

PERTH, WESTERN AUSTRALIA.

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 11 Sept 24
27	12.00	20 to 1	250	N-S	1" = 1.72	mm 18 May 25

From January 1st 1928 to January 6th 1928 No. 1

	No.	DATE. 1928	PHASE.	TIME. G.M.T.			AMPLITUDE.		DISTANCE. km.	REMARKS.
				h.	m.	s.	AE.	AN.		
27	1.	1927 Dec 31 - 1928 Jan 1.	e P i S L M1 2 ca F	23-19-10 23-23-32 23-24-55 23-27-04 23-28-11 00-49-00			cms cms			Microcisms Small
27	2.	Jan 1.	Slight movement recorded. ca 19-7-00 to 19-14-00				No phases.			
27	3.	4.	e P i S L M1 2 ca F	21-33-25 21-39-35 21-46-48 21-49-25 21-51-40 23-20-00						
27	4.	6.	e P e S L L F ca	19-45-15 19-54-35 20-07-25 20-50-00 21-10-00	15 secs		.68 cms			
27	5.	7	Slight movement recorded :- 19-04-00 to 19-30-00				Max. .28 cms			Period 10 secs
27	6.	10	e P ? L M1 F ca	5-27-10 5-38-10 5-37-20 6-05-00						

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From January 10th 1928 to Feb 7- 1928

No. Two.

International
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	No.	DATE. 1928	PHASE.	TIME. G.M.T.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						Ae.	An.		
				h. m. s.		cms	cms		
27	7	Jan 12	Slight	Seismic Movement :-		ca		14-05-00	to 14-29-00
27	8	. 19/20	ca P	23-04-5					
			e S	23-10-50					
			e L	23-15-00					
			M1	23-18-30			.5		
			ca F	00-05-00					
27	9	. 20		Slight movements recorded :-				10-59-00	to 11-17-00
						ca.		18-05-00	18-19-00
		. 20	? P	21-37-00					
			M1	21-38-00					
			ca F	22-05-00					
27	10	. 26	e P	21-58-05					Exceptionally
			e PR	21-59-07					Clear Record
			e PR	-25					
			i S	21-03-20					Microcisms small.
			i L	22-05-45					
			M1	22-06-30	12				
			2	22-08-45	12		.22		
			3	22-09-20					
			4	22-10-45	10		.81		
			ca F	23-29-00					
27	11	30	e P	3-23-00					Microcisms Heavy
			e S	3-31-00					
			(L	3-37-00					Impossible to
			(L	3-38-05			.2		determine phases
			ca F	4-30-00					accurately
27	12	Feb 4	? iP	6-22-11					P Doubtful.
			S	-					
			i L	6-30-40					
			M1	6-31-42			2 cms		
			2	6-32-20			1.9		
			3	6-33-38			1.8		
			ca F	7-45-00					
27	13	5	Seismic movement	No Phases.					
			ca 23-10-00	to 23-40-00				.2 cms max amplitude	
27	14	6	P	-					
			DO	4-06-05					Probably "S"
			Max movement	.64 cms				Period 15-20	
			L	-					
			F	-					Light failed
27	15	7	e P	00-09-07					
			e PR	00-10-37					
			i S	00-16-00					
			i L	00-18-35					
			M1	00-20-25	10-12		2.3		
			2	00-24-30			2.6		
			ca F	02-30-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From Feb 7th 1928 to March 10th 1928

No. Three International Seismological Centre

	No.	DATE. 1928	PHASE.	TIME. G.M.T.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						Ae.	An.		
27	16	Feb 12	Seismic	h. m. s. movement :-	s.	ca 15-23-00	km.	to	15-45-00.
27	17	13	e P e L ca F	16-44-45 45-15 17-30-00	12		.29 cms.		
27	18	16	DO	7-40-36 Probably "P" Slight continuous movement until ca 8-5-00.					DO = Distinct off-set.
27	19	17	e P ca S ? L ? L M 1 F ca	12-54-00 Lost in hour break. 13-02-35 13-03-10 13-04-30 45-00			.9 cms.		
27	20	21	Small	Continuous movement :- 20-13-00 to 22-00-00 max. period 20 secs.					
27	21	22	Small	Continuous movement :- 20-13-00 to 22-00-00 ca					
27	22	23	Small	movement :- 19-15-00 to 19-28-00 ca.					
27	23	25	e P e S e L e L M 1 ca F	11-05-12 11-09-10 11-10-32 11-11-00 11-30 53-00			1.16 cms		
27	24	28	Movement recorded :-	8-51-00 to 9-30-00 period 20" .2 cms amp.					
27	25	29	? P ? PR S e L ca F	- 22-05-50 09-30 12-00 23-30-00	7		.72 cms		
27	26	Mar 3	Slight	Movement at 19-12-00 to 19-27-00.					
27	27	7	1 P 1 P ? F	8-46-10 25 -					E.Q. Sicily
27	28	9	1 P 1 S 1 SR L Max movement	18-12-55 18-55 20-45 - continuous				2700 mile.	
27	29	10	Small	movement recorded 2-34-00 to 3-8-00 max movement .39 cms.					amplitude. 5 to 1 cms.

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From March 10th 1928 to April 9th 1928

No. F. J. A.

	No.	DATE. 1928	PHASE.	TIME.			PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
				G.M.T.	h.	m.		s.	AE.		
								μ	μ	km.	
27	29a	Mar 11-2	Electric Light failure. No record for 24 hrs.								
	30	" 13	e P	18-46-15							
			i S	18-46-25					1.9 cms		
			i L	18-49-25							
			M1	18-53-10					2.7 cms		
27	31	" 16	i P	5-09-54							Continuous Max movement long waves makes it difficult to measure other phases
			i S	5-17-04							
			i SP	5-16-30							
			M	Continuous oscillations for approx 60 secs with average amplitude of 7.5 cms							
			ca F	8-50-00							
27	32	" 17	Tremor movement				3-23-00	ca	eP		
							3-43-00	ca	F		
27	33	" 18	e P	12-22-00		25"					
			e L ?	12-25-50		15"	.58 cms.				
			ca F	13-20-00							
27	34	" 22	e P	4-36-55							
			(S	45-57							
			(S	46-15							
			L	"							
			ca F	7-15-00							
27	35	" 23	Very small irregular movement.								
			eP	20-25-00		ca					
			F	21-00-00							
27	36	" 26	? P	5-33-00							
			PR	5-35-30							
			S	5-38-45							
			L	5-42-45							
			ca F	6-30-00							
27	36a	" 26	Slight movements recorded at :-								
				6-50-00		to	7-30-00				
				8-13-00			9-00-00			time only approx.	
				10-00-00			10-26-00				
27	37	" 27	i P	14-42-40							
			i P	-45							
			i S	46-55							
			e L	48-40					.6 cms		
			ca F	15-15-00							
			A small movement also recorded at 19-26-00 to 20-00-00								
27	38	April 2	Small movement at 22-40-00 L probably at 22-40-00								
		3	Max period of 15 secs at 11-17-00								
27	39	9	e P	18-16-00		ca.					P very uncertain
			M	18-43-20		ca to 18-57-00	ca				
			Amp .25 cms period 20 secs.								
			ca F	20-00-00							

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From... April 9th 1928 to June 15 th 1928

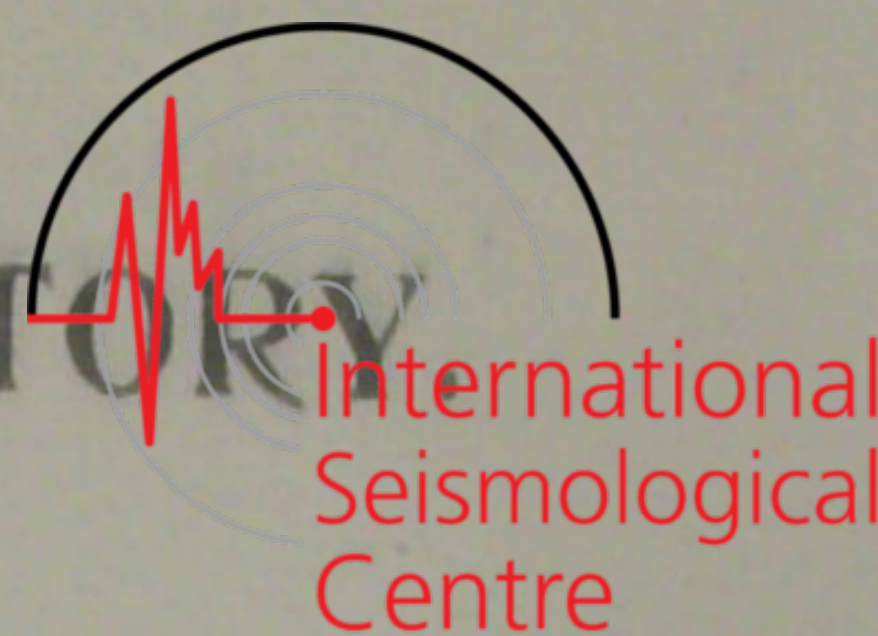
No... FIVE



	No.	DATE. 1928	PHASE.	TIME. G.M.T.			AMPLITUDE.		DISTANCE.	REMARKS.
				h.	m.	s.	PERIOD.	AE.		
							s.	μ	CMS	km.
27	40	April 10	Slight displacement of Boom from 11-14-00 to 11-21-00 ca							
27	41	14	" 9-46-00 to 10-45-00 ca							
27	42	17	Continuous movement 3-45-00 to 5-30-00 No phases.							
27	43	18	e P ?	17	15	30				Distant disturbance probably.
			ca F	17	24	00				
27	44		i P	19	57	50				
			ca F	21	30	00				
27	45	27	Slight movement recorded at 20-40-00 to 21-00-00 ca							
27	46	May 14	? P	3	09	21				Sudden increase in period to 20 seconds .25
			M1	3	14	40				
			ca F	3	30	00				
27	47	15	Small movements recorded :-							
			ca	3	34	00	to	4	20	00
				6	30	00	to	7	00	00
	48	23	? P	21	08	45				Increase in period from 10 secs to 22-25 secs.
				21	13	10				
			ca F	21	34	00				
34	49	28	? P	7	16	20				Milne Shaw failed
34	50	June 1	? P	23	35	20				Do.
27	51	2	e P	2	13	25				
			S							
			i L	2	18	25				Max movement .66 cms
			ca F	2	50	00				Period 10-12 seconds.
		3/4	These two sheets show displacements of trace at intermittent periods- Du probably to an insect.							
27	52	8	? P	15	13	00				Period 15 secs .35 cms amplitude.
			ca F	15	39	00				
27	53	15	e P	6	17	50				
			i PR1	20	50					
			i S	27	00					
			i S	27	32					
			SR1	30	50					SR2 6-34-09
			L	36	40					period 10/15 secs.
			M1	6	37	96				amp 1.4 cms M2 6-38-40 amp. 1.3 cms
			M2	6	41	15				1.35 "
			ca F	8	00	00				
27	54	June 15	e P	17	24	20				
			i S1	17	31	18				
			i S2	31	30					
			L1	17	40	40	10.15			.75 cms
			2	41	45					
			ca F	18	45	00				

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY



From June 15 th 1928 to July 9 th 1928 No. SIX

	No.	DATE. 1928	PHASE.	TIME.			PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.	
				G.M.T.				Ae.	An.			
				h.	m.	s.	s.	μ	cms	km.		
27	55	June 16	? P	18	34	00	ca				Seismic movement of small amplitude. Phases hidden by microseisms	
			? S	18	39	45	ca					
			? L	18	47	50						
			ca E	19	00	00						
27	56	17	? P	3	29	30					Trace has appearance of two or more qu overlapping	
			Sheet changed at 3-55-00. Occurred while changing sheet									
			i S	8	21	00	20-25		1.7	cms		
			ca M	4	34	50			1.43			
					33	00			2.13			
					49	20			2.7			
					51	10			3.46			
					52	10			3.44			
27	57	18	? E	13	10	00					Small irregular movement	
			ca E	13	32	00						
27	58	21	e P	4	11	00	12-20				max amplitude .41 cms Sinusoidal waves	
				4	24	00						
27	59	21	e S	10	58	15					L uncertain	
			i S	11	05	14						
			? S	11	10	15						
			M L	11	11	45			1.86			
				11	13	30			2.08			
				11	14	30			2.10			
				11	15	25			1.85			
				11	20	10			1.98			
				11	20	40			2.4			
				11	23	50			1.6			
				11	27	10			2.03			
			ca E	13	00	00						
27	60	21	e P	13	55	55					Continuous irregular waves with max amplitude of .39 cms	
			ca E	13	57	00	30"					
27	61	29	e P	lost in microseisms							Probably at 22-59-00	
				23	06	30						
				22	25						A series of 23 Max movements from 23-19-00 to 23-26-00	
			ca E	1	00	00						
27	62	July 9	P	21	32	15					Cabled B.A.S.C. 094/52132/15403	
			P			55						
			i S	21	38	53						
			SR L			42	30					
			i L			46	50					
			M L	22	48	50			3.75			
						50			4.05			

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From July 8th 1928 to August 31st 1928

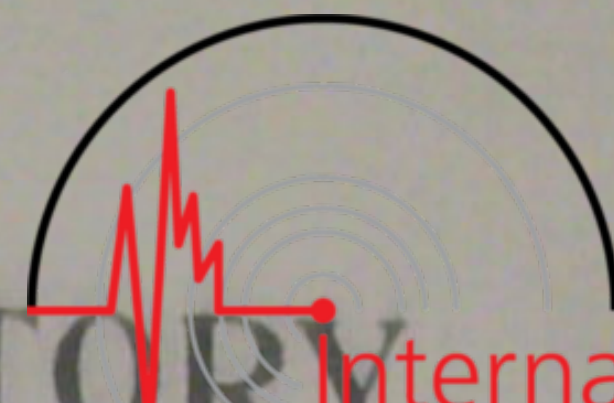
No. Seven



	No.	DATE. 1928	PHASE.	TIME. G.M.T.	PERIOD.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						Ae.	An.		
27	63	July 13	Small irregular movement	h. m. s. 20-06-00	s. 15-20	μ	μ	km.	
			ca P	20-06-00					
			DO 1	6-26					
			2	8-30					
			3	9-35					
			ca F	20-17-00					
		July 14/15	Milne-Shaw clock failed No seismic movements on Milne.						
		16-17	Electric light failure due to storm No record from 18-51-25 July 16 to 1-16-50 17						
		17-18	Electric light failure due to storm No record between 4-12-40 and 5-0-0 8-30-00 00-57-30						
27	64	18	e T	20-16-10					Microseisms
			e PR	20-18-30					•64 cms amplitude
			e S	22-00					10 cycles per min
			? SR	26-40					
			? L	29-50	15-20				
			ca F	21-20-00					
27	65	23	? P	-					
			? S	7-53-55					
			? L	7-58-40					
			ca F	8-55-00					
27	66	26	P	-					Microseisms
			i S	12-20-08					Max amp. •23 cm
			SR	24-00					10 cycles per min
			e L	28-50					
			ca F	13-00-00					
27	67	Aug 3	Small irregular movement at 18-50-00 ca to 19-20-00						
27	68	4	Earth quake movement recorded for approx 2 hours between 20-00-00 to 22-00-00 ca but overlapping of the two prevents deciphering						
27	69	12	iS	8-15-45					No P movement
			L1	8-21-45					
			L2	8-23-20					
			M1	25-10			1.2		
			2	25-45			1.1		
			ca F	9-20-00					
27	70	24	? P	21-51-35					
			e PR	55-05					
			i S	59-10					
			i SR1	22-03-00					
			i 2	22-04-05					
			L	22-07-20					
			ca F	23-00-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.



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From.....August.....31st.....1928.....to.....September 30th..... No. Eight.....

	No.	DATE. 1928	PHASE.	TIME. G.M.T.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						Ae.	An.		
27	71	Sept 1	Small	h. m. s. irregular seismic movement.	s.	μ	μ	km. 6-36-00 to 7-15-00	
27	72	6		Do.				ca P 9-26-00 ca F 9-35-00	
27	73	7	e P i S e SR1 e SR2 L ca F	2-55-12 3-02-45 3-07-05 3-08-30 - 4-00-00					
27	74	11	Small	Irregular	Seismic movement			ca P 13-41-00 to ca P 13-51-00	
27	75	12	e DO1 e DO2 ca F	1-35-45 1-38-30 2-45-00					DO1 may be "P"
27	76	13	e P e PR1 i S e SR1 L L ca F	3-33-10 3-35-00 3-39-00 3-40-40 3-44-05 3-45-15 4-20-00					
27	77	13	ca P ca F	21-16-00 22-00-00				Distant E-2	No phases.
		15	Light	fallum with Milne-Shaw					No seismic movements registered on Milne.
27	78	22	e P i S i L M1 2 3 4 ca F	7-40-45 7-47-25 7-55-00 7-59-35 8-01-30 8-03-30 8-04-20 9-30-00				2.1 cms 1.9 1.9 1.6	
27	79	24	Small	Irregular	Seismic movement.				
			ca P ca F	9-24-00 9-40-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

International
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From.....September 30.....to.....October 31st.....

No.....Nine.....

	No.	DATE. 1928	PHASE.	TIME. GMT			PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
				h.	m.	s.		AE.	AN.		
27	80	Oct 9	P1	3	20	45					
			2		20	55					
			DO	1	3	36-25					
				2	3	43-27					
				3	3	44-05					
			? S		3	50-40					
			SR1		3	57-30					
				2	4	02-15					
			L		4	11-00					
			ca F		6	30-00					
27	81	9	ca P		14	58-00					
			ca F		15	30-00					
27	82	10	ca P		20	51-00	Small Irregular				
			F		21	30-00					
27	83	13	? P		17	23-80					
			1S		17	29-20					
			? L		17	32-10					
			ca F		18	00-00					
27	84	15	? eB		8	38-30					
			SP		8	45-25					
			1 S		8	45-00					
			SR		8	48-25					
			SR			45					
			L		8	53-12					
			ca F		9	50-00					
27	85	15	DO1		14	41-40	No phases recognised but four t				
			2		14	56-00	given where phases may exist				
			3		15	02-30					
			4		15	05-40					
			ca F		15	50-00	DO = Distinct offset.				
27	86	17	ca P		15	50-00	ca F		16	50-00	Small Seismic movement
27		18	Electric light failure 6-30-00 to 8-12-40.								
27	87	19	ca P		7	23-15	-	ca F		7	34-00 Small Seismic movement
27	88	19	e		11	42-20					
			e		11	43-08					
			i			52					
			L		11	49-10					
			L		11	48-30					
			M1		11	50-30					
			2		11	56-40	15-20			0.6 cms	
			ca F		13	00-00					
27	89	21	ca P		16	32-00	A seismic movement recorded but				
			ca F		16	52-00	the phases are hidden by heavy				
							microseisms				
							Microseisms 10 cycles per minute				
							Max amplitude 0.75 cms.				

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From.....November 5th.....to.....November 29th No.....128



	No.	DATE. 1928	PHASE. G.I.T	TIME. h. m. s.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						Ae.	An.		
27	90	Nov 5	e F ca	15-21-00		μ	μ		Small Irregular Movement.
			F ca	16-11-00					
27	91	7	e F	4-13-35					
			? IR	4-16-05					
			1 S	4-20-52					
			SR 1	4-24-30					
			L	4-29-00					
			M 1	4-32-10					
			2	33-58					
			3	34-16					
			4	35-20					
			5	39-20					
			ca F	6-25-00					
27	92	9	e P ca	13-18-00					Small irregular movement
			F ca	13-51-00					
27	93	10	e P ca	4-49-00					Irregular Seismic movement
			F ca	5-40-00					
27	94	11	e I ca	22-56-45					Small irregular movement
			F ca	00-00-00					
27	95	17	e P	10-43-00					
			F ca	11-10-00					
27	96	18	e F	6-03-30					
			F ca	7-00-00					
27	97	19	e P	15-50-00					
			? L	15-54-25					
			F ca	16-35-00					
27	98	20	P	20-56-05					No other distinct phases.
			L	21-38-00					
			F ca	23-00-00					
27	99	22	e P	8-43-00					
			1 S	8-53-00					
			L 1	9-07-00	25				
			2	9-07-50	25				
			ca F	10-25-00					
27	100	23	e P	8-25-00					
			ca F	9-00-00					
27	101	25	e I	21-00-00					
			ca F	21-15-00					
27	102	28	1 P	10-48-25					Cabled to FASC 28/51048/25275
			1 S	10-55-00					
			L	-					
			V	From 10-55-00 to 11-08-00					
			ca F	13-20-00					
27	103	29	e P	14-26-00					
			ca F	14-53-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY



From..... November 29th

to..... December 9th

No..... Eleven

	No.	DATE. 1928	PHASE.	TIME. G.M.T.	PERIOD.	AMPLITUDE.		DISTANCE.	REMARKS.
						AE.	AN.		
				h. m. s.	s.	μ	μ	km.	
27	104	Nov 29	eP	16-06-00					
			ca F	16-58-00					
27	105	29	ca P	18-11-50					
			ca P	18-13-50					
			e S	18-18-15					
			e S	18-30-00					
			SR1	18-23-00					
			2	18-24-35					
			L	18-30-55					
			M1	18-39-00					
			ca F	20-00-00					
27	106	29-30	ca P	23-19-00		Seismic movement. no phases.			
				1-32-00					
27	107	Dec 1	e P	4-25-40					
			i S	4-35-20					
			L	4-41-40					
			E	5-00-00					
			S	5-07-00					
			M	5-12-30	to				
				5-14-30	20"				
			M2	5-16-00			3.5 cms		
			3	5-21-40			2.95 .		
			ca F	7-45-00			2.4 .		
27	108	2	e P	4-40-00					
			L	5-18-00					
			Max	5-26-00	to 5-36-00				
			ca F	7-30-00					
27	109	7	i P	9-20-41					
			PR1	9-22-00					
			2	9-22-20					
			S1	9-25-50					
			2	9-26-05					
			SR1	9-27-22					
			2	9-27-51					
			L	9-31-00					
			M1	9-35-00	M3		9-37-50		
			M2	9-36-00	4		9-41-60		
			ca F	11-24-00					
27	110	8	ca P	17-12-00					
				17-52-00					
27	111	9	e P	00-06-00					
			e S	00-12-35					
			SR	00-16-00					
			L	00-21-00					
			ca F	01-50-00					
27	112	9	ca P	2-13-00					Small Irregular movement
			ca F	4-51-00					
27	113	9	ca P	5-19-45					
			Electric Light failure						5-22-00 to 6-02-00
			ca F	7-20-00					

PERTH, WESTERN AUSTRALIA.

SEISMOLOGIC STATION, PERTH OBSERVATORY.

From.....December.....9th.....to.....December.....31st.....

No.....Twelve.....



	No.	DATE. 1928	PHASE.	TIME. G. M. T. h. m. s.	PERIOD. s.	AMPLITUDE.		DISTANCE. km.	REMARKS.
						AE. μ	AN. μ		
27	114	Dec 9	ca P	18-19-00				"P"	Uncertain
			S	18-25-40					
			S	18-27-05					
			SR	18-29-00					
			L	18-32-20					
			L	18-33-25					
			ca F	20-03-00					
27	115	10	ca P	4-46-00					
			ca F	5-21-00					
27	116	12	e P	20-31-45					
			S	20-39-40					
			SR	20-44-00					
			L	20-48-45					
			M1	20-53-45					
			2	20-55-20					
			ca F	22-30-00					
27	117	13	e P	2-34-00					
			ca F	2-56-00					
27	118	19	e P	11-45-00					
			i S	11-50-30					
			L	11-56-00					
			M1	12-01-30					
			2	12-04-00					
			3	12-08-45					
			ca F	15-00-00					
27	119	20	ca P	5-32-00					
			ca F	5-44-00					
27	120		i P	14-27-15					Phases sharply defined.
			i Pr1	14-28-50					
			i Pr2	14-29-10					
			i S	14-33-20					
			i SR1	14-36-20					
			i L	14-39-20					
			ca P	16-05-00					