

SEISMOGRAPH RECORDS

For the Month of January, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry.

Seismograph Milne-Shaw recording E-W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7762-1922-300 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A_E μ	REMARKS.
		h.	m.	s.			
/ January 9	P	17	42	02	8	± 20	
	S	17	44	53			
	M	17	48	58			
	F	19	06	\pm			
/ " 18	iP	12	18	41	19	± 76	
	Pr	12	22	21			
	S	12	28	58			
	M	13	05	16			
	F	15	45	\pm			
/ " 28	eP	4	18	15	19	± 21	
	S	4	28	42			
	M	5	02	30			
	F	7	29	\pm			

Smaller tremors were also recorded at 2^d 23^h, 3^d 8^h, 3^d 19^h, 6^d 11^h,
6^d 15^h, 9^d 16^h, 13^d 14^h, 14^d 1^h, 17^d 10^h, 18^d 20^h, 19^d 9^h, 21^d 18^h,
26^d 19^h, 27^d 8^h, 28^d 11^h, 30^d 17^h, 31^d 16^h.

SEISMOGRAPH RECORDS

For the Month of February, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry.

Seismograph Milne-Shaw recording E-W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7762-1922-300 ex.

DATE 1925.	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A_E μ	REMARKS.
		h.	m.	s.			
/ February 2	iP	19	59	34	16	± 14	
	S	20	10	02			
	M	20	43	19			
	F	23	35	\pm			
/ " 2	P	13	41	58	16	± 9	
	S	13	52	23			
	M	14	26	08			
	F	16	33	\pm			
/ " 16	e	17	54	00	17	± 28	
	S	18	04	08			
	M	18	27	42			
	F	20	14	\pm			
/ " 20	P	1	15	08	22	± 41	
	S	1	25	27			
	M	1	59	04			
	F	4	02	\pm			

SEISMOGRAPH RECORDS

For the Month of February, 1925..

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 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director F.A. Curry

Seismograph Milne-Shaw recording E-W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7762-1922-300 ex.

DATE 1925 .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.
		h.	m.	s.			
/ February 24	eP	0	06	55	22	± 12	
	S	0	17	30			
	M	0	51	35			
	F	2	58	\pm			
<p>Smaller tremors were also recorded at 1^d 5^h, 1^d 16^h, 2^d 10^h, 2^d 12^h, 2^d 18^h, 3^d 17^h, 3^d 18^h, 7^d 12^h, 9^d 7^h, 9^d 14^h, 13^d 14^h, 17^d 6^h, 17^d 11^h, 18^d 12^h, 20^d 8^h, 21^d 20^h.</p>							

SEISMOGRAPH RECORDS.

For the Month of March, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director F.A. Curry

Seismograph Milne-Shaw recording E—W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 5040-1923-320 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
March 1	iP	2	31	02			
	iS	2	40	43			
	M	3	03	54	17	± 8	
	F	5	10	\pm			
" 7	P	18	38	50			
	S	doubtful					
	M ₁	19	02	42	17	± 15	
	M ₂	19	03	26	17	± 15	
	F	20	06	\pm			
" 16	P	14	52	22			
	S	15	00	44			
	M	15	24	50	22	± 36	
	F	17	40	\pm			
" 22	eP	9	01	16			
	S	9	04	22			

There appear to be two earthquakes superposed on the record.

The maximum amplitude occurred as follows:

M	10	17	41	17	± 35
F	12	20	\pm		

Smaller tremors were also recorded at 1^d 12^h, 3^d 5^h, 8^d 2^h, 12^d 1^h, 14^d 3^h,
 15^d 14^h, 15^d 16^h, 16^d 11^h, 16^d 23^h, 17^d 15^h, 19^d 15^h, 21^d 16^h, 22^d 14^h,
 23^d 22^h, 24^d 5^h, 26^d 10^h, 27^d 23^h, 29^d 21^h.

SEISMOGRAPH RECORDS.

For the Month of April, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry

Seismograph Milne-Shaw recording E—W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
/ April 5	eP	3	06	35	5	± 19	
	S	3	07	48			
	M	3	07	58			
	F	3	50	\pm			
/ " 11	P	10	53	09	15	± 79	
	S	11	02	30			
	M	11	26	45			
	F	14	40	\pm			
/ " 16	P	20	04	45	22	± 68	
	S	20	14	41			
	M	20	41	56			
	F	23	05	\pm			

Smaller tremors were also recorded at 1^d 18^h, 2^d 14^h, 2^d 17^h, 4^d 23^h,
5^d 3^h 58^m, 5^d 22^h, 6^d 8^h, 7^d 18^h, 12^d 19^h, 15^d 5^h, 15^d 6^h, 15^d 13^h,
19^d 16^h, 19^d 17^h, 22^d 23^h, 23^d 19^h, 25^d 13^h, 26^d 8^h, 30^d 12^h.

SEISMOGRAPH RECORDS.

For the Month of May, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry

Seismograph Milne-Shaw recording E—W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 5040-1923-329 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
/ May 3	P	17	35	03	22	± 80	
	S	17	45	33			
	M	18	19	56			
	F	20	25	\pm			
/ " 3	eP	23	10	09	15	± 61	
	S	23	19	10			
	M	23	42	52			
	F	2	40	\pm			
/ " 5	eP	10	18	54	18	± 33	
	S	10	29	35			
	M	11	10	12			
	F	14	05	\pm			
/ " 5	P	23	34	24	21	± 37	
	P _{r1}	23	38	26			
	P _{r2}	23	42	14			
	S	23	44	55			
	M	0	18	59			
	F	2	10	\pm			

SEISMOGRAPH RECORDS.

For the Month of May, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry.

Seismograph Milne-Shaw recording E—W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 5040-1923-320 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD, s.	AMPLITUDE A _E .	REMARKS.
		h.	m.	s.			
/ May 19	IP	5	34	51			
	S	5	43	54			
	M	6	02	32	@ 21	± 37	@ Doubtful Maximum as papers changed from 6 ^h 4 ^m to 6 ^h 12 ^m .
	F	8	50	±			
" 20	IP	23	27	45			
	M	23	27	58	< 4	± 12	Local Earthquake felt in Cairo and Helwan.
	F	23	35	±			
" 28	P	6	06	22			
	S	6	16	36			
	M	6	36	00	18	± 24	Paper changed from 6 ^h 41 ^m to 6 ^h 50 ^m .
	F	8	20	±			
Smaller tremors were also recorded at 2 ^d 3 ^h , 4 ^d 4 ^h , 4 ^d 11 ^h , 6 ^d 5 ^h , 6 ^d 9 ^h , 7 ^d 12 ^h , 7 ^d 15 ^h , 7 ^d 18 ^h , 7 ^d 23 ^h , 13 ^d 22 ^h , 14 ^d 0 ^h , 15 ^d 12 ^h , 16 ^d 2 ^h , 16 ^d 10 ^h , 18 ^d 7 ^h , 19 ^d 4 ^h , 20 ^d 11 ^h , 22 ^d 10 ^h , 23 ^d 2 ^h , 24 ^d 1 ^h , 25 ^d 4 ^h , 25 ^d 17 ^h , 26 ^d 15 ^h , 27 ^d 2 ^h , 28 ^d 3 ^h , 30 ^d 17 ^h .							

SEISMOGRAPH RECORDS.

For the Month of June, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P. A. Curry.

Seismograph Milne-Shaw recording E—W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 5040-1923-320 ex.

DATE 192 <u>5</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE	REMARKS.
		h.	m.	s.		A _E .	
/ June 3	P	4	47	12			
	S	4	57	38			
	M	5	32	0	22	± 74	
	F	7	49	\pm			
/ 9	e	13	55	7			
	PR	13	59	37			
	S	14	6	3 ?			
	M	14	46	46	20	± 18	
	F	17	18	\pm			
/ 20	e	13	10	35			
	is	13	15	40			
	F	14	17	\pm			
/ 28	e	1	34	47			
	S	1	45	20			
	F	7	0	\pm			

Smaller tremors were also recorded at 1^d 0^h, 2^d 5^h, 4^d 12^h,
 7^d 23^h, 10^d 16^h, 11^d 16^h, 12^d 11^h, 13^d 20^h, 14^d 21^h, 14^d 22^h, 19^d 8^h,
 19^d 17^h, 22^d 14^h, 23^d 4^h, 23^d 17^h, 24^d 0^h, 25^d 17^h, 28^d 6^h, 28^d 13^h,
 29^d 15^h, 30^d 5^h, 30^d 21^h.

SEISMOGRAPH RECORDS.

For the Month of July, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P. A. Curry.

Seismograph Milne-Shaw recording E-W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1934-429 ex.

DATE 192 <u>5</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
July / 6	eP	12	18	28			
	1S	12	20	20			
	F	13	09	\pm			
/ 30	e	18	47	24			
	P _R	18	50	43			
	1S	18	53	8			
	M	18	55	26	8	\pm 11	
	F	19	46	\pm			
<p>Smaller tremors were also recorded at 4^d 9^h, 4^d 23^h, 5^d 7^h, 7^d 8^h, 7^d 14^h, 7^d 17^h, 8^d 15^h, 8^d 19^h, 10^d 18^h, 11^d 22^h, 17^d 3^h, 17^d 17^h, 17^d 21^h, 24^d 3^h, 26^d 2^h, 28^d 5^h, 28^d 9^h, 29^d 6^h, 31^d 9^h.</p>							

SEISMOGRAPH RECORDS.

For the Month of August, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P. A. Curry

Seismograph Milne-Shaw recording E-W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 5040-1923-320 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
August / 7	e	6	48	40			
	S	6	50	05			
	F	7	55	±			
" / 19	P	12	20	17			
	S	12	30	44			
	M	12	43	43	21	± 63	
	F	15	47	±			
Smaller tremors were also recorded at 4 ^d 0 ^h , 5 ^d 5 ^h , 7 ^d 8 ^h , 8 ^d 3 ^h , 9 ^d 17 ^h , 11 ^d 17 ^h , 11 ^d 19 ^h , 11 ^d 20 ^h , 12 ^d 7 ^h , 14 ^d 4 ^h , 16 ^d 21 ^h , 18 ^d 3 ^h , 20 ^d 23 ^h , 24 ^d 2 ^h , 25 ^d 13 ^h , 30 ^d 13 ^h , 31 ^d 8 ^h , 31 ^d 10 ^h .							

SEISMOGRAPH RECORDS.

For the Month of September, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry.

Seismograph Milne-Shaw recording E—W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 5040-1923-320 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E .	REMARKS.
		h.	m.	s.		μ	
September 1	e	8	18	20			
	S	8	19	47			
	F	9	06	±			
" 24	P	4	43	29			
	iS	4	47	27			
	M	4	54	07	10	± 37	
	F	6	14	±			

Smaller tremors were also recorded at 5^d 16^h, 6^d 1^h, 10^d 13^h, 12^d 7^h,
 12^d 10^h, 12^d 14^h, 13^d 15^h, 14^d 9^h, 20^d 7^h, 24^d 14^h, 25^d 9^h, 25^d 15^h,
 25^d 18^h, 27^d 11^h, 29^d 17^h, 30^d 13^h.

Record lost from 20^d 9^h to 21^d 7^h.

SEISMOGRAPH RECORDS.

For the Month of October, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P. A. Curry.

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Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>5</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
October 12	e	5	55	46			
	S	6	4	58			
	M	6	26	15	15	± 11	
	F	8	26	\pm			
13	P	17	51	55			
	Pr	17	54	32			
	IS	18	1	8			
	M	18	25	22	16	± 147	
	F	21	30	\pm			
22	P	17	13	35			
	S	17	23	16			
	M	17	46	37	20	± 24	
	F	19	44	\pm			
Smaller tremors were also recorded at 1 ^d 2 ^h , 2 ^d 14 ^h , 5 ^d 4 ^h , 14 ^d 14 ^h , 14 ^d 17 ^h , 15 ^d 12 ^h , 18 ^d 8 ^h , 19 ^d 7 ^h 25 ^m local, 19 ^d 7 ^h 58 ^m local, 21 ^d 18 ^h , 23 ^d 2 ^h , 24 ^d 15 ^h , 25 ^d 0 ^h , 25 ^d 5 ^h , 30 ^d 15 ^h .							

N.B.- Information, for large earthquakes recorded, is now added to the Meteo. W/T messages sent out daily from Abu Zabal on wave length of 11000 meters at 9h. 55m. G. M. T. That for Oct. 13th. was sent on Oct. 14th.							

MINISTRY OF PUBLIC WORKS.

PHYSICAL DEPARTMENT.

OBSERVATORY,

HELWAN, EGYPT.

TELEPHONE No. 45 (HELWÂN)

November 18th, 1925

Earthquake recorded by Milne-Shaw Seismograph
at Helwan Observatory.

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Date	Phase	G.M.T.	Remarks
1925 Nov. 13	P	12h. 27m. 32 ^s .	
	S	12h. 37m. 33s.	

N.B.- We are now adding the information, for large earthquakes recorded, to the Meteo. W/T messages sent out daily from Abu Zabal on wave length of 11000 meters at 9h. 55m. G.M.T. That for Nov. 13th. was sent on Nov. 14th.

J. L. Forte
for Director

Helwan Observatory.

SEISMOGRAPH RECORDS.

For the Month of November, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

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Govt. Press 5040-1923-320 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE	REMARKS.
		h.	m.	s.		A _E . μ	
/ November 10	eP	14	04	10	16	± 40	doubtful S.
	eS	14	08	18			
	M	14	59	57			
	F	18	10	\pm			
" 13	iP	12	27	32	18	± 113	
	S	12	37	30			
	M	13	15	45			
	F	16	18	\pm			
Smaller tremors were also recorded at 1 ^d 12 ^h , 4 ^d 3 ^h , 5 ^d 9 ^h , 6 ^d 14 ^h , 6 ^d 19 ^h , 9 ^d 0 ^h , 12 ^d 16 ^h , 14 ^d 8 ^h , 14 ^d 10 ^h , 14 ^d 14 ^h , 14 ^d 22 ^h , 16 ^d 12 ^h , 17 ^d 0 ^h , 19 ^d 12 ^h , 22 ^d 1 ^h , 28 ^d 12 ^h , 28 ^d 16 ^h .							

SEISMOGRAPH RECORDS.

For the Month of December, 1925.

FROM HELWAN OBSERVATORY, EGYPT.

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director P.A. Curry.

Seismograph Milne-Shaw recording E-W motion.

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Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>5</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ	REMARKS.
		h.	m.	s.			
December 10	e	14	29	32	17	± 20	
	S	14	43	25			
	M	15	37	26			
	F	17	25	\pm			
" 18	P	5	57	32	8	± 43	
	IS	6	00	47			
	M	6	05	35			
	F	6	58	\pm			
" 22	P	5	16	05	20	± 23	
	S	5	24	37			
	M	5	46	24			
	F	7	20	\pm			

Smaller tremors were also recorded at 1^d 9^h, 5^d 9^h, 6^d 10^h, 7^d 8^h, 7^d 15^h,
 8^d 7^h, 9^d 9^h, 10^d ^{5^h}, 10^d 8^h, 11^d 1^h, 18^d 2^h, 18^d 9^h, 18^d 20^h, 19^d 16^h,
 26^d 18^h, 26^d 22^h, 27^d 10^h, 27^d 18^h, 29^d 2^h, 29^d 16^h, 30^d 7^h, 31^d 9^h