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HOUS 2 BOU 020200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
02/0200Z APRIL 1973

I. SUNSPOT DATA FROM CANARY IS. AT 01/0735Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

061	N06W56	148	0160	C	05	03	ALPHA
064	S05E11	081	0500	E	12	55	BETA-GAMMA
067	N15E53	039	0180	D	07	08	GAMMA
069	N08W48	140	0080	D	09	04	BETA-GAMMA

MAGNETIC CLASSES FROM MT. WILSON. DATA ALSO INDICATES WEAK
DELTAS IN NORTHERN PENUMBRA OF 067 AND EASTERN END OF LARGE
LEADER OF 064.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

064	1B	01/0811Z	0813Z	0834Z	M-2-S
064	1N	01/1530Z	1536Z	1545Z	S
067	0N	01/1507Z	1509Z	1525Z	S
069	0N	01/1831Z	1832Z	1843Z	S
067	0B	01/2203Z	2215Z	2246Z	S

III. AREAS OF SPECIAL INTEREST-

WATCH SE LIMB FOR RETURN OF OLD REGIONS 055, 057 AND LATER
056.

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HFUS 1 BOU 020601
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 092A
JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 02 APRIL 1973
IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST SIX HOURS. REGIONS
067 (N12E43) AND 064 (S06E02) STILL CONTAIN DELTA CONFIGURATIONS.
IB. NO CHANGE.
II. THE MINOR GEOMAGNETIC DISTURBANCE CONTINUES AND SHOULD
DIMINISH BY 03 APRIL.
III. NO CHANGE.
IV. NO CHANGE.
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 31 MARCH 19
ESTIMATED 01 APRIL 37
PREDICTED 02 APRIL-04 APRIL 35/20/10
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HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 092B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 02 APRIL 1973

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL, ALTHOUGH FLARE FREQUENCY HAS DECREASED DURING THE LAST 6 HOURS. A TOTAL OF 19 SUBFLARES AND A ONE-NORMAL FLARE HAVE BEEN REPORTED SINCE 01/1300Z WITH ONLY 7 SUBFLARES SINCE 02/0000Z. REGION 067 (N12E37) HAS PRODUCED 10 SUBFLARES AND AT LEAST ONE CLASS M X-RAY EVENT (M3). THIS IS A LARGE, MAGNETICALLY COMPLEX REGION CONTAINING A PROBABLE DELTA CONFIGURATION AND HAS GROWN IN BOTH WHITE LIGHT AND H ALPHA DURING THE LAST 24 HOURS. REGION 064 (S06W03) PRODUCED 4 SUBFLARES AND A 1N, CLASS M3 FLARE AT 01/1534Z. THIS REGION REMAINS LARGE AND MAGNETICALLY COMPLEX, BUT THE LEADING PENUMBRA HAS BEGUN TO FRAGMENT, AND THE DELTA CONFIGURATION MAY NO LONGER EXIST. REGIONS 061 (N07W69) AND 069 (N09W60) PRODUCED 4 SUBFLARES, BUT APPEAR TO BE DECLINING. NEW PLAGE AND H TYPE SPOTS AT S08E87 AND S14E84 ARE RETURNING REGIONS 055 AND 057 RESPECTIVELY, BUT THESE REGIONS DO NOT APPEAR VERY LARGE OR ACTIVE.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE TO POSSIBLY HIGH LEVEL, WITH ADDITIONAL CLASS M EVENTS LIKELY AND A CLASS X EVENT POSSIBLE FROM REGIONS 064 AND 067, WITH REGION 067 BEING THE MOST LIKELY SOURCE OF ENERGETIC ACTIVITY. REGION 056 (S11) IS DUE TO RETURN LATE TODAY.

II. A MINOR GEOMAGNETIC STORM HAS BEEN IN PROGRESS FOR THE LAST 24 HOURS AND SHOULD LAST FOR ANOTHER 12-24 HOURS, BECOMING ACTIVE TO UNSETTLED BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 APR - 04 APR

CLASS M 80/85/85

CLASS X 20/25/25

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 APR 115

PREDICTED 02 APR - 04 APR 117/118/120

90-DAY MEAN 01 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 31 MAR 19

ESTIMATED 01 APR 37

PREDICTED 02 APR - 04 APR 48/25/15

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HFUS 2 BOU 021825

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

JOINT AESU/SESC EXTENDED PERIOD REPORT ISSUED AT 1800Z 02 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 IS GIVEN WITH THE INCLUSIVE DATES TO EXPECT SIGNIFICANT DEVIATIONS FROM THE MEAN.

A. THE FOLLOWING CATEGORIES ARE USED:

1. MUCH BELOW MEAN. FOR PERIODS WHEN THE DAILY VALUE IS FORECAST TO BE MORE THAN 20 PERCENT BELOW THE EXPECTED MEAN.

2. BELOW MEAN. FOR PERIODS WHEN THE DAILY VALUE IS FORECAST TO BE 10 TO 20 PERCENT BELOW THE EXPECTED MEAN.

3. ABOVE MEAN. FOR PERIODS WHEN THE DAILY VALUE IS FORECAST TO BE 10 TO 20 PERCENT ABOVE THE EXPECTED MEAN.

4. MUCH ABOVE MEAN. FOR PERIODS WHEN THE DAILY VALUE IS FORECAST TO BE MORE THAN 20 PERCENT ABOVE THE EXPECTED MEAN.

B. PART II INDICATES THE EXPECTED MEAN VALUE OF 2800 MHZ (10.7 CM) RADIO FLUX FOR THE ENTIRE PERIOD. WHEN APPROPRIATE, SIGNIFICANT DEVIATIONS FROM THE MEAN, WITH INCLUSIVE DATES TO EXPECT THESE DEVIATIONS, ARE GIVEN.

C. PART III GIVES THE EXPECTED SOLAR EVENT ACTIVITY FOR THE ENTIRE PERIOD. A RANGE IN THE NUMBER OF MINOR AND MAJOR EVENTS TO EXPECT DURING THE PERIOD IS GIVEN, USUALLY FOLLOWED BY AN APPROPRIATE REMARK INDICATING THE LIKELY PERIOD(S) TO EXPECT THE MOST ACTIVITY.

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

A. MEAN 110

B. SIGNIFICANT DEVIATIONS:

ABOVE MEAN: 03-06 APR

PART III. 27-DAY SOLAR EVENT FORECAST:

A. MINOR SOLAR EVENTS 35
MAJOR SOLAR EVENTS NONE

B. EXPECT MOST ACTIVITY:
APRIL 03 TO APRIL 13

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Please ^{file} ~~the~~ original copy as requested -
I suspect this ~~copy~~ may not have been
in the original copy.

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HFUS BOU 022230

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 092

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 APRIL 1973

IA. SOLAR ACTIVITY HAS DECREASED SOMEWHAT BUT REMAINS MODERATE.
BOTH REGIONS 064 (S05W10) AND 067 (N13E31) CONTINUE TO SUBFLARE,
AND A ONE BRIGHT WAS REPORTED AT 1326Z IN 067. BOTH REGIONS HAVE
SHOWN SLIGHT GROWTH AND DYNAMIC STRUCTURE, WITH LITTLE NET CHANGE
SINCE YESTERDAY. 061 (N07W76) IS UNIMPRESSIVE, AND 069 (N09W68)
HAS DECAYED, WITH SLIGHT CHANGE. NEW REGION 070 (S12E44, B-TYPE)
HAS APPEARED AND IS GROWING, AND 055 HAS R

EURNED AS AN H-TYPE SPOT
AT S06E80, NOW CALLED REGION 071.

IB. 064 AND 067 REMAIN COMPLEX. M-CLASS EVENTS ARE EXPECTED, AND
X-CLASS EVENTS ARE POSSIBLE. ACTIVITY ON AND BEHIND THE EAST LIMB
INDICATE THE POSSIBLE RETURN OF OLD 057 AND/OR 056 WITHIN 24-HOURS.

II. THE MAGNETIC STORM INTENSIFIED 0000Z TO 1200Z APRIL 2 AND THE
FIELD THEN BECAME UNSETTLED. THE FIELD IS NOW QUIET, BUT
HIGHER LEVELS OF ACTIVITY ARE EXPECTED DURING LOCAL NIGHTTIME.
OVERALL ACTIVITY SHOULD DECREASE DURING THE NEXT THREE DAYS. POSSIBLE
ACTIVITY MAY BE OBSERVED ON 05 APRIL DUE TO THE 01/1707Z 1B FLARE
IN REGION 067.

III. EVENT PROBABILITIES 03 APR - 05 APR.

CLASS M 85/85/80

CLASS X 25/25/20

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 02 APR 122

PREDICTED 03 APR - 05 APR 126/124/120

90-DAY MEAN 02 APR 101

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 01 APR 067

ESTIMATED 02 APR 037

PREDICTED 03 APR - 05 APR 025/020/015

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