

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

BRISBANE

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

Foundation: Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT	COMPONENT	FREE PERIOD	DAMPING	MAGNIFICATION
Milne Shaw No. 58	N.—S.	12 sec.	20 : 1	250
Milne Shaw No. 60	E.—W.	12 sec.	20 : 1	250

The Station is maintained and operated by the University of Queensland assisted by a grant from the funds of the Australian Council for Scientific and Industrial Research.

DATE	PHASE	G. M. T. h. m. s.	REMARKS	
1937				
Sept. 1	iPE eSE iSSE ME	8 - 44.1 48.3 49.1 55.8		
3	iPN ePE iPPN iSN eSE LN LE	19 - 0.4 0.4 3.4 10.6 10.6 22.4 22.6	E-W component weak	
8	iPN iPPN iSKSN eSSN	0 - 53.3 57.2 1 - 03.7 11.4		
15	iPN iSN	12 - 31.8 35.6		
17	iN eE iN iE iN LN LE ME MN	9 - 54.7 55.3 59.6 10 - 01.9 5.9 23.8 24.0 30.0 31.4	Distant earthquake. Phases not identified.	
21	iPN iPPN iSN eSSN iS _o SN	9 - 47.2 48.8 53.1 55.7 57.6		
22	iN eLN	9 - 29.7 31.1		

DATE	PHASE	G. M. T. h. m. s.	REMARKS
Sept. 23	iPN ePE iSNE	13 - 10.6 10.7 14.5	All waves very large amplitudes. Largest shock yet recorded. $\Delta = 21.5^\circ$. Direction from Brisbane N. 10° E.
25	eE ME	17 - 59.1 18 - 0.2	
27	iPNE ePPE iSNE iSSN ?{SS } E {ScS} LE ME MN	9 - 3.4 5.1 10.0 13.0 13.4 14.1 23.6 23.7	Damage and loss of life in Java.
30	iP'NE iPPNE ePPP iPPP? iN? eSKSE eSKSN ePSE ePSN eSSE eSSSN? eSSSE	21 - 37.8 38.5 39.8 39.9 41.2 44.2 44.8 47.4 47.8 54.0 57.8 57.9	

W.H.Bryan.

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Officer in Charge.

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1937.			
Oct. 4	ePNE iPPNE eSN eSE eSSE eSSN	7 - 46.0 48.8 56.0 56.2 8 - 1.0 1.3	
Oct. 6	ePNE iPPN {iSNE (PcPNE} iSSN iSSE eScSN eScSE	17 - 9.4 9.6 13.4 14.1 14.2 20.6 20.8	
Oct. 9	iPE iSE ME	18 - 8.5 10.9 13.7	
Oct. 10	eP?N eP?N	23 - 30 approx. 23 - 40 approx.	Record fogged. Very similar to preceding shock
Oct. 12	iPE iSE ME	3 - 19.3 22.4 24.4	
Oct. 17	iPN iPPN eSN LN MN	5 - 6.1 6.7 10.3 16.5 20.6	
Oct. 20	eLNE	21 - 2.5	Long waves of small amplitude.

DATE	PHASE	G. M. T. h. m. s.	REMARKS
Oct. 22	?PE	0 - 59.6	
	?PN	1 - 0.0	
	?eL	1 - 3.8	
Oct. 23	iPE	16 - 58.4	Felt in North Island, New Zealand
	iSE	17 - 2.7	
Oct. 25	eN	7 - 44.9	Early phases obscured by
	eE	47.5	microseisms.
	LN	47.7	
	LE	48.1	
	iPNE	10 - 38.5	Felt in North Island New Zealand
	iSNE	- 42.8	Very similar record to that for
	LE	43.4	October 22nd.
	LN	43.5	Calculated E = $\begin{cases} \phi 37^\circ 45' S. \\ \lambda 179^\circ 30' E. \end{cases}$
Oct. 28	ePN	9 - 40.7	Nearest earthquake yet recorded.
	iE	41.2	
	iSNE	42.5	

W.H. Bryan,

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	0.50 - 0	MSI	SS 7.00
	0.0 - I	MSI	
	0.5 - I	MSI	
Earthquake near Mexico	1.00 - II	MSI	SS .300
	1.50 - VI	MSI	
EQ. near Mexico	0.50 - V	MSI	SS .300
	0.50 - VI	MSI	
Earthquake near Mexico	0.50 - VI	MSI	
	0.50 - VI	MSI	
EQ. near Mexico	0.50 - VI	MSI	SS .300
	0.50 - VI	MSI	
EQ. near Mexico	0.50 - VI	MSI	SS .300
	0.50 - VI	MSI	

W.H. Parker

Offices in China

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DATE	PHASE	G. M. T. h. m. s.	REMARKS
1937.			
Nov. 2	iPN ePE iSN iSE LNE MNE ScSN ScSE	11 - 0.0 0.0 4.0 4.1 6.0 7.7 11.6 11.7	$\Delta = 23^\circ$ ca. N-S component much stronger than E-W.
	ePN eSE iSN LN	15 - 7.1 11.1 11.2 13.6	$\Delta = 23^\circ$ ca. Similar to preceding. Possibly same epicentre
Nov. 3	eE eN	5 - 37.8 38.0	Phases not identified.
Nov. 4	iE LE	8 - 9.7 11.6	Phase not identified. Long waves of small amplitude.
	iE iE eLE	22 - 57.4 58.9 59.9	Long waves of small amplitude.
Nov. 5	iPNE ePP ePPN eSN iSE LNE	9 - 40.3 41.0 41.1 44.7 44.7 45.6	$\Delta = 25^\circ$ ca.
Nov. 7	eLN	17 - 5.0ca	Long waves of small amplitude
Nov. 8	iP?E iS?E LE ME	5 - 44.5 48.4 50.4 52.7	Tracks crossed. Time uncertain
	eE iE iE LE	7 - 35.9 36.3 36.8 37.9	
	LE	15 - 56.0ca	Long waves of small amplitude.
Nov. 9	eNE	21 - 31.6	Followed by long waves of small amplitude.

DATE	PHASE	G. M. T. h. m. s.	REMARKS
Nov. 13	iPE ePPE ePcPE iSE LE eScSE	9 -55.9 56.7 59.1 10 - 0.9 2.3 6.6	$\Delta = 300$ ca.
	iPE iPPe eSPE LE	17 -59.3 18 - 0.4 4.1 4.8	$\Delta = 280$ ca.
Nov. 15	eNE	22 -21.4	Short waves superimposed on long.
Nov. 16	eNE M?N	16 - 3.3 8.3	
Nov. 17-19			Station out of action.
Nov. 23	eN iE iS?N eE	8 -23.5 23.5 25.5 25.8	N-S components stronger than E-W.
	ePN ePPN iSN iSE eLN	13 -56.5 57.2 14 - 1.0 1.1 2.2	$\Delta = 260$ ca. N-S components considerably stronger than E-W.
Nov. 25	ePE ePN ePPE ePPN eSN eSE eLN eLE MN ME iScSNE	4 -47.4 47.6 47.9 48.1 52.2 52.3 52.7 52.8 57.3 57.5 58.5	$\Delta = 280$ ca.
Nov. 26	eP?N iN iS?N iSS?NE eL?	10 -57.3 59.2 11 - 3.0 4.9 7.1	
Nov. 28	iPN iPP?N eSN eSSN eL?N MN	5 -34.2 35.9 42.1 45.9 51.0 58.2	$\Delta = 580$ ca.
Nov. 30	iPN iPE iPPN iPPE iSN eSE eL?N MN ME MN ME IN eN iL?N eLE	1 - 0.4 0.5 1.3 1.4 4.8 4.9 6.8 20.6 21.2 28.2 28.3 13 -44.1 45.9 53.4 57.5	$\Delta = 260$ ca.

L.S.H. Bryan
Officer in Charge.

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1937.			
Dec. 2	eNE eN eN eN eLN eLE MN ME	16 - 33.1 35.5 36.4 37.7 39.6 40.6 41.5 42.6	
Dec. 5	eN eN eLN MN	15 - 24.0 24.9 26.4 32.8	
Dec. 6	eN eLN	4 - 53.5 5 - 6.0	Followed by long waves of small amplitude.
Dec. 8	eN eNE LE iPNE iPPN e?N iSNE eSSN e?SSSN eLE eLN MN	0 - 54.4 58.1 1 - 1.5 8 - 42.2 44.5 46.0 50.2 53.9 55.7 57.0 57.2 9 - 8.9	$\Delta = 58^{\circ}\text{ca.}$
	iPN ePE iSE eSN ME MN	16 - 50.0 50.1 53.6 53.8 57.3 58.1	$\Delta = 200^{\circ}\text{ca}$
Dec. 10	eN eLN	13 - 42.2 48.0	Followed by long waves of small amplitude.
Dec. 12			No records.

DATE	PHASE	G. M. T. h. m. s.	REMARKS
Dec. 13	i(?P)N e(?PP)N e(?S)N e(?SS)N eLN MN	19 - 3.9 5.6 11.5 14.5 20.6 28.5	
Dec. 16	eE eE iE	18 - 41.1 44.0 48.9	All phases very small amplitude
Dec. 17	eN eLN iN eL	4 - 46.4 50.8 9 - 42.2 58.9	
Dec. 20	iPN ePE iSNE eLN ME MN	3 - 40.1 40.2 44.0 45.6 47.5 49.4	$\Delta = 22^{\circ}\text{ca.}$
Dec. 22	eN eLN ?MN	4 - 4.6 11.3 29.0	Followed by series of maxima Very definite maximum.
Dec. 23	eSN iSE iPPE eN eN iSKSE iSKKSE iN iPSE iPSN iPPSE iN iSSNE eLE eLN ME MN F	3 - 7.3 7.4 13 - 37.7 38.5 39.6 43.5 44.6 45.6 47.1 47.2 49.1 49.6 53.6 14 - 10.5 10.6 22.0 22.5 16 - 31.0	$\Delta = 113^{\circ}\text{ca.}$ Earlier phases obscured
Dec. 24 to Dec. 31			Station closed

W.H.Bryan

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