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HOUS 2 BOU 240200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
240200Z MAY 1973

I. SUNSPOT DATA FROM BOULDER AT 231520Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0103 N11W28 149 0150 D 06 23 GAMMA

0105 N12W33 154 0010 A 00 01 ALPHA

0107 S05E24 097 0010 A 03 03 ALPHA

0108 S13W80 201 0000 D 00 00 BETA

0110 N00E33 088 0010 B 04 04 BETA

0113 S07E34 087 0020 B 04 09 BETA

POLARITIES INFERRED FROM BOULDER OBSERVATIONS.

II. NONE.

III. AREAS OF SPECIAL INTEREST-

NORTHEAST LIMB (APPROACHING NEW REGION)

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HFUS 1 BOU 240600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 144A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 24 MAY 1973

IA. A 1N FLARE OCCURRED AT 2357Z IN REGION 103 (N14W36). IT WAS ACCOMPANIED BY MINOR X-RAY, SID AND DECIMETRIC EVENTS. THIS REGION CONTINUES ITS VERY SLOW DECAY, BUT RETAINS POTENTIAL FOR SIGNIFICANT EVENTS. POSSIBLE NEW REGION IS DUE BACK BY 25 MAY AT NE10 WHICH HAD JUST APPEARED ON THE WEST LIMB ON 12 MAY. A NEW, POSSIBLY DEVELOPING REGION HAS BEEN REPORTED AT S11E00. ALSO REGION 108 (S13W90) HAS BEEN REPORTED AS POSSIBLE SOURCE FOR SMALL ENERGETIC FLARES AS HAS REGION 113 (S07E30) AS THESE REGIONS UNDERGO RE-STRUCTURING.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. FURTHER GROWTH OF REGIONS 108 AND 113 WOULD LEAD TO EXPECTATION OF ENERGETIC EVENTS.

II. NO CHANGE

III. NO CHANGE

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAY 97

PREDICTED 24 MAY - 26 MAY 95/98/100

90-DAY MEAN 23 MAY 102

V. NO CHANGE

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HFUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 144B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 24 MAY 1973

IA. CLASS C X-RAY FLARES OCCURRED ALONG AN ACTIVE FILAMENT BETWEEN  
REGIONS 103 (N11W40) AND 105 (N12W45) AT 23/2357Z AND 24/0657Z.

THE LATTER EVENT PRODUCED SMALL SHORTWAVE FADES. REGION 107 (S05E12)  
IS DEVELOPING SLOWLY WHILE REGION 103 CONTINUES ITS SLOW DECLINE.

IB. DECAYING REGION 103 APPEARS CAPABLE OF PRODUCING SMALL CLASS M  
EVENTS.

II. THE GEOMAGNETIC FIELD IS PRESENTLY QUIET. QUIET TO MILDLY UN-  
SETTLED CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 MAY - 26 MAY

CLASS M 70/60/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAY 97

PREDICTED 24 - 26 MAY 100/100/98

90-DAY MEAN 23 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 MAY 16

ESTIMATED 23 MAY 19

PREDICTED 24 MAY - 26 MAY 07/10/15

SOLTERWARN

SPAN

BT

HFUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 144B

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SOLTERWARN

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KBOU

HFUS BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 144

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

IA. SOLAR ACTIVITY HAS BEEN LOW, WITH ONLY CLASS C EVENTS REPORTED: REGION 103 (N11W45) PRODUCED EVENTS WITH OPTICAL MAXIMA AT 23/2359Z AND 24/0700. MINOR RADIO BURSTS WERE REPORTED AT THESE TIMES. REGION 113 (S06E17) PRODUCED AN ADDITIONAL EVENT WITH MAXIMUM AT 24/1220Z. A NEW REGION, NUMBERED 114, HAS EMERGED AT S03E04, IN CLOSE PROXIMITY TO OLD REGION 107. SPOTS IN THIS LATTER REGION ARE NO LONGER VISIBLE. THE NEW REGION IS COMPLEX, AND GROWING RAPIDLY, BOTH IN WHITE LIGHT AND H-ALPHA. CORONAL ENHANCEMENT AT NORTHEAST LIMB CONTINUES, BUT NO PROMINENCES OR PLAGE ARE YET VISIBLE.

IB. CONTINUED DECAY OF REGION 103, TOGETHER WITH THE YOUTH OF THE OTHER ACTIVE CENTERS CURRENTLY ON THE DISK, MAKES MAJOR ACTIVITY IMPROBABLE. IT IS EXPECTED, HOWEVER, THAT THE NEWER CENTERS, PARTICULARLY 114, WILL BEGIN TO PROVIDE AN INCREASED RATE OF ACTIVITY AT LOW ENERGY LEVELS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE LAST 20 HOURS. IT IS ANTICIPATED THAT THE FIELD MAY BECOME UNSETTLED IN THE NEXT 24 HOURS AS A STORMY BOUNDARY IN THE SOLAR WIND STRUCTURE APPROACHES. PIONEER DATA SUGGESTS THAT SUCH A DISTURBANCE WILL BE BRIEF. PROTON FLUXES NEAR EARTH ARE AT BACKGROUND LEVELS.

III. EVENT PROBABILITIES 25 MAY - 27 MAY.

CLASS M 45/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 24 MAY 102

PREDICTED 25 MAY - 27 MAY 97/93/93

90-DAY MEAN 24 MAY 102

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 23 MAY 18

ESTIMATED 24 MAY 03

PREDICTED 25 MAY - 27 MAY 15/12/10

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