

SEISMOGRAPH RECORDS.

For the Month of January, 19 36

FROM HELWAN OBSERVATORY, EGYPT.

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

Director Dr. M. H. Madwar

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 19	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.
		h.	m.	s.			
January 2	eP	17	39	58			Preceded by microseisms
	s	17	50	28			
	(SP)	17	50	43			
	PS	17	51	14			
	P	17	00				
	2/3	eP	22	45	38		
3	S	22	54	47			
	L	23	06	45			
	M ₁	23	14	50	26	± 221	
	M ₂	23	16	58	16	± 86	
	P	23	00				
	6	P	12	39	05		
S		12	42	34			
H		12	47	45	13	± 18	
P		13	03				
14	e	14	25	38			
	i	14	35	12			
	i	14	36	05			
	i	14	36	42			
	i	14	39	30			

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Theoretical magnification = 250.

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Times are expressed in Greenwich Civil Mean Time.

DATE 19	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ.	REMARKS.
		h.	m.	s.			
<u>January Cont.</u>	<u>1</u>	<u>14</u>	<u>39</u>	<u>20</u>			
	<u>P</u>	<u>16</u>	<u>4</u>				
<u>14</u>	<u>e</u>	<u>18</u>	<u>00</u>	<u>42</u>			<u>Very weak</u>
	<u>1</u>	<u>18</u>	<u>03</u>	<u>25</u>			
	<u>P</u>	<u>20</u>	<u>3</u>				
<u>15</u>	<u>e</u>	<u>15</u>	<u>03</u>	<u>00</u>			<u>Very weak</u>
	<u>e</u>	<u>15</u>	<u>06</u>	<u>16</u>			
	<u>1</u>	<u>15</u>	<u>06</u>	<u>46</u>			
	<u>P</u>	<u>17</u>	<u>3</u>				
<u>20</u>	<u>e</u>	<u>8</u>	<u>09</u>	<u>13</u>			
	<u>S</u>	<u>8</u>	<u>12</u>	<u>22</u>			
	<u>L</u>	<u>8</u>	<u>15</u>	<u>00</u>			
	<u>N</u>	<u>8</u>	<u>17</u>	<u>43</u>	<u>15</u>	<u>12</u>	
<u>20</u>	<u>1P</u>	<u>17</u>	<u>09</u>	<u>24</u>			
<u>PP</u>	<u>PeP</u>	<u>17</u>	<u>09</u>	<u>42</u>		<u>PeP</u>	
	<u>PP</u>	<u>17</u>	<u>10</u>	<u>00</u>			
	<u>PR</u>	<u>17</u>	<u>13</u>	<u>22</u>			
	<u>Seres</u>	<u>17</u>	<u>19</u>	<u>53</u>			
	<u>SePePes</u>	<u>17</u>	<u>20</u>	<u>22</u>			

SEISMOGRAPH RECORDS.

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

Director Dr. H. R. Madwar

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 19	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.
		h.	m.	s.			
<u>January Cont. 20</u>	<u>1 S</u>	<u>17</u>	<u>20</u>	<u>43</u>			
	<u>5 S</u>	<u>17</u>	<u>22</u>	<u>05</u>			
	<u>1</u>	<u>17</u>	<u>43</u>	<u>22</u>			
	<u>F</u>	<u>19</u>	<u>7</u>				
<u>Tremors were also recorded at :-</u>							
	<u>D</u>	<u>H</u>	<u>D</u>	<u>H</u>	<u>D</u>	<u>H</u>	
	<u>24</u>	<u>6</u>	<u>16</u>	<u>8</u>	<u>15</u>	<u>10</u>	
	<u>23</u>	<u>14</u>	<u>27</u>	<u>17</u>	<u>27</u>	<u>20</u>	

Aqui hay un error

SEISMOGRAPH RECORDS.

For the Month of February, 19336

FROM HELWAN OBSERVATORY, EGYPT.

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

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 .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ.	REMARKS.
		h.	m.	s.			
February 7	eP	9	06	33			Confused with microseisms
	iPR ₁		08	50			
	iPR ₂		10	18			
	eS		14	45			
	PS		15	09			
	e		16	13			
	SR ₂		20	47			
	L		25	25			
	F		12.0				
10	e	18	24	25			very weak & preceded by microseisms
	e		24	40			
	F		20.0				
12	e	11	01	18			highly preceded by microseisms
	e		06	00			
	F		11.4				
15	P	13	00	55			
	e		03	04			
	e		09	12			
	SCPCS		11	36			
	iS		12	43			

SEISMOGRAPH RECORDS.

For the Month of February, 19 ³⁶

FROM HELWAN OBSERVATORY, EGYPT.

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

Director _____

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 19 .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.
		h.	m.	s.			
February Cont. 15	PS	13	14	15			
	K ₁	51	12		18	\pm 86	
	M ₂	53	00		21	\pm 114	
	M ₃	55	50		23	\pm 132	
	F	16.2					
16	e	14	34	27			
	e	39	42				
	F	15.2					
17	P	18	06	43			Local
	S			47			
22	e	15	50	28			Confused with micro- seisms
	e	55	07				
	e	55	20				
	L	16	38	07			
	M	49	37		20	\pm 57	
	F	18.7					
22	e	19	45	12			
	e	46	03				
	F	22.2					

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Director Dr. M. R. Madwar

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 19 .	PHASE.	TIME.			PERIOD. s.	AMPLITUDE A _E . μ .	REMARKS.				
		h.	m.	s.							
February 24	e	16	32	54							
	e		38	06							
	F	17.1									
/ 27	e	10	17	38		Preceded by micro-seisms					
	e		27	55							
	F	12.9									
/ 28	i	16	38	30							
	e		39	40							
	e		40	47							
	F	17.7									
Small tremors were also recorded at :-											
D	H	D	H	D	H	D	H	D	H	D	H
2	16	3	03	5	04	6	22	7	02	7	04
7	13	6	03	8	13	11	05	14	04	16	04
18	15	18	21	21	02	21	15	22	20	22	21
18	03	28	04								

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SEISMOGRAPH RECORDS

For the Month of March, 1938

FROM HELWAN OBSERVATORY, EGYPT

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

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 9892 A. 1935-300 ex.

DATE 193—	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS
		h.	m.	s.			
March 1	e	10	33	50			Preceded with microseisms
	P ₁		35	15			
	S _c P _c P _c S		43	16			
	L	11	08	28			
	M		21	22	15	± 11	
	F		13.4				
2	P	3	31	43			minutes cutting, not certain
	S _c P _c S		42	03			
	S			25			
	L	4	06	04			
	M		17	04	20	± 17	
	F	Lost in changing the paper					
13	P _n	13	02	09			Local
	P			11			
19	Begining	6	11	00			Local
20	"	20	58	07			Local (very small)
21	e	2	10	05			
	e		16	35			

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For the Month of March, 1936

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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 9892 A. 1935-300 ex.

DATE 193—	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS			
		h.	m.	s.						
March Cont. 21	F	3	3							
22	e	4	46	35						
	F	6	1							
22	e	12	37	00						
	F	15	1							
25	e	8	58	06		Preceded with micro-seisms				
	e	9	15	15						
	F	10	3							
Small tremors were also recorded at :-										
	D	H	D	H	D	H	D	H		
	4	16	6	15	10	9	10	21	11	2
	17	21	18	12	18	25	26	15	27	3

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SEISMOGRAPH RECORDS

For the Month of April, 1936

FROM HELWAN OBSERVATORY, EGYPT

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

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 9892 A. 1935-300 ex.

DATE 193—	PHASE	TIME	PERIOD	AMPLITUDE A_E	REMARKS
April / 1	iP pP PR iS sS ? M F	2 22 37 23 00 25 52 33 05 33 45 3 11 45 6.0	s. 16	μ ± 108	
/ 1	P S F	20 24 06 34 33 22.9			
/ 9	e F	16 23 45 18.5			
/ 12	P e i F	0 1 33 52 0.7			
/ 12	P e e S e F	21 4 49 5 42 11 02 17 57 18 40 23.9			

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SEISMOGRAPH RECORDS

For the Month of April, 1936

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Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 9892 A. 1935-300 ex.

DATE 193—	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS
		h.	m.	s.			
April	P S M F	22	20	10	10	± 10	Lines overlapping
			24	02			
			29	50			
			-				
19	e i F	5	22	45	9.2		Lost in changing the paper
			26	55			
19	eP M F	9	14	10	20	± 37	Beginning confused with the end of the preceding
			41	39			
			11.5				
21	P iS M F	2	19	20	14	± 29	Preceded with tremors
			23	40			
			29	51			
			3.5				
23	i F	10	8	25			Preceded with strong microseisms Lines overlapping
			-				
27	e i F	0	9	22	1.5		Preceded with tremors
			17	35			

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SEISMOGRAPH RECORDS

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Director

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Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 9892 A. 1935-300 ex.

DATE 193—	PHASE	TIME			PERIOD s.	AMPLITUDE A _E		REMARKS	
		h.	m.	s.		μ			
April 28	e	23	17	15					
	iS		18	38					
	F			23.6					
Tremors were also recorded at :-									
D	H	D	H	D	H	D	H	D	H
2	7,8,9	8	5	9	8,9	11	4	13	4,8
14	18	15	16	16	17	20	19	24	14,19
26	10	28	6,7,8,14	29	17				

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SEISMOGRAPH RECORDS

For the Month of May, 1936

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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 9892 A. 1935-300 ex.

DATE 193 <u>6</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS
		h.	m.	s.			
May 5	P	9	07	37			Local (very small)
8	iP	9	23	14			
	pP		23	30			
	e		25	20			
	e		27	18			
	i S		32	43			
	SS		32	56			
	i		33	55			
	F	10	03				
11	P	17	47	42			Felt in Mongalla (Sudan)
	F	20	04				
16	eP	7	04	04			
	iS		16	03			
	PPS		18	18			
	SR ₁		23	32			
	SR ₂		27	43			
	L		38	00			
	M		46	22	17	37	

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SEISMOGRAPH RECORDS

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Theoretical magnification = 250.

Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 9892 A. 1935-300 ex.

DATE 193—	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS
		h.	m.	s.			
May 19	eP	7	34	18			Preceded with microseisms
	pP		34	28			
	e		36	12			
	iS		43	37			
	sS		43	52			
	e		44	48			
	e		45	26			
	F	8.3					
19	e	21	14	00			Preceded & confused with microseisms
	F	23.2					
20 30	e	3	26	18			Preceded & confused with microseisms
	e		30	23			
	e		43	32			
	F	Lost in changing the paper					
22	e	0	35	20			Preceded with microseisms
	e		44	40			
	e		45	40			
	M	1	27	22	15	+ 12	
	F	2.9				-	
23	P	22	30	18			Local (very small)
23	Very weak earthquake.						

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SEISMOGRAPH RECORDS

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Govt. Press 9892 A. 1935-300 ex.

DATE 19 <u>36</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS
		h.	m.	s.			
May 27	iP	6	27	30	13	± 53	
	e		29	32			
	iS		34	15			
	e		37	50			
	e		38	48			
	M		50	15			
	F	10.0					
28	Earthquake						Lines overlapping
Tremors were also recorded at :-							
D	H	D	H	D	H	D	H
1	13	3	3	5	21	6	16
6	16	10	15, 16,	11	2	21	4
24	13	25	17, 18 4				

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SEISMOGRAPH RECORDS

For the Month of June, 1936

FROM HELWAN OBSERVATORY, EGYPT

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

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 3892 A. 1935-300 ex.

DATE 193-6	PHASE	TIME			PERIOD s.	AMPLITUDE A _E μ	REMARKS
		h.	m.	s.			
June 9	P	16	47	45	23	4 22	
	S		56	55			
	M	17	16	42			
	F	18.2					
10	eP F	3	11	03			Confused with the beginning of the following earthquake.
10	P S I M F				13	4 29	Confused with the end of the preceding earthquake. 3 40 23 41 20 49 12 5.0
10	E PR. SePePeS S PS PPS F	8	37	38			Preceded & confused with microseismo. 43 23 50 27 50 53 52 18 53 22 11.4
10	P	13	20	54			Local (very small)
10	e M F	14	52	25	17	4 5	
10	e e e M F	17	17	15	12	4 12	
				48			
				22 05			
				31 19			
				18.2			

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Period of undamped pendulum = 12^s.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 9892 A. 1935-300 ex.

DATE 193—6	PHASE	TIME			PERIOD s.	AMPLITUDE A_E μ	REMARKS
		h.	m.	s.			
11	P	9	54	40	13	+9	Preceded & confused with microseisms
	eS		55	00			
	M	10	03	54			
	F	10.	7				
11	P	11	57	42			Local (Not felt)
	S			52			
	F			58			
13	e	0	34	27	5?	+26	Difficult to measure owing to many inter- vals not distinct. Precede with micro- seisms.
	M		37	30			
	F	1.5					
14	eP	17	03	27			Precede with micro- seisms.
	e		04	49			
	F	18.	3				
21	e	19	07	15			Preceded & confused with microseisms.
	e		9	58			
22	F	19.	5				Preceded & confused with microseisms.
	e	19	38	25			
	e		47	45			
	F	21.	1				

A/F.

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SEISMOGRAPH RECORDS

For the Month of June, 1936

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

Director Dr. M. R. Madwar

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 9892 A. 1935-300 ex.

DATE 193 <u>6</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A _E μ	REMARKS
		h.	m.	s.			
29	iP	14	36	31	20	20	
	Pe		37	45			
	S		41	35			
	M		51	08			
	F	16.0					
30	iP	15	19	27	16	98	
	i		23	00			
	i		26	50			
	SePeS		29	52			
	S		30	53			
	i		35	57			
	M	16	06	04			
F	19.6						
30	eP	19	31	31	10	36	
	iS		36	00			
	SR		37	27			
	M		43	55			
	F	21.0					

Tremors were also recorded at :

D	H	D	H	D	H	D	H	D	H	D	H
1	12	3	4,10	5	13	6	17	7	5,8	9	1
10	20	14	4	16	1,16	17	9	18	16	19	17
20	7	25	11	27	14	28	9				

A/P.

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SEISMOGRAPH RECORDS

For the Month of August, 1936

FROM HELWAN OBSERVATORY, EGYPT

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

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 2955-1936-700 ex.

DATE 193-6	PHASE	TIME			PERIOD s.	AMPLITUDE A _E μ	REMARKS
		h.	m.	s.			
August 1	i F	6	43	13			
		7.5					
4	i F	14	31	54			
		15.5					
8	eP S ? F	4	14	13			
			15	25			
		5.3					
13	iP S M F	20	15	41			
			26	35			
		21	04	00	18	+ 18	
		23.1					
16	P S M F	21	41	55			
			46	00			
			52	42	6	+ 10	
		22.4					
19	eP eS M F	12	06	05			Preceded with microseisms
			09	34			
			14	48	9	+ 6	
		12.4					
20	Pr ₁ S e M F	2	12	48			" " "
			16	20			
				38			
			21	32	10	+ 13	
		3.0					
22	iP Pr ₁ i S PS ? M F	7	03	42			
			06	45			
			07	35			
			13	37			
				57			
			45	51	18	+ 43	
		10.4					
23	eP Pr ₂ iS M F	21	22	48			Confused with a preceding small earthquake.
			26	06			
			31	00			
			46	17	25	+249	
		0.2					

SEISMOGRAPH RECORDS

For the Month of August (Cont), 1936

FROM HELWAN OBSERVATORY, EGYPT

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

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 2955-1936-700 ex.

DATE 193- <u>6</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A _E		REMARKS	
		h.	m.	s.		μ			d
Tremors were also recorded at :-									
	d	h	d	h	d	h	d	h	
	2	23	3	4, 14	9	9, 17	10	6	
	12	22	13	17	14	23	15	3	
	16	17	17	(7, 14, 15, 16)			23	21	
	24	23	25	00, 21	26	23	28	00, 3, 7	
	29	2, 23							

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SEISMOGRAPH RECORDS

For the Month of September, 1936

FROM HELWAN OBSERVATORY, EGYPT

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

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 2955-1936-700 ex.

DATE 193 <u>6</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A _E μ	REMARKS
		h.	m.	s.			
Sept 4 /	eP	8	22	25	17	+ 7	Preceded with microseisms
	PR		26	12			
	(S _c P _c P _c I _c S)		33	12			
	S			36			
	PS		34	32			
	M	9	10	24			
5	F	9.7					
	e	22	57	50			Very weak
	e	23	02	48			
F	23.3						
6 /	P	17	59	48			
	e	18	10	20			
	F	20.3					
7 /	eP	8	58	07			Preceded with microseisms Lines overlapping
	IS	9	02	47			
	F						
18	eP	18	51	30			Preceded & Confused with microseisms
	(S _c P _c S _c S)	19	02	08			
	S			19			
	F	20.2					
19	IP	1	12	40	20	+ 201	Greater part of the paper lost, due to defective paper
	e		13	20			
	e		14	00			
	e		16	37			
	M		43	07			
	F	4.7					
19	e	6	41	20	15	+ 9	Preceded & confused with microseisms
	S		50	16			
	e		51	10			
	M	7	10	25			
	F	8.3					
21	P	11	44	07			
	e		46	47			
	F	13.4					

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SEISMOGRAPH RECORDS

For the Month of ~~September (Cont)~~, 193~~6~~

FROM HELWAN OBSERVATORY, EGYPT

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

Director Dr. M.R. Madwar

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 2955-1936-700 ex.

DATE 193 6	PHASE	TIME			PERIOD s.	AMPLITUDE A _E		REMARKS	
		h.	m.	s.		μ		D	H
Tremors were also recorded at:-									
	D	H	D	H	D	H	D	H	
I	10 Local	2	8	Local	3	13, 14	5	5, 23	
7	3	8	17		12	19	16	11	
17	19	20	9		22	12	25	14	

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SEISMOGRAPH RECORDS

For the Month of October, 1936

FROM HELWAN OBSERVATORY, EGYPT

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

Director Dr. M. R. Madwar

Seismograph Milne-Shaw recording E-W motion

Theoretical magnification = 250.

Period of undamped pendulum = 12^h.0.

Times are expressed in Greenwich Civil Mean Time.

Govt. Press 2955-1936-700 ex.

DATE 193 <u>6</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A _E μ	REMARKS
		h.	m.	s.			
Oct / 5	O O F	0	13	27			
			30	50			
/ 5	1P S S S F	6	21	23			Preceded with microseisms
			31	42			
/ 5	1P 1 PR ₁ S (S) M F	9	57	40			
		10	01	25			
11	O O F	16	28	18			
			29	15			
/ 15	OP O PR ₂ O M F	21	28	40			
			31	25			
/ 16	P F	22	22	18	15	± 7	Preceded with microseisms
			23	18			
17	P S F	3	15	02			
			19	03			
/ 19	P O S M F	13	17	48			
			21	35			
		13	28	20	25	± 31	
		15	05	17			

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SEISMOGRAPH RECORDS

For the Month of October (Cont.), 1936

FROM HELWAN OBSERVATORY, EGYPT

 $\varphi = 29^{\circ} 51' N$, $\lambda = 31^{\circ} 20' E$, $h = 115$ m.Director Dr. M; R. Madwar

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 2955-1936-700 ex.

DATE 19 <u>36</u>	PHASE	TIME			PERIOD s.	AMPLITUDE A _E μ	REMARKS		
		h.	m.	s.					
/ 20	eP	12	52	45					
	S		57	20					
	M ₁	13	02	02	10	+ 5			
	M ₂		03	48	08	+ 5			
	F	13.4							
21	e	1	57	50			Preceded with microseisms		
	M	2	15	40	10	+ 4			
	F	2.7							
/ 23	Begining lost in changing the paper								
	iS	6	48	00					
	i			20					
	i		50	30					
	M	7	23	10	27	+ 31			
	F	9.9							
/ 24	P	14	08	28					
	eS		10	15					
	F	14.6							
/ 26	eP	19	43	20					
	S		52	42					
	M	20	13	18	20	+ 23			
	F	21.2							
/ 26	P	23	14	12					
	S		20	50					
	M		36	00	20	+ 11			
	F	24.5							
/ 29	eP	18	51	45			Preceded & confused with microseisms		
	S _c P _c S	19	02	05					
	S _c S		03	25					
	F	21.8							
Tremors were also recorded at:									
D	H	D	H	D	H	D	H	D	H
4	7	10	3	13	7	21	14,20	22	4
23	0,21	26	10	29	7	30	20	31	7

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