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KBOU

HOUS 2 BOU 100200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
10/0200Z APRIL 1973

I. SUNSPOT DATA FROM BOULDER AT 09/1515Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

067	N12W60	042	0020	H	02	02	ALPHA
071	S08W08	350	0010	B	06	08	BETA
072	S12E01	341	0010	A	00	01	ALPHA
074	S06W16	358	0040	C	08	26	BETA
077	S06E18	324	0390	D	09	67	BETA-GAMMA
078	S14E02	340	0010	A	01	04	ALPHA
079	S09E04	338	0010	A	00	01	ALPHA

NOTE- MAGNETIC POLARITIES INFERRED AT BOULDER. POSSIBLE DELTA
IN LEADER OF REGION 077.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

077 0N 09/1743Z 1746Z 1804Z M-2S

III. AREAS OF SPECIAL INTEREST-

REGION 077 DUE TO ITS DYNAMIC BEHAVIOR AND MAGNETIC COMPLEXITY.

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HFUS 1 BOU 100601

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 100A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 10 APRIL 1973

IA. REGION 077 (S06E11) HAS PRODUCED SEVERAL SUBFLARES DURING THE
PAST SIX HOURS, WHICH HAVE PRODUCED MINOR XRAY EVENTS.

IB. REGION 077 CONTINUES TO BE THE MOST INTERESTING DISK FEATURE.

II. GEOMAGNETIC FIELD IS QUIET.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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Errors due to machine Trouble - many attempts
were made to correct errors

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HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 100B

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 10 APRIL 1973

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS WITH FEWER BUT LARGR FLARES DURING THE LAST 12 HOIRS. REGION 077 (S06E07) HAS PRODUCED ABOUT 20 SUBFLARES, MANY ASSOCIATED SMALL RADIO BURSTS AND AT LEAST 3 CLASS M X-RAY EVENTS OF WHICH AT LEAST 2 WERE ACCOMPANIED BY MINOR SHORT WAVE FADES. THE REGION REMAINS MAGNETICALLY COMPLEX WITH A POSSIBLE DELTA CONFIGURATION AND CONTINUES TO SHOW SOM SPOT GROWTH IN THE TRAILER. REGION 074 (S06W27) IS RELATIVELY QUIET WITH ONLY 3 SUBFLARES IN THE PAST 24 HOURS. OTHER REGIONS APPEAR STABLE.

IB. SOLAR ACTIVTY SHOULD CONTINUE AT A MODERATE LEVEL. FREQUENT SUBFLARES ACCCOMPANIED BY X-RAY EVENTS UP THROUGH SMALL CLASS M ARE EXPECTED TO CONTINUE. THERE IS A FAIR CHANCE OF LARGER, MORE ENERGETIC FLARES FROM REGION 077.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE LAST 24 HOURS AND IS EXPECTED TO REMAIN QUIET THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 APR - 12 APR

CLASS M 85/85/85

CLASS X 20/20/20

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APR 120

PREDICTED 10 APR - 12 APR 120/120/118

90-DAY MEAN 09 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 APR 06

ESTIMATED 09 APR 05

PREDICTED 10 APR - 12 APR 05/05/05

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SLA

someone else corrected me -
agree with 3 punctuation errors but
not rest.

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HFUS BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 100

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 APRIL 1973 ~~that (S) is correct~~ Moderate is correct !
IA. SOLAR ACTIVITY CONTINUES MODERATE WITH NUMEROUS SUBFLARES FROM
REGION 077 (S08E02). THE SUBFLARE FREQUENCY HAS DECREASED SINCE
YESTERDAY, BUT THE FLARES HAVE BEEN MORE ENERGETIC WITH FOUR SUB-
FLARES FROM REGION 077 (0054Z, 1006Z, 1226Z, 1915Z) ACCCOMPANIED
BY CLASS M X-RAY EVENTS. SHORT WAVE FADES WERE ALSO ASSOCIATED
WITH ALL BUT THE 1006Z FLARE. THE 0054Z SUBFLARE REACHED AN M5
X-RAY CLASS AND REMAINED AT M CLASS LEVELS FOR AN HOUR. REGION 077
HAS SHOWN SOME SPOT FRAGMENTATION, BUT RETAINS A DELTA CONFIGURATION
AND APPEARS CAPABLE OF PRODUCING FURTHER ENERGETIC ACTIVITY. THE
LARGEST OPTICAL FLARE OF THE DAY WAS A LONG-LASTING, LARGE ^{ON} FLARE
CONSISTING OF 2 PARALLEL RIBBONS ALONG A FILAMENT WHICH RAN — ^{no comma}
THROUGH REGION 071 (S13W25). THIS FLARE WAS ACCOMPANIED BY AN ^{needed}
M2 X-RAY EVENT AS MEASURED BY VELA. REGION 074 (S09W34) IS STILL
ACCOMPANIED BY A RELATIVELY BRIGHT PLAGE, ALTHOUGH IT DOES NOT
APPEAR TO BE MAGNETICALLY COMPLEX. A TYPE IV CONTINUUM AT DEKA-
METRIC WAVELENGTHS HAS BEEN OBSERVED DURING MOST OF THE LAST 24
HOURS ^{with} OCCASIONAL TYPE IIIS EMBEDDED. A LARGE ENHANCEMENT OF
THE 8.15 ANGSTROM X RAY FLUX ON THE WEST LIMB MEASURED BY OSO 7
INDICATES POSSIBLE ACTIVITY FROM OLD REGION 064 WHICH IS NOW 2 DAYS
BEHIND THE LIMB.
*No
Coming
needed*

IB. MODERATE OR GREATER ACTIVITY SHOULD CONTINUE WITH MORE CLASS M
EVENTS LIKELY FROM REGION 077. A CLASS X EVENT OR PROTON EVENT
IS STILL POSSIBLE FROM THIS REGION. ENHANCED 284 ANGSTROM FLUX
MEASURED BY OSO 7 AT SE12-15 INDICATES A POSSIBLE NEW REGION ABOUT
TO ROTATE OVER THE EAST LIMB. REGION 059 IS DUE TO RETURN
11 APR AT NE15, BUT THERE HAS BEEN NO EVIDENCE AS YET OF THIS
REGION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE LAST 24 HOURS
AND IS EXPECTED TO REMAIN QUIET DURING THE NEXT 24 HOURS, BE-
COMING UNSETLED DURING THE LATTER PORTION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 APR - 13 APR.

*O no
Coming
needed*

CLASS M 85/80/75

CLASS X 20/15/15

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 10 APR 115

PREDICTED 11 APR - 13 APR 114/113/110

90-DAY MEAN 10 APR 102

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 09 APR 06

ESTIMATED 10 APR 03

PREDICTED 11 APR - 13 APR 05/10/13

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 100

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IB. MODERATE OR GREATER ACTIVITY SHOULD CONTINUE WITH MORE CLASS M EVENTS LIKELY FROM REGION 077. A CLASS X EVENT OR PROTON EVENT IS STILL POSSIBLE FROM THIS REGION. ENHANCED 284 ANGSTROM FLUX MEASURED BY OSO 7 AT SE12-15 INDICATES A POSSIBLE NEW REGION ABOUT TO ROTATE OVER THE EAST LIMB. REGION 059 IS DUE TO RETURN 11 APR AT NE15, BUT THERE HAS BEEN NO EVIDENCE AS YET OF THIS REGION.

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