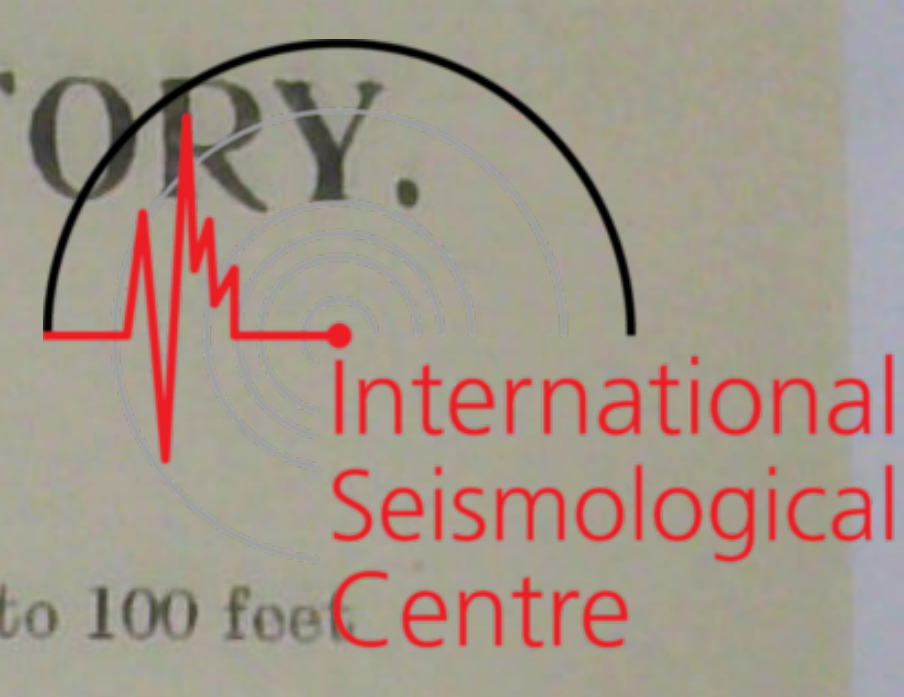


PERTH, WESTERN AUSTRALIA. 1931

SEISMOLOGIC STATION, PERTH OBSERVATORY.



$\phi = 31^{\circ} 57' 9''.0$ S. $\lambda = 115^{\circ} 50' 21''.5$ E. Height = 182 ft.

Instruments mounted on cement piers sunk one foot in solid, dense sand resting on limestone rock which must be 50 to 100 feet or more below the surface.

Time: Mean Greenwich, midnight to midnight.

Time Correction: Within 50 sec.

INSTRUMENTS—FIXED CONSTANTS.

INSTRUMENT.	SYMBOL.	REGISTRATION.	DAMPING.	PAPER SPEED.	MASS.
Milne	34	Photographic	...	8 mm per min.	
Milne-Shaw	27	Photographic	Magnetic	8 mm per min.	1 lb.

INSTRUMENTS—DETERMINED CONSTANTS.

INSTRUMENT.	T.	r.	V.	COMP.	l.	DETERMINED.
34	16-00			W-E		1" = 1.72 mm Sept 24
27	12-00	20 to 1	250			1" = 45 mm May 18

From January 1st 1931 to January 16th 1931 No. ONE.

	No.	DATE. 1931	PHASE.	TIME. h. m. s.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						AE. μ	AN. μ		
27	1	Jan 2	e e e ca F	10-55-50 10-58-30 11-05-35 12-00-00					
27	2	5	caP caF	18-10-00 18-40-00					Slight tremor movement.
27	3	7	caP caF	12-52-00 13-54-00					Slight tremor movement.
27	4	8	caP caF	1-34-00 1-58-00					Slight movement
27	5	10	i i ca F	21-36-50 21-41-00 22-45-00					
27	6	13	caP F	5-35-00 5-50-00					Slight movement
27	7	14	caF F	16-43-00 16-53-00					Slight movement. May be in Mexico.
27	8	15	iP S iL caF	2-10-25 - 2-52-00 5-40-00					EQ in Mexico.
27	9	15	iP caF	21-20-50 22-04-00					
27	10	15-16	iP iS iL L caF	22-50-40 22-56-40 1-50-00 3-5-00 5-40-00					Probably Sumatra area—ocean floor. 9.2 cms
27	10		caF	5-40-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

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From January 16th 1931 to January 28th No. TW0

	No.	DATE. 1931	PHASE.	TIME. G.M.T. h. m. s.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						AE.	AN.		
27	11	Jan 16	ca P ca F	20-36-00 21-36-00					continuous minor movement.
27	12	17	ca P ca F	3-51-25 5-00-00					continuous tremor movements.
27	13	18	ca P ca F	13-21-30 14-25-00					slight movement
27	14	18	ca P ca F	15-16-00 16-00-00					Tremor movement.
27	15	19	e P e S i L ca F	12-29-45 12-14-20 12-14-36 13-40-00					
27	16	19	ca P i i ca F	16-07-45 16-09-45 16-12-15 17-30-00					
27	17	20	ca P ca S i L ca F	23-43-00 23-49-50 23-54-30 01-00-00					A slight tremor movement recorded at 15-35-00 to 16-00-00.
27	18	24	ca F i S ca L ca F	13-40-20 13-55-40 14-00-00 14-50-00					Very uncertain.
27	19	25	ca P ca F	17-37-00 18-25-00					
27	20	27	e P PR1 S1 S2 SR1 SR2 L M1 2 3 ca F	20-19-30 20-23-15 20-27-30 20-28-15 20-31-55 20-34-30 20-38-00 20-44-00 20-47-10 20-52-05 23-19-30					2 cms " "
27	21	28	F? F S e ?ca L M ca F	21-32-50 21-33-20 21-40-30 21-46-00 21-52-10 21-54-20 23-00-00					3.5 cms
27	22								

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From January 28th to February 14th 1931 Thre



	No.	DATE. 1931	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
				h. m. s.	s.	μ	μ	km.	
27	22	Feb 2/3	iP ePR iS eL1 eL2 M1	22-55-40 22-57-30 23-02-40 23-07-00 23-07-50 23-12-30					Severe Earth-quake in New Zealand. Napier & Hastings destroyed. L seems to occur earlier than in other quakes.
									Max Series - Max Long waves reach amp. 8.8 cms Oscillations continue strongly for 12 min. Period 15 secs Max swing continue slowly losing amplitude until 00-00-00. Movement fades away at (ca 3-00-00)
									Earth-quake center 3360 miles from Perth.
27	23	" 3	ca P caF	1-45-00 3-00-00					
27	24	" 3	caP F	2-05-30 2-45-00					Very small movement.
27	25	" 5	caP caF	2-23-00 2-50-00					very small movement.
27	26	" 8	caP F	2-00-00 3-00-00					continuous movement.
27	27	" 10	iP i S SP iL M1	6-40-30 6-41-45 6-45-25 6-45-45 6-46-45 6-46-50					Cocos island (Indian Ocean) report E.Q.shocks felt today duration 10 secs. 4 cms.
									Max series - Long waves increase suddenly in amplitude and measure .5 cms at 6-48-50. This large swinging continues until 6-58-40 when the amp is 0.25 cms. Diminishing oscillations continue for a further 40 mins.
27	28	" 11	eP coF	17-18-40 18-22-00					Small tremor movement.
27	29	" 12	eP iS eL ca F	5-50-00 5-54-45 5-57-40 6-38-00					
27	30	" 13	iP iS eL M1 Max FCB coF	1-36-15 1-47-10 1-48-30 1-50-55 2-00-00 3-45-00					E.Q. in New Zealand. Napier Center Further damage to town.
27	31	" 14	eP iS eL ca F	14-05-05 14-10-05 14-12-20 -5-57-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.



International
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Centre

From Feb 14th 1931

to

March 3rd

1931.

No.

Four

1931.										Centre	
	No.	DATE. 1931	PHASE.	TIME.			PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
				G.M.T.				AE.	AN.		
				h.	m.	s.	s.	μ	μ	km.	
27	32	Feb 18	ca F F	19-22-30 20-00-00							
27	33	19	ca P P i S e L M1 ca F	17-46-35 17-46-50 17-51-00 17-53-00 17-55-00 20-30-00						Shocks felt at Cocos Island 3. cms	
27	34	20	ca P ca F	21-46-40 22-20-00							
27	35	20	iP iS caF	5-44-55 5-54-20 7-10-00						5100 miles. 1.4 cms	
27	36	20	ca P ca F	23-00-00 23-24-00							
27	37	22	7 F i PR e S e L ca F	21-31-20 21-32-40 21-37-00 21-30-15 22-30-00							
27	38	24	iP iS ca F	17-33-30 17-37-23 18-40-00							
27	39	25	ca P ca F	9-44-40 11-00-00							
27	40	27	iP iS L L ca F	9-44-40 9-50-10 9-52-20 9-53-00 11-00-00						Probably Cocos Island area.	
27	41	March 3	1 P1 1 P2 i i S S i i iL M1 2 ca F	2-27-20 2-27-31 2-29-50 2-30-10 2-34-10 2-35-00 2-37-00 2-39-00 2-41-25 2-42-40 2-47-00 4-30-00						Riverview report E.Q. in New Zealand New Zealand report E.Q. 1000 miles North of New Zealand.	
27	42									3 cms. 2.5 cms.	
27	42	3	ca F ca F	19-10-00 19-25-00							
27	43	5	ca F F	18-14-00 18-24-00							

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY



From *March* 5th 1931 to March 11th 1931 No. FIVE.

	No.	DATE. 1931	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
27	44	April 7 <i>March 7</i>	eP eP eS eS eL M ca F	h. m. s. 10-12-30 10-12-50 10-19-30 10-19-45 10-24-20 10-26-30 11-50-00	s.	"	"	km.	
27	45	7	eP eS eL M ca F	- 18-36-15 18-42-20 18-44-00 19-20-00					
27	46	7	P S L ca F	- - 23-24-00 00-00-00					
27	47	8	ca P F	2-25-00 3-34-00					Tremor from E.O. in Yugo. Slavo.
27	48	8	PR PR S L ca F	6-00-50 6-12-15 6-16-00 6-21-00 7-00-00					
27	49	8	e e e ca F	12-06-45 12-12-15 12-17-00 13-20-00					Small continuous movement. Appears to be long distance quake.
27	50	9	eP eP eP S SR SR2 e e L M M ca F	3-50-25 4-00-50 4-01-05 4-10-50 4-18-00 4-21-30 4-27-00 4-29-00 4-33-35 4-35-00 4-37-00 7-00-00.					
27	51	11	F S SR L ca F	- 6-10-00 6-10-45 6-13-00 7-05-00					
27	52	11	e e e M M ca F	12-40-15 12-45-25 12-52-50 13-02-30 13-10-00 13-45-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From March 13 th

to

April 4th 1931

No. SIX.

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	No.	DATE. 1931	PHASE.	TIME. G.M.T.			AMPLITUDE.		DISTANCE. km.	REMARKS.
				h.	m.	s.	AE.	AN.		
27	53	March 13	ca P ca F	7-12-00 7-20-00					March 12th	A small movement at 10-55-00 to 11-57-00,
27	54	14	ca P i ca F	13-17-00 13-18-30 14-00-00						
27	55	15	ca P F	1-00-00 1-12-00						
27	56	18	P e PR i S e L M1 ca F	- 8-22-00 8-31-20 8-58-50 8-15-40 11-14-00						
27	58	18	iP iPr S SR1 2 L1 2 ca F	20-21-00 20-22-45 20-27-40 20-20-35 20-31-20 20-33-20 20-35-05 22-30-00						
27	59	19	eP PR1 2 iS L ca F	6-34-00 6-35-55 6-36-30 6-40-00 6-47-30 7-54-00						
27	60	28	eP eP S S L Max ca F	12-44-30 12-44-50 12-48-40 12-49-10 12-50-00 12-50-00 15-00-00						Sea Quake between Timor Island and Darwin Shoal felt at Derby Whyndom and Broome.
										to 13-00-00 12 cms amplitude, Disturbance recorded at Magnetic Observatory- Watheroo. W.A.
		31	Milne Shaw Seismograph Failed - Broken clock spring Severe Earth quake occurred in Mexico. Manguna abolished. Nicaragua- Central America. Over 1000 Killed.. 10-10 local time No Seis mograph records on April 1-2.							
27	61	April 2	ca F F	11-29-00 12-00-00						
27	62	3/8	ca F ca F ca F F 2S	2-35-00 4-00-00 12-25-00 10-40-00 0-25-30						Small movement. Tremors.
			e L	0-29-10 0-47-40						ca F 0-25-00

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

International
Seismological
Centre

From April 4th 1931 to April 30th.

No. SEVEN

	No.	DATE. 1931	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
				h. m. s.	s.	"	"	km.	
27	63	XX X5 April	P ? S ? L ca F	 21-43-40 21-46-25 22-20-00					
27	64	6	e P FR S SR L	5-50-00 6-01-10 6-06-30 6-09-30 6-12-40					
27	65	8	P PR1 2 S i i i L ca F	10-10-40 10-11-50 10-12-05 10-16-30 10-19-05 10-20-30 10-21-00 10-25-50 20-30-00					
27	66	11	e e e e L ca F	15-17-15 15-20-05 15-25-10 15-25-30 15-26-30 15-00-00					
27	67	11	P S L ca F	2-16-00 2-21-00 2-22-25 3-50-00					
		16- 17	clock stopped. no record.						
27	68	21-22	ca F e e e ? L1 L2 ca F	0-02-00 0-04-25 0-07-10 0-11-30 0-32-15 0-33-30 1-05-00					
27	69		ca F ca F	5-52-00 6-30-00					Small tremor movement.
27	70	24	e P iF e FR e PR i S e SR e SR e L ca F	17-20-35 17-20-45 17-31-40 17-32-00 17-36-00 17-39-20 17-39-30 17-42-30 20-00-00				1.5 cms.	

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.



From April 24th. 1931 to June 17th. 1931 No.

	No.	DATE. 1931	PHASE.	TIME. h. m. s.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						Ae.	An.		
27	71	May 4	e	17-39-15		"	"		
			ca F	18-20-00					
	72	6	eF	15-22-30					
			ca F	16-00-00					
	73	16	ca P	21-33-00					Moderate movement.
			ca F	22-15-00					
	74	17	ca P	12-34-00					
			F	13-00-00					
	75	20	P	2-45-50					
			P	2-46-00					
			SR	3-03-50		S?	2-57-00		
			L1	3-20-50					
			2	3-21-30					
			ca F	5-00-00					
	76	22	ca P	0-20-00					
			F	0-40-00					
	77	23	caP	0-28-00					
			F	1-15-00					
	78	24	P	-					
			PR	21-25-30					
			S	21-31-00					
			S	21-31-20					
			L	21-32-30					
			ca F	22-00-00					
	79	30	ca P	18-51-00					
			F	19-30-00					
	80	31	ca F	0-54-35					
			ca F	1-45-00					
	81	June 1	i	12-08-30					
			i	12-11-30					
			ca F	13-00-00					
	82	4	e	9-50-20					
			i	9-56-25					
			caF	10-49-00					
	83	7	caF	14-23-00		1.5 cms			
				15-00-00		20 secs	period.		
	84	7	caF	16-24-00					
				17-30-00					
	85	13	ca P	15-00-00					
			F	15-50-00					
	86	17	P	17-07-56				SR2 17-19-50	
			S	17-15-00				L 17-22-50	
			SR	17-18-40				caF 18-00-00	

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.



From June 12 1971 to Aug 10 1971 No. 9

No.	DATE.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
					AE.	AN.		
27	June 22	ca P	14-56-00					
			h. m. s.	s.	μ	μ	km.	
			16-45-00					
27	27	i	18-23-30					
		i	18-25-00					
		ca F	18-45-00					
27	29	e P	16-53-25					
		i S	17-00-20					
		evL	17-07-20					
		ca F	18-00-00					
27	30	eP	15-49-20					No record on July 13-14 due to stopping of clock.
		i	15-53-30					
		S	15-56-00					
		i	15-59-00					
27	31	ca P	3-54-30					
		F	4-25-00					
27	32	ca P	10-37-00					
		F	4-25-00					
27	33	ca P	3-46-00					
		F	4-30-00					
27	34	ca P	13-24-50					
	Aug 1	e	13-27-30					
		F	20-30-00					
27	35	e P	1-18-45					
	7	i S	1-24-50					
		e SR1	1-26-35					
		L1	1-26-25					
		L2	1-27-20					
		ca F	4-45-00					
								2.4 cms.
								Max amplitude 9cms. at 1-35-00.
								E.Q. recorded at West Bromwich
								England.
227	34	Tremor movement	at 12-06-00					
	7		12-12-00					
27	35	Earth-quake movement	at caP 9-54-25					
	10		F 10-55-00					
27	36	eP	21-31-05					
	10	eP	21-31-25					
		iS	21-41-30					
		SR	21-47-20					
		SR	21-48-15					
		SR	21-49-00					
		? L	21-53-55					
		L	21-56-05					
								5800 miles
								3.25 cms.
								Long waves 21-57-05 to 22-27-00
								max amplitude 1 cms

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.



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From.....August.....13th.....1931.....to.....Sept.....11th.....

No.....TEN.....

	No.	DATE.	PHASE.	TIME.			PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
								AE.	AN.		
		1931		G.M.T.							
				h. m. s.		s.		"	"	km.	
	27/ 100	Aug 13	ca P	6-3-00							
			F	6-12-00							
	27/ 101	13	? S	22-34-00							
			e L	22-39-20							
			ca F	23-15-00							
	27/ 102	18	ca P	15-00-00							
			ca F	15-30-00							
27	103	22	ca P	22-54-00							
			ca F	23-13-00							
27	104	24	eP	21-57-00							Heavy micro-seisms.
			e PR1	22-02-20							
			3	22-10-00							
			4	22-11-00							
			PS	22-15-00							
			PPS	22-16-05							
			PPPS	22-17-30							
			SR1	22-25-50							
			2	22-31-50							
			3	22-34-00							
27	105	27	eP	15-39-20							Severe Earth-quake at quetta in India.
			PR	15-42-25							
			e S	15-48-55							
			L	16-02-00							
			ca F	18-30-00							
27	106	27	i P	20-48-40							Micro Seisms 7 mm amplitude. Epi Centre 70 degrees. 1.25 cms amplitude. .6 cms amplitude 20" period
			PcP	20-49-35							
			PR1	20-20-50							
			2	20-51-45							
			3	20-52-05							
			i S	20-56-00							
			SP	20-56-05							
			SR1	20-59-26							
			2	21-01-10							
			3	21-02-00							
			L	21-05-00							
			F ca	21-40-00							
27	107	Sept 11	F	21-03-50							
			FcF	21-04-00							
			S	21-12-50							
			PS	21-13-50							
			SR1	21-17-45							
			PR2	21-20-50							
			3	21-22-15							
			L	?							
			Max	21-30-00							
27	108	11	ca F	22-42-00							
			ca F	23-13-00							

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

International
Seismological
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From... September 21... to... September 29th 1931... No... Eleven.

	No.	DATE. 1931	PHASE.	TIME. G.M.T. s.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						AE.	AN.		
27	109	Sept 21	eP ca F	2-40-40 4-10-00					E.Q. in Japan - Yokahama.
27	110	21	P PcP ? PR2 3 S PS SR SR2 SR3 M M ca F	10-36-05 10-36-50 10-37-30 10-39-20 10-39-50 10-43-45 10-44-00 10-47-45 10-50-00 10-50-50 10-52-50 10-56-25 11-40-00					
27	111	21	i i ca F	13-43-40 13-50-20 14-36-00					
27	112	22	ca P ca F	9-30-00 10-15-00					
27	113	25	i P i S i L Max up to ca P	6-05-55 6-10-37 6-13-20 6-35-00 9-50-00					Sub-marine quake 250 Miles North of Cocos Is. 1850 miles from Perth.
27	114	25	i P i ca F	16-47-20 16-49-20 17-53-00					Probably an extension of Sub-marine quake.
27	115	25	i P ca F	20-43-00 23-00-00					Continuous movement Also probable extension of sub-marine movement
27	116	26	ca P ca F	21-15-00 22-00-00					
27	117	28	ca P F	17-32-40 18-00-00					
Correction to sheet No 9.									
No 95 Aug 7 should read of 2-18-55 Not 1 hour.									

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

International
Seismological
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From.....September 29 1931.....to.....October 4th 1931.....No.....TWELVE.....

	No.	DATE.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
		1931		H. M. S.	s.	"	"	km.	
27	118	Sept 29	ca P F	5-27-00 5-49-00					
27	119	29	ca P F	9-23-00 9-33-00					
27	120	Oct 3	1P cPR1 1PR2 i 3 i iS ?SR ?SR iL F	19-22-00 19-23-45 19-23-21 19-24-40 19-26-50 19-28-52 19-30-30 19-30-50 19-39-35 Movement					SEVERE SUB-MARINE E.quake E Long 162 $\frac{1}{2}$ S Lat 7 NE British Group in Solomon Is. NW Santa Cruz Island. 3460 Miles from Perth. Max movements swings across the record Milne Shaw boom becomes unseated due to max waves. Point of boom thrown out of agate cup.
34	121		3	A second quake on this date is recorded on the Milne instrument continuous movement being recorded between the L waves 19-39-35 of the 1st quake and the S of the 3ed quake. S at 23-03-11. This earthquake was not recorded by the Milne-Shaw due to its discolation.					
34	122	3/4	?P S SR1 L ca F	22-56-23 23-03-11 23-06-37 23-11-40 2-00-00					Estimated from Sydney time. Ep- C = 46 degree. 3460 Miles from Perth.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From October 4th 1931 to October 12th 1931. No. THIRTEEN.

October 12th 1931. THIRTEEN.									
	No.	DATE. 1931	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
27	125/8	Oct 4	e P ca F	h. m. s. 6-47-00 6-55-00	s.	"	"	km.	
						ca P F	11-55-00 12-00-00		
			eP ca f	7-08-00 7-42-00		ca P ca F	13-51-00 14-03-00		
			eP F	11-06-00 11-10-00		ca P F	12-10-00 22-17-00		
27	129/130	5	ca P ca F	2-00-00 2-06-00					
			ca P	7-19-50 7-50-00					
27	131	6	ca P F	17-27-00 17-40-00		No 135	Oct 8	ca P F	2-20-00 2-39-00
27	132	6	ca P F M	18-28-30 19-10-00 18-41-00		136	8	ca P F	4-46-00 4-51-00
27	133	7	ca P F	12-10-50 12-14-00		137	8	ca P F	16-20-00 17-00-00
27	134	8	ca P F	16-10-00 16-24-00		138	8	ca P F	23-48-00 00-00-00
		No 131 to 139		Slight tremor movements		139	9	ca P F	2-01-00 3-35-00
27	140/1	10	1 P 1P eP 1 S 1 S Max	0-28-30 2-38-42 0-28-50 0-35-31 0-36-00 0-45-00 1-25-00					continuous Max movement of 1st record quake
			Max	3-23-00					Second disturbance
			ca F	6-07-00					continuous movement until this minute
27	142	11	ca P ca F	7-10-50 8-10-00					Slight movement
27	143	11	ca P F	9-52-00 10-04-00					
27	144	11	ca P F	12-53-00 13-00-00					
27	145	11	ca F	17-53-00 18-05-00					
27	146	12	eP 1 Max	0-52-00 1-02-30 1-4-30					1 cm.
			F	2-00-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From October 12 1931 toOctober 17 1931No. FourInternational
Seismological
Centre

	No.	DATE. 1931	PHASE.	TIME. G.M.T.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
27	147	Oct 12	?P PR1 PR2 3 Pcs S PS SR1 2 SR3 L Max ca F	h. m. s. 3-12-30 3-13-40 3-14-30 3-15-15 3-18-00 3-18-57 3-19-10 3-22-51 3-23-30 3-23-55 3-24-30 3-26-00 4-06-00	s.	"	"	km.	
27	148	12	ca F F	10-37-00 11-20-00					
27	149	12	? P S PS SR1 2 ?L ?1 Max	13-38-30 13-39-10 13-39-30 13-41-30 13-42-30 13-43-00 13-48-12 13-50-30					
27	150	13	F PR1 PR2 PR3 S2 PS SR1 2 3 L F ca	Lost 4-49-00 4-50-10 4-50-22 4-53-50 4-54-00 4-57-00 4-57-40 4-58-00 4-59-30 5-48-00					
27	151	14	ca P Max P ? L L2 ca F	11-10-25 11-15-30 - 11-40-55 11-41-50 12-40-00				Two movements.	
27	152	13	eP ?L ca F	20-30-00 20-36-10 21-00-00				Small movement	
27	153	14	cop	13-52-00 13-59-00				small movement	
27	154	17	caP 1 S PS 1 SR1	Lost 0-53-30 0-56-35 0-57-50 0-58-30		SR2 L M ca F	- 1-02-50 1-07-00 2-20-00		2 cms.

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From October 18th 1931

to

November 2 1931.

No. Fifteen.

International
Seismological
Centre

	No.	DATE. 1931	PHASE.	TIME. G.M.T.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
27	155	Oct 18	h PR1 2 i S PS i i ca F	4-39-30 4-41-30 4-42-20 4-46-31 4-46-45 4-48-20 4-50-20 6-00-00	s.	"	"	km.	
					impetus strong			•15 cms.	
27	156	18/19	ca P F	23-43-10 0-05-00					
27	157	23	ca P F	6-40-00 6-44-00					
27	158	23	i P ca F	12-01-15 12-50-00					
27	159	23	ca P Max ca F	13-01-05 13-07-00 13-25-00					
27	160	23	ca P PR1 PR2 3 PcP S PcS SR1 SR2 SR3 L ca F	20-20-21 20-21-50 20-22-00 20-22-25 20-22-45 20-26-00 20-26-20 20-29-00 20-29-20 20-29-40 20-31-05 21-40-00				Max •6 cms amplitude.	
27	161	24	ca P ca F	11-55-00 12-35-00				•2 cms amplitude.	
27	162	28	i P ca F	5-51-30 6-21-00					
27	163	Nov 2	ca P ca F	1-46-00 2-31-00					
27	164	2	e P PcP PR1 2 3 S SR1 L ca F	10-13-40 10-14-15 10-16-21 10-17-50 10-18-35 10-22-30 10-27-55 - 13-20-00				4700 m	
27	165	2	eP PR1 S SR1	17-10-10 17-11-40 17-16-00 17-18-55		?L L Max ca F	17-21-15 17-21-55 17-25-00 19-45-00	to	8.5

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

International
Seismological
CentreFrom November 2 1931 to December 7th 1931 No. ~~Sixteen~~ Fifteen.

	No.	DATE. 1931	PHASE.	TIME.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
				h. m. s.	s.	μ	μ	km.	
27	166	Nov 2	ca P F	22-53-00 23-45-00					Slight tremor.
27	167	4	ca P F	17-39-00 18-10-00					
27	168	5	ca P F	7-45-00 8-04-00					Very slight movement.
27	169	5	ca P	13-00-00 13-20-00					
27	170	6	ca P M ca F	4-15-30 4-17-30 4-30-00					
27	171	11	ca P F	4-12-00 4-30-00					Very faint movement.
27	172	11	ca P F	16-42-00 17-15-00			"		
27	173	18	ca P ca F	3-51-00 5-00-00					
27	174	20	e P PR1 PR2 3 i S SR1 2 L ca F	14-25-20 14-27-05 14-27-45 14-28-00 14-32-00 14-35-20 14-36-00 14-39-00 16-15-00					Max 2.85 cms at 14-43-00.
27	175	21	caP F	7-06-00 7-46-00					
27	176	22	ca P F	12-47-00 13-32-00					
27	177	23	ca P F	17-44-00 18-12-00					
27	178	26	ca P ca F	12-12-00 13-32-00					Max at 12-48-00
27	179	Dec 1	ca P ca F	3-34-00 4-40-00					
27	180	1	ca P F	18-21-00 19-25-00					
27	181	6	ca P ca F	4-21-00 5-14-00					
27	182	7	ca P F	19-04-30 20-06-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

International
Seismological
Centre

From December 7th 1931 to December 30th 1931 No. Seventeen.

	No.	DATE. 1931	PHASE.	TIME. G.M.T.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						Ae. μ	An. μ		
27	183	Dec 13	ca P	h. m. s. 15-50-00 16-06-00					
27	184	16	ca P F	4-26-00 4-50-00					
27	185	18	P S L ca F	9-55-20 - 10-00-00 12-27-00				Lost in hour break.	
27	186	21	ca P F	10-42-00 11-00-00					
27	187	22	ca P ca F	13-33-00 13-38-00					
27	188	22	ca P F	13-33-00 13-38-00					
27	189	25	P S SR1 2 3 L M ca F	3-10-00 3-14-50 3-16-05 3-16-17 3-16-31 3-17-43 3-18-25 5-00-00				2 cms.	
27	190	27	ca P F	13-33-00 13-46-00					
27		28 29		Clock stopped at 9-15-00 started 1-12-00				No record between these times.	
34		28/29		The Milne record shows no disturbance during the above period.					
27	191	29	ca P ca F	16-52-00 17-23-00				Slight movement	
27	192	30	ca P	0-39-00 1-30-00				Slight Seismic Movement	
Note. The number of Earth quake movements recorded during 1931 is an increase of 80% of the average for the two years 1929 and 1930.									