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HOUS 2 BOU 120200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
12/0200 MARCH 1973

I. SUNSPOT DATA FROM RAMEY AT 11/1245Z.

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

051	S18W11	017	0080	C	04	05	BETA
053	S17W12	018	0000	A	02	04	ALPHA
054	N11W19	025	0080	D	09	22	BETA
055	S07E26	340	0470	D	09	27	DELTA
056	S11E29	327	0050	C	04	05	BETA
057	S13E35	331	0080	D	08	13	BETA
058	N08E57	309	0000	A	00	01	ALPHA

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

055 SB 11/1124Z 1127Z 1129Z S

III. AREAS OF SPECIAL INTEREST-

REGION AT S07E26

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HFUS 1 BOU 120600
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 071A
JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 12 MARCH 1973
IA. NO CHANGE
IB. NO CHANGE
II. NO CHANGE
III. NO CHANGE
IV. NO CHANGE
V. NO CHANGE
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HFUS 1 BOU 121300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 071B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 12 MARCH 1973

IA. DURING THE PAST 72 HOURS REGION 055 (S07E13) HAS PRODUCED MOST OF THE ACTIVITY. SUB FLARES FROM THIS REGION AT 11/1125Z AND 11/1159Z WERE CLASS M1 AND C9 RESPECTIVELY. THE MOST SIGNIFICANT OPTICAL ACTIVITY DURING THE PERIOD ORIGINATED FROM THE 051/053 COMPLEX (S18W24). IN THIS COMPLEX A 1B FLARE AT 12/1107Z HAD A SECOND MAXIMUM OF IMPORTANCE 2N AT 12/1147Z. THE ACTIVITY WAS APPARENTLY TRIGGERED BY ACTIVITY IN THE COMPLEX'S NEUTRAL LINE FILAMENT, WHICH HAD BEEN HIGHLY ACTIVE SINCE EARLY ON 12 MARCH. THE 1B FLARE WAS CLASS M1-M2. IT PRODUCED ONLY WEAK IONOSPHERIC DISTURBANCES. A VERY COMPLEX RADIO BURST, WITH A PEAK OF ABOUT 500 FLUX UNITS AT 245 MHZ AND 45 FLUX UNITS AT 2695 MHZ, ACCOMPANIED THE 2N FLARE.

IB. A LOW TO MODERATE LEVEL OF ACTIVITY IS EXPECTED. SMALL CLASS M EVENTS ARE POSSIBLE FROM REGIONS 055 AND 054 (N11W32) AND PERHAPS 051/053.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED. SIMILAR CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 12-14 MAR

CLASS M 40/45/45

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 MAR 115

PREDICTED 12-14 MAR 116/116/115

90-DAY MEAN 11 MAR 103

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 MAR 06

ESTIMATED 11 MAR 06

PREDICTED 12-14 MAR 06/10/08

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HFUS 2 BOU 121800

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

JOINT AESU/SESC EXTENDED PERIOD REPORT ISSUED AT 1800Z 12 MARCH 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 1800Z 05 MARCH 1973 FORECAST FOR DEFINITIONS.

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

A. MEAN 107

B. SIGNIFICANT DEVIATIONS: NONE

PART III. 27-DAY SOLAR EVENT FORECAST:

A. MINOR SOLAR EVENTS 4-6

MAJOR SOLAR EVENTS 1 OR NONE

B. EXPECT MOST ACTIVITY: 12 MARCH - 17 MARCH AND 25 MARCH-01 APRIL

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HFUS BOU 122220

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 071

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 MARCH 1973.

IA. SOLAR ACTIVITY HAS BEEN MODERATE. FLARES HAVE OCCURRED IN
REGIONS 051/053 (S18W31) AND 055 (S07E08). THE MOST ENERGETIC WAS
A 1B/2B IN REGION 051 AT 12/1055Z WITH X-RAY CLASS M1. MINOR DE-
VELOPMENT IS OCCURRING IN REGIONS 051/053 (S18W31, S16W32) 054
(2,13W39) AND 056/057 (S11E23, S13E17). REGION 055 APPEARS TO HAVE
A SIMPLER STRUCTURE WITH SOME INDICATION OF DECLINE. TYPE III
BURSTS AT DEKAMETRIC RADIO FREQUENCIES HAVE BEEN FREQUENT TODAY.

IB. MORE FLARES UP TO SMALL CLASS M ARE PROBABLE OVER THE NEXT
3 DAYS FROM ANY OF THE CURRENT DISK REGIONS. SUCH FLARES WILL
PROBABLY BE PRECEDED BY ACTIVITY IN ASSOCIATED FILAMENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED
AND IS EXPECTED TO BE THE SAME FOR THE NEXT THREE DAYS WITH A
SLIGHT MINIMUM ON 13 MARCH. NIGHTTIME SUBSTORM INTENSITY SHOULD
BE AT LEAST MODERATE DURING THE SAME PERIOD.

III. EVENT PROBABILITIES 13 MAR - 15 MAR.

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 12 MAR 116

PREDICTED 13 MAR - 15 MAR 115/115/114

90-DAY MEAN 12 MAR 103

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 11 MAR 08

ESTIMATED 12 MAR 09

PREDICTED 13 MAR - 15 MAR 08/10/10

SOLTERWARN

SPAN

BT