

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

Bulletin No.



$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

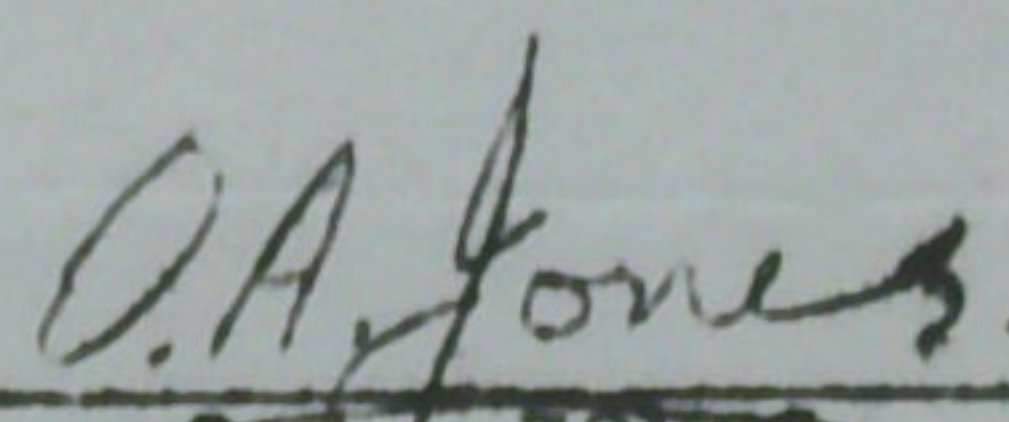
The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. m. s.	UNIT.	REMARKS.
1949 Jan. 2nd	iPZ	04-54-08	B	
	iPZ	08-58-16	B	
	iZ	58-58	"	
	iZ	09-03-09	"	
	iS?N	05-06	M-S	
	iE	06-27	"	
	iG?E	10-13	"	
" 5th	iPZ	09-00-24	B	
	iPE	00-24	M-S	
	iPPN	00-43	"	
	iPPE	00-44	"	
	iZ	01-04	B	
	iE	01-05	"	$\Delta = 18^{\circ}$
	iSE	03-44	M-S	
	eSN	03-47	"	
	iL ₁ E	05-31	"	
	iL ₂ E	06-52	"	
" 7th	iPZ	17-25-53	B	
	ePE	25-54	M-S	
	iSZ	30-19	B	
	iSE	30-24	M-S	$\Delta = 26.1^{\circ}$
	iSSE	31-11	"	
	iL ₂ E	34-32	"	
	iP?Z	17-58-41	B	
	eP?E	58-43	M-S	
	iSE	18-03-03	"	
	iSSE	03-35	"	in minute break
	iL ₂ E	07-49	"	
" 13th	iPZE	08-51-51	B & M-S	
	ePN	51-53	M-S	
	iE	52-52	"	
	esP	54-39	"	
	iSNE	55-16	"	Revised
	iSZ	55-18	B	$\Delta = \text{about } 23\frac{1}{2}^{\circ}$
	iZE	56-12	B & M-S	Depth 600 km.
	iZ	57-56	B	
	iN	58-21	M-S	
	iN	09-01-42	"	

DATE.	PHASE.	h. U. T. m. s.	UNIT.	REMARKS.
Jan. 14th	iPZ iZ iZ iN iZ iE	01-08-27 09-36 10-33 11-55 11-57 12-41	B " " M-S B M-S	
" 18th	iE eZ iN iE	03-00-13 00-41 00-44 00-47	M-S B M-S "	Possibly mechanical disturbance
" 21st	iPZ iPE iPNZ iSNE iSSN iL ₁ N	01-23-29 15-25-30 25-32 29-11 29-41 30-54	B M-S M-S & B M-S " "	$\Delta = 20.3^\circ$
" 22nd	iPZ iPE iE iSN iSE iL ₁ N ePNZ iPE iSE iSN	05-38-35 38-36 39-14 41-58 42-00 43-45 11-54-06 54-07 57-50 57-51	B M-S " " " " M-S & B (in minute break) M-S " "	$\Delta = 19^\circ$
" 23rd	iPZ ePE iPPEZ iE iSE iSN iSZ iSKSE iN iL ₁ E iL ₁ N	06-40-59 41-00 43-15 44-54 49-11 49-12 49-14 50-45 55-33 59-19 59-22	B M-S M-S & B M-S " " B M-S " " "	(in minute break) $\Delta = 56^\circ$
" 24th	iPE iPZ iPPEZ iE iN iSN iSZ iSE iSSN iZ iL ₁ N iL ₂ N	09-21-35 21-36 22-20 22-42 22-47 26-15 26-17 26-19 26-55 28-20 28-44 31-06	M-S B M-S & B M-S " " B M-S " B M-S "	$\Delta = 28\frac{1}{2}^\circ$
" 27th	iPZ iSN eSE iPZ iPN iSNE iPZ iPN iPPZN iZN iE iSN iSE iE iL ₁ ZN	02-46-16 50-38 50-40 03-36-15 36-16 40-41 07-23-21 23-22 23-45 24-15 24-18 27-41 27-42 29-10 30-24	B M-S " B M-S " B M-S B & M-S B & M-S M-S " " " B & M-S	Similar pattern to previous shock $\Delta = 24^\circ$

DATE.	PHASE.	h. U. T. m. s.	UNIT.	REMARKS.
Jan. 27th Contd.	iPZ ePN iPPN iZ iZ iSN iSE iSSN iSSE iL ₁ N iL ₂ N	15-03-44 03-46 04-15 04-53 05-50 08-08 08-11 08-54 08-56 10-35 12-56	B M-S M-S B " M-S " " " " "	$\Delta = \text{about } 25.5^\circ$
" 31st	iZ iZ iZ eN iZ iZ iZ eN iZ iZ eE eN iZ eE eE eN iZ eE	00-20-55 21-10 22-06 25-48 27-15 28-15 29-05 29-19 30-14 30-32 30-35 31-07 31-11 31-13 32-02 32-34 33-20 33-27	B " " M-S B " " M-S B " M-S " B M-S " " B M-S	




O.A. JONES
Officer in Charge

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

7 (to nearest tenth of a millimeter) January, 1949.

MICROSEISM SUPPLEMENT No.



Date Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	02	03	02	02	03	02	02	02
2	01	01	02	01	02	02	02	01
3	01	02	01	00	02	02	01	02
4	01	02			01	02	02	02
5	01	01	03	03	03	02	02	02
6	03	02	02	01	02	03	03	02
7	02	02			02	01	01	02
8	01	01	01	01	01	01	02	02
9	02	02	03	02	02	02	03	02
10	03	02	03	04	03	02	03	05
11	03	03	04	03	05	04	05	05
12	04	05	06	05	06	06	07	06
13	04	05	04	03	05	06	05	04
14	02	02	01	01	03	03	03	02
15	02	02	01	02	03	03	02	03
16	02	02	01	02	02	03	03	02
17	01	01	02	02	02	03	02	02
18	02	02	03	03	03	04	04	03
19	02	02	02	03	02	04	03	05
20	03	02	03	02	03	05	04	04
21	02	02	01	01	02	03	04	03
22	01		01	00	01		02	01
23	01	01	00	01	01	02	01	01
24	01	01	00	01	01	02	01	02
25	02	02	01	02	03	03	03	02
26	01	01	01	01	01	01	02	01
27	01	02	02	01	02	02	02	01
28	02	01	02	01	02	02	02	01
29	01	01	01	01	01	02	01	01
30	01	01	00	01	01	02	02	01
31	01	01	01	02	02	02	02	02

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

137

Bulletin No.

 $\phi = 27^{\circ} 28' 41'' \text{ S. } \lambda = 153^{\circ} 1' 52'' \text{ E.}, h = 15\text{m.}$

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

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DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
Feb. 1949				
" 1st	ePZ iZ ePNE ePPE iSNE iG?E iL ₁ N eL ₁ Z	18-21-52 21-57 21-57 22-38 26-46 28-08 30-33 30-40	B " M-S " " " " B	$\Delta = 29^{\circ}$
" 2nd	iPZ iPNE iZ eSKS?E iSN	17-53-46 53-48 57-05 18-03-50 18-03-55	B M-S B M-S "	
" 3rd	ePZ iPE eLN	16-35-44 35-44 45-50	B M-S "	
" 6th	iPZ iZ iE iZ	09-24-32 27-18 31-05 31-08	B " M-S B	
" 7th	iPZ iZ iE iN	19-47-59 57-19 57-25 57-38	B " M-S "	
" 9th	iPZ iZ iN iZ isPN isPE iZ iE iSNE iE iN iN iN	17-35-23 35-37 35-46 36-23 36-31 36-33 36-40 37-16 39-10 39-26 39-30 40-17 44-05	B " M-S B M-S " B M-S " " " " "	Revised Δ about 22° Depth about 200 km.

DATE.	PHASE	U. T. h. m. s.	UNIT	REMARKS.
Feb. 10th	iE iPZ iZ iZ iE iZ eN iE iN iE iE	22-03-19 03-20 03-33 04-28 04-39 04-42 04-42 04-57 11-17 11-19 13-35	M-S B " " " " M-S " " " "	
" 13th	iPZ ePE iPPN iPPEZ iZ iSN iSZ iZ iSSE	18-29-50 29-53 30-26 30-27 31-31 34-16 34-19 34-37 34-53	B M-S " M-S & B B M-S B " M-S	$\Delta = 25^\circ$
" 14th	iPE iPZ iZE iE iZ iE iE iE	16-28-41 28-42 28-53 29-17 30-14 32-04 32-24 33-04	M-S B B & M-S M-S B M-S " "	Deep focus
	iPZ iZ	18-51-14 52-23	B "	
" 16th	iPNEZ isPNZ iE iE iNE iZ iE iSNE iL ₁ ?E iL ₂ ?N	11-41-38 42-12 42-28 42-57 43-12 43-17 44-13 45-14 46-47 48-52	M-S & B " M-S " " B M-S " " "	Depth about 100 km. $\Delta = 22^\circ$ approx.
" 19th	iPNZ iPE iPNE iZ isP?N iSN iZ iNE iZ iSSE iSSN iL ₁ N	01-00-20 00-22 00-36 00-44 01-07 04-08 04-11 04-12 04-17 04-28 04-29 05-42	M-S & B M-S " B M-S " B M-S B M-S " "	Revised $\Delta =$ about 21° Depth about 120°
" 22nd	iPZ eLN	10-24-23 38-30	B M-S	
" 23rd	iPZ iZ iZ eS?N iSKSE eSS?E	16-21-29 21-57 25-15 32-02 32-05 37-10	B " " M-S " "	
" 26th	iPZ	09-33-36	B	

O. A. Jones.
Officer in Charge.

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

8 (to nearest tenth of a millimetre) February, 1949.

MICROSEISM SUPPLEMENT No.

Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	01	01	02	01	03	02	03	03
2	01	02	01	01	02	02	01	02
3	01	01	00	01	02	01	01	01
4	01	02	01	01	02	02	02	02
5	01							
6	04	03			04	05	03	03
7	01	01	00	00	02	02	01	01
8	01	01	00	01	02	00	01	01
9	01	01	02	03	01	03	02	04
10	02	02	01	02	03	03	02	02
11	02	02	01	01	03	02	02	01
12	02	02	01	01	02	03	02	02
13	01	02	02	01	02	02	02	02
14					01	02	02	03
15	03	03	02	03	04	03	04	03
16	04	07	05	05	04	09	07	06
17	03	03	02	02	04	05	03	03
18	03	02	03	02	04	03	03	04
19	02	03	02	02	03	03	03	04
20	02	01	01	01	02	01	02	03
21	02	02	01	02	02	03	04	03
22	03	02	02	02	02	03	03	02
23	01	01	03	02	02	02	02	03
24	02	03	03	02	03	03	05	04
25	02	03	01	02	04	03	04	03
26	02	02	01	02	03	03	03	03
27	04	03	05	07	04	07	05	08
28	08	10	13	12	10	15	12	14



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SEISMOLOGICAL STATION

BRISBANE

138

Bulletin No.

$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.



INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

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DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
<u>1949</u> March 4th	iPZ i E i Z iSNE	01-26-20 26-32 26-33 33-48	B M-S B M-S	$\Delta = \text{about } 53^{\circ}$
	ePZ iPE i Z iSN	08-23-12 23-12 24-11 26-33	B M-S B M-S	$\Delta = \text{about } 18^{\circ}$
	iPZ ePN ePE i Z i Z iPPE iSKSN iSKSE iSKKS?NE e Z iNE iNE	10-32-49 32-50 32-52 33-45 35-54 36-33 42-02 42-06 43-02 43-09 47-08 52-17	B M-S " B " M-S " " " B M-S "	Revised $\Delta = 110^{\circ}$ Depth about 300 km.
" 7th	iPZ iPPNE i Z iSNE iL ₂ N	14-41-39 41-57 42-07 45-35 49-43	B M-S B M-S "	$\Delta = \text{about } 22^{\circ}$
" 10th	epZ i Z eSZ iSZ e E o N i E eL ₁ Z iL ₁ E	22-32-31 32-55 34-03 34-14 34-16 34-20 34-27 34-38 34-41	B " " " M-S " " B M-S	Revised Damage at Dalton N.S.W.

DATE	PHASE	h. m. s.	UNIT	REMARKS
March 16th	iPN iPZ ePE iPPNE iPPZ iSNE iSZ	22-20-05 20-05 20-07 20-27 20-27 24-05 24-07	M-S B M-S " B M-S B	Revised $\Delta = 22\frac{1}{2}^\circ$ Compression. Reported intensity 3-4 at Rabaul, and 4-5 at Kokopo, New Britain.
" 17th	iPN iPZ e E iPPN i E i Z i N iSNE iSZ iSSN iSSZ iL ₁ N	21-10-03 10-03 10-12 10-21 10-41 10-47 11-39 14-05 14-09 14-43 14-46 15-56	M-S B M-S " " B M-S " B M-S B M-S	$\Delta = 22\frac{1}{2}^\circ$ Dilatation After-shock of earthquake of 16th. Intensity 3 at Rabaul and severe at Waterfall Bay New Britain.
"	i E iPZ iPN i Z iSN iSSE	22-58-31 58-45 58-47 59-32 23-02-41 03-10	M-S B M-S B M-S "	- possibly mechanical $\Delta = \text{about } 23\frac{1}{2}^\circ$
" 23rd	iPZ iPN i Z iSE eSN iL ₁ N	06-42-09 42-12 42-48 46-43 46-46 49-37	B M-S B M-S " "	$\Delta = \text{about } 27^\circ$
" 26th	iPZ i N i E	07-03-26 13-07 13-08	B M-S "	
" 27th	iPZ i N iSN iSSN iL ₂ N	06-41-22 43-04 47-14 50-04 56-19	B M-S " " "	Revised
	iPZ i Z i E iSN eSE iL ₁ E	11-50-20 50-36 50-39 54-18 54-19 56-46	B " M-S " " "	Deeper than normal
" 30th	iPZ i Z iPPE eSE iSN iSSE iGN	14-53-50 54-08 54-53 58-41 58-45 15-00-19 00-49	B " M-S " " " "	Revised $\Delta = 31\frac{1}{2}^\circ$

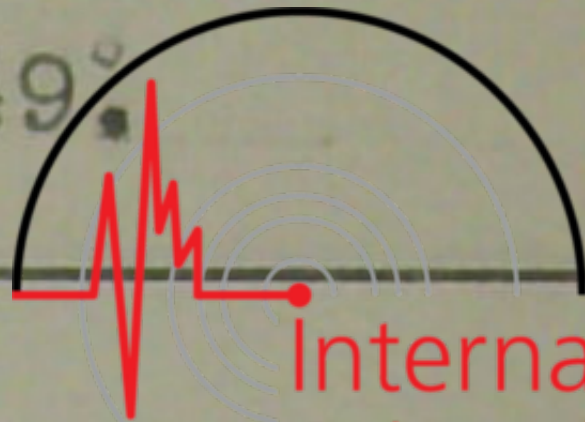


DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
March 31st	i PN i PZ i N i Z i SZ i SN	21-44-58 44-58 45-27 45-30 48-57 48-57	M-S B M-S B " "	Deeper than normal.
				 International Seismological Centre O. A. Jones. O. A. Jones Officer in Charge.

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)
(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. 9°

March, 1949°



International
Seismological
Centre

Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	10	12	13	13	14	15	21	22
2	29	28	19	18	34	41	29	19
3	05	03	03	02	08	07	04	03
4	02	02	01	01	03	02	02	02
5	02	01	01	01	03	02	02	01
6	02	01	02	01	02	02	03	02
7	01	02	02	01	02	02	03	02
8	01	01	02	01				
9	01	01	02	01				
10	01	02	02	02	02	02	03	03
11	02	03	03	02	03	03	02	02
12	02	01	01	02	03	02	03	03
13	02	03	02	02	02	03	03	02
14	01	01	02	01	01	03	02	03
15	01	01	01	01	01	02	01	02
16	02	01	02	03	02	03	03	05
17	02	01	03	04	04	03	03	04
18	03	04	06	06	04	05	08	06
19	05	03	04	03	07	05	04	04
20	03	02	02	02	03	03	03	02
21	03	02	03	01	02	02	02	01
22	02	03	03	03	01	03	01	02
23	03	02	04	03	02	03	04	04
24	02	03	03	02	02	03		
25	02	02	01	01	03	02	01	01
26	01	02	01	02	02	02	03	02
27	03	04	04	05	04	05	04	04
28	05	04	04	05	04	05	04	05
29	03	02	03	02	02	02	01	01
30	02	02	02	01			01	02
31	03	01	03	02	01	01	02	01

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SEISMOLOGICAL STATION

BRISBANE

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$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.



INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
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Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

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DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
1949 April 1st	iPZ i Z	07-06-49 07-05	B "	
	iPZ i Z	08-54-05 56-11	B "	Long waves appearing on M-S records at 09 h. 07 m. 40 s.
" 2nd	iPZ	07-08-36	B	
	eS?N i N i E eLE eLN	16-09-59 10-39 10-47 15-03 15-04	M-S " " " "	
	iPZ	19-09-15	B	
" 3rd	e Z i Z i Z e E	06-42-51 42-59 44-24 44-44	B " " M-S	
	iPZ iPN i E	16-57-17 57-17 17-04-42	B M-S "	
" 5th	iPZ i Z i Z	09-37-33 39-33 40-02	B " "	
" 6th	iPZ i Z i Z	15-31-10 31-56 33-19	B " "	
" 8th	iPZ i Z	01-12-50 13-11	B "	
	ePZ i Z i Z i Z i E i N	13-11-08 12-02 17-55 18-40 21-08 21-13	B " " " M-S "	

DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
April 9th	iPZ iPE ePN i Z e E eSE iSSN eL ₁ N	21-41-17 41-17 41-22 42-08 42-44 45-43 46-25 48-20	B M-S " B M-S " " "	
" 10th	iPZ	23-54-14	B	M-S records obscured by movement.
" 13th				Long waves on M-S records at 02 h. 22 m.
	iPZ i Z i Z e N i N iSN iSE iSZ iL ₂ N	19-00-14 00-36 00-43 00-43 01-26 04-12 04-13 04-14 07-58	B " " M-S " " " B M-S	$\Delta = \text{about } 22.5^\circ$
	i Z i Z e N i E e N	20-09-53 14-10 14-42 20-26 20-26	B " M-S " "	
" 14th				Long waves on M-S records at 16 h. 01 m., 17 h. 18 m., and at 19 h. 51 m.
" 15th	iPZ eS?N e E	14-14-26 26-17 26-52	B M-S "	
" 17th	eLNE	00-02-00	M-S	
" 18th	iPZ iPP?E i Z iG?N iL ₁ ?E	21-41-24 42-45 43-11 49-20 51-10	B M-S B M-S "	$\Delta = \text{about } 35^\circ$
" 19th	iPZ i Z	15-30-57 31-10	B "	
	iPZ iPN ePE iSE eSN	18-04-39 04-43 04-48 08-30 08-31	B M-S " " "	$\Delta = \text{approx. } 21.5^\circ$
" 20th	e Z ePPZ iSKSN iSKSE iSKKS?N eSKKS?E eSN eN	03-46-14 47-11 53-30 53-33 54-01 54-01 54-52 04-02-14	B " M-S " " " " "	Deeper than normal Revised (in minute break)
" 22nd				Long waves commencing on M-S records at 19 h. 53 m. 50 s.

DATE.	PHASE.	h. U. T. m. s.	UNIT.	REMARKS.
April 23rd	iPZ iPNE iPPNE iSN iSZ iSE iSSN iSSZ iL ₂ N	11-22-39 22-39 23-03 28-15 28-17 28-19 30-48 30-48 36-01	B M-S " " B M-S " B M-S	$\Delta = 36^\circ$
" 25th	iPN iPE iPZ i E i N i N iSE iSN	14-14-55 14-56 14-56 15-26 15-28 20-28 24-44 24-50	M-S " B M-S " " " "	
	ePZ iPN iPPN iSN iSE	19-31-14 31-17 31-45 35-40 35-49	B M-S " " "	$\Delta = 25^\circ$
" 26th	iPZ iPNE i N i E isPE iSN iSZ iSE	10-16-15 16-15 16-33 16-34 17-10 20-00 20-01 20-05	B M-S " " " " B M-S	$^\circ = \text{about } 22^\circ$ Depth about 150 km.
" 30th	iPN iPZ i Z e N iSN iSZ i N i N	01-31-19 31-20 32-50 37-22 37-30 37-35 40-36 42-17	M-S B " M-S " B M-S "	Revised $\Delta = \text{about } 42^\circ$



O.A. Jones.
O.A. Jones

Officer in Charge.

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. 10

April, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	02	02	01	01	02	01	02	01
2	03	02	03	02	02	01	02	02
3	03	02	03	03	02	03	02	02
4	02	03	01	03	01	02	03	03
5	02	03	03	02	02	02	02	01
6	01	02	02	03				
7	03	03	05	05	02	03	03	03
8	04	06	06	05	04	05	04	05
9	03	03	03	02	03	02	03	02
10	02	01	02	03	02	01	01	02
11	01	02	03	02		02	02	01
12	02	01	02	02	01	01	01	02
13	01	02	01	02	02	02	01	02
14	01	02	01	01	01	02	01	01
15	01	02	02	01	02	02	01	02
16	01	01	02	02	01	02	01	02
17	02	03	02	04	02	02	03	02
18	02	01	02	01	02	02	03	02
19	01	02	01	01	01	01	01	01
20	01	01	01	01	00	01	01	00
21	02	01	03	03	01	02	03	03
22	03	03	02	03	03	02	03	02
23	03	03	02	03	02	03	02	03
24	03	02	02	02	02	03	03	02
25	01	02	02	01	02	01	02	01
26		02	01	01	02	01	01	01
27	00	01	01	01	01	01	01	00
28	01	01	01	02	01	01	01	01
29	02	02	01	02	01	02	02	01
30	02	03	03	04	02	02	03	04

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

Bulletin No. 140

$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
1949				
May 2nd	iPZ i Z i Z	06-43-06 44-08 44-41	B " "	Dilatation
" 3rd	iPZ i Z eSZ iSN	06-08-18 08-54 17-50 17-50	B " " M-S	Compression
	ePZ i Z e N	14-56-52 57-29 15-03-37	B " M-S	
" 6th	iPN iPZ iPE iPPN iPPE i Z iSN iSE iSZ i Z	12-50-35 50-36 50-38 50-52 50-54 52-50 54-24 54-30 54-32 54-53	M-S B M-S " " B M-S " B "	$\Delta = \text{about } 21^{\circ}$
" 9th	iPZ i Z i Z iSN i E iPSEZ	13-46-55 47-26 48-44 55-34 55-41 55-52	B " " M-S " M-S & B	$\Delta = \text{about } 65^{\circ}$
" 14th	iPZ i Z	21-25-23 25-43	B "	

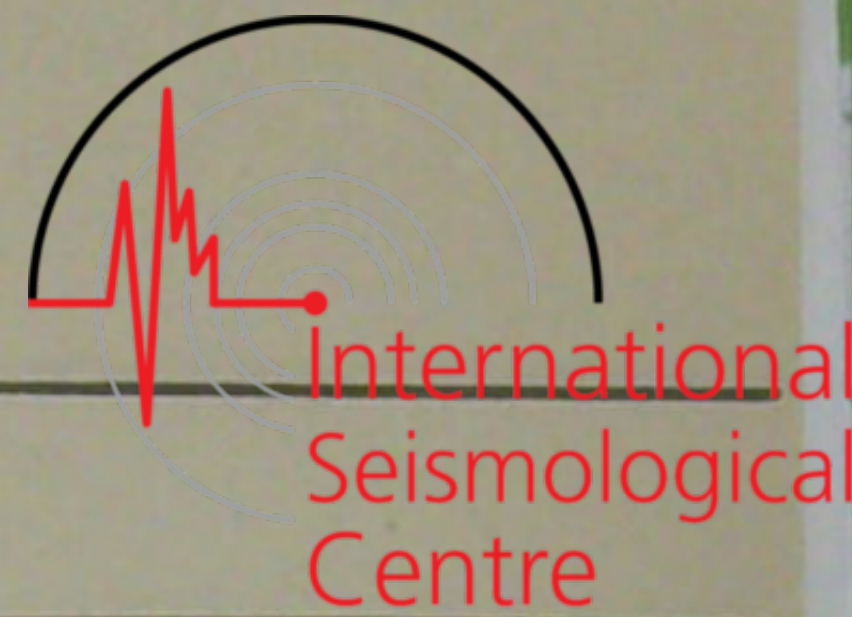


DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
May 15th	iPZ iPN i Z i Z iSZ iSE iSN iSSN	06-32-03 32-03 32-29 33-11 35-54 35-55 35-58 36-22	B M-S B " " M-S " "	$\Delta = \text{about } 21.5^\circ$
	iPZ i Z	11-18-52 20-21	B "	
" 16th	iPZ i Z i N iS?Z iS?N	04-39-15 40-52 45-00 49-45 49-58	B " M-S B M-S	
" 19th	iPZ i Z e N	05-12-15 13-16 23-33	B " M-S	
" 20th	iPZ i Z i Z	08-18-32 19-13 19-43	B " "	
" 21st	iPZ i Z i N	07-48-47 49-31 57-18	B " M-S	
	iPZ i Z iSNE eSKSN iSKSE	21-50-48 51-44 59-30 22-00-39 00-45	B " M-S " "	$\Delta = 65^\circ$
" 23rd	iPZ i Z i Z i Z iSN	04-22-57 23-34 24-39 25-51 27-52	B " " " M-S	Compression $\Delta = 29\frac{1}{2}^\circ$
	ePZ i Z i Z	05-29-00 29-29 30-21	B " "	
	iPZ i Z	22-55-44 56-26	B "	
" 25th	iPZ	08-37-09	B	
" 27th	iPZ i Z	08-58-49 59-08	B "	
" 28th	iPZ iPNE iSE iSN eLE	16-05-48 05-49 09-26 09-30 11-04	B M-S " " "	$\Delta = \text{about } 20^\circ$
" 31st	iPZ i Z iS?Z i N i E iSS?N iSS?Z i ?E i ?N i E i N	02-32-43 33-21 39-13 39-39 39-42 40-10 40-14 42-09 42-11 43-39 44-51	B " " M-S " " B M-S " " "	

O.A. Jones.
O.A. Jones
Officer in Charge.

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

11 (to nearest tenth of a millimetre) May, 1949.



MICROSEISM SUPPLEMENT No.

Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	02	03	03	02	02	04	05	03
2	02	03	02	03	03	02	02	02
3	02	03	02	02	03	02	03	02
4	02	01	01	02	02	02	02	01
5	01	01	02	01	01	02	01	01
6	01	02	02	03	01	02	02	02
7	02	02	03	02	02	03	03	02
8	04	03	02	02	02	03	03	03
9	03	04	04	05	03	02	03	04
10	02	01	02	01	02	02	01	02
11	01	01	01	02	01	01	01	02
12	02	02	03	02	01	02	02	04
13	01	01	01	02	01	01	01	01
14	02	01	01	03	02	01	01	02
15	02	02	02	02	01		02	01
16	03	01	02	01	03	02	02	02
17	02	02	02	03	03	02	02	04
18	03	03	02	03	02	04	03	03
19	03	02	02	03	02	02	02	03
20	03	03	03	05	03	03	03	02
21	04	05	03	04	02	03	04	03
22	04	05	05	06	03	05	04	05
23	08	05	05	04				04
24	02	02	03	03				
25	03	02	02	02	01	02	02	01
26	03	03	02	03	02	02	01	02
27	03	02	03	03	02	02	02	03
28	03	02	03	02	02	03	03	02
29	05	03	04	03	03	03	03	03
30	04	03	04	04	02	03	03	02
31	03	02	02	03	02	03	02	02

UNIVERSITY OF QUEENSLAND
SEISMOLOGICAL STATION
BRISBANE

Bulletin No. 141



$\phi = 27^{\circ} 28' 41''$ S., $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
1949				
June 4th	1PZ	04-00-18	B	
" 7th	1PZ	21-24-57	B	
	1 Z	25-43	"	
	1 Z	26-18	"	
" 13th	e E	19-27-30	M-S	
" 14th	1PZ	19-45-39	B	
	1 Z	47-15	"	
" 19th	1PZ	08-47-51	B	
	1 Z	48-19	"	
	1 N	52-28	M-S	
	1 E	52-43	"	
	1 E	53-50	"	
" 23rd	1PZ	22-31-13	B	
	1PNE	31-13	M-S	Dilatation from north-east.
	1 E	31-22	"	
	1 N	31-23	"	
	1sP?ZN	32-16	M-S & Revised	
			B	
	1 Z	32-53	B	
	1 Z	33-56	"	
	1SE	34-28	M-S	
	1SN	34-29	"	
	1SSE	34-42	"	
	1SSN	34-45	"	
" 24th	1PZ	22-47-36	B	
	1PE	47-36	M-S	$\Delta = 49^{\circ}$
	eSE	54-40	"	
	1SN	54-42	"	

DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
June 25th	iPZ i Z e Z eG?E	19-23-19 24-30 26-15 33-06	B " " M-S	
" 26th	iPZ iPPE iPPZ iPPN iSZ iSN iSE iSSE iSSN iSSZ	08-48-41 50-08 50-09 50-10 54-25 54-28 54-29 57-11 57-13 57-19	B M-S B M-S B M-S " " " B	$\Delta = 37^{\circ}$
" 27th	iPZ i Z iS?N	23-13-20 19-44 19-48	B " M-S	Records being changed
				O.A. Jones O.A. Jones Officer in Charge



MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)
(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. 12.

June, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	01	02	05	04	01	02	02	01
2	02	02	01	02	02	02	01	01
3	01	02	01	02	02	01	01	01
4	02	05	03	03	01	02	03	02
5	03	02	03	04	03	02	03	03
6	02	02	02	03	02	02	03	02
7	03	02	02	02	02	02	01	02
8	02	01	02	02	02	01	02	01
9	02	01	01	02	02	01	02	03
10	02	01			01	03	03	02
11					02	01	01	01
12					01	02	01	01
13					02	01	01	01
14	02	02			01	01	01	02
15		02	01	02	01	02	01	02
16	02	02	03	03	01	02	03	02
17	05	12	12	13	03	04	05	05
18	09	08	04	03	07	06	04	03
19	03	03	04	03	03	02	02	01
20	03	03	04	05	03	03	05	05
21	04	05	07	04	05	04	07	05
22	03	03	02	03	03	02	04	03
23	03	03	04	03	02	03	03	02
24	02	03	02	03	02	02	03	02
25	02	05	04	03	02	04	03	03
26	03	04	04	03	04	05	04	03
27	03	02	02	02	03	02	02	02
28	01	02	02	02	02	02	02	03
29	02	02	03	02	02	03	03	03
30	01	02	02	01	01	02	02	03

UNIVERSITY OF QUEENSLAND
SEISMOLOGICAL STATION
BRISBANE

Bulletin No. 142

$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.



INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
1949 July 2nd	iPZ iPNE iSN iSE i Z i E iSSN	11-33-03 33-03 37-24 37-25 37-34 37-36 38-31	B M-S " " B M-S "	Compression from north-west $\Delta = 25^{\circ}$
	iPZ iPN iPE iPPZ iSE iSSE iL ₁ E	20-05-20 05-21 05-23 07-10 11-49 15-16 18-15	B M-S " B M-S " "	Dilatation from north-east $\Delta = 45^{\circ}$
" 3rd	ePZ i Z iS?E iS?N	07-40-58 41-22 45-30 45-35	B " M-S "	
" 4th	iPZ iPE i Z iSNE eL ₁ E eL ₁ N	13-52-23 52-24 53-24 56-04 57-27 57-32	B M-S B M-S " "	$\Delta = 21^{\circ}$
" 6th	iPZ iPNE iSE iSN iSZ	19-49-31 49-31 53-10 53-11 53-12	B M-S " " B	Dilatation from north-west $\Delta = 20^{\circ}$

DATE	PHASE	U. T. h. m. s.	UNIT.	REMARKS.
July 10th	ePZ iPP?Z iSKSN iSKKSN iSN iPSN eSSN e N	04-07-30 11-39 18-10 04-18-16 19-07 20-33 25-19 25-56	B " M-S " " " "	$\Delta = 99^{\circ}$
" 11th	iPN iPZ i N i Z	16-21-18 21-19 35-06 35-07	M-S B M-S B	
" 15th	i E i N	09-24-37 24-39	M-S "	Probably mechanical
" 18th	ePZ iPZ i Z eSE iSN iPZ iPZ i Z	00-40-25 04-49-40 51-18 55-45 55-46 08-40-53 09-32-34 38-02	B B " M-S " B "	$\Delta = 40^{\circ}$
" 19th	iPZ e N e E	15-04-56 11-28 11-34	B M-S "	
" 20th	ePZ iPZ eLN	20-59-44 22-29-09 46-30	B B M-S	
" 23rd	iPZ i Z iPZ iPN iSNE iPZ	05-38-15 39-50 10-30-38 30-38 33-53 19-41-23	B " B M-S " B	$\Delta = 17\frac{1}{2}^{\circ}$
" 27th	iPZ i Z e E e E i E i N iPE iPZ ePN iPPE iPPZ iSNE i Z iSSZ iSSN iL ₁ E	11-07-57 09-10 12-32 17-00 18-05 18-50 15-17-16 17-18 17-18 18-05 18-06 21-52 22-40 22-52 22-55 24-50	B " M-S " " " M-S B M-S " B M-S B M-S "	$\Delta = 27^{\circ}$
" 29th	iPZ	06-58-23	B	O.A. Jones Officer in Charge.

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)
(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. 13

July, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	01	02	03	02	02	03	02	02
2	01	02	02	02	02	02	03	02
3	02	02	02	03	01	02	03	03
4	03	03	02	02	03	04	03	03
5	01	02	02	02	02	03	03	02
6	02	03	02	03	03	03	04	03
7	03	04	04	03	07	06	05	04
8	03	03	03	02	04	04	04	03
9	02	02	02	02				
10	03	03	02	02	03	04	04	03
11	03	02	03	02	02	02	01	02
12	02	01	02	02	01	01	02	01
13	02	02	02	02	01	01	01	01
14	02	01	01	02	01	02	01	01
15	01	02	01	01	01	01	02	02
16	02	03	02	02	02	02	03	02
17	02	03	03	03	02	02	02	03
18	03	02	03	03	02	03	03	02
19	04	03	03	02	02	03	02	02
20	02	03	03	03	03	02	02	02
21	02	03	03	03	02	03	03	02
22	03	03	03	03	03	02	02	02
23	03	04	03	03	02	02	02	01
24	03	04	02	02	01	01	02	01
25	02	03	03	04	02	02	03	02
26	08	07	06	07	03	04	03	03
27	05	04	04	03	03	02	02	01
28	03	03	02	02	02	01	01	01
29	02	02	02	01	02	02	01	01
30	02	01	01	01	01	01	01	01
31	01	02	02	01	02	01	02	01

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

Bulletin No. 143



$\phi = 27^{\circ} 28' 41''$ S., $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
<u>1949</u>				
August 4th	iPZ i Z iSZ iSN	07-57-03 57-12 08-01-02 01-02	B " " M-S	Dilatation $\Delta = 22^{\circ}$
" 5th	iPZ	06-56-54	B	
" 6th	iPZ iPNE ePPN i E i Z i Z i E i N eSE iSN iSSZ eL ₁ Z iL ₁ N	00-43-41 43-41 44-36 44-50 44-52 45-12 45-16 45-24 48-34 48-39 50-18 51-26 51-28	B M-S " " B " M-S " " " B " M-S	Dilatation $\Delta = 30^{\circ}$
	iPZ	15-59-17	B	Compression
" 8th	e E i N	04-18-12 18-13	M-S "	
" 9th	iPZ	15-03-58	B	
" 12th	iPZ iPE iPN i N iSN iSZ	23-20-00 20-01 20-02 20-24 23-26 23-31	B M-S " " " "	Dilatation $\Delta = 19^{\circ}$

DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
August 13th	ePN iPZ i E i Z i N iSE iSN iSSE	18-30-46 30-47 31-46 31-50 32-23 35-30 35-31 37-01	M-S B M-S B M-S " " "	Dilatation $\Delta = 28^\circ$
" 17th	iPZ	18-45-18	B	Dilatation
" 22nd	iPZ eS?Z iSS?Z iL ₁ ?Z e Z	04-21-21 05-15-18 19-29 28-08 52-12	B B " " "	Compression N-S Milne-Shaw not working; E-W Milne-Shaw record complicated by drift.
" 23rd	e N i E i E	20-49-19 49-20 50-30	M-S " "	
" 24th	iPZ	05-31-40	B	Dilatation
" 25th	iPZ iSE eSN eL ₁ Z	23-31-57 36-41 36-41 39-23	B M-S " B	$\Delta = 28^\circ$
" 30th	iPZ	07-26-37	B	

O.A. Jones

O.A. Jones

Officer in Charge

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. ¹⁴

August, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	02	03	02	02	03	03	03	02
2	03	02	02	02	03	02	03	03
3	03	02	01	02	03	03	02	02
4	02	02	02	02	02	02	01	02
5	02	03	02	02	03	03	02	03
6	03	03	03	03	03	04	03	03
7	04	04	03	03	04	04	04	03
8	03	03	02	02	02	03	03	02
9	02	03	04	03	03	03	02	02
10	03	03	03	03	03	02	02	03
11	05	03	03	03	03	05	03	02
12	03	02	02	01	02	03	02	01
13	02	01	01	01	02	01	01	01
14	01	02	01	01	01	01	01	01
15	01	01	01	01	01	02	01	01
16	01	01	01	01	01	01	02	01
17	02	01	01	01	01	02	01	02
18	02	01	01	01	01	01	01	02
19	02	03	02	02	02	03	03	04
20	08	13	08	06	11	13	09	08
21	05	04	03	03	06	04	03	03
22					02	03	03	03
23	03	03	04	03	03	02	02	03
24	03	02	02	02	02	02	02	01
25	02	01	02	02	02	01	01	01
26	03	04	04	03	03	02	02	01
27	04	04	03	04	03	03	02	02
28	04	03	04	03	02	02	03	02
29	03	02	02	03	02	02	01	01
30	02	02	01	01	02	03	03	02
31	02	03	02	02	03	03	02	02

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

Bulletin No



International
Seismological
Centre

$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

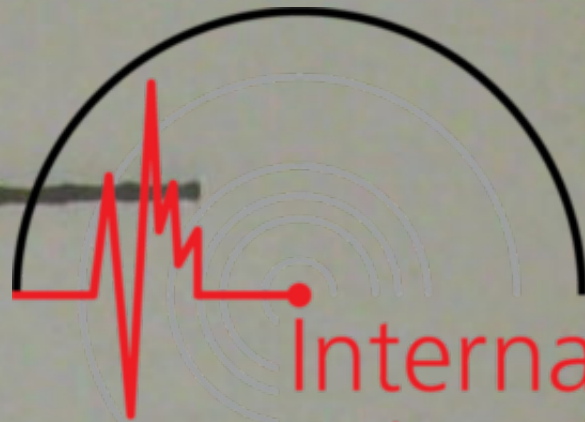
The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
<u>1949</u>				
Sept. 5th	iPZ	03-03-40	B	
	iPZ	03-10-50	B	
	iPZ	03-27-36	B	
" 7th	iPZ	11-04-09	B	
	iPZ	13-37-45	B	
	iPE	37-45	M-S	
	i N	41-05	"	
" 9th	iPZ	08-09-50	B	Dilatation from north $\Delta = 18^{\circ}$
	iPN	09-51	M-S	
	i Z	10-10	B	
	i Z	10-25	"	
	iSE	13-06	M-S	
	iSSN	13-20	"	
	iSSE	13-22	"	
	iPZ	20-33-02	B	
" 12th	iPZ	09-21-00	B	Dilatation $\Delta = 18^{\circ}$ Depth about 100 km. Revised.
	iPNE	21-00	M-S	
	ipPZ	21-10	B	
	ipPNE	21-11	M-S	
	i Z	21-40	B	
	iSN	24-08	M-S	
	iSE	24-09	"	
	i Z	24-27	B	
	iPZ	10-48-24	B	
	i Z	48-34	"	
	i Z	52-55	"	

DATE.	PHASE.	h. U. T. m. s.	UNIT.	REMARKS.
Sept. 13th	ePZ	06-58-52	B	
" 14th	iPZ i N	16-45-49 51-24	B "	
	iPNE iPZ iPPZ iSE iSN iSZ iSS?N i Z iL ₂ N iL ₂ E	19-57-40 57-40 59-09 03-27 03-29 03-31 06-09 06-23 12-04 12-17	M-S B " M-S " B M-S B M-S "	Dilatation from north-west $\Delta = 37^\circ$
" 16th	iPZ iPNE iPPZ iPPE iSN	19-18-32 18-33 20-01 20-02 24-26	B M-S B M-S "	$\Delta = 37.5^\circ$
" 17th	iPZ iPN i Z iSN eSE iL ₂ Z	15-26-59 26-59 27-33 30-53 30-53 33-41	B M-S B M-S " B	$\Delta = 22^\circ$
	iPZ	22-54-48	B	Dilatation
" 20th	iPZ iPNE iPPNE iSZ iSE iSSN iL ₁ E	12-00-53 00-53 01-27 05-23 05-24 06-21 07-38	B M-S " B M-S " "	Compression from north-east $\Delta = 26^\circ$
" 21st	e Z e E	13-15-38 25-20	B M-S	
	ePZ ePE ePPE ePPZ eSE eL ₂ E	18-26-20 26-20 27-38 27-39 31-48 35-31	B M-S " B M-S "	
" 24th	iPZ	02-59-14	B	
	iPN iPZ iPE iPPN iSN iSE iSZ	04-22-26 22-27 22-31 22-47 26-21 26-23 26-25	M-S B M-S " " " B	Dilatation from from north-west $\Delta = 22^\circ$
	iPZ i Z i Z	07-32-17 32-43 34-42	B " "	Compression
	iPZ	09-34-31	B	Compression

DATE.	PHASE.	h. U. T. m. s.	UNIT.	REMARKS.
Sept. 25th	i N	02-53-30	B	
	iPN	15-19-48	M-S	Dilatation
	ePE	19-49	"	
	iPZ	19-49	B	$\Delta = 22^\circ$
	i Z	15-20-10	B	
	iPPN	20-18	M-S	
	iSE	23-43	"	
	iSN	23-46	"	
	iSSE	24-13	"	
	iSSN	24-16	"	
	iPZ	16-02-20	B	
" 26th	iPZ	03-10-00	B	Compression
	iPN	10-00	M-S	
	iSN	14-06	"	
	ePZ	07-09-02	B	Compression
	i Z	10-05	"	
	iSE	12-53	M-S	
	iPZ	13-08-28	B	Compression
	iPZ	22-36-46	B	Compression
	iPN	36-46	M-S	
	iSN	40-39	"	
	iSE	40-42	"	
" 27th	iPZ	12-00-57	B	
	i Z	02-03	"	
	i Z	07-45	"	
	eS?N	08-16	M-S	
	i Z	11-26	B	
	eL?E	11-50	M-S	
	eL?N	11-56	"	
	ePZ	15-44-25	B	
	ePPZ	48-51	"	
	iSKSE	56-00	M-S	
	iSKKSE	15-56-10	M-S	
	e E	16-03-00	"	
	iPZ	17-13-00	B	
	iPZ	17-18-24	B	Compression
	iPZ	17-59-27	B	Dilatation
	iPZ	21-01-23	B	Dilatation
	iPZ	21-03-04	B	Compression
" 28th	iPZ	15-12-57	B	Dilatation
	i Z	13-06	"	
" 30th	ePZ	04-04-44	B	
	e N	09-06	M-S	
	i N	10-45	"	
	iPZ	08-54-30	B	Compression
	iPN	54-31	M-S	$\Delta = 22^\circ$
	i N	55-19	"	
	iSN	58-27	"	
	iSZ	58-28	B	
	iPNE	15-19-53	M-S	Compression
	iPZ	19-53	B	from north-east
	iPPNE	20-01	M-S	$\Delta = 18.5^\circ$
	iSN	23-12	"	
	iSZ	23-13	B	
	eSE	23-15	M-S	

DATE.	PHASE.	h. U. T. m. s.	UNIT.	REMARKS.
Sept. 30th (Cont'd)	iPZ	16-22-20	B	
	ePZ	18-22-39	B	
	iS?E	26-21	M-S	
	i Z	22-12-14	B	
	i Z	15-57	"	
O.A. Jones. O.A. Jones Officer in Charge				



International
Seismological
Centre

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)
(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No.

15

September, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	01	02	02	02	02	02	01	02
2	02	01	01	01	01	02	02	01
3	02	02	03	02	01	02	02	02
4	02	02	03	02	02	02	01	02
5	02	01	02	02	02	02	01	01
6	02	03	02	02	01	02	02	01
7	01	02	02	01	01	02	01	02
8	03	01	01	02	03	02	03	02
9	02	03	03	04	01	02	01	01
10	03	02	04	04	01	03	02	01
11	03	04	05	04	02	02	03	03
12	03	04	03	03	02	02	02	03
13	02	02	03	02	01	02	03	02
14	01	02	02	02	01	03	02	02
15	02	02	01	02	02	03	03	02
16	02	01	01	03	03	03	03	02
17	03	04	03	03	02	03	03	02
18	02	02	01	02	02	03	02	02
19	02	01	03	03	01	02	03	03
20	02	01	02	01	02	03	02	02
21	02	01	01	02	01	01	02	01
22	01	02	01	01	01	01	01	01
23	01	02	01	01	01	02	01	01
24	01	02	02	01	01	01	01	01
25	02	03	03	02	01	01	02	01
26	02	02	03	02	02	02	03	03
27	02	01	02	02	02	02	02	03
28	03	02	02	01	02	02	03	02
29					02	02	02	03
30	02	02	01	02	02	03	02	03

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

Bulletin No. 145



$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
<u>1949</u>				
Oct. 3rd	iPZ	12-49-36	B	Compression
	i N	49-45	M-S	
	i Z	49-52	B	
	i Z	51-52	"	
	iSNE	53-48	M-S	
	iPZ	16-54-43	B	Bilatation
" 4th	ePZ	10-40-23	B	
" 5th	iPZ	19-12-00	B	$\Delta = 22\frac{1}{2}^{\circ}$ Compression from north-west
	iPN	12-01	M-S	
	ePE	12-02	"	
	iPPN	12-21	"	
	iPPZ	12-21	B	
	iPPPZ	12-29	"	
	iPPPN	12-29	M-S	
	iSN	15-58	"	
	eSZ	15-59	B	
	iSE	16-00	M-S	
	iPcPE	16-30	"	
	iSSNE	16-36	"	
	iL ₂ E	20-00	"	
	eL ₂ Z	20-00	B	
" 6th	iPZ	12-21-55	B	Compression
" 7th	iPZ	08-32-04	B	Dilatation
	ePPNE	32-16	M-S	$\Delta = 27.5^{\circ}$
	iSE	35-44	"	
	iSN	35-47	"	
	iPNE	12-14-29	M-S	Compression from north-west
	iPZ	14-29	B	
	i Z	14-43	"	
	iPPE	12-16-41	M-S	
	iSN	24-28	"	
	iSE	24-32	"	
	iSKSN	25-15	"	
	eL ₂ N	41-55	"	
				$\Delta = 79^{\circ}$ Corrected.

DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
Oct. 9th	iPZ	19-43-17	B	Compression
" 11th	ePNE ePZ i E i Z eSE	11-42-20 42-20 42-38 42-40 46-40	M-S B M-S B M-S	$\Delta = 25^\circ$ Corrected
" 19th	iPZ	08-04-00	B	
	iPZ	13-45-35	B	Compression
	ePZ ePNE	14-22-20 22-21	B M-S	
	iPZ iPN i N iSNE i Z iLZ	21-05-03 05-06 06-10 09-14 10-04 12-03	B M-S " " B "	Compression $\Delta = 23.5^\circ$
" 20th	iPZ	08-38-11	B	
	iPZ	11-33-39	B	Compression
	iPZ iPN iSN eSE	11-47-02 47-06 11-51-05 51-08	B M-S M-S "	Compression $\Delta = 23^\circ$
	iPN iPZ ePE ipPN iSN iSE iSZ iSSN i Z iL ₁ N	12-49-58 49-59 50-00 50-20 53-57 53-59 53-59 54-29 54-38 56-16	M-S B M-S " " B M-S B M-S	Compression $\Delta = 22^\circ$ Depth about 60 km.
	iPZ i Z	18-17-52 21-57	B "	Dilatation
" 21st	iPZ	18-20-33	B	
	iPZ	20-07-20	B	
	iPZ iPN ipPN i Z iSZ iSNE	21-39-11 39-11 39-26 42-31 43-13 43-15	B M-S " B " M-S	Dilatation $\Delta = 23^\circ$ Depth 70 km.
" 22nd	iPZ	01-14-33	B	Dilatation. Corrected.
	iPZ	05-07-57	B	
	iPZ	21-16-35	B	Compression



DATE	PHASE	h. m. s.	U. T.	UNIT.	REMARKS.
Oct. 26th	iPZ	07-55-40	B		
	iPZ	09-18-05	B		Dilatation
	iPN	18-05	M-S		
	ePE	18-13	"		
	iPPN	18-26	"		
	i Z	18-40	B		$\Delta = 22.5^\circ$
	iSN	22-05	M-S		
	iSE	22-09	"		
	iSZ	22-11	B		
	iSSE	22-34	M-S		
	iLR ^E	24-13	"		
" 27th	iPZ	10-07-27	B		Compression
	iPZ	14-07-14	B		
" 28th	iPZ	16-31-08	B		
	iPN	31-15	M-S		Compression
	ePE	31-19	"		$\Delta = 22.5^\circ$
	ipPN	31-36	"		
	i Z	31-40	B		
	eSE	35-13	M-S		
	iSN	35-15	"		
	iSSE	35-40	"		
	iPZ	18-53-05	B		Dilatation
	i Z	54-23	"		
	iPZ	22-24-30	B		
	i Z	25-15	"		
	e E	29-28	M-S		
	e N	29-31	"		
	i Z	29-35	B		
	i Z	32-18	"		
	i N	33-56	M-S		
	e E	33-58	"		
" 29th	iPZ	06-36-16	B		
	iPN	36-16	M-S		$\Delta = 20^\circ$
	ePE	36-19	"		
	iSE	39-54	"		
	iSN	39-55	"		
	eLR ^E	42-05	"		
" 30th	iPNE	05-37-17	M-S		Dilatation
	iPZ	37-17	B		
	i Z	37-31	"		$\Delta = 18^\circ$
	iSN	40-28	M-S		
	eSE	40-34	"		
	iPE	23-59-28	M-S		
	iPZ	59-28	B		
	iSZ	24-08-34	"		
" 31st	iPZ	02-54-35	B		Compression
	iPZ	18-00-32	B		Compression
	iPE	00-33	M-S		
	ipPNE	00-54	"		
	i Z	01-27	B		$^\circ\Delta = 23^\circ$
	iSE	04-32	M-S		Depth 100 km.
	iSN	04-36	"		
	i E	04-54	"		
	i N	04-57	"		



O.A. Jones
O.A. Jones

Officer in Charge

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)
(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. 16

October, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	02	02	01	02	02	01	01	01
2	01	02	02	01				02
3	03	02	02	02	02	03	02	02
4	02	03	03	02	02	02	01	02
5	03	03	02	03	02	02	01	02
6	02	04	03	03	02	02	03	03
7	02	03	02	02	02	01	02	01
8	03	02	02	02	02	01	02	02
9	02	02	03	03	02	02	01	02
10	02	03	02	02	01	02	02	01
11	02	02	02	02	01	02	02	03
12	02	02	03	03	01	01	02	01
13	02	01	01	02	01	02	02	01
14	01	01	02	02	01	02	03	02
15	02	02	01	03	03	02	02	03
16	02	04	03	04		03	05	05
17	03	02	02	03	02	03	02	02
18	01	01	01	01	01	01	01	01
19	01	01	00	00	01	00	00	00
20	01	01	00	01	01	00	00	00
21	02	02	02	01	01	01	00	01
22	01	02	02	02	01	01	01	01
23	02	03	02	03	02	01	01	02
24	02	02	03	02	01	01	01	00
25					01	02	01	01
26	02	01	01	01	01	01	01	00
27	01	02	01	01	01	01	00	01
28	01	01	01	02	01	01	01	00
29	02	02	02	02	00	01	01	01
30	02	02	02	01	01	02	02	01
31	02	02	01	01	02	01	01	02

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

Bulletin No. 146



$\phi = 27^{\circ} 28' 41''$ S., $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

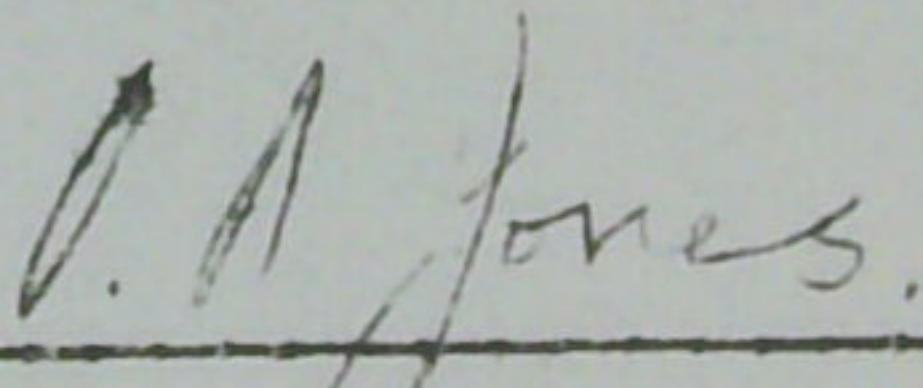
INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

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DATE.	PHASE.	h. U.T. m. s.	UNIT.	REMARKS.
<u>1949</u>				
Nov. 1st	iPN iPZ i N i N iSN isS?N	07-37-42 37-42 37-56 38-11 41-41 42-21	M-S B M-S " " "	Compression $\Delta = 22^{\circ}$ Depth 100 km.?
" 2nd	ePN iPZ iPPN iSN i N i N i Z iLRN eLRZ	02-38-41 38-42 39-30 43-37 44-29 45-25 45-27 47-23 47-25	M-S B M-S " " " B M-S B	Compression $\Delta = 30^{\circ}$
	iPZ	03-32-44	B	
" 3rd	iPZ iSE iSN	00-12-06 16-12 16-13	B M-S "	Compression $\Delta = 23^{\circ}$
	iPN iPZ i Z	01-24-07 24-07 24-47	M-S B "	Compression
" 5th	iPZ	13-08-33	B	
" 7th	ePZ iPE iPN i Z iSN eSZ iSE i N i Z i Z eLRZ iLRN	06-03-57 03-57 03-58 04-47 07-19 07-21 07-24 07-34 07-36 07-49 09-09 09-09	B M-S " B M-S B M-S " B " B M-S	
	iPZ I Z	12-53-05 55-37	B B	

DATE.	PHASE.	U. T. h. m. s.	UNIT.	REMARKS.
Nov. 15th	iPZ	12-25-07	B	Compression
" 16th	iPZ	14-47-07	B	Compression
" 18th	iPZ iPNE isPN isPE isNE isZ	08-02-30 02-30 03-06 03-08 05-54 06-00	B M-S " " " B	$\Delta = 18.5^\circ$ Depth 100 km. Dilatation
" 22nd	iPE iPZ ePN ePPN ePPPN isZ iSSN iNE i Z i Z iLRZ	00-57-02 57-03 57-07 57-36 57-50 01-01-28 02-30 02-50 02-51 03-49 06-00	M-S B M-S " " B M-S " B " B	$\Delta = 25^\circ$ Corrected
	iPZ	04-25-18	B	
	iPZ	06-36-21	B	Compression
" 24th	iPZ eSE isN	21-20-28 30-33 30-35	B M-S "	
" 25th	iPZ	05-49-41	B	Dilatation
	ePZ	14-29-37	B	
" 27th	iPE iPN iPZ iPPE i Z isZ iSE isN eLR ^E eLRZ	08-48-45 48-46 48-47 50-00 51-38 53-57 53-57 53-58 57-45 58-24	M-S " B M-S B " M-S " " B	Compression $\Delta = 22^\circ$
 <u>O.A. Jones</u> <u>Officer in Charge.</u>				



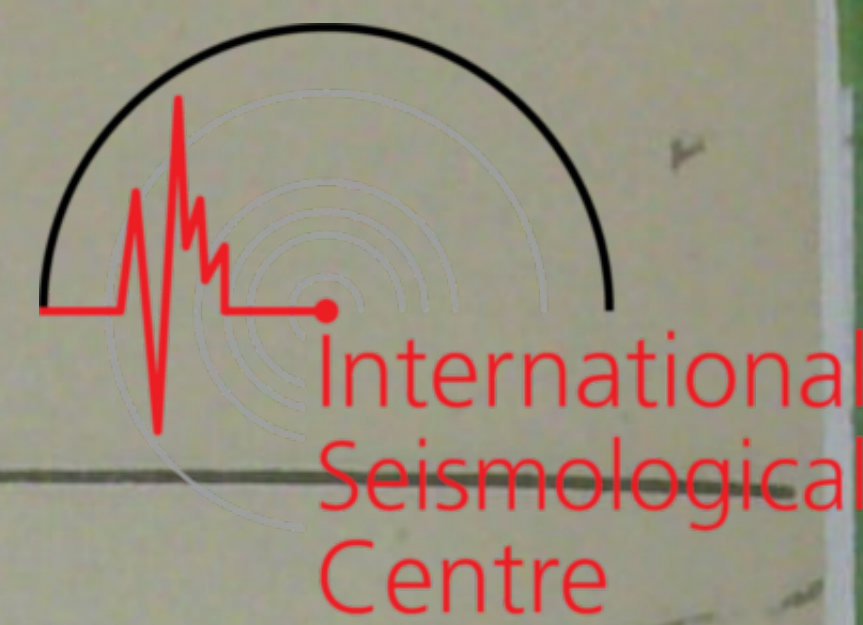
MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

(to nearest tenth of a millimetre)

17

November, 1949.

MICROSEISM SUPPLEMENT No.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	18
1	01	02	01	01				
2	02	01	01	01	01	01	01	01
3	02	01	02	01	02	02	01	01
4	01	01	02	02	01	01	01	02
5	02	02	03	03	02	03	02	03
6	02	03	02	02	01	02	02	01
7	02	01	01	01	01	01	01	01
8	01	01	00	01	01	01	00	00
9	01	01	01	00	00	01	00	00
10	01	01	01	01	01	01	01	01
11	01	01	01	01	01	01	01	00
12	01	01	02	02	01	01	01	02
13								
14	03	04	04	03	03	03	02	03
15	03	02	02	02	03	02	02	01
16	01	01	01	01	01	01	01	00
17	01	01	02	01	00	01	00	01
18	03	02	03	02	01	01	01	02
19	03	02	02	03	02	01	01	01
20	02	01	02	02	01	01	01	02
21	02	02	03	02	02	02	02	03
22	02	03	03	03	01	01	01	01
23	02	02	01	02	01	01	01	01
24	02	02	01	01	01	01	01	01
25	01	01	01	00	01	00	00	00
26								
27	01	01	01	01	00	00	00	00
28	01	01	01	02	02	01	00	01
29	02	03	02	02	01	02	02	01
30	01	01	02	01	02	01	01	01

UNIVERSITY OF QUEENSLAND
SEISMOLOGICAL STATION
BRISBANE

147
Bulletin No.



$\phi = 27^{\circ} 28' 41''$ S. $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m.

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	RATE OF RECORDING.	COMPONENT.	FREE PERIOD.	DAMPING.	STATIC MAGNIFICATION.
Milne-Shaw No. 58 (Modified) ..	16 m.m. per minute	N.—S.	12 sec.	20 : 1	250
Milne-Shaw No. 60 (Modified) ..	16 m.m. per minute	E.—W.	12 sec.	20 : 1	
Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
Benioff No. 11	15 m.m. per minute	E.—W.	1.5 sec.		
Benioff No. 13	15 m.m. per minute	Vertical	1.5 sec.		

Time is correct to the nearest second and is checked daily against radio-signals giving Eastern Australian Standard Time.

The station is maintained and operated by the University of Queensland assisted by grants from the Commonwealth Council for Scientific and Industrial Research.

DATE.	PHASE.	h. U.T. s. m.	UNIT.	REMARKS.
1949 Dec. 2nd	iPZ	02-47-47	B	
" 11th	iPZ	11-37-37	B	$\Delta = 18^{\circ}$
	iPE	37-39	M-S	
	iPN	37-40	"	
	iPPE	37-49	"	
	iPPZ	37-51	B	
	iSE	40-54	M-S	
	iSZ	40-56	B	
	iSN	41-00	M-S	
	iSSN	41-12	"	
	iSSZ	41-17	B	
" 16th	iE	14-13-14	M-S	
"	eLNE	20-00	"	
" 17th	ePE	07-06-26	M-S	$\Delta = 92^{\circ}$
	ePN	06-30	"	
	ePZ	06-30	B	
	iZ	07-22	"	
	iZ	07-53	"	
	iSKSE	16-59	S	
	iSKSE	17-01	M-S	
	iPSN	18-06	"	
	eLZ	37-28	B	
	iPZ	15-20-55	B	$\Delta = 92^{\circ}$
	iPN	20-58	M-S	
	ePE	21-13	S	
	ePE	21-13	M-S	
	iZ	21-40	B	
	iSKSN	31-37	M-S	
	iSKSE	31-45	M-S & S	
	eLZ	49-51	B	
" 18th	iPNE	05-44-02	M-S & S	$\Delta = 23^{\circ}$
	iPZ	44-02	B	
	iSPNEZ	44-40	M-S & B	
	iZ	05-45-02	B	
	iN	45-05	M-S	
	iZ	47-40	B	
	iSNE	48-06	M-S	
	iNE	49-16	"	

DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
Dec. 19th	iPZ	09	44	34	B	
	iPZ	12	00	05	B	
" 20th	iPZ	04	21	29	B	
" 22nd	iPZ	09	14	11	B	
" 23rd	iPZ	07	05	56	B	
	iZ		06	08	B	
" 24th	iPZ	22	05	42	B	
	ePE		05	43	B	
" 25th	iPZ	13	01	43	B	
	iPZ	15	51	52	B	
	iZ		52	03	B	
" 26th	iPZ	06	29	45	B	$\Delta = 29^\circ$
	ePE		29	45	M-S	
	iPN		29	52	"	
	iSN		34	33	"	
	eLZ		36	49	B	
" 28th	ePN	00	10	24	M-S	$\Delta = 86.5^\circ$
	iPZ		10	26	B	
	iPPN		14	11	M-S	
	iSN		21	11	M-S	
	iLQE	00	34	54	M-S	
	iLRE		40	14	M-S	
" 29th	iPNZ	03	13	18	M-S & B	Revised
	iSN		20	53	M-S	
	eSZ		20	57	B	
	iSSZ		24	14	B	
	eLRZ		28	40	B	
	iPZ	04	37	57	B	
	ePZ	06	32	20	B	
	iPZ	07	58	51	B	
	ePZ	10	27	14	B	
	iZ		27	21	"	
	iZ		27	35	"	
	iZ		27	59	"	
	iZ		28	11	"	
	ePZ	11	08	06	B	
	ePZ	11	11	10	B	
	ePZ	16	48	25	B	
	ePE		48	25	M-S	
	ipPE		49	10	M-S	
	iPPE		49	50	"	
	eN		49	52	"	
	eN		53	31	"	
	eN		54	31	"	
	iLRE		56	40	"	
	iPZ	22	13	59	B	
	iZ		15	47	B	

DATE.	PHASE.	U. T. h. m. s.	UNIT	REMARKS.
Dec. 30th	iPE	01-46-12	M-S	$\Delta = 24^{\circ}$
	ePN	46-12	"	
	iPZ	46-13	B	
	iZ	48-16	"	
	iSNZ	50-27	M-S & B	
	iSE	50-30	M-S	
	ePZ	02-05-07	B	Possibly mechanical
	ePZ	06-01-11	B	Possibly mechanical
	iPZ	07-30-35	B	
	ePZ	10-20-04	B	
	iPZ	15-52-00	B	



International
Seismological
Centre

O.A. Jones
O.A. Jones

Officer in Charge.

MICROSEISM AMPLITUDES (Milne-Shaw Seismographs)

(to nearest tenth of a millimetre)

MICROSEISM SUPPLEMENT No. 18

December, 1949.



Hour G.M.T.	N-S Component				E-W Component			
	0	6	12	18	0	6	12	
1	02	01	01	00	01	01	02	01
2	01	01	01	01	01	01	01	01
3	01	01	02	02	01	02	02	02
4	02	02	03	02	02	01	02	03
5	04	03	03	02	05	03	03	02
6	02	02	02	01	01	02	01	00
7	01	02	02	03	01	02	02	02
8	02	02	01	01	02	02	01	01
9	01	01	02	02	00	01	01	01
10	01	01	02	01	01	02	02	01
11	00	01	02	01	01	01	02	02
12	01	01	01	01	01	02	01	01
13	01	01	00	01	00	01	00	00
14	01	01	02	02	00	01	01	02
15	03	03	03	02	02	03	02	02
16	02	01	01	01	02	02	01	02
17	01	01	02	02	01	02	02	03
18	04	03	03	03	03	02	04	04
19	02	02	01	02	03	03	02	03
20	02	02	03	02	02	03	03	02
21	03	03	02	02	03	02	02	02
22	02	02	02	02	02	02	01	02
23	03	03	03	02	03	03	02	02
24	02	02	01	02	02	02	02	02
25	02	02	02	02	02	03	02	01
26	02	01	01	02	01	01	02	01
27	01	01	01	01	01	02	01	01
28	02	01	01	01	01	01	02	01
29	01	02	01	02	00	01	01	02
30	00	01	02	01	01	01	01	01
31	03	02	03	02	03	03	02	02