

# SEISMOGRAPH RECORDS.

For the Month of January, 1927

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<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7408 A, 1925-100 ex.

DATE 192 <u>7</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
January 24	e	1	25	10			
	s	1	28	00			
	M	2	58	46	19	$\pm 40$	This maximum appears to be another earthquake superposed on the trace
Smaller tremors were also recorded at 4 <sup>d</sup> 18 <sup>h</sup> 7 <sup>d</sup> 19 <sup>h</sup> 11 <sup>d</sup> 20 <sup>h</sup> 12 <sup>d</sup> 23 <sup>h</sup> 15 <sup>d</sup> 22 <sup>h</sup> 17 <sup>d</sup> 22 <sup>h</sup> 20 <sup>d</sup> 9 <sup>h</sup> 20 <sup>d</sup> 11 <sup>h</sup> 24 <sup>d</sup> 7 <sup>h</sup> 25 <sup>d</sup> 23 <sup>h</sup> 25 <sup>d</sup> 15 <sup>h</sup> 28 <sup>d</sup> 22 <sup>h</sup> 29 <sup>d</sup> 17 <sup>h</sup> 29 <sup>d</sup> 18 <sup>h</sup> 30 <sup>d</sup> 9 <sup>h</sup> 31 <sup>d</sup> 1 <sup>h</sup> .							



# SEISMOGRAPH RECORDS.

For the Month of February, 192 7

FROM HELWAN OBSERVATORY, EGYPT.

$\phi = 29^{\circ} 51' N$  ,  $\lambda = 31^{\circ} 20' E$  ,  $h = 115$  m.

Director P. A. Curry

Seismograph Milne-Shaw recording E-W motion  
Theoretical magnification = 250.  
Period of undamped pendulum = 12<sup>s</sup>.0.  
Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7408 A, 1925-100 ex.

DATE 192 <u>7</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
February 14	eP	3	47	18			
	S	3	50	29			
	M	-----					
	F	5	2				
16	P	1	48	13			
	P <sub>R</sub>	1	55	10			
	S	1	58	40			
	M	2	33	18	18	$\pm$ 60	
	F	-----					
28	e	14	27	25			
	S	14	37	5			
	M	15	18	46	22	$\pm$ 41	
	F	15	5				

Smaller tremors were also recorded at 1<sup>d</sup> 18<sup>h</sup> 3<sup>d</sup> 4<sup>h</sup> 4<sup>d</sup> 3<sup>h</sup> 7<sup>d</sup> 6<sup>h</sup>  
8<sup>d</sup> 9<sup>h</sup> 10<sup>d</sup> 13<sup>h</sup>?, 10<sup>d</sup> 21<sup>h</sup> 13<sup>d</sup> 4<sup>h</sup> 15<sup>d</sup> 11<sup>h</sup>?, ~~11<sup>d</sup> 13<sup>h</sup>?~~ 16<sup>d</sup> 13<sup>h</sup>?, 16<sup>d</sup> 14<sup>h</sup>  
18<sup>d</sup> 23<sup>h</sup>, 19<sup>d</sup> 23<sup>h</sup>, 21<sup>d</sup> 12<sup>h</sup>, 22<sup>d</sup> 20<sup>h</sup>, 23<sup>d</sup> 19<sup>h</sup>, 25<sup>d</sup> 16<sup>h</sup>, 26<sup>d</sup> 2<sup>h</sup>, 27<sup>d</sup> 0<sup>h</sup>.



# SEISMOGRAPH RECORDS.

For the Month of March, 1927

## FROM HELWAN OBSERVATORY, EGYPT.

$\phi = 29^\circ 51' N$  ,  $\lambda = 31^\circ 20' E$  ,  $h = 115$  m.

Director P.A. Curry.

Seismograph Milne-Shaw recording E-W motion  
Theoretical magnification = 250.  
Period of undamped pendulum = 12<sup>s</sup>.0.  
Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7408 A, 1925-100 ex.

DATE 192 <b>7</b>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE	REMARKS.
		h.	m.	s.		A <sub>E</sub> . $\mu$	
March 3	e	1	<del>29</del> <sup>10</sup>	31			
	<del>e</del>	1	28	53			
	M	2	3	45	16	$\pm 84$	
	F	4.3		$\pm$			
March 7	P	9	40	7			
	IS	9	50	22			
	M	10	26	26	22	$\pm 280$	
	F	13.4		$\pm$			
March 21	P	15	16	34			
	S	15	25	34			
	M	15	44	38	20	$\pm 23$	
	F	18.0		$\pm$			

Smaller tremors were also recorded at 3<sup>d</sup> 17<sup>h</sup> 9<sup>m</sup> 16<sup>s</sup>, 10<sup>d</sup> 14<sup>h</sup> 12<sup>m</sup> 12<sup>s</sup>,  
 12<sup>d</sup> 19<sup>h</sup>, 13<sup>d</sup> 6<sup>h</sup>, 14<sup>d</sup> 17<sup>h</sup>, 15<sup>d</sup> 17<sup>h</sup>, 15<sup>d</sup> 21<sup>h</sup>, 16<sup>d</sup> 14<sup>h</sup>, 18<sup>d</sup> 1<sup>h</sup>, 19<sup>d</sup> 21<sup>h</sup>,  
 20<sup>d</sup> 17<sup>h</sup>, 21<sup>d</sup> 10<sup>h</sup>, 21<sup>d</sup> 15<sup>h</sup>, 22<sup>d</sup> 0<sup>h</sup>, 22<sup>d</sup> 3<sup>h</sup>, 22<sup>d</sup> 8<sup>h</sup>, 23<sup>d</sup> 9<sup>h</sup>, 24<sup>d</sup> 14<sup>h</sup>,  
 24<sup>d</sup> 6<sup>h</sup>, 25<sup>d</sup> 4<sup>h</sup>, 25<sup>d</sup> 12<sup>h</sup>, 29<sup>d</sup> 22<sup>h</sup>, 29<sup>d</sup> 23<sup>h</sup>, 30<sup>d</sup> 15<sup>h</sup>, 31<sup>d</sup> 22<sup>h</sup>

Clock stopped March 6<sup>th</sup> 2 = 6

Record lost March 26<sup>th</sup> 3 = 6 7 = 13

Erratum. Small local tremor reported 5<sup>d</sup> 12<sup>h</sup> Sept. 1926.  
 should read 5<sup>d</sup> 13<sup>h</sup> 18<sup>m</sup> Sept. 1926.

## SEISMOGRAPH RECORDS.

For the Month of APRIL, 1927

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<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 7408 A, 1925-100 ex.

DATE 192 .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
April 1	eP	19	25	17	15	$\pm 8$	
	S	19	35	20			
	M	19	48	17			
	F	21.5					
April 14	M	7	33	16	20	$\pm 50$	P & S lost in changing papers.
	F	9.2					
April 19	eP	17	42	15			Of small amplitude No definite maximum.
	S	17	52	16			
Smaller tremors were also recorded at : 6d 2h36m. (local). 6d 19h.							
6d 20h. 7d 18h. 8d 12h. 9d 16h. 9d 17h. 10d 2h. 11d 22h.							
12d 23h. 13d 13h. 15d 16h. <sup>15d. 20h.</sup> <del>15d 16h.</del> 16d 8h-11h. 17d 7h.							
17d 9h. 18d 0h. 18d 15h. 20d 14h. 22d 7h.59m (local).							
22d 23h. 23d 13h. 24d 11h. 25d 7h. 27d 3h. 27d 17h. 27d 19h.							
28d 2h. 28d 21h, 30d 14h.							
Recorded lost April 26th. 0h - 4h.							

## SEISMOGRAPH RECORDS.

For the Month of M A Y, 1927.

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<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
/ May 9	P	10	36	47	7	$\pm$ 53	
	iS	10	40	51			
	M	10	48	24			
	F	12.5					
/ May 15	P	2	51	4	9	$\pm$ 7	
	E	2	54	6			
	M	3	4	17			
	F	3.9					
/ May 22	iP	22	42	39	24	$\pm$ 840	
	iS	22	50	42			
	M <sub>1</sub>	23	6	40			
	M <sub>2</sub>	23	12	42			
23		F	4.0		18	$\pm$ 390	
Smaller tremors were also recorded at :							2d 13h. 2d 22h. 3d 14h.
	9d 20h.	10d 3h(Local).	10d 6h.	10d 8h.	10d 21h.	11d 15h.	
	12d 19h.	13d 15h.	13d 17h.	13d 23h.	14d 20h.	16d 12h.	
	17d 6h.	17d 22h.	18d 1h.	19d 5h.	20d 11h.	21d 8h.	
	21d 17h.	22d 2h.	22d 12h.	23d 14h.	23d 22h.	24d 0h.	
	24d 12h.	25d 2h.	27d 14h.	28d 2h.	29d 10h.		

5

## SEISMOGRAPH RECORDS.

For the Month of J U N E, 1927.

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<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> .	PHASE.	TIME.	PERIOD.	AMPLITUDE A <sub>E</sub> .	REMARKS.
June 3	M P	8 <sup>h</sup> 9 <sup>m</sup> 52 <sup>s</sup> 11.1	25	$\pm 220$	P. & S. lost during change of paper.
June 5	P eS M/ F	8 26 26 8 27 30 8 28 6 9.2	5	$\pm 20$	
June 26	eP S F	11 24 16 11 26 56 12.6			No definite maximum
Smaller tremors were also recorded at . 2d 16h. 4d 20h. 6d 6h. 6d 18h. <del>7d 1h</del> 7d 17h (Local). 10d 18h. 11d 2h. 14d 17h 19d 0h. 20d 14h. 22d 0h. 24d 0h. 25d 9h. <del>25d 9h</del> 25d 20h 27d 12h. 28d 2h. 30d 13h.					

## SEISMOGRAPH RECORDS.

For the Month of JULY, 1927.

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<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 ex.

DATE 1927.	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
July 1	iP	8	21	19	7	$\pm 54$	Felt in Cairo and throughout Lower Egypt.
	iS	8	22	59			
	M	8	24	4			
	F	10.5h.					
July 7	eP	20	12	10	12	$\pm 13$	
	S	20	17	50			
	M	20	25	59			
	F	21.1h.					
July 11	iP	13	5	10	7	$\pm 430$	Felt in Egypt. "S" doubtful as trace <sup>c</sup> very faint owing to rapid movement.
	S	13	6	7			
	M	13	7	4			
	F	15.5h.					
July 17	e	8	8	10	2		Felt at Jerusalem.
	S	8	9	5			
	F	8.4h.					
July 22	P	3	59	37	5	$\pm 105$	Felt in Cairo.
	iS	4	3	31			
	M	4	7	54			
	F	7h.					
July 22	eP	8	42	11			
	S	8	46	7			
	F	10.0h.					
July 23	P	20	22	32	7	$\pm 56$	These two record are almost identical wave for wave.
	S	20	26	21			
	M	20	33	43			
July 23	P	22	45	5	7	$\pm 56$	
	iS	22	48	12 <sup>54</sup>			
	M	22	56	12			
	F	24.5h.					

Smaller tremors were also recorded at : 2d 13h. 3d 8h. 3d 11h. 3d 22  
6d 8h. 9d 14h. 12d 21h. 13d 8h. 14d 3h. 14d 23h. 15d 3h. 15d 14h.  
15d 21h. 16d 20h. 18d 11h. 22d 21h (Local). 22d 20h. 24d 9h.  
24d 13h. 24d 14h. 24d 18h. 25d 3h. 27d 20h. 28d 16h. 28d 18h.  
29d 0h. 29d 11h. 30d 4h. 30d 5h. 30d 14h. 30d 15h.

Record lost from July 31 8h - 24h.

# SEISMOGRAPH RECORDS.

For the Month of August, 1927.

FROM HELWAN OBSERVATORY, EGYPT.

$\phi = 29^{\circ} 51' N$  ,  $\lambda = 31^{\circ} 20' E$  ,  $h = 115$  m.

Director P. A. CURRY.

Seismograph Milne-Shaw recording E-W motion.

Theoretical magnification = 250.

Period of undamped pendulum = 12<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
August 5	P	21	25	38	21	+ 32	
	PR	21	29	2			
	S	21	35	57			
	M	22	6	36			
	F.	3.0h.					
August 10	eP	11	49	54	25	+ 53	
	S	12	0	37			
	M	12	35	01			
	F	15.3h					
August 18	eP	19	40	45	18	+ 28	
	S	19	51	11			
	M	20	25	49			
	F	23.0h					
August 26	M	16	38	30	12	+ 20	

Smaller tremors were also recorded at : 1d 11h. 1d 17h. 1d 19h.

2d 1h. 2d 8h. 3d 5h. 4d 16h. 7d 22h. 8d 1h. 8d 19h.  
 10d 1h. 10d 22h. 12d 1h. 12d 10h. 12d 16h. 12d 20h. 16d 21h.  
 19d 20h. 20d 21h. 21d 0h-3h. 21d 10h. 21d 17h. 21d 23h. 22d 15h.  
 22d 19h. 23d 6h. 24d 9h. 24d 18h. 25d 17h. 27d 13h. 29d 5h.  
 29d 8h.

Record lost August 1st. 0h-7h.

8

## SEISMOGRAPH RECORDS.

For the Month of September, 1927.

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Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . μ	REMARKS.	
		h.	m.	s.				
September 3	P S M F	19	59	10	18	± 53		
		20	8	27				
		20	30	5				
		22.5h						
" 11	1P 1S M F	22	19	20	15	+ 200		
		22	21	54				
		22	31	28				
		25.0h						
" 12	eP S F	3	23	50	4.5h			
		3	26	32				
		4.5h						
" 23	P Fr S M F	14	2	25	11	± 6		
		14	9	10				
		14	12	11				
		14	25	28				
		15.6h						
" 24	eP S M F	0	28	39	< 4	- 30	Felt slightly in Cairo	
		0	29	24				
		0	29	30				
		0 39 --						
Smaller tremors were also recorded at :						1d 22h.	5d 1h.	7d 13h.
7d 20h.	8d 4h.	8d 8 9h.	8d 23h.	10d 16h.	12d 6h.	12d 14h.		
12d 19h.	13d 10-12h.	16d 16h.	17d 1h.	18d 6h.	18d 9h.	33.5m(local)		
19d 9h.	21d 3h.	24d 18h.	25d 14h.	(Local).	28d 12h.	(Local).		
30d 8h.	30d 19h.							
Record lost September 10 th.						5h - 7h.		

## SEISMOGRAPH RECORDS.

For the Month of October, 192 7.

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<sup>s</sup>.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 6X.

DATE 192 <u>7</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
October 24	e P	16	13	15			
	S	16	24	3			
	M	16	59	27	24	$\pm 47$	
	F	21.0		h			
Smaller tremors were also recorded at : 1d 00h. 1d 1h. 2d 5h.							
3d 23h. 4d 00h. 4d 21h. 5d 8h. 7d 14h. 7d 21h. 8d 10h.							
8d 12h. 8d 13h. 8d 20h. 9d 4h. 11d 0h. 11d 17h. 11d 22h.							
12d 6h. 15d 11h. 15d 13h. 15d 12h. 16d 14h. 18d 00h.							
38m (Local). 19d 14h. 19d 23h. 21d 2h. 22d 2h. 23d 4h. 24d 13h							
27d 20h. 28d 15h. 29d 1h. 30d 3h. 31d 6h.							
Record lost October 16th. from 6h. to 8h.							

## SEISMOGRAPH RECORDS.

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Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A <sub>E</sub> . $\mu$	REMARKS.
		h.	m.	s.			
November 4	eP	14	10	10	25	$\pm 44$	Probably PR <sub>1</sub> . P may be obscured by microseisms.
	S	14	19	42			
	M	14	57	52			
	F	17.2 h.					
" 8	P	3	21	27	15	$\pm 19$	
	S	3	30	30			
	M	3	54	48			
	F	5.9 h.					
" 12	P	14	49	07	6	$\pm 67$	
	PR	14	51	50			
	S	14	53	10			
	M	14	58	11			
	F	16.8 h.					
" 14	P	0	22	44	15	$\pm 14$	
	S	0	31	18			
	M	1	2	55			
	F	3.0 h.					
" 14	P	5	7	10	18	$\pm 24$	
	S	5	15	49			
	M	5	41	37			
	F	7.1 h.					
" 14	P	7	39	00	15	$\pm 32$	
	PR	7	46	22			
	S	7	48	41			
	M	8	31	14			
	F	9.0 h.					
" 14	P	15	27	52	13	$\pm 22$	
	M	15	51	12			
	F	17.2 h.					
" 15	eP	14	42	25	7	$\pm 8$	
	eS	14	46	22			
	M	14	51	28			
	F	15.3 h.					
" 16	eP	21	23	7	22	$\pm 47$	aqui soy
	S	21	33	30			
	M	22	5	40			
	F	24.5 h.					

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Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE	REMARKS.
		h.	m.	s.		A <sub>E</sub> . $\mu$	
November 21	e	23	33	10			
"	M	24	34	45	16	$\pm 56$	
"	P	2.6 h.					
"	e	13	12	31			
"	S	13	18	30			
"	P	14.0 h.					
Smaller tremors were also recorded at :- 3d 21h. 5d 22h. 6d 15h.							
7d 00h. 7d 1h. 9d 1h. 11d 16h. 13d 4h. 13d 5h. 13d 22h.							
15d 8h. 15d 22h. 16d 1h. 17d 21h. 18d 3h. 18d 11h. 18d 12h. 40m.							
Local. 19d 8h. 20d 17h. 20d 18h. 21d 17h. 21d 19h. 28d 4h.							
28d 11h. 28d 15h. 29d 23h. 30d 6h.							
Record lost Nov. 19th. 6h. to 7h.							
& Nov. 23rd. 13h. to Nov. 24th. 5h.							

## SEISMOGRAPH RECORDS.

For the Month of December, 1927.

## 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 =  $12^{\text{s}}$ .

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 11394 A, 1924-429 ex.

DATE 192 <u>7</u> :	PHASE.	TIME.			PERIOD. s.	AMPLITUDE $A_E$ $\mu$	REMARKS.
		h.	m.	s.			
December 1	P	4	50	26	20	$\pm 23$	
	S	5	01	15			
	M	5	34	00			
	F	7.2 h.					
" 12	eP	20	27	40	2	$\pm 7$	Felt at Limassol. Cyprus.
	S	20	28	19			
	M	20	28	30			
" 13	eP	5	57	20	2	$\pm 8$	Time of P uncertain. Felt at Limassol. End lost in changing paper.
	S	5	59	59			
	M	5	58	03			
" 28	P	18	33	03	26	$\pm 173$	
	is	18	43	33			
	M	19	11	18			
	F	22.4 h.					
Smaller tremors were also recorded at : 3d 22h. 4d 22h. 5d 18h. 11d 16-19h.							
12d 15h. 12d 20h. 13d 0h. 14d 8h. 14d 19h. 15d 16h. 34m. local shock.							
15d 17h. 16d 22h. 16d 23h. 25d 23h. 26d 3h. 27d 12h. 27d 22h. 28d 9h.							
30d 13h. 30d 23h.							
Record lost on Dec. 20th. from 2h. to 5h.							
& on Dec. 22nd. from 4h. to 5h.							