

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

103 1B 20/0449Z 0452Z 0519Z M-3S

103 1F 20/0559Z 0601Z 0617Z S

103 0N 20/1604Z 1605Z 1628Z S

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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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.

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ESTIMATED 20 MAY 20

PREDICTED 21 - 23 MAY 48/45/40

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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 CONSID-  
ERABLE 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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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.

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CLASS X 20/20/10

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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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