

SEISMOGRAPH RECORDS.

For the Month of FEBRUARY, 1933.

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^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 4730 A, 1929-300 ex.

DATE 19 <u>33</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ.	REMARKS.		
		h.	m.	s.					
/ Feb. 3	P	22	24	32	20	± 10			
	IS	22	34	56					
	M	23	08	23					
	F	23.7 h.							
/ " 13	P	02	57	53	14	± 10			
	Pr	02	59	48					
	M	03	24	50					
	F	4.4 h.							
/ " 21	P	19	08	08	10	± 17			
	IS	19	12	20					
	M	19	19	04					
	F	19.9 h.							
/ " 23	P	08	23	45	20	± 310			
	IPR	08	28	13					
	S	08	34	22					
	L	09	04	10					
	M	09	15	56					
	F	12.0h.							
/ " 25	P	23	21	50					
	L	23	27	40					
	F	24.0 h.							
Smaller tremors were also recorded at :-									
D	H	D	H	D	H	D	H	D	H
5	5	14	7	19	9	24	18	26	21
9	4	16	4	20	11	25	12	27	16
10	9	16	9	22	4	25	16	27	17
10	14	16	10	22	18	26	3	28	1
13	23	19	4	24	15	26	5	28	4
14	5	19	8						

SEISMOGRAPH RECORDS.

For the Month of JUNE, 1933.

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.

DATE 193 <u>3</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.
		h.	m.	s.			
/ June 6	P	2	40	48			
	IS	2	51	02			
	F	4.0h					
/ " 7	iP	11	56	12			
	IS	12	04	22			
	M	12	27	30	16	± 10	
	F	13.0h					
" 13	P	11	14	37			
	S	11	15	10			
	F	11.5h					
" 18	e	1	10	24			Record confused with microseisms.
	iP	1	10	54			
	IS	1	11	57			
	M	1	14	44	10	± 9	
	F	1.5h					
/ " 18	iP	21	50	17			
	iPr	21	53	40			
	IS	22	00	40			
	L IS	22	22	35			
	M	22	32	12	23	± 86	
	F	25.1h					
/ " 24	eP	22	06	48			
	iPr	22	13	57			
	IS	22	16	49			
	M	22	40	19	(24)	± 984	At edge of paper.
	F	26.1h					
Smaller tremors were also recorded at :							
D	H	D	H	D	H	D	H
1	02	3	21	13	20	19	07
2	04	4	13	13	22	21	09
2	05	5	15	14	00	21	14
2	08	8	18	15	18	25	06
2	15	10	12	17	09	25	10
2	19	11	14	17	21	25	18
2	20	12	15	18	04	25	21
3	17	12	19	18	14	28	12
						29	00
				44m. (Local)			

SEISMOGRAPH RECORDS.

For the Month of July, 1933

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.

DATE 193 <u>3</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ.	REMARKS.
		h.	m.	s.			
July 9	P	1	42	50			
	S	1	53	09			
	M ₁	2	27	08	17	+9	
	M ₂	2	38	38	22	+12	
	F	3.2h					
9	P	12	43	26			
	S	12	53	47			
	M ₁	13	23	34	17	+10	
	M ₂	13	29	18	16	+12	
	F	15.7h					
11	P	7	53	47			
	S	7	56	10			
	M	7	59	25	10	+7	
	F	8.5h					
19	P	20	09	08			
	S	20	10	37			
	M	20	19	38	13	+10	
	F	20.9h					
21	P	20	25	16			
	S	20	31	03			
	M	21	04	02	16	+22	
	F	23.0h					
22	P	21	08	41			
	S	21	19	17			
	M	22	03	25	20	+23	
	F	24.2h					
24	P	3	44	00			Severe shock preceded by a sound, Felt in CAIRO. Mirror was thrown out.
25	P	6	51	05			
	S	6	51	35			
	M	6	51	45			
	M	6	52	10			
	F	7.1h					Period not distinct.

SEISMOGRAPH RECORDS.

For the Month of July, 1933

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

Director _____

Seismograph Milne-Shaw recording E-W motion. *P. A. Curry.*

Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

DATE 193 .	PHASE.		TIME.			PERIOD.		AMPLITUDE A _E .		REMARKS.			
			h.	m.	s.	s.		μ.					
	Smaller tremors were also recorded at :-												
	D _o	H _o	D _o	H _o	D _o	H _o	D _o	H _o	D _o	H _o	D _o	H _o	
	3	15	9	10	10	11	17	10	19	14	24	19	
	4	3	9	16	12	11	18	19	19	15	26	4	
	5	4	9	21	12	12	19	11	19	17	27	2	
	7	7	10	00	13	15	19	12	20	23	30	17	
	8	8	10	3	14	4	19	13	21	23	31	00	
											31 _m .	Local	
									23	5	31	11	
									23	10	31	16	

SEISMOGRAPH RECORDS.

For the Month of AUGUST, 1933.

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^s.0.

Times are expressed in Greenwich Civil Mean Time.

DATE 193 <u>3</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ.	REMARKS.
		h.	m.	s.			
AUGUST 11	P	9	04	02	12	± 6	
	Pr	9	07	37			
	S	9	12	07			
	M	9	33	06			
	F	10.3h					
" 20	eP	11	57	49	19	± 13	
	eS	12	08	12			
	M	12	42	40			
	F	13.4h					
" 25	1P	8	00	43	26	± 500	
	1		01	40			
	1		03	02			
	1		04	31			
	1S		09	11			
	1		13	20			
	M		32	34			
	F	11.6 h					
" 28	e	22	33	35	16	± 189	Difficult to distinct from microseisms.
	ePr	22	27	23			
	S _o P _o S	22	44	16			
	1S	22	45	25			
	L	23	01	40			
	M	23	23	35			
	F	26.7h					
Smaller tremors were also recorded at :							
D	H	D	H		D	H	
3	05	10	00		15	20	
3	08	11	14		16	23	
4	18	12	17		17	06	
5	01	13	09	39m.	(22	11)	
5	04	14	18		22	15	
6	04	15	01		24	09	
8	03	15	03		27	01	
9	23	15	04		29	15	10m.

SEISMOGRAPH RECORDS.

For the Month of SEPTEMBER, 1933.

FROM HELWAN OBSERVATORY, EGYPT.

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Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

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DATE 193 <u>3</u>	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.
		h.	m.	s.			
SEPTEMBER 2	P	16	53	25			No definite maximum.
	1S	17	03	12			
	1Sr	17	06	23			
	F	18.1h					
" 6	P	22	27	13			
	1	22	31	04			
	1	22	34	37			
	1	22	36	55			
	S	22	40	27			
	F	24.6h					
" 24	P	13	23	50			
	F	13.8h					
" 24	eP	15	36	25			
	e	15	43	29			
	e	15	45	55			
	e	15	50	02			
	M	16	25	36	19	± 8	
	F	18.3h					
" 25	18 P	18	59	48			
	Pr1	19	00	02			
	Pr2	19	01	48			
	S	19	06	51			
	Sr	19	10	33			
	M	19	26	53	14	± 13	
	F	21.1h					
Smaller tremors were also recorded at :							
D	H	D	H	D	H		
3	04	9	05	21	10		
6	02	9	21	22	12		
6	10	10	08	22	13		
6	17	11	08	25	09		
7	08 59m.	14	03	25	14		
7	14 43m.	17	16	26	03		
7	15	17	23	27	04		
7	18	20	21	27	22		
7	23	20	23	28	00		
9	04	21	04	30	14		

SEISMOGRAPH RECORDS.

For the Month of DECEMBER, 1933.

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.

DATE 193 <u>3</u> .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ.	REMARKS.		
		h.	m.	s.					
Dec. 4	P	19	45	43			8530		
	S	19	55	29					
	F	20.7h							
" 12	P	5	30	22	10	± 6	1760		
	S	5	33	23					
	M	5	37	05					
	F	Lost in changing paper.							
" 14	P	18	56	31	10	± 54	2390		
	IS	19	00	27					
	M	19	07	24					
	F	20.0h							
Smaller tremors were also recorded at :									
D	H	D	H	D	H	D	H	D	H
2	02	2	05	2	06	2	20	4	11
6	05	7	00	9	08	10	09	12	09
12	14	13	21	14	05	14	08	14	20
15	07	16	02	17	23	18	10	18	22
19	00	21	01	21	18	24	11		

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