

UNIVERSITY OF QUEENSLAND SEISMOLOGICAL STATION

BRISBANE

Bulletin No. 89

$\phi = 27^{\circ} 28' 41''$ 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	250
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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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.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
1945						
Jan. 2	iPEZ	5	01	52	B, M-S	
" 3	iPNZ	6	42	17	B	
	iSE		46	06	M-S	
	eSN		46	07	B	
	eSZ		46	09	"	
" 4-15						Station not in operation
" 16	iE	13	55	47	M-S	
	iE		57	09	"	
" 17	eP?E	15	08	36	M-S	
	eSE		14	04	"	
	iSSE		16	42	"	
	eE		19	05	"	
	eL ₂ E		23	11	"	
" 29	eN	21	09	29	M-S	
	eSN		15	21	"	
	eLN		18	36	"	
	eLE		18	37	"	


W.H. Bryan
 Officer in Charge

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		h.	m.	s.		
1945 Feb. 1	iZ	10	23	43	B	
	eN		26	15	M-S	
	iPZ	10	28	29	B	
	iS?N		31	40	M-S	
	iPZ	10	32	58	B	
	iPZ	10	39	33	B	
	ipP?E		39	43	M-S	
	ipP?N		39	44	"	
	iSN		42	46	"	
	eL ₁ N		43	44	"	
	iZ	11	30	36	B	
	iPZ	12	17	22	B	
	iPN		17	23	M-S	
	ePE		17	27	"	
	eSN		20	10	"	
eZ		20	44	B		
iL ₁ N		21	29	M-S		
" 3	eEZ	15	03	43	B, M-S	
	eLE		9	12	M-S	
" 4	iN	23	00	03	M-S	
" 6	iPZ	5	06	58	B	Compression
	iSN		13	47	M-S	
	iSE		13	50	"	
	iSSN		16	42	"	
	eSSE		16	43	"	
" 8	iPZ	13	02	48	B	
	eS?Z		6	07	"	
	ePN	13	58	38	M-S	
	iPZ		58	40	B	
	iPE		58	41	M-S	
	iE		59	21	"	
	eSNE	14	01	46	"	
	iE		2	43	"	



DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
Feb. 10	iPZ eS?Z	5	08	55	B "	
" 17	eE eLE	18	48	46	M-S "	
" 26	ePE ePNZ eS?N eE eSS?N iE iN	22	23	52	M-S B, M-S M-S " " " "	
" 27	ePE ePZ ePN eSN eSE	13	15	51	M-S B M-S " "	

W.H. Bryan

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Officer in Charge

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BRISBANE

$\phi = 27^{\circ} 28' 41''$ S., $\lambda = 153^{\circ} 1' 52''$ E., $h = 15$ m. Bulletin No. 91

Foundation : Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

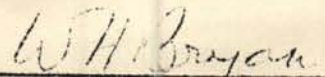
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		h.	m.	s.		
1945						
March 2	1PZ	19	42	58	B	
	1PZ	19	51	05	B	Dilatation
" 5	ePZ	9	23	08	B	
	iS?E		26	42	M-S	
	eLE	12	33	33	M-S	
	1PZ	20	05	23	B	
" 10	ePE	00	50	03	M-S	
	1PPE		51	31	"	
	1SE		55	52	"	
	1SSE		58	39	"	
" 13	1PZ	4	59	36	B	
	1PZ	12	26	21	B	
" 18	1PZ	00	26	40	B	
	ePN		26	43	M-S	
	eN		30	17	"	
	eN		31	33	"	
	eN		33	43	"	
" 19	1PZ	19	42	02	B	
	1PZ	20	36	56	B	
" 23	1PZ	2	19	18	B	
	1SN		23	26	M-S	
	1PZ	23	20	55	B	
	1pPN		21	02	M-S	
	ePPN		22	22	"	
	1SE		26	39	"	
	1SN		26	41	"	
	eG?E		28	09	"	
	1LN		29	55	"	
						$\Delta = 37.2^{\circ}$; $H = 23-13-45$

DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
March 28	iPN iPZ iSNE iSSE eL ₁ N MN	13-08-13 8-14 12-23 12-55 14-55 16-57			M-S B M-S " " "	$\Delta = 23.9^\circ$; H = 13-03-02
" 29						Record incomplete
" 31	iPN iSN e?N iLN	6-53-37 59-22 59-44 7-07-20			M-S " " "	
	iPN iSN	21-42-21 46-29			M-S "	


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1945				
April 1, 2				No Record
" 8	iN iZ eN iLN	1-00-17 2-58 3-03 8-13	M-S B M-S "	
" 10	iZ iPZ	16-25-46 20-37-04	B B	
" 11	iPZ iPN iN iSZ iSN eN iPZ iPE iGPN	8-47-13 47-14 47-22 51-11 51-13 51-29 15-23-28 23-33 30-20	B M-S " B M-S " B M-S "	
" 15	iPZ iPN iPPN iSKSN iSSN eLN	2-48-00 48-06 51-21 58-28 3-04-18 14-40	B M-S " " " "	
" 17	iPZ	12-18-43	B	
" 18	iPZ iS?NE eN eLN	13-14-50 23-05 26-50 33-36	B M-S " "	

DATE.	PHASE.	U. T.			UNIT.	REMARKS.	
		h.	m.	s.			
April 19	iP'	13	07	49	B	$\Delta = 18.0^\circ$; H = 13-03-40	
	iPNE		7	51	M-S		
	iE		8	16	"		
	iN		8	19	"		
	iZ		8	20	B		
	iSN		11	06	M-S		
	iSZ		11	07	B		
	iL ₁ E		12	19	M-S		
	ME		19	33	"		
" 20	iPZ	22	39	57	B		
	eE		40	27	M-S		
	iN		40	35	"		
	eN		46	22	"		
	iLN		48	12	"		
" 22	iPN	3	54	45	M-S	Dilatation	
	iPZ		54	46	B		
	iSN		59	08	M-S		
	iSZ		59	09	B		
	iN		4	03	02		M-S
	iL ₂ N		4	44	"	Compression	
	iPZ		9	58	30		B
	iPN			58	32		M-S
	iPP?N		10	00	26		"
	iSN			4	11		"
	eN		7	23	"		
" 23	iPN	6	27	24	M-S	Dilatation to N. $\Delta = 22.5^\circ$; H = 6-22-26	
	iPZ		27	25	B		
	iSN		31	25	M-S		
	iPZ		12	37	01		B
" 26	iPZ	13	46	14	B		
	iPPP?N		50	27	M-S		
	iPPP?Z		50	28	B		
	iSKS?N		56	14	M-S		
	iSSN		59	25	"		
" 29	iPZ	2	35	30	B		
" 30	iPE	17	32	25	M-S	Dilatation to E. $\Delta = 22.4^\circ$; H = 17-27-28.	
	iPZ		32	26	B		
	ePN		32	27	M-S		
	iSN		36	25	"		
	iSZ		36	27	B		
	iSE		36	30	M-S		
	eLN		39	03	"		
	iN		42	13	"		
	iE		42	15	"		

W.H. Bryan
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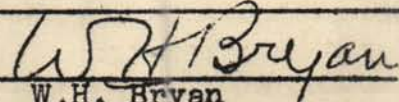
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Benioff No. 12	15 m.m. per minute	N.—S.	1.5 sec.		
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		h.	m.	s.		
1945						
May 3	1PZ	11	44	19	B	9
	1Z		45	11	B	
" 7	eN	17	26	40	M-S	
	LN		32	05	"	3640
" 9	1PN	3	37	05	M-S	$\Delta = 32.8$; $H = 3-31-18$. $h = .08$ 550km Prominent
	1PZ		37	07	B	
	1pPZ		38	34	"	
	1pPN		38	37	M-S	
	1SN		41	47	"	
	1Z		42	22	B	
	1sSN		44	40	M-S	
" 11	1PZ	7	08	12	B	
	1PZ	13	59	44	B	Brisbane
" 14	1PZ	3	01	34	B	
	eN		5	41	M-S	
	1Z		5	47	B	
	1Z	8	52	05	B	
	eN		55	28	M-S	
	eE		55	37	"	
" 15	1PZ	3	40	29	B	Dilatation
" 17	1PZ	8	28	39	B	
	1E		32	20	M-S	
	1Z		32	22	B	
	eLE		35	33	M-S	
" 19	eE	2	37	07	M-S	
	eLE		44	34	"	
" 24	1PZ	16	56	32	B	
" 28	1PE	10	13	16	M-S	
	1PZ		13	18	B	
	1SE		17	26	M-S	
	1Z	9	44	12	B	


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N B W F

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION

Bulletin No. 94

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		h.	m.	s.		
1945						
June 4	iPZ	8	10	18	B	
	iPZ	12	21	59	B	
" 7	eE	11	55	06	M-S	
	eN		59	06	"	
	iN	12	00	41	"	
" 11						Very strong microseisms
" 12	eN	16	00	14	M-S	
	iZ		5	13	B	
	eLN		13	26	M-S	
" 20	iPZ	8	54	18	B	
	iN		54	25	M-S	
	iE		54	27	"	
	eE		58	39	"	
	iN		58	42	"	
	iE		9	00	31	"
	iZ	17	46	43	B	
	iS?E		56	07	M-S	
	iS?N		56	09	"	
	eN	18	00	53	"	
" 22	iPZ	9	29	52	B	
	ePE		29	57	M-S	
	iN		29	58	"	
	iE		39	04	"	
	iLN		39	45	"	
" 27	eN	13	35	14	M-S	
	iG?N		52	57	"	
	eL ₁ ?N		58	13	"	
	eLE		58	43	"	

Note: Horizontal Benioffs not in operation.

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		h.	m.	s.		
1945						
July 15	iPN	5	43	26	M-S	4680
	iSN		49	53	"	
	iN		53	31	"	
" 16	eN	18	04	06	M-S	
	eN		7	44	"	
" 21	ePZ	22	03	38	B	
	eLE		11	31	M-S	
" 22	eLN	11	08	29	M-S	
" 23	ePZ	4	06	26	B	area de interest 04 05 26 5900
	iSNE		14	01	M-S	
	iSSN		17	46	"	
	iL1N		23	41	"	
	iL2N		29	33	"	
" 24	ePZ	6	35	26	B	
" 26	ePZ	18	37	45	B	
	eE		42	11	M-S	
	eN		42	18	"	
	iZ		42	26	B	
" 27	eLE	20	12	20	M-S	
	eLN		12	24	"	

Note: Horizontal Benioffs not in operation.

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		h.	m.	s.		
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August 1	iPZ	11	50	01	B	
" 7	ePZ	22	17	41	B	
	iSN		25	41	M-S	
	eSE		25	47	"	
	iSSE		29	37	"	
" 8	iPNZ	10	04	58	B, M-S	$\Delta = 70.2^{\circ}$; $H = 9-53-47$ 7800
	iSNE		14	06	M-S	
	iSZ		14	07	B	
	iPSE		14	22	M-S	
	eGN		22	13	"	
	iPZ	11	09	27	B	
" 9	ePZ	21	59	51	B	
" 14	iPZ	7 45	03		B	
	iPZ	8	02	11	B	
	eZ		2	24	"	
	iPZ		3	48	"	
	eSN		10	09	M-S	
	iPZ	12	20	43	B	
	eS?N		21	08	M-S	
	eN		28	45	"	
" 15-16						No Record
" 17	eZ	15	01	11	B	
" 21						No Record
" 27	iPZ	1	22	56	B	
	iPN		23	00	M-S	
	iSN		27	19	"	
	iN		27	51	"	
	iPZ	7	43	38	B	

DATE.	PHASE.	U. T.			UNIT.	REMARKS.	
		h.	m.	s.			
August 28	iPZ	12	54	20	B	$\Delta = 20.3^\circ$; H = 12-49-44 9250	
	iPN		54	21	M-S		
	ePE		54	25	"		
	iSN		58	02	"		
	iSZ		58	03	B		
	eLjN		13	00	17		M-S
	iPZ		19	31	35		B
" 29	iPZ	3	24	17	B	Compression	
/	iPNE	10	26	59	M-S	$\Delta = 20.6^\circ$; H = 10-22-20 . 2290	
	iPZ		27	00	B		
	iSN		30	43	M-S		
	iSE		30	44	"		
	MN		33	ca	"		Trace amplitude 80 mm. " " 85 mm.
	ME		33	ca	"		
		iPZ	12	50	48		B
	iPZ	15	13	17	B		
" 30	eP?E	23	36	16	M-S		

W.H. Bryan.

W.H. Bryan
Officer in Charge

10057, 11 FEB. 1946

UNIVERSITY OF QUEENSLAND

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DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
1945						
Sept. 1	iPEZ SE	22-49-03 53.4			B, M-S M-S	Time for S approximate only $\Delta = 23.1^{\circ}$; H = 17-13-56
" 4	iPZ iPN ePE iSE eSN eGE	17-19-00 19-02 19-03 23-05 23-08 23-45			B M-S " " " "	
" 5	eZ	14-49-04			B	
	iPNZ ePE iPPNE iSN	21-53-39 53-42 53-55 57-46			B, M-S M-S " "	
" 6	iPNZ iSN iL ₁ N iL ₂ N eZ iPN iPZ iPPN iSNE iL ₁ N	1-31-18 35-18 38-01 41-13 11-33-26 16-54-23 54-24 54-36 58-26 15-01-05			B, M-S M-S " " B M-S " "	
" 7	ePZ ePN eSN iN iPZ iPN iSN eN	6-14-52 14-55 19-08 22-50 13-04-33 4-36 8-56 23-06			B M-S " " B M-S " "	Compression Train of long waves of comparatively large amplitude Record incomplete
" 9						



DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
Sept. 11	iPN	18-01-55			M-S	
	iPE	1-57			"	
	ePZ	1-58			B	
	iSN	5-09			M-S	
	eL1N	7-09			"	
	iPE	19-16-05			M-S	$\Delta = 21.0^\circ$; H = 19-11-22
	iPZ	16-06			B	
	ePN	16-07			M-S	
	ipPZ	16-15			B	
	iE	18-36			M-S	
	iSEZ	19-52			B, M-S	
	" 12	iZ	8-31-51			
	iZ	10-19-57			B	
	iPN	19-57-36			M-S	
	ePZ	57-37			B	
	eSN	20-01-23			M-S	
	eSE	1-33			"	
	eZ	21-20-07			B	
	eN	12-42-28			M-S	
	iN	45-29			"	
	iPZ	21-44-37			B	$\Delta = 18.2^\circ$; H = 21-40-25
	iPN	44-38			M-S	
	iPE	44-39			"	
	iSE	47-56			"	
	iSN	47-58			"	
iL1N	50-01			"		
" 19	iZ	12-39-11			B	
	iPEZ	9-15-18			B, M-S	$\Delta = 26.7^\circ$; H = 9-09-46
	iSE	19-49			M-S	
	ME	24-ca			"	
	iPZ	12-39-43			B	Compression
	iPN	39-44			M-S	
	iSE	43-34			"	
	iSN	43-36			"	
	iE	44-11			"	

W.H. Bryan

W.H. Bryan
Officer in Charge.



1005 / 11 FEB 1949

UNIVERSITY OF QUEENSLAND

SEISMOLOGICAL STATION Bulletin No. 97

BRISBANE

$\phi = 27^{\circ} 28' 41''$ 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	250
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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		h.	m.	s.		
1945						
Oct. 3	ePZ	17	59	51	B	
	eE	18	06	30	M-S	
	eE		10	20	"	
" 6	iPE	9	18	27	M-S	
	ePZ		18	31	B	
	eS?E		25	05	M-S	
" 9	iPZ	14	47	47	B	Dilatation
	eZ		48	12	"	
	iE		57	03	M-S	
	eSN		57	25	"	
	eN		58	20	"	
	iSSN		15	02	16	"
	eL ₁ N		10	35	"	
" X 10	iZ	21	04	40	B	
" 11	iPE	9	02	18	M-S	
" 12	eN	18	34	48	M-S	
" 14	iPZ	4	13	57	B	Dilatation
	eZ		14	14	"	
" 16	iPEZ	16	10	20	B, M-S	$\Delta = 38.0^{\circ}$; H = 16-03-03
	ePN		10	23	M-S	
	ipPE		10	35	"	
	ePPN		11	55	"	
	iSN		16	09	"	
	eSE		16	17	"	
	iZ		16	21	B	
" 20	iZ	11	27	05	B	
" 21	ePZ	2	31	05	B	
	iZ		31	14	"	
	eN	3	39	14	M-S	

DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
Oct. 25	eZ	3	06	16	B	
	iPZ	15	11	13	B	
	ePN		11	21	M-S	
	eSN		21	48	"	
	iN		22	07	"	
	eSSN		27	26	"	
" 27	iE	11	49	46	M-S	
	eE		51	34	"	
" 28	eN	5	32	02	M-S	
	iPNZ	5	42	00	B, M-S	h = .04; Δ = 20.1°; H = 5-37-47
	ipPN		42	51	M-S	
	eSN		45	25	"	
	eSZ		45	26	B	
" 29	iPZ	5	04	57	B	
	eE		5	51	M-S	
	eN		11	21	M-S	
" 30	iPZ	1	12	39	B	Δ = 23.2°; H = 1-07-34
	ePN		12	47	M-S	
	iSNE		16	45	"	


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		h.	m.	s.			
1945							
Nov. 2 X	ePZ	19-04-37			B		
	ePN				4-39		M-S
	eSN				10-03		"
	eL ₁ N				15-27		"
" 7	eN	8-03-04			M-S		
	eN	7-24	"				
" 9	iN	20-03-37			M-S		
	eLN	11-39	"				
" 11 X	iPN	9-27-06			M-S	$\Delta = 22.4^{\circ}$; H = 9-22-06. Relatively large amplitudes for 30 sec.	
	iSN	31-06	"				
	iL ₁ N	33-43	"				
	eN	45-12	"				
" 15 X	iPEZ	1-40-37			B, M-S		
	iSE	44-37	M-S				
	iSN	44-39	"				
" 16 X	ePN	20-57-43			B	S not readable	
	ePZ	57-46	M-S				
	eLE	21-03-23	"				
" 19 X	ePZ	19-48-10			B		
	ePN	48-14	M-S				
	ipPZ	48-24	B				
	eSNZ	51-41	B, M-S				
" 21 X	iPZ	4-46-59			B	Compression	
	iPNE	47-00	M-S				
	eSN	50-39	"				
" 22 X	iPZ	15-18-13			B		
	eSZ	22-04	"				
	eSN	22-08	M-S				
" 22 X	iS?N	6-44-28			M-S	Compression	
	eLN	48-25	"				
	iPEZ	20-57-49			B, M-S		
	ePPNE	59-07	M-S				
	iSN	21-04-30			"		
	eSE	4-33	"				
	iN	4-39	"				
	eGE	7-05	"				
	eGN	7-08	"				

DATE.	PHASE.	U. T.			UNIT.	REMARKS.
		h.	m.	s.		
Nov. 23	iPEZ iPN iSE iSN	4-54-05 54-06 57-38 57-40	B, M-S M-S " "	Compression. $\Delta = 19.5$; H = 4-49-38		
" 26	iPNZ iSN iSZ	5-17-56 21-41 21-43	B, M-S M-S B			
" 27	ePZ ePE eN eS?E eS?N eN iN iE iE iE eZ	12-00-45 0-46 0-51 6-18 6-22 8-49 9-57 12-09 13-06 13-44 12-30-00	B M-S " " " " " " " " B			
	eP'NE eP'Z iPPN iN iSKKSE eSKKSN iPSE iSSE iSSSE iGE iL ₁ E	22-11-04 11-21 15-10 16-18 22-09 22-11 24-33 30-28 34-51 43-57 49-28	M-S B M-S " " " " " " " "	$\Delta = 107^\circ$ ca. Epicentre in Arabian Sea. Tidal waves along west coast of India. P' amplitudes very small; period unusually long.		
" 28	iPNZ iPE iSNE	8-39-29 39-32 42-38	B, M-S M-S "	$\Delta = 17.2^\circ$; H = 8-35-29		

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		h.	m.	s.		
1945 Dec. 5	ePZ iSN	22	40	03 43-34	B M-S	
" 8	ePE iSE iSS?E	1	08	52 12-51 13-19	M-S " "	$\Delta = 22.5^{\circ}$ $H = 1.03-54$
" 20	ePNE iSN eSE eSS?N eSS?E eL ₁ N	4	07	21 13-40 13-45 17-00 17-06 20-20	M-S " " " " "	
" 21-31						Station closed.
						 W.H. Bryan Officer-in-Charge