



# 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 <sub>1</sub>			S			SR <sub>1</sub>			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.18 pre- cede.
	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 <sub>1</sub>			S			SR <sub>1</sub>			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-W	15	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	19	42				7	24	24				7	30	24	7	33	30	Philippine Id's
															35	36	36	42			
															44	48	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



SYDNEY OBSERVATORY

MILNE SEISMOGRAPH, E-W COMPONENT

Constants B.P. = 19<sup>s</sup>. D.V. 1 mm. = 0".26

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<u>Date.</u> 1930	<u>Phase.</u>	<u>Time</u>			<u>A<sub>E</sub></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 <sub>1</sub>		14	48		
	SR <sub>2</sub>		19	12		
	L		26	24		
	M		27	30	6.8	Burmah
	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- ceded. Persia (?)
	L		56	00		
	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 <sub>E</sub> 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 <sub>3</sub>
	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.F. = 19<sup>S</sup> 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.

*Magpie  
with pencil and*

SYDNEY OBSERVATORY

Milne Seismograph E - W Component.

Constants B P = 19<sup>S</sup> D V 1 mm = 0".26

Date 1930.	Phase	Time Greenwich H. M. S.	A <sub>E</sub> 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<sup>s</sup> D.V. 1 mm = 0"26

Date 1930.	Phase.	Time Greenwich.			AE mm	$\Delta$ kms.	Remarks.
		H.	M.	S.			
August 1	eL M	21	26	18 30	0.2		
" 2	P iS L M	16	? 23	? 06 33 00 37	0.6	P lost in A.T's	
" 18	P iS L M	10	? 36	? 30 49 18 53 24	1.0	- do -	
" 20	eP L M L M	21	12	48 28 00 33 54 35 12 36 54 38 00	0.3 0.2 0.3		
" 24	P iS L M	9	? 18	? 42 22 30 23 00	0.7	No trace of P's.	
" 27	eP iS L M	15	51	30 55 00 57 42 58 12	0.4		

SYDNEY OBSERVATORY

September, 1930.

Earthquake Records

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 Milne Seismograph - E-W Component  
 Constants B.P. = 19<sup>S</sup> D.V. 1 mm. = 0".26.  
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Date 1930.	Phase.	Time Greenwich			A <sub>E</sub> mm.	Δ Kms.	Remarks
		H	M	S			
Sept. 9	P		?				
	iS	4	05	54			Doubtful Tremor.
	L		16	30			
	M		18	12	1.5		
" 13	P		?				
	iS	23	26	12			
	L		29	18			
	M		30	24	1.2		
" 14	L	4	13	12			
	M		15	00	1.4		
" 15	L	23	17	00			
	M		19	00	0.5		
" 15	L	23	49	36			
	M	57	57	18	0.5		
" 21	L	8	40	00			
	M		41	36	0.2		
" 21	eP	23	26	00			
" 22	L		57	30			
	M	0	01	18	1.1		
	L		08	30			
	M	09	08	18	0.7		
	E		42	48			
	M		43	30	0.5		
" 22	eP	1	36	30			
	iS		40	18			
	L		44	42			
	M		47	00	7.9		
	L		49	30			
	M		50	24	3.0		
	L		54	36			
	M		55	06	2.0	2,400	
	L	2	38	18			
	M		39	30	0.8		
	L	3	12	00			
	M		13	12	0.8		
" 22	P		?				
	iS	11	44	00			
	L		48	00			
	M		49	42	0.6		
" 22	L	13	10	54			
	M		12	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	4.5	India
002	1963	30.0	100.0	10	4.5	India
003	1963	30.0	100.0	10	4.5	India
004	1963	30.0	100.0	10	4.5	India
005	1963	30.0	100.0	10	4.5	India

SYDNEY OBSERVATORY

Milne Seismograph E - W Component.

Constants BP = 19<sup>S</sup> D.V. 1 mm. = 0".32

Date 1930	Phase	Time Greenwich.			A <sub>E</sub> 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			
	M		36	24			
	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		?		0.6		
	e <i>i</i> S	18	16	42			
	L		20	18			
	M		22	24			
" 23	eP	9	07	12	2.0	2,400	
	iS		11	12			
	L		13	18			
	M		14	42			
" 24	P		?		3.0	P.lost in air tremors	
	iS	20	30	18			
	L		39	00			
	M		39	30			
	L		40	00			
	M		40	30			
	L		44	12			
	M		44	48			

Date 1930	Phase	Time Greenwich			A <sub>E</sub> 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	

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*1 hour for mass*

SYDNEY OBSERVATORY

Milne Seismograph E-W Component.

Constants B.P. = 18<sup>S</sup> DV = 1 mm. = 0".36

Date 1930.	Phase.	Time Greenwich.			A <sub>E</sub> 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	1.5						
L	50	36							
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		<del>39</del> 41	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	<del>38</del> 18					
	M		49	00	0.3				

Date. 1930.	Phase	Time Greenwich.			A <sub>E</sub> 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		

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