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JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
23/0200Z APRIL 1973

I. SUNSPOT DATA FROM RAMEY AT 22/1315Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0082 N14E22 149 0300 D 09 29 BETA-GAMMA-DELTA

0083 S13W12 183 0070 D 08 16 BETA

0084 N11E25 146 0040 C 03 13 BETA

0085 S03E86 085 -- - -- --

MAGNETIC CLASSIFICATIONS-

REGION 082 AND 083 FROM MT. WILSON.

REGION 084 INFERRED AT RAMEY.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

085 0B 221408 1410 1423 M1S

082 0N 221820 1834 1848 S

082 0B 222145 2152 2207 M2S

III. AREAS OF SPECIAL INTEREST-

REGIONS 085 AND 082.

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HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 113A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 23 APRIL 1973

IA. THE LEVEL OF SOLAR ACTIVITY HAS DECLINED SOMEWHAT SINCE 22/2200Z.
EIGHT SUBFLARES, ALL APPARENTLY CLASS C AND MOSTLY FROM REGION 085
(S05E80), HAVE BEEN OBSERVED DURING THE PAST EIGHT HOURS. REGION 085
CONTAINS WHAT APPEARS TO BE A D-TYPE SUNSPOT GROUP AND AN EXTENSIVE
PLAGE.

IB. SMALL CLASS M EVENTS ARE LIKELY FROM REGIONS 082 (N12E14) AND
085.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. THE RECURRENT-TYPE MINOR
STORM WHICH HAS BEEN IN PROGRESS SINCE 16 APRIL IS EXPECTED TO DECAY
DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23-25 APRIL

CLASS M 50/55/55

CLASS X 05/05/05

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 APRIL 101

PREDICTED 23-25 APRIL 108/114/116

90-DAY MEAN 22 APRIL 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 APRIL 34

ESTIMATED 22 APRIL 29

PREDICTED 23-25 APRIL 22/13/12

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HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 113B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 23 APRIL 1973

IA. SOLAR ACTIVITY HAS CONTINUED TO DECLINE SINCE THE 22/2200Z
FORECAST. ONLY FIVE SUBFLARES HAVE BEEN OBSERVED DURING THE
PAST EIGHT HOURS. REGION 082 (N11E08) APPEARS TO BE GROWING
IN ITS CENTRAL AND TRAILING PORTIONS. REGION 083 (S15W25) IS
SHOWING MINOR ACTIVITY AS IT DECAYS. REGION 085 (S05E74) IS
PRESENTLY THE MOST ACTIVE REGION ON THE DISK. IT APPEARS TO
BE A D-TYPE SUNSPOT WITH EXTENSIVE PLAGE.

IB. SMALL CLASS M EVENTS ARE LIKELY FROM REGIONS 082 AND 085.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. THE RECURRENT-
TYPE MINOR STORM WHICH HAS BEEN IN PROGRESS SINCE 16 APRIL
IS EXPECTED TO DECAY DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23-25 APR

CLASS M 50/55/55

CLASS X 05/05/05

PROTON 02/02/02

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V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 APR 34

ESTIMATED 22 APR 29

PREDICTED 23-25 APR 22/18/12

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HFUS 2 BOU 231800

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

JOINT AESU/SESC EXTENDED PERIOD REPORT ISSUED AT 1800Z 23 APRIL 1973

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 02 APRIL FORECAST FOR DEFINITIONS.

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

A. MEAN 108

B. SIGNIFICANT DEVIATIONS: BELOW MEAN 13-18 MAY

PART III. 27-DAY SOLAR EVENT FORECAST:

A. CLASS M SOLAR EVENTS 9-11

CLASS X SOLAR EVENTS 1-2

B. EXPECT MOST ACTIVITY: 24 APRIL-01 MAY

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HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 113

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 APRIL 1973

IA. SOLAR ACTIVITY HAS DECLINED SINCE THE CLASS M-2 SUBFLARE AT
222145Z. SLOW SPOT GROWTH CONTINUES NEAR THE DELTA CONFIGURATION
IN THE TRAILING PART OF REGION 082 (N12E09). REGION 085 (S04E66)
HAS APPARENTLY STABILIZED. HOWEVER, ITS PLAGE IS LARGE AND MT.
WILSON REPORTS A DELTA CONFIGURATION IN ITS MAIN SPOT. REGION
083 (S16W30) IS DECAYING.

IB. REGIONS 082 AND 085 APPEAR CAPABLE OF PRODUCING SMALL CLASS
M FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE. A GRADUAL
RETURN TO UNSETTLED CONDITIONS IS EXPECTED WITHIN THE NEXT 24-36
HOURS.

III. EVENT PROBABILITIES 24-27 APR

CLASS M 55/60/60

CLASS X 05/05/05

PROTON 02/03/03

PCAF GREEN

IV. OTTAWA 10.7CM FLUX

OBSERVED 23 APR 108

PREDICTED 24-27 APR 112/116/119

90-DAY MEAN 23 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 APR 36

ESTIMATED 23 APR 25

PREDICTED 24-27 APR 18/12/12

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