

1943

BULLETIN No.

UNIVERSITY OF QUEENSLAND SEISMOLOGICAL STATION

BRISBANE

65

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

Foundation : Semi-consolidated alluvium of raised river terrace.

INSTRUMENTS AND CONSTANTS.

INSTRUMENT.	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

Both instruments have been modified by the incorporation of electric driving mechanisms. These have doubled the speed of the recording drums, which is now 16 millimetres per minute.

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

DATE.	PHASE.	G. M. T.			REMARKS.
		h.	m.	s.	
1943 Jan. 4-7					Strong microseisms
" 9	iE	5	58	33	
	iE	6	03	21	
	eE		6	20	
	eE	17	17	35	
	eE		18	32	
" 13	eP?E	19	35	11	Obscured by microseisms
	eP?N		35	45	
	eS?E		39	58	
	eS?N		40	01	
" 14	eN	19	25	13	
	iE		26	21	
	eN		26	34	
	iN		28	45	
" 19	eN	20	08	23	
	iN		13	21	
" 22	iPE	6	45	15	
	iSE		50	19	
	iSS?E		52	14	
	eLE		54	15	
	eScS?E		56	00	


W.H. Bryan
 Officer-in-charge

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

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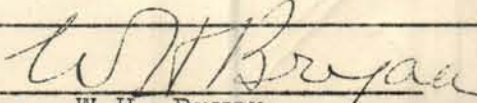
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		h.	m.	s.	
1943 Feb. 5					Heavy microseisms
" 7	eP?N iS?N i?N eSS?N	4-31-14 37-04 38-04 40-18			
	eP?N iS?N iSS?N	5-33-17 35-29 38-52			Very similar to preceding. Probably from same centre
" 16	iPN iPPN iSN iSSN iL ₁ N iL ₂ N	14-42-38 42-44 46-09 46-39 48-01 49-38			$\Delta = 19^\circ +$
	iPN iPPN iN iSN iSSN iLN MN	17-55-26 55-37 56-50 59-18 18-00-20 1-51 6-50			$\Delta = 21^\circ +$
" 17	iPN iPE iSN iSE MN	2-19-51 20-03 23-39 24-46 26-12			
	eN eN eS?N eE eLN	5-36-15 39-25 44-48 44-57 48-16			
" 21	ePN iSN	18-16-23 22-36			
" 22	eE eN eN eN eE FN	9-38-53 39-42 47-20 55-07 55-57 12-24-ca			


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		h.	m.	s.	
1943 March 1	iN iN MNE	17-	7-50 10-13 17-20		
" 2					Record incomplete
" 3	ePE ePN eSE eSN	2-	33-37 33-39 37-29 37-38		
" 6					Strong microseisms
" 7	eP?N eS?N eSS?N iLN	2-	50-09 3-09-16 14-20 24-27		
" 9	iPN ePE iPPN iSKSN iSKKSN eSE iSN iPSN eSSE iSSN iN iL ₁ N iL ₂ N FN	10-	02-07 02-08 5-39 12-42 13-01 13-11 13-19 14-26 19-16 19-32 26-19 34-03 40-16 13-11-ca		$\Delta = 93^{\circ}$ ca.
" 10	ePN ePPN iSKSN iSN ePSN eSSN	8-	28-35 32-09 39-07 39-34 40-38 45-53		Apparently from same centre as preceding quake. Record of E-W component so weak that phases could not be recognised.
" 11.	iPN iSN iSSN iL ₁ N iL ₂ N	9-	38-04 41-12 41-27 42-27 43-48		$\Delta = 17^{\circ}$ ca.

DATE	PHASE	G. M. T.			REMARKS.
		h.	m.	s.	
March 12	eN iN iE	18-32-13 36-41 37-22			
" 14	iP?N iS?N	8-50-07 54-04			
	iPN iSN	17-14-51 18-04			$\Delta = 17^\circ +$; Trace amplitudes of long waves to 22 mm.
" 15	iPE iPN iSN eSE	2-28-10 28-14 31-17 31-34			$\Delta = 16^\circ +$
	iPN iPPN eN eSN eGN eL ₂ N	4-55-21 56-48 58-55 5-01-07 4-02 8-49			
	eE eN eN eE	12-09-59 10-05 13-12 13-16			
	iPE iPN iSN eSE	14-14-16 14-18 17-27 17-38			$\Delta = 17^\circ$ ca.
	iPE ePN eSN eSE	14-51-13 51-16 54-26 54-33			Similar to preceding, but smaller amplitudes.
	iPN iPE iPPN iPPE iNE iSN iE iSSN iGN eL ₁ E	23-05-12 5-13 6-47 6-51 9-53 11-44 12-33 15-14 17-17 19-59			
" 16	iPNE iSE iSN	23-07-20 10-28 10-31			$\Delta = 17^\circ$ ca.
" 18	iPNE iSN eSE eL ₁ E eL ₁ N MN	10-48-29 51-31 51-51 52-58 53-08 56-08			
" 20					Record confused
" 21	iPN iSN	20-40-35 44-28			$\Delta = 22^\circ$ ca. Trace amplitudes of long waves to 40 mm.
" 22	iPN iPE iSN iSE iSSN iSSE eL ₂ N	8-32-00 32-02 38-17 38-22 41-45 41-46 47-58			$\Delta = 42^\circ$ ca.



DATE	PHASE	G. M. T.			REMARKS.
		h.	m.	s.	
March 23	iPE ePN iSN iSE	8-58-47 58-53 9-02-32 2-33			
" 25	iPN iPPN eSKSN iSE eSN ePSNE iSSN iSSSN	18-40-32 44-11 50-58 51-29 51-39 53-03 57-55 19-03-02			$\Delta = 92^\circ$ ca.
" 26	iE iN iNE iN iE iE iN	17--44-04 44-09 44-58 50-05 51-56 54-45 54-48			

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Foundation: Semi-consolidated alluvium of raised river terrace.

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Milne Shaw No. 60	E.—W.	12 sec.	20 : 1	250

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DATE.	PHASE.	G. M. T.			REMARKS.
		h.	m.	s.	
1943 April 1	ePN iPE iSN iSE iN iL ₂ ?E FN	14-27-02 27-03 34-02 34-06 38-12 45-49 16-45-ca			$\Delta = 49^{\circ}$ ca.
" 3	iE	13-20-19			
" 5	iPN iPPN eSN iSSN eL ₂ N MN	20-50-00 50-14 53-47 54-04 57-17 57-44			
" 6	iPN ePPE ePPN iSKSE eSKSN iSKKSN iPSE iPSN iSSN eL ₂ E FN	16-21-43 25-45 26-02 31-58 32-04 32-54 35-49 35-52 41-32 17-06-41 19-30-ca			$\Delta = 115^{\circ}$ ca
" 7	iN iN	23-38-08 42-02			Strong microseisms
" 9	iPN iPcPN iPcPE iSN eSE iSSE iSSN eGN eGE eL ₁ N	8-57-17 59-07 59-11 9-03-42 03-44 6-43 6-54 7-55 8-19 10-34			$\Delta = 43^{\circ}$ +



DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
April 11	eP?N iSN iSS?N iL1N iL2N	14	59	35 08 29 37 44	
" 13	iPE iPN iPPE iPPN iSE eSN iSSN eGN eScSN eL1E eL2N	12	36	38 43 10 12 32 33 25 04 29 33 45	
" 16	eE iN	16	44	13 27	
" 17	eE iE iE iE iE	2	48	51 04 52 57 21	
" 21					Strong microseisms
" 22					
" 25	eN eN iN	21	05	42 14 52	
" 26	eN iN iN eN	1	26	03 02 36 38	
" 28	iPE iE iSN iSE iN	23	47	59 19 42 44 03	$\Delta = 21^\circ$ ca

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		h.	m.	s.	
1943 May 2	eN eN eN eN FN	17-45-56 49-18 56-12 57-58 19-45-ca			
" 3	iPNNE iPE iPN iPPNE iSNE iSSN iSSE iGE iGN	2-07-51 8-13 8-16 10-07 15-05 18-09 18-13 19-59 20-02			$\Delta = 47^{\circ}$ ca Depth = 100 km ca.
" 6	iS?N iSS?N eGN MN	9-39-29 43-07 45-38 51-30			
" 7	iN eN	8-14-36 16-06			
" 8	eE iE eE iE	4-43-23 44-52 5-38-35 39-07			
" 10	iPN iPE eSN eSE iL ₁ N iL ₂ N MN	10-07-12 7-14 10-36 10-44 12-25 13-48 13-59			
" 11	ePN iSN eSE iGE iGN	9-11-15 15-26 15-27 15-52 15-57			
" 13	iN MN	17-37-14 45-34			

DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
May 18	iPN	6	11	29	
	iPPN		12	46	
	iSE		16	59	
	iSN		17	02	
	iGN		19	57	
	iL ₂ N		24	04	
" 25	iPE	23	15	33	$\Delta = 43^\circ$ ca.
	iPN		15	36	
	iPPN		17	33	
	iPPE		17	42	
	iSN		21	55	
	iSE		21	58	
	iSSN		25	14	
	MN		33	50	

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1943					
June 3	eN iSN iN	12-20-27 21-18 21-58			
" 7	iPN iSN iL ₂ N	23-29-38 37-12 47-04			
" 8	iPN eSN iSSN iGN iL ₂ N	20-52-09 59-42 21-03-03 5-51 10-49			
" 9	ePN eSN iSSN iGN iL ₁ N	3-15-28 23-31 27-35 30-45 34-41			
" 12	iPE iSE	16-21-25 25-01			
" 13	iPN iSN iSSN iL ₁ N eL ₂ N	5-22-59 31-51 36-10 44-32 50-02			$\Delta = 67^{\circ}$ ca.
"	iPN iSN	8-48-18 57-08			Aftershock of preceding quake ?
" 18	eP?E eSKS?E iSSN iSSE	16-51-27 17-01-48 10-30 10-36			
" 24	iPE iPN iSE iSN	20-25-38 25-41 28-57 28-58			

DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
June 25	ipPN	19	18	31	
	iPE		18	37	
	ipPE		20	02	
	iN		22	42	
	iE		22	46	
	eSE		25	30	
	eSN		25	40	
	iSSE		28	23	
	iSSN		28	24	
" 29	iPN	9	12	26	$\Delta = 38^\circ +$
	iPE		12	28	
	ipPN		14	02	
	iSE		18	20	
	iSN		18	23	
	iGE		21	25	
	iGN		21	27	
" 30	iPN	10	55	02	$\Delta = 28^\circ +$
	iPE		55	03	
	iSE		59	51	
	iSN		59	52	
	iL ₁ N	11	03	02	
	iL ₁ E		3	03	

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1943					
July 5	eE eN eN eE iN iN	13-48-06 48-09 49-46 52-07 57-43 59-00			
" 7	iPN iSN iSSN iL ₁ N	12-50-07 54-11 54-26 56-02			
" 8	ePN ePE eSN eSE eSSN eL ₁ N eL ₁ E	14-44-57 44-59 49-20 49-24 50-07 52-15 52-17			
" 11	ePN iPPN iSN iSSN iGN iL ₁ N iL ₂ N FN	2-15-42 16-59 21-12 23-13 23-44 25-28 28-55 4-20-ca			$\Delta = 34^{\circ} +$
" 14	eP?N eP?E eE eN iN eE eN	19-47-22 47-23 54-23 54-25 57-21 58-01 58-44			

DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
July 18	iPN iPPN iSN iGN	8-04-56 5-26 8-49 9-16			
" 23	iPE iS?E	15-01-14 7-40			
" 29	eN eN eN iN FN	3-22-07 31-27 37-36 43-55 5-50-ca			

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1943 August 1	iPN iSN iL ₁ N iL ₂ N	16-22-31 25-37 26-54 28-29	$\Delta = 17^\circ$ ca
" 2	iPE iPN iPPN iSN iSE iL ₁ N iL ₂ N FN iPNEZ* iSE iSN eL ₂ N	0-51-22 51-23 51-32 55-22 55-23 56-44 58-58 3-00-ca 8-41-54 45-44 45-46 49-50	$\Delta = 20^\circ$ + Trace amplitude of S to 17 mm. Trace amplitude of S to 34 mm.
" 6	iPZ* eE iN iN	10-42-46 43-27 48-20 51-31	
" 7	eE	10-20-33	
" 9	eE eE iE	17-05-39 12-20 15-37	
" 10	iPN iPE iN iE iSN eSE iSSN iGN iL ₁ N iL ₂ N	13-55-34 55-41 14-00-16 0-21 1-54 2-01 4-48 5-43 8-39 11-48	

DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
August 14	iPE ipPE eSE	8-13-18 13-33 17-40			
" 17	eE eE	13-21-25 27-28			
" 20	iN iN	1-36-53 40-11			
" 23	iPZ* iPPN ePPZ* iSN	7-11-21 11-36 11-40 15-41			
" 27	eN eN	0-47-41 53-09			

* Readings obtained from Vertical Benioff during trials.

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1943 Sept. 5			Readings of Z are based on new Vertical Benioff Instrument.
	iPN ePPN eN iSN iGN iL ₁ N	8-42-18 43-54 47-16 48-30 51-27 53-52	
" 6	iPN iPE	3-47-10 47-12 4-40-ca	Very strong. All phases with very large amplitudes but records overwritten. N.—S. instrument deranged.
" 7	eE eN iN	13-37-32 39-25 45-14	
" 8	eE eE eN eN eE eE	14-58-57 15-01-56 2-22 2-53 2-55 8-19	
" 10	iPNZ eP _c PE iPPN iN iSNE iS _c SE iSSE iGE eL ₁ E eL ₂ N	8-47-42 48-32 49-58 53-34 56-26 57-24 9-00-36 4-43 8-42 12-45	$\Delta = 65\frac{1}{2}^{\circ}$ ca. Damage in province of Osaka, Japan
" 11	iPZ ipPEZ iPPE iSE iGE iL ₁ E iL ₂ E	19-40-33 40-36 41-52 45-50 48-09 50-15 53-07	$\Delta = 32^{\circ} +$

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		h.	m.	s.	
Sept. 12	iN	1	38	35	
	iN		44	49	
	iN		47	59	
	eN		52	35	
" 13	iPZ	5	21	23	
	iPZ	21	46	41	
	iPZ	22	22	34	
	iPE		22	35	
	iN		23	16	
	eN		27	14	
	iE		27	22	
	iE		28	14	
eL ₁ ?N		29	34		
" 14	iPZ	0	18	26	
	eN		19	03	
	eZ		19	08	
	eN		20	21	
	iN		21	41	
	iPN	2	05	04	All phases strongly developed
	iPZ		5	05	
	iPPZ		5	13	
	iPPN		5	16	
	iPPPN		5	28	
	iPPPZ		5	29	
	iSZ		8	08	
	iSN		8	12	
	iL ₂ N		11	34	
	iPZ	3	51	08	Very similar to above and probably from same centre.
ipPN		51	12		
iPPN		51	23		
iPPZ		51	25		
iPPPN		51	31		
iPPPZ		51	34		
iSZ		54	07		
iSN		54	13		
iZ		54	41		
iPZ	7	23	38		
ipPZ		23	43		
iZ		24	05		
iSZ		26	44		
iPE	14	01	02		
iPZ		1	04		
iN		4	21		
iEZ		8	03		
iN		8	05		
eN		9	22		
iSE		9	37		
iSZ		9	38		
eE		12	56		
iN		12	58		
" 16	iPZ	12	53	22	
	iE		53	46	
	iN		53	47	
	iZ		56	35	
" 17	iE	4	26	41	
	iNZ		26	43	
	iN		27	43	
	eE		27	49	
	iZ		27	56	
	iN		30	03	
	eN		32	14	

DATE	IPN ^{SE}	h.	REMARKS
Sept 17	IPZ	9-13-41	
	ePe	13-42	
	iPPE	13-47	
	iPPN	13-56	
	iZ	13-57	
	iPPP	14-00	
	iSNE	14-21	
	iSZ	17-04	
	iZ	17-07	
	iZ	21-30	
	iZ	14-17-04	
	iZ	17-59	
	iE	22-50	
	iE	23-42	
	iZ	24-12	
	iZ	24-48	
	iZ	25-30	
	iZ	26-52	
" 22	iPN	23-23-35	$\Delta = 26^\circ +$
	iPE	23-36	
	iPZ	23-38	
	iPPN	24-03	
	iPPE	24-07	
	iSN	28-05	
	iSE	28-07	
	iSSE	28-53	
	iL1E	30-49	
	iL2E	33-19	
	ME	34-12	
" 27	iPZ	22-09-11	
	iPE	9-12	
	iPPZ	9-29	
	eZ	12-54	
	iSE	13-33	
	iL1E	16-07	
	ME	17-59	
" 28	iPNZ	10-53-57	
	iZ	55-43	
	eN	55-50	
	iE	11-00-40	
	eZ	0-44	
	iZ	0-51	
" 30	iPN	7-21-32	
	ePE	21-33	
	iPZ	21-36	
	iN	25-31	
	iE	25-35	
	iE	26-04	
	eN	27-51	
	iPN	11-58-13	
	iPZ	58-14	
	eE	58-23	
	iN	12-02-14	
	eE	2-19	

W.H. Bryan
 W.H. BRYAN
 Officer-in-Charge.

UNIVERSITY OF QUEENSLAND SEISMOLOGICAL STATION

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.	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

Both instruments have been modified by the incorporation of electric driving mechanisms. These have doubled the speed of the recording drums, which is now 16 millimetres per minute.

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DATE.	PHASE.	G. M. T.			REMARKS.
		h.	m.	s.	
Readings of Z are based on new Vertical Benioff Instrument.					
1943					
Oct. 4	iPE	10	43	58	} *
	iPN		43	59	
	iSN		x47	31	
	iE		47	49	
	MN		52	08	
	iE		16	16	
	iE		19	14	
" 5	iPN	11	34	08	} *
	ePE		34	11	
	eSN		37	42	
	eSE		37	47	
" 7	iPZ	7	52	04	} *
	iPZ	10	48	04	
	iPNE		48	05	
	iPPZ		48	20	
	iSE		51	37	
	eSN		51	42	
" 11	iPZ	6	27	51	} *
	iSN		31	08	
	eSE		31	14	
	eSZ		31	15	
" 16	ePE	0	32	05	} *
	iSE		36	25	
	iSS?E		37	04	
	iL ₂ E		41	49	
" 17	iS?N	22	41	43	} *
	iN		45	31	
	iN		46	51	
	iN		49	35	
" 21	iNZ	23	14	26	} *
	iN		19	28	
	iZ		19	31	
" 23	iPZ	17	35	19	} *
	iPE		35	21	
	iZ		35	36	
	iSE		45	12	
	eSZ		45	20	

* Very similar. Probably from same centre.

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DATE.	PHASE.	G. M. T.			REMARKS.
		h.	m.	s.	
Readings of Z are based on vertical Benioff instruments, the free period of which is 1.5 seconds.					
1943 Nov. 2	ePN ePPN iSKSN eSKKSE iSSE iL1E	18-21-47 25-45 32-27 32-43 39-40 53-02			
" 3	iPZ iSKSN iSSN iSSSN eGN	14-46-09 56-47 15-03-38 7-45 14-11			$\Delta = 93^{\circ}+$. Probably from same centre as previous earthquake.
" 6	iPEZ iSE eGE iPEZ iSEZ	6-27-03 31-27 33-01 8-37-30 42-21			Dilatation W. $\Delta = 28.9^{\circ}$ Trace amplitude 29 m.m. Trace amplitudes of surface waves to 10 c.m.
" 7	iN iN eN	0-29-13 6-45-41 47-33			
" 8	iPN iPZ eE iSN eSZ iSE iPNZ ePE ePPN iSN iSE iSZ iSSN iL1E iScSE	6-22-18 22-20 22-28 26-29 26-30 26-31 22-34-03 34-07 34-18 38-01 38-02 38-03 38-28 40-19 44-48			Compression Dilatation N.

DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
Nov. 9	iZ	7	56	50	
	eE	8	05	04	
	eN		5	30	
	iZ		6	04	
	iPZ	11	57	46	
	iZ		58	08	
" 11	eN	3	30	22	
	eZ		30	25	
	iN		33	05	
	iPNEZ	4	50	06	Dilatation N.
	ipP?N		50	18	
	ipP?EZ		50	19	
	iSN		54	28	
	iSE		54	31	
" 12	iPNZ	7	21	07	Compression
	iSN		25	03	
	iSEZ		25	04	
	iSSE		25	32	
" 13	eE	10	56	13	
	iPEZ	18	48	01	
	iPPE		48	24	
	iSE		51	25	
	iL1E		53	32	
	iL2E		54	46	
	ME		55	55	
" 14	ePN	3	55	36	
	iSN		58	53	
" 15	iN	15	44	12	
	eN		48	03	
	iN		48	33	
	iN		50	42	
	eN	20	57	45	
	eN	21	01	22	
" 16	iPNZ	16	50	28	Dilatation
	iZ		50	37	
	eSN		54	23	
" 17	iPZ	18	42	54	
" 18	iPZ	18	41	31	Dilatation
	iPN		41	33	
	iSN		45	02	
" 24	iPZ	6	51	58	
	iPPN		52	05	
	iSN		56	01	
	iSSN		56	30	
	iN	13	27	08	
	iZ		27	13	
	eN		35	04	
	iN		36	18	
	iN		38	08	
" 26	iPZ	21	34	56	$\Delta = 55^\circ$ ca.
	iSE		42	36	
	iSN		42	37	
	eSKSN		44	31	
	eSSN		46	31	
	iL1N		53	25	
	iPZ	22	39	59	$\Delta = 131^\circ$ ca.
	iPPZ		42	03	Damage and loss of life in Central Turkey.
	iPPNE		42	04	
	eSKSN		47	08	
eSKSE		47	11		
eSKKSN		49	12		
iSSN		59	29		
	iSSZ		59	30	
" 28	iPN	6	28	18	
	eSN		34	40	
	eScSN		38	06	
	iL1N		41	54	

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SEISMOLOGICAL STATION

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DATE.	PHASE.	G. M. T.			REMARKS.
		h.	m.	s.	
Readings of Z are based on Vertical Benioff Instrument No. 13, the free period of which is 1.5 seconds.					
1943 Dec. 1	iPEZ iPPZ eSZ	6-10-09 10-31 14-30			Dilatation
	iP?E iS?E	10-55-36 11-00-14			
" 2	iPZ iSZ	1-59-33 2-02-23			Compression
	iPZ iZ iS?Z	5-18-55 19-14 21-46			
" 3	iPZ iSZ iZ iL ₁ Z	3-43-45 47-58 49-19 52-11			Compression
	iPZ	6-03-57			Dilatation
	iPZ	6-59-59			Compression
" 6	iP?Z iPZ	4-21-32 5-21-19			Compression
	iP?Z	5-50-45			
" 9	eE eN iE eN	15-42-46 43-05 44-29 45-45			
" 13	ePZ iN iSN eE eN MN	16-01-28 2-25 8-04 11-20 11-24 19-44			



International
Seismological
Centre

DATE	PHASE	G. M. T.			REMARKS
		h.	m.	s.	
Dec. 14	ePZ	18	52	52	
" 17	iPZ	14	03	55	
" 18	ePZ	19	18	46	
	ipPZ		18	50	
" 20	iPZ	13	29	42	Dilatation
	iZ		35	35	
" 23	iPNZ	19	05	05	Compression. H = 19h.00m.08s. Δ = 22.4°. Azimuth 359° E. of N. Epicentre calculated at 5.0°S, 152.5° E. Initial amplitude of SN 120 m.m. Amplitudes of long waves off record.
	iPE		5	07	
	iZ		5	24	
	iSNE		9	04	
	iSZ		9	06	
	iZ		10	18	
	iZ		42	25	
	iZ	20	31	31	
	FN	23	00	ca	
" 24	iPZ	1	11	30	
	iPZ	1	52	49	
	ipPZ		52	54	
	esZ		56	21	
	iPZ	4	02	36	
	iS?Z		6	41	
	eZ	6	01	27	
	eZ	11	49	22	
" 27	eN	0	53	14	
	eN		57	17	
	eE	4	00	44	
	eN		00	47	
	iE		5	26	
	iN		5	38	
	iN		9	05	
	eE		9	27	
	MN		13	35	
" 30	iPZ	6	29	15	
	ePN		29	16	
	iSN		33	05	
	iZ		34	28	
	iPZ	7	41	47	Dilatation
	iPN		41	48	
	iSN		46	34	
	iSS?N		47	31	
	MN		51	15	
	iPZ	10	24	52	
	iPN	22	07	26	Dilatation from N. Δ = 22½° ca.
	iPZ		7	29	
	iSN		11	26	
	iSZ		11	28	
	iSSN		12	20	
	iL ₁ N		13	48	
	iL ₂ N		16	23	
	MN		22	55	

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