

E RECORDS BY MILNE SEISMOGRAPH.

Register from

SYDNEY OBSERVATORY, NEW SOUTH WALES.

(Name of Station)

Director, Superintendent, or Observer :

James Hangle, Director, W.C.Graham, Observer

No.	Date.	Com- ponent.	P			PR ₁			S			SR ₁			L			Max.			Remarks.
			H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	
	1930																				
	Feb. 7	E-W	?											6 38 00	6 40 12						PT A. Is pre- code.
	7	"												12 12 00	12 14 30						
	12	"	6 26 18					6 30 54						6 34 00	6 35 18						
														36 30	37 00						
														37 42	38 18						
	14	"	20 46 54					20 53 18						20 58 36	21 00 00						
	22	"	?											18 23 24	18 25 24						do. do.
	26	"	?											2 28 18	2 29 54						do. do.
	28	"	18 07 18											18 16 36	18 19 12						

B.P. = 198

D.V. 1 mm = 0".20



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No.	Date.	Com- ponent.	P			PR ₁			S			SR ₁			L			Max.			Remarks.
			H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	
	1980																				
	March 8	E-V15	40	12					15	45	00				15	49	30	15	51	00	
															52	42	53	12			
	20		12	52	12				12	58	00				13	00	18	13	01	00	
															09	30	10	00			
	25		7						7						11	42	48	11	44	12	A.F.'s pre- cede
	26		7	12	42				7	24	24				7	30	24	7	33	30	Philippine Id's
															35	36	36	42			
															44	46	46	12			
	28		11	38	42				11	44	30				11	50	24	11	54	00	
	30		9	17	36										9	32	00	9	33	12	
	30		15	26	30				15	32	12				15	38	30	15	39	12	
															41	54	42	30			
															45	00	46	00			

S.P. 132 D.V. 1 MS = 0".28



E RECORDS BY MILNE SEISMOGRAPH.

Register from

SYDNEY OBSERVATORY, New South Wales.

(Name of Station)

Director, Superintendent, or Observer:

James Hangle, Director; W.S. Graham, Observer.

No.	Date.	Com- ponent.	P			PR ₁			S			SR ₁			L			Max.			Remarks.
			H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	
	1930																				
	April 4	E-W	9	27	48				9	34	30				9	39	24	9	40	12	
	16		11	42	08										11	53	36	11	55	36	
	20		18	27	18										18	32	18	18	33	30	
	21		12	14	12										12	41	48	12	44	00	
	28		16	32	30										16	42	12	16	43	00	
															17	01	18	17	05	06	
															18	12		21	24		
	27		14	48	08										15	03	48	15	06	18	
	27		21	49	00										21	55	42	21	59	48	
															22	12		22	24		
	30		16	12	00										16	20	30	16	22	36	
															24	48		25	24		
			B.P. 198						D.V. 1 mm = 0".26												

SYDNEY OBSERVATORY

MILNE SEISMOGRAPH, E-W COMPONENT

Constants B.P. = 19^s. D.V. 1 mm. = 0".26

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<u>Date.</u> 1930	<u>Phase.</u>	<u>Time</u>			<u>A_E</u> <u>mm.</u>	<u>Remarks</u>
		<u>Greenwich.</u>				
		<u>H.</u>	<u>M.</u>	<u>S.</u>		
May 2.	eP	1	47	24		
	eS		51	30		
	L		54	00		
	M		54	30	0.6	
	L	2	10	36		
	M		12	00	0.3	
" 2.	eP	6	05	30		
	iS		11	36		
	L		15	18		
	M		16	00	0.8	
	L		27	00		
	M		27	36	0.2	
" 3.	L	11	33	00		
	M		36	12	0.2	
" 3.	L	14	35	30		
	M		36	12	0.2	
" 5.	eP	13	57	36		
	iS	14	07	12		
	SR ₁		14	48		
	SR ₂		19	12		
	L		26	24		
	M		27	30	6.8	Burma
	L		30	12		
	M		30	36	6.2	
	L		31	54		
	M		32	30	7.0	
	L		33	12		
	M		33	42	8.0	
	L		34	42		
	M		36	00	12.5	
	L		38	48		
	M		40	48	12.0	
E		41	48			
M		42	36	7.5		
L		45	00			
M		47	30	9.5		
" 6/7.	L	23	45	30		
	M		52	00	3.1	Air Tremors Pre-
	L		56	00		cedia, Persia (?)
	M		59	12	1.4	
	L	0	00	24		
	M		02	12	1.6	
" 8.	eP	12	56	30		
	L	13	09	36		
	M		12	00	0.2	
" 8.	eP	14	39	06		
	iS		44	30		
	L		47	24		
	M		48	30	2.1	

Date. 1930	Phase.	Time			A _E mm.	Remarks.
		Greenwich				
		H.	M.	S.		
May 18.	eP	0	11	06	1.5	
	eS		14	54		
	L		17	18		
	M		18	00		
" 19	eS	3	59	12	0.2	P lost in AT ₃
	L	4	03	24		
	M		05	12		
" 20.	eP	7	49	30	0.6	
	eS		55	12		
	L	8	00	06		
	M		00	42		

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SYDNEY OBSERVATORY.

Milne Seismograph E-W Component.

Constants B.P. = 19^S D.V. 1 mm = 0".26

Date 1930.	Phase.	Time Greenwich H M S	Ae mm.	△ Kms.	Remarks.
June 1	i P	13 12 00			
	i S	20 12			
	L	30 48		6550	
	M	32 12	2.9		
" 4	e P	9 57 48			
	i S	10 01 54			
	L	04 48		2500	
	M	05 18	0.6		
" 5	e P	11 48 24			
	i S	53 18			
	L	55 48		3100	
	M	56 30	1.0		
	L	57 06			
	M	59 00	1.0		
11	e P	0 55 30			
	S	? J			S lost changing Sheet.
	L	1 05 18			
	M	07 00	7.0	3800?	
	L	20 00			
	M	21 18	2.0		
	L	26 30			
	M	27 30	1.1		
15	F	7 35 48			
	L	55 00			
	M	58 00	0.3		
15	e P	21 28 00			
	i S	33 06			
	L	42 18		3300	
	M	44 30	0.6		
" 19	F	?			P? Air Tremors precede.
	i S	13 22 42			
	L	34 54			
	M	43 00	0.5		
	L	56 30			
	M	14 05 00	0.4		
" 23	e P	19 42 30			
	i S	47 30			
	L	50 18		3200	
	M	51 42	2.0		
" 25	e P	21 46 24			
	i S	50 48			
	L	57 30		2700	
	M	58 30	0.4		


Correction :- May 8th. Second Tremor - The hour should be 13, not 14, as stated in the report.

*Magazine
with pencil and*

SYDNEY OBSERVATORY

Milne Seismograph E - W Component.

Constants B P = 19^S D V 1 mm = 0".26

Date 1930.	Phase	Time Greenwich H. M. S.	A _E mm.	 kms.	Remarks.
July 2.	eP	21 16 06			
	iS	26 42			
	L	57 00			China?
	M	22 05 00	1.0	9350	
" 3.	P	17 51 00			
	L	55 48			
	M	57 00	0.2		
" 5.	eP	18 03 48			
	iS	07 54			
	L	12 18			
	M	14 00	1.0		
" 14.	P.	?			P lost in micros
	iS	23 37 00			
	L	44 36			
	M	46 30	0.8		
" 25.	eP	9 10 30			
	eL	18 24			
	M	20 48	0.2		

SYDNEY OBSERVATORY.

Milne Seismograph E-W Component.

Constants B.F. = 19^s D.V. 1 mm = 0"26

Date 1930.	Phase.	Time Greenwich.			AE	Δ	Remarks.
		H.	M.	S.			
August 1	eL M	21	26	18 30	0.2		
" 2	P iS L M	16	? 23	? 06 00 00	0.6		P lost in A.T's
" 18	P iS L M	10	? 36	? 30 18 24	1.0		- do -
" 20	eP L M L M	21	12	48 00 00 54 12 54 00	0.3 0.2 0.3		
" 24	P iS L M	9	? 18	? 42 30 00	0.7		No trace of P's.
" 27	eP iS L M	15	51	30 00 42 12	0.4		

SYDNEY OBSERVATORY

September, 1930.

Earthquake Records

 Milne Seismograph - E-W Component
 Constants B.P. = 19^S D.V. 1 mm. = 0".26.

Date 1930.	Phase.	Time Greenwich			A _E mm.	Δ Kms.	Remarks
		H	M	S			
Sept. 9	P iS	4	05	54			Doubtful Tremor.
	L M		16 18	30 12	1.5		
" 13	P iS	23	?	12			
	L M		29 30	18 24	1.2		
" 14	L M	4	13 15	12 00	1.4		
" 15	L M	23	17 19	00 00	0.5		
" 15	L M	23	49 51 57	36 18	0.5		
" 21	L M	8	40 41	00 36	0.2		
" 21	eP	23	26	00			
" 22	L M L M E M	0	57 01 08 09 08 42 43	30 18 30 18 48 30	1.1 0.7 0.5		
" 22	eP iS L M L M L M L M	1	36 40 44 47 49 50 54 55	30 18 42 00 30 24 36 06	7.9 3.0 2.0	2,400	
	L M	2	38 39	18 30	0.8		
	L M	3	12 13	00 12	0.8		
" 22	P iS L M	11	?	00 00 42	0.6		
" 22	L M	13	10 12	54 00	0.2		

Date. 1930.	Phase.	Time Greenwich			E mm	Remarks kms
		H	M	S		
Sept. 22	L M	14	05 06	00 12	0.5	
" 24	P iS L M	12	? 23 36 39	 30 36 30	0.6	
" 25	eP iS L M L M L M	18	11 16 19 21 24 25 27 28	24 12 48 48 36 48 12 00	2.0 1.5 0.9	3,900
" 30	eP iS L M L M	21	27 33 36 38 39 41	48 36 42 30 30 00	7.5 9.6	3,900

Station	Time	Latitude	Longitude	Depth	Magnitude	Location
001	1963	30.0	100.0	10	2.5	INDONESIA
002	1963	30.0	100.0	10	2.5	INDONESIA
003	1963	30.0	100.0	10	2.5	INDONESIA
004	1963	30.0	100.0	10	2.5	INDONESIA
005	1963	30.0	100.0	10	2.5	INDONESIA

SYDNEY OBSERVATORY

Milne Seismograph E - W Component.

Constants BP = 19^S D.V. 1 mm. = 0".32

Date 1930	Phase	Time Greenwich.			A _E mm.	△ kms.	Remarks
		H.	M.	S.			
Oct. 3	eP	18	24	18	0.8	3,250	
	eS		29	18			
	L		33	12			
	M		34	30			
" 5	eP?	18	40	36	0.7	4,200	
	iS		46	36			
	L		49	30			
	M		51	00			
" 8	iP	10	24	54	5.2	2,900	
	iS		29	36			
	L		32	24			
	M		34	00			
	L		35	54	2.4		
	M		36	24	1.7		
	L		38	42			
	M		39	18			
" 8	eP	19	14	48	0.2		
	L		22	18			
	M		23	30			
" 11.	eP	16	21	48	0.2		
	eL		24	12			
	M		25	06			
" 16	eP	20	52	30	0.3	2,800	
	iS		57	00			
	L	21	00	06			
	M		01	30			
" 22	P	18	?		0.6		
	e iS		16	42			
	L		20	18			
" 23	M	9	22	24	2.0	2,400	
	eP		07	12			
	iS		11	12			
	L		13	18			
" 24	M	20	14	42	3.0		
	P		?				
	iS		30	18			
	L		39	00			
	M		39	30			
	L		40	00			
	M		40	30			
	L		44	12			
M	44	48					

P. lost
in air
tremors

Date 1930	Phase	Time Greenwich			A _E mm.	△ kms.	Remarks.
		H.	M.	S.			
Oct. 27	eP eL M	2	04 05 05	42 06 18	0.1		Local Tremor - probably Yass District.
" 28	iP iS L M	21	26 32 40 42	54 42 54 30	2.0	4,000	
" 31	iP iS L M L M	10	29 34 36 37 38 39	30 24 30 12 48 12	1.5 1.4	3,100	

SYDNEY OBSERVATORY

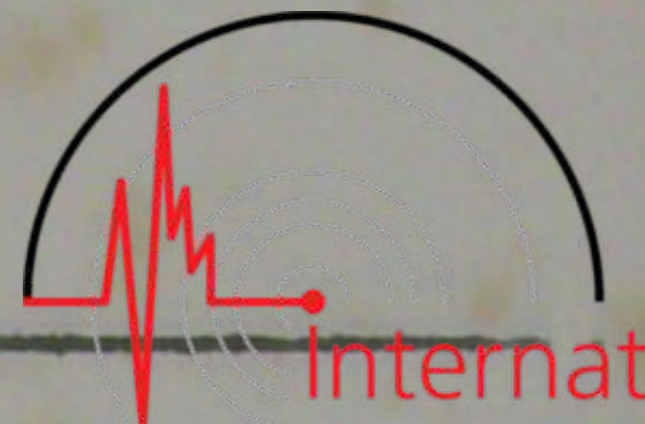
Milne Seismograph E-W Component.

Constants B.P. = 18^S D.V. 1 mm. = 0".²⁵₂₉



Date 1930.	Phase.	Time Greenwich.			Δ _E mm.	Δ kms.	Remarks.
		h.	m.	s.			
Nov. 3	P		?				P lost in AT's
	iS	18	48	12			
	L		54	00			
	M		55	30	1.5		
" 9	iP	19	15	18			
	iS		21	54			
	L		29	48			
	M		31	24	8.1		
	L		33	00			
	M		34	12	8.2		
	L		38	00			
	M		39	12	4.6	4,900	
	L		43	00			
	M		43	30	3.6		
	L		49	12			
	M		49	42	1.9		
	L		51	54			
	M		52	30	1.2		
	L		54	48			
	M		55	18	1.3		
" 10	iP	13	51	00			
	iS		56	30			
	SR ₁		59	00			
	L	14	02	42			
	M		03	30	8.5		
	L		05	00			
	M		06	18	9.2	3,700	
	L		08	12			
	M		09	24	5.5		
	L		13	54			
	M		14	18	1.6		
Record lost from 16d oh ³¹ 57m 30s to 17d 1h 15m 00s							Drum fouled on helix.
" 17.	cP	12	13	00			
	iS		17	36			
	L		19	24			
	M		20	24	1.0	2,800	
" 21	P		?				P lost in AT's
	iS	3	15	00			
	L		19	00			
	M		19	30	0.3		
" 22	iP	14	02	36			
	iS		07	30			
	L		10	30			
	M		12	54	3.3		
	L		14	00			
	M		14	36	1.2	3,100	
	L		15	24			
	M		16	00	1.0		
	L		19	30			
	M		21	12	2.6		
	L		22	48			
	M		23	18	1.1		





Date 1930.	Phase.	Time Greenwich.			A _E mm.	△ kms.	Remarks
		h.	m.	s.			
Nov. 24	L M	1	23 25	36 18	0.2		
" 25	eP eS SR ₁ L M L M L M L M L M	19	23 32 36 41 43 48 49 51 52 59	36 30 18 18 24 12 00 42 18 00	2.6 0.8 0.5	7,450	Japan
		20	00 09 09	00 00 30	0.7 0.5		
" 28	eP iS L M	8	20 25 30 32	12 42 18 12	0.4	3,700	

Note:-Incessant movement of the boom throughout November 13th owing to heavy gale blowing. Waves up to 1 mm. in semi amplitude completely masking any small tremors.

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*1 hour for mass*SYDNEY OBSERVATORYMilne Seismograph E-W Component.Constants B.P. = 18^S DV = 1 mm. = 0".36

Date 1930.	Phase.	Time Greenwich.			A E mm.	△ kms.	Remarks.		
		h.	m.	s.					
Dec. 3	eP	19	03	30					
	iS		13	00					
	L		31	42					
	M		34	00	1.7				
	L		37	00	2.0				
	M		38	00	2.6	8,100	Burmah.		
	L		39	30	2.0				
	M		40	12	2.6				
	L		42	00	2.0				
	M		43	12	2.0				
	L		45	12	2.6				
M	46	36	2.6						
L	50	36	1.5						
M	52	48							
" 8	eP	17	26	48					
	iS		31	00					
	L		35	36					
	M		37	42	3.0	2,500			
	L		39	06	1.3				
	M		39 42	42	1.9				
	L		41	00					
M	41	30							
" 12.	eL	9	19	12					
	M		21	36	0.2				
" 12	eP	20	18	54					
	L		24	24					
	M		25	30	0.2				
" 13	eP	2	40	18					
	eL		47	30					
	M		49	12	0.2				
" 14	eP	17	47	18					
	eL		51	42					
	M		53	00	0.2				
" 16	L	10	40	00					
	M		42	00	0.5				
" 21	eP	15	09	18					
	L		21	00					
	M		22	12	0.4				
" 22	eP	0	23	42					
	L		47	38 18					
	M		49	00	0.3				

Date. 1930.	Phase	Time Greenwich.			A _E mm.	△ kms.	Remarks.
		H.	m.	s.			
Dec. 23	eP	21	43	00			
	L		52	00			
	M		54	42	1.2		
	L		56	48			
	M		57	36	1.2		
" 25	eP	13	53	24			
	L	14	03	00			
	M		04	30	0.4		
" 31	eP	20	26	00			
	eS		30	00			
	L		33	30			
	M		35	00	0.8	2,400	
	L		36	12			
	M		37	00	0.7		
