENTLY ACTIVE. IT IS EXPECTED TO REMAIN ACTIVE TO UNSETTLED THE
NEXT 24 HOURS.

III. NO CHANGE

IV. NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 MAY 29

ESTIMATED 22 MAY 14

PREDICTED 23 MAY - 25 MAY 18/20/22

SOLTERWARN

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PREDICTED 23 MAY - 25 MAY 18/20/22

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HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 143B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 23 MAY 1973

IA. SOLAR ACTIVITY REMAINS LOW WITH ONLY THREE NON-ENERGETIC SUB-FLARES REPORTED TODAY. SLOW DECAY IS OCCURRING IN THE 103/105 (N11W30) COMPLEX. OTHER REGIONS ARE SMALL AND GENERALLY UNINTERESTING.

IB. REGION 103 IS EXPECTED TO CONTINUE ITS SLOW DECLINE. HOWEVER, IT STILL APPEARS CAPABLE OF PRODUCING ENERGETIC FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD. MINOR (5-21 MEV) PROTON ENHANCEMENTS WERE DETECTED BY THE ATS-1 SATELLITE AT 0630Z AND 1100Z TODAY.

III. EVENT PROBABILITIES 23 MAY - 25 MAY

CLASS M 80/70/60

CLASS X 20/10/05

PROTON 10/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAY 101

PREDICTED 23 - 25 MAY 102/102/102

90-DAY MEAN 22 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 MAY 29

ESTIMATED 22 MAY 13

PREDICTED 23 - 25 MAY 27/20/22

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ESTIMATED 22 MAY 13

PREDICTED 23 - 25 MAY 27/20/22

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HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 143

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 MAY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW, WITH ONLY CLASS C EVENTS REPORTED: ONE WITH MAXIMUM AT 0535Z AND ONE WITH MAXIMUM AT 0623Z IN REGION 103 (N11W28). A NUMBER OF SUBFLARES HAVE BEEN OBSERVED IN REGION 108 (S13W80), BUT THEY HAVE NOT PRODUCED DETECTABLE RADIO OR X-RAY EMISSION. REGION 103 APPEARS SIMPLIFIED IN WHITE LIGHT, AND PLAGE DECAY IS EVIDENT. REGION 108 APPEARS REGENERATING, ALTHOUGH LIMB PROXIMITY PREVENTS MAGNETIC CONFIGURATION ANALYSIS. AN ERUPTIVE PROMINENCE WAS REPORTED AT S10, EAST LIMB, AND THE NORTHEAST LIMB IS ALSO INTERESTING, WITH SOME SURGES AND GREEN CORONAL EMISSION REPORTED. NO KNOWN RETURNING REGIONS ARE EXPECTED WITHIN THE NEXT DAY, SO INTEREST IN THESE EAST LIMB FEATURES IS HIGH.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW, WITH NO MORE THAN ONE CLASS M EVENT PROBABLE. FURTHER GROWTH OF REGION 113 (S07E34) MAY LEAD TO EXPECTATION OF ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE, BUT IS CURRENTLY QUIETING. IT IS EXPECTED TO REMAIN UNSETTLED DURING THE FORECAST INTERVAL. A SLIGHT ENHANCEMENT OF PROTON FLUXES (LOW ENERGY, ONLY) WAS NOTED WITH MAXIMUM AT 11Z THIS MORNING.

III. EVENT PROBABILITIES 24 MAY - 26 MAY.

CLASS M 80/70/60

CLASS X 10/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 23 MAY 97

PREDICTED 24 MAY - 26 MAY 95/93/90

90-DAY MEAN 23 MAY 102

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 22 MAY 16

ESTIMATED 23 MAY 19

PREDICTED 24 MAY - 26 MAY 17/15/15

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