

KBOU

HOUS 2 BOU 210200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
21/0200Z MAY 1973

I. SUNSPOT DATA FROM BOULDER AT 20/1600Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0103 N09E11 149 0290 D 06 29 BETA-GAMMA-DELTA

0105 N11E06 154 0020 H 01 01 ALPHA

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
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103	1B	20/0449Z	0452Z	0519Z	M-3S
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103	1F	20/0559Z	0601Z	0617Z	S
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103	0N	20/1604Z	1605Z	1628Z	S
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III. AREAS OF SPECIAL INTEREST-

REGION 103

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HFUS 1 BOU 210600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 141A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 21 MAY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS. A FEW  
NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED FROM REGION 103 (N10E05).

IB. NO CHANGE

II. THE GEOMAGNETIC DISTURBANCE CONTINUES. AT 21/0253Z A SUDDEN  
COMMENCEMENT WAS OBSERVED AT BOULDER SHOWING 28 GAMMAS INCREASE.

III. NO CHANGE

IV. NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MAY 20

ESTIMATED 20 MAY 16

PREDICTED 21 MAY - 23 MAY 20/20/15

SOLTERWARN

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HFUS 1 BOU 211300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 141B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 21 MAY 1973

IA. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL. REGION 103 (N09W01) HAS PRODUCED SEVERAL SUBFLARES WITH NO SIGNIFICANT CHANGE REPORTED HERE. THE FLARE ACTIVITY HAS CONTINUED TO ORIGINATE FROM AN AREA WEST OF THE LEADER SPOT. DARK SURGES HAVE BEEN NOTED SOUTH OF THE MAIN SPOT, WHILE FURTHER TO THE SOUTH, A FILAMENT HAS BEEN ACTIVE. REGION 107 (S09E53), WITH NO SPOTS VISIBLE, PRODUCED ONE SUBFLARE AT 21/0849Z.

IB. ALTHOUGH SOMEWHAT STABILIZED, REGION 103 REMAINS MAGNETICALLY COMPLEX AND POTENT. THEREFORE, MODERATE TO LARGE ENERGETIC EVENTS CAN BE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN HIGHLY DISTURBED. A SUDDEN COMMENCEMENT WAS OBSERVED AT 21/0235Z, AND SINCE THEN THE FIELD HAS EXHIBITED NEAR MAJOR STORM CONDITIONS. MINOR TO MAJOR MAGSTORM CONDITIONS ARE EXPECTED TO PREVAIL AT LEAST FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 21 MAY - 23 MAY

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 102

PREDICTED 21 - 23 MAY 105/107/109

90-DAY MEAN 20 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MAY 20

ESTIMATED 20 MAY 20

PREDICTED 21 - 23 MAY 48/45/40

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ESTIMATED 20 MAY 20

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HFUS 2 BOU 211820

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
JOINT AESU/SESC EXTENDED PERIOD REPORT ISSUED AT 1800Z 21 MAY 73  
THIS MESSAGE IN THREE PARTS.

PART I. THIS FORECAST ISSUED AT 1800Z EACH MONDAY IS VALID FOR  
A 27 DAY PERIOD. A 27-DAY MEAN VALUE OF 2800 MHZ FLUX DENSITY  
IS GIVEN WITH THE INCLUSIVE DATES OF EXPECTED SIGNIFICANT  
DEVIATIONS FROM THE MEAN. SEE 07 MAY 1800Z FORECAST FOR DEFINITIONS.

PART II. 27-DAY 2800 MHZ FLUX DENSITY FORECAST:

A. MEAN 103

B. SIGNIFICANT DEVIATIONS:

ABOVE MEAN 25-26 MAY

PART III. 27-DAY SOLAR EVENT FORECAST:

A. CLASS M SOLAR EVENTS EIGHT-TWELVE

CLASS X SOLAR EVENTS TWO-THREE

B. EXPECT MOST ACTIVITY: 22-27 MAY

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HFUS BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 141

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 21 MAY 1973.

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 103 (N10W06) HAS BEEN QUIET, PRODUCING ONLY CLASS C SUBFLARES WHILE UNDERGOING CONSIDERABLE STRUCTURAL CHANGE.

IB. A MODERATE LEVEL OF ACTIVITY IS EXPECTED WITH A CHANCE OF CLASS X FLARES IN REGION 103.

II. A MINOR SUDDEN COMMENCEMENT AT 21/0253Z WAS FOLLOWED BY A SHORT MAGNETIC DISTURBANCE. K VALUES HAVE RECOVERED TO NEAR-QUIET LEVELS. THERE IS A CHANCE OF ANOTHER SMALL S.C. IN THE NEXT FEW HOURS FROM THE 19/2234Z FLARE. NO MORE THAN A SHORT DISTURBANCE WOULD BE EXPECTED TO FOLLOW. OTHERWISE, ACTIVITY LEVELS SHOULD INCREASE GRADUALLY OVER THE NEXT 2-3 DAYS. A MAJOR FLARE IN REGION 103 WOULD PROBABLY PRODUCE A SMALL-TO-MODERATE MAGNETIC STORM AND PCA.

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

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