

HOUS 2 BOU 220200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
22/0200Z MAY 1973

I. SUNSPOT DATA FROM BOULDER AT 21/1500Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0103 N10W03 150 0270 D 07 48 GAMMA

0105 N12W03 155 0020 H 02 01 ALPHA

0108 S13W52 199 0010 B 03 03 BETA

0109 N05E02 145 0010 A 02 05 ALPHA

0110 N01E61 086 0010 B 03 05 BETA

II. NONE

III. AREAS OF SPECIAL INTEREST-

REGION 103

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 220600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 142A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 22 MAY 1973

IA. NO CHANGE

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

HFUS 1 BOU 221300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 142 B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 22 MAY 1973

IA. SOLAR ACTIVITY REMAINS LOW WITH ONLY A FEW CLASS C SUBFLARES  
REPORTED DURING THE PAST 24 HOURS. SLIGHT PENUMBRAL DECAY HAS  
OCCURRED IN REGION 103 (N11W11). A SMALL PLAGE IS PRODUCING MINOR  
SURGE ACTIVITY ON THE NORTHWEST LIMB.

IB. REGION 103 REMAINS MAGNETICALLY COMPLEX AND CAPABLE OF PRODUCING  
ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE. UNSETTLED TO  
ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 2-3 DAYS.

III. EVENT PROBABILITIES 22 MAY - 24 MAY

CLASS M 80/80/80

CLASS X 20/20/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MAY 100

PREDICTED 22 MAY - 24 MAY 102/103/104

90-DAY MEAN 21 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 MAY 17

ESTIMATED 21 MAY 29

PREDICTED 22 MAY - 24 MAY 21/15/20

SOLTERWARN

SPAN

BT

NNNN  
KBOU  
HFUS 1 BOU 221300  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 142 B  
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PREDICTED 22 MAY - 24 MAY 21/15/20  
SOLTERWARN  
SPAN  
BT

NNNN

KBOU

HFUS 1 BOU 222205

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 142

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 22 MAY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY CLASS C SUBFLARES RECORDED IN REGIONS 103 (N10W20), 104 (S10W67) AND 107 (S05E33). REGION 103 HAS SHOWN STRUCTURAL CHANGE. MAJOR PENUMBRA AREA HAS DECLINED AS HAVE ISOLATED MAGNETIC POLES ADJACENT TO THE MAIN SPOT. SMALL NEW ISOLATED POLES HAVE APPEARED ON THE NORTH SIDE OF THE SAME SPOT. THE MAIN FILAMENT EXTENDING INTO THE REGION HAS BEEN ACTIVE. ONLY SLIGHT GROWTH HAS BEEN NOTED IN REGIONS 104 AND 107.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH REGION 103 PRODUCING MORE ENERGETIC FLARES. THERE IS A GOOD CHANCE OF A FLARE OF INTENSITY M7 TO X2 IN THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. ACTIVITY IS EXPECTED TO INCREASE OVER THE NEXT THREE DAYS REACHING ACTIVE LEVELS BY THE END OF THE PERIOD. A MAJOR FLARE IN THE NEXT FEW DAYS SHOULD PRODUCE A SMALL-TO-MODERATE MAGNETIC STORM, PROTON EVENT AND PCA.

III. EVENT PROBABILITIES 23-25 MAY

CLASS M 80/80/75

CLASS X 20/15/10

PROTON 10/10/10

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 15/15/20

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