

KBOU

HOUS 2 BOU 190200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
19/0200Z MARCH 1973

I. SUNSPOT DATA FROM CANARY IS AT 18/0830Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

055 S07W63 339 0200 D 08 17 BETA

056 S10W50 326 0040 H 00 03 ALPHA

057 S15W61 337 0100 H 02 04 ALPHA

059 N16E51 225 0010 A 00 01 ALPHA

MAGNETIC CLASSIFICATIONS FROM MT. WILSON.

II. NONE.

III. AREAS OF SPECIAL INTEREST-

LARGE APR ON SW LIMB.

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HFUS 1 BOU 190601

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 078A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 19 MARCH 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 059 (N14E45) HAS
GROWN IN BOTH H-ALPHA AND WHITE LIGHT.

IB. ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVEL.

II. THE GEOMAGNETIC FIELD CONTINUES TO BE DISTURBED. ACTIVITY IS
AT SUBSTORM LEVEL.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

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HFUS 1 BOU 191300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 078B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 19 MARCH 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. LIMB ACTIVITY HAS BEEN OBSERVED AT SW18 AND CLASS C X-RAY EVENTS WITHOUT CORRESPONDING OPTICAL FLARES HAVE OCCURRED FREQUENTLY. CHROMOSPHERIC ACTIVITY HAS BEEN REPORTED IN REGION 055 (S07W78) AND THE FILAMENTS ASSOCIATED WITH REGION 056 (S10W65) HAVE BEEN ACTIVE. A SMALL NEW REGION (059) IS GROWING AT N16E36.

IB. CONTINUED LOW ACTIVITY LEVELS EXPECTED. SMALL FLARES MAY OCCUR IN REGION 056 AS WELL AS 055.

II. THE MAGNETIC FIELD HAS BEEN ACTIVE AND IS EXPECTED TO CONTINUE UNSETLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 19-21 MAR

CLASS M 30/20/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 MAR 96

PREDICTED 19-21 MAR 94/92/90

90-DAY MEAN 18 MAR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 MAR 01

ESTIMATED 18 MAR 16

PREDICTED 19-21 MAR 25/20/20

SOLIERWARN

SPAN

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HFUS 1 BOU 191300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 078B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 19 MARCH 1973

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ESTIMATED 18 MAR 16

PREDICTED 19-21 MAR 25/20/20

SOLTERWARN

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HFUS 2 BOU 191800

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
JOINT AESU/SESC EXTENDED PERIOD REPORT ISSUED AT 1800Z 19 MARCH 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 1800Z 05 MARCH FORECAST FOR DEFINITIONS.

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

- A. MEAN 107
- B. SIGNIFICANT DEVIATIONS: ABOVE MEAN 6-9 APRIL

PART III. 27-DAY SOLAR EVENT FORECAST:

- A. MINOR SOLAR EVENTS 4-6
- MAJOR SOLAR EVENTS ONE OR NONE
- B. EXPECT MOST ACTIVITY: 3-12 APRIL

SPAN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 078
JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 MARCH 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 059 (N16E32) HAS EXHIBITED VERY RAPID GROWTH AND CONTAINS AN ARCH FILAMENT SYSTEM. A VERY SLOW RADIO BURST OF 10 FLUX UNITS AT 10.7 CM WHICH TOOK PLACE FROM 19/1300Z TO 19/2000Z WAS PROBABLY DUE TO THIS REGION. REGION 055 (S07W88) HAS BEEN SURGING ALMOST CONTINUOUSLY AS IT BEGINS WEST LIMB TRANSIT. A SMALL ENHANCEMENT OF LOW ENERGY PROTONS AT SATELLITE ALTITUDES WAS OBSERVED ABOUT 19/1800Z.

IB. SOLAR ACTIVITY WILL REMAIN LOW FOR THE NEXT 24 HOURS. ENERGETIC ACTIVITY IS POSSIBLE DURING THE FOLLOWING 48 HOURS IF REGION 059 CONTINUES TO GROW. OLD REGION 044 IS DUE TO RETURN 20 MARCH.

II. A MINOR RECURRENT GEOMAGNETIC STORM STARTED ABOUT 19/0720Z. THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE FOR THE REMAINDER OF THE FORECAST PERIOD, PARTICULARLY DURING THE NIGHTTIME HOURS AT HIGH LATITUDES.

III. EVENT PROBABILITIES 20 MAR - 22 MAR.

CLASS M 20/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 19 MAR 105 (ENHANCED BY RADIO BURST)

PREDICTED 20 MAR - 22 MAR 96/96/96

90-DAY MEAN 19 MAR 102

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 18 MAR 19

ESTIMATED 19 MAR 33

PREDICTED 20 MAR - 22 MAR 35/35/35

SOLIERWARN

SPAN

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