

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of January 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.  
 1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.  
 Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVAL OBSERVATORY, HELWAN, EGYPT.

Director Superintendent M. Knox-Shaw.

L.N. 2220-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.		DURATION.		REMARKS.
	1916.		H.	M.	H.	M.	mm.	H.	M.		
3492	Jan.	1	13	36.9	15	16.2	3.3	5	43	A) S. at 13 <sup>h</sup> 41 <sup>m</sup> 5	
		"	13	37.2	15	14.3	2.3	4	49	B) S. at 13 <sup>h</sup> 41 <sup>m</sup> 5	
3493		4	3	35			0.1	1	2	A)	
		"	3	36			trace	0	56	B)	
3494		"	13	44			trace	0	13	A)	
		"	13	38			trace	0	12	B)	
3495		5	3	12			trace	3	40	A)	
		"	3	9			0.1	3	41	B)	
3496		"	9	3			trace	0	11	A) only.	
3497		"	8	00			0.2	23	00	B) only. Nearly continuous small tremors(? real)	
3498		6	6	5			trace	0	11	A) only.	
3499		"	11	49			trace	0	5	A) only. Very slight.	
3500		"	15	59			trace	0	3	A) only.	
3501		"	18	20			0.1	0	5	A)	
		"	18	19			0.1	0	15	B)	
3502		7	8	8			trace	0	13	B) only.	
3503		"	9	43			trace	0	5	B) only.	
3504		"	11	51			trace	0	3	B) only.	
3505		"	12	40			trace	0	3	B) only.	
3506		8	4	42			trace	0	5	B) only. Very slight.	
3507		10	18	27			0.2	1	4	A)	
		"	18	26			0.1	1	6	B)	
3508		11	12	31			0.1	0	40	A)	
		"	12	44			trace	0	37	B)	
3509		13	6	34.2	10	57.4	2.7	7	26	A) S. at 6 <sup>h</sup> 43 <sup>m</sup> 8	
		"	6	37.7	10	37.3	2.0	7	42	B) S. at 6 <sup>h</sup> 44 <sup>m</sup> 0	
3510		"	22	23			trace	0	41	A)	
		"	22	35			trace	0	25	B) Very slight.	
3511		14	7	37			0.2	0	45	A)	
		"	7	31			0.4	1	6	B)	
3512		"	16	33			trace	0	2	B) only. Very slight.	
3513		15	5	24			0.3	1	31	A)	
		"	5	23	6	2.9	0.5	1	34	B)	

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 Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

*Director* Superintendent H. Knox-Shaw.

L.N. 2230-1913-3000 ex.

No.	DATE 191 <u>6</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3514	Jan. 15	10	39			trace	0	8	A) Very slight.
	"	10	43			trace	0	11	B)
3515	" 17	8	21			0.1	0	15	A)
	"	8	23			trace	0	19	B)
3516	" 20	31				trace	0	13	A Only.
3517	" 19	19	17			0.2	2	48	A)
	"	19	23			0.1	2	37	B)
3518	" 22	17	49			0.1	0	6	A)
	"	17	50			trace	0	5	B)
3519	" 24	6	57.9				3	56	A) Large tremor. Max. lost.
	"	6	57.9				3	41	B) " " " "
3520	" 25	8	23			0.2	4	18	A)
	"	8	16			0.1	4	44	B)
3521	" 26	3	41			trace	3	54	B Only. (? real)
3522	" 7	42.6					2	2	A) Large tremor. Max. lost.
	"	7	42.2				1	58	B) " " " "
3523	" 12	58				0.5	2	15	A)
	"	12	56			0.2	2	21	B)
3524	" 27	13	54			trace	0	2	A)
	"	13	52			0.1	0	3	B)
3525	" 28	12	24			0.1	0	10	A Only.
3526	" 29	15	13			trace	0	2	A)
	"	15	11			trace	0	2	B)
3527	" 30	4	59.2	4	59.4	0.2	0	13	A) Felt locally.
	"	4	59.2	4	59.3	0.1	0	14	B) " "
3528	" 21	00				0.2	2	41	A)
	"	21	6			0.2	2	28	B)
3529	" 31	18	20	19	30.1	0.5	2	57	A)
	"	18	21	19	29.2	0.3	2	57	B)

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## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of February 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

Director— Superintendent H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE 191 <u>6</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3548	Febr. 14	14	41			0.1	0	14	A)
	"	14	47			trace	0	8	B)
3549	"	18	5.0	18	26.6	0.4	1	20	A)
	"	18	4.5	18	23.3	0.2	1	34	B)
3550	15	11	54			0.2	2	58	A)
	"	11	50			0.2	2	56	B)
3551	16	5	6			0.2	0	32	A)
	"	5	6			0.2	0	33	B)
3552	17	13	36			0.1	0	15	A)
	"	13	40			0.1	0	5	B)
3553	"	16	33			0.1	0	12	A only.
3554	20	10	39			0.2	0	30	A)
	"	10	42			0.2	0	37	B)
3555	"	18	3.6	18	59.3	1.1	3	21	A)
	"	18	1.4	18	59.3	0.4	3	36	B)
3556	21	3	3			trace	0	5	A)
	"	3	8			trace	0	2	B) Very slight.
3557	"	14	14.0	14	40.1	0.4	0	45	A)
	"	14	26.3	14	40.4	0.2	0	31	B)
3558	22	3	48			0.1	0	6	A)
	"	3	50			trace	0	2	B)
3559	"	21	40			0.1	0	48	A)
	"	21	51			trace	0	50	B)
3560	23	4	15			0.1	0	10	A)
	"	4	22			0.1	0	23	B)
3561	26	16	33			0.1	0	6	A)
	"	16	36			0.1	0	6	B)
3562	27	20	36.8	21	37.2	2.9	4	15	A)
	"	20	40.0	22	6.4	1.0	4	11	B)
3563	Ⓢ 28	13	41			trace	0	22	A
3564	"	20	57			0.1	0	23	A
3565	29	19	24			0.1	0	15	A

Ⓢ Seismograph B not working after February 28th. at 7<sup>h</sup>

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of March 191 6.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute: 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

*Director* Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 02.

No.	DATE 1916 .	Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3566	March 1	6	2			trace	0	3	A
3567	"	18	59			trace	0	2	A Very slight.
3568	"	23	10			0.1	0	49	A
3569	4	1	1			0.1	0	6	A
3570	"	5	26			trace	0	8	A
3571	"	7	30			0.2	2	55	A
3572	5	12	17			trace	0	9	A
3573	6	23	58			trace	0	7	A Very slight.
3574	7	6	4			trace	0	30	A
3575	"	13	43			0.2	0	21	A
3576	"	19	57			trace	0	3	A
3577	9	14	48			trace	0	11	A
3578	11	4	10			0.1	0	8	A
3579	"	8	1			trace	0	12	A
3580	"	11	37			0.1	0	9	A
3581	"	18	43			trace	0	47	A
3582	12	3	29			0.2	1	55	A
3583	"	8	37			0.1	1	1	A
3584	"	11	31			0.1	0	9	A
3585	@ 15	11	32			trace	0	4	A-Only, very slight.
3586	"	15	43			trace	0	22	A Only.
3587	"	18	34			0.1	0	9	A)
	"	18	29			trace	0	12	B)
3588	"	23	56			trace	0	4	A Only, very slight.
3589	16	23	42			trace	1	28	A)
	"	23	48			trace	0	6	B)
3590	18	1	24			0.1	0	48	A)
	"	1	19			0.1	0	49	B)

@ Seismograph B was started on March 14th. 1916 at 8<sup>h</sup> a.m.

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of March 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute: 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

Director Superintendent H. Knox-Shaw.

I.N. 2230-1913-3000 9X.

No.	DATE 191 <u>6</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3591	March 18	16	37			0.1	1	2	A)
	"	17	1			0.1	0	23	B)
3592	19	3	47			0.1	0	29	B Only.
3593	"	12	38			0.1	2	11	A)
	"	12	39			trace	2	1	B)
3594	"	22	52			trace	0	7	A)
	"	22	49			trace	0	7	B)
3595	20	1	16			trace	0	21	A)
	"	1	26			trace	0	15	B)
3596	"	2	34			0.1	4	7	A Only.
3597	"	8	4			0.1	1	54	A)
	"	8	3			trace	1	56	B)
3598	"	19	27			0.1	0	12	A)
	"	19	28			trace	0	9	B)
3599	21	3	36			trace	1	00	A)
	"	3	37			trace	1	4	B)
3600	"	8	32			trace	0	3	A)
	"	8	34			trace	0	11	B)
3601	23	1	54			0.1	0	7	A)
	"	1	54			trace	0	5	B)
3602	"	10	33			0.1	0	25	A)
	"	10	45			trace	0	14	B)
3603	26	0	5			0.2	2	44	A)
	"	0	9			0.2	2	44	B)
3604	"	5	54	6	2.1	0.5	0	36	A)
	"	5	50			0.1	0	54	B)
3605	"	12	45			0.1	0	36	A)
	"	12	40			0.1	0	50	B)
3606	28	8	33			trace	1	49	A)
	"	8	35			trace	0	16	B)
3607	29	20	4			trace	0	19	A Only.
3608	30	2	37			0.1	1	8	A)
	"	2	33			trace	0	48	B)
3609	31	12	14			0.1	1	47	A)
	"	12	21			trace	0	43	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of April 191 6.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

*Director* Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 ox.

No.	DATE 1916.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3610	April 2	1	33			trace	0	36	A Only.
3611	"	9	29			trace	0	5	A)
	"	9	30			trace	0	5	B)
3612	3	10	48			0.1	1	52	A)
	"	10	52			0.1	1	29	B)
3613	5	20	52.7	21	16.0	0.9	1	26	A)
	"	20	53.1	21	25.1	0.8	1	41	B)
3614	7	9	37.0	10	6.7	5.3	4	23	A) S. at 9 <sup>h</sup> 45 <sup>m</sup> .5
	"	9	37.2	10	8.0	3.0	4	23	B) S. at 9 46.4
3615	"	15	5			0.2	1	00	A)
	"	15	8			0.2	0	57	B)
3616	9	11	30			trace	0	9	A)
	"	11	31			0.1	0	7	B)
3617	"	19	43			0.1	0	19	A)
	"	19	44			trace	0	19	B)
3618	10	3	50			trace	0	4	A)
	"	3	48			trace	0	4	B)
3619	11	3	38			0.1	0	58	A)
	"	3	37			0.1	0	55	B)
3620	"	18	22			0.3	0	23	A) Curiously irregular
	"	18	22			0.3	0	38	B) "
3621	14	3	6			trace	0	12	A)
	"	3	6			trace	0	13	B)
3622	"	18	11			0.1	1	23	A)
	"	18	12			0.1	1	14	B)
3623	"	21	45			trace	1	8	A)
	"	21	57			trace	0	49	B)
3624	15	3	53			trace	1	54	A Only.
3625	"	9	42			0.2	0	46	A)
	"	9	42			0.1	0	52	B)
3626	"	12	43.2	13	18.9	1.5	3	57	A) S. at 12 <sup>h</sup> 53 <sup>m</sup> .4
	"	12	45.9	13	16.8	0.6	3	57	B) S. at 12 53.6
3627	16	3	32			trace	0	5	A)
	"	3	32			trace	0	2	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of May 191 6.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute: 0 or 24 H = midnight.

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Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~KHEDIVIAL~~ OBSERVATORY, HELWAN, EGYPT.

Director — Superintendent H. Knox-Shaw.

I.N. 2230-1913-3000 ox.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
	1916 .		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
							mm.			
3642	May	3	5	3			0.1	1	42	A)
	"	"	5	23			trace	1	30	B)
3643	"	10	31				trace	0	3	A Only.
3644	"	4	15	49			trace	0	18	A Only.
3645	"	7	11	23			0.2	0	58	A)
	"	"	11	18			0.1	0	40	B)
3646	"	8	0	19			0.1	0	16	A Only.
3647	"	"	15	56			0.1	0	4	A Only.
3648	"	9	14	52.4	15	12.1	0.6	1	26	A)
	"	"	14	52.2	15	12.2	0.3	1	49	B)
3649	"	10	21	17			0.2	2	31	A)
	"	"	22	12			trace	1	37	B)
3650	"	11	11	13			trace	0	16	A)
	"	"	11	15			trace	0	8	B)
3651	"	"	16	30			trace	0	5	A Only.
3652	"	13	2	52			trace	0	13	A Only.
3653	"	14	12	24			0.2	0	14	A)
	"	"	12	22			0.1	0	13	B)
3654	"	15	0	51			0.1	0	9	A)
	"	"	0	51			0.1	0	9	B)
3655	"	"	23	5			trace	0	2	A)
	"	"	23	10			trace	0	2	B)
3656	"	17	12	55			0.2	0	52	A)
	"	"	12	59			0.2	0	44	B)
3657	"	"	15	15			trace	0	11	A)
	"	"	15	16			trace	0	14	B)
3658	"	18	22	56			0.2	7	44	A Only.
3659	"	19	8	14			trace	0	15	A)
	"	"	8	12			trace	0	23	B)
3660	"	"	19	52			0.1	1	25	A Only.
3661	"	20	0	12			0.2	7	4	A)
	"	"	1	40			trace	6	34	B)

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For the month of May 1916.

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Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~KHEDIVIAL~~ OBSERVATORY, HELWAN, EGYPT.~~Director~~ Superintendent H. Knox-Shaw.

L.N. 2230-1913-3000 ex.

No.	DATE 191 <u>6</u>	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3662	May 20	22	20			0.2	0	33	A)
	"	22	21			0.1	0	17	B)
3663	"	23	55			0.1	5	55	A Only.
3664	23	22	55.3	23	0.5	0.5	0	37	A) S. at 22 <sup>h</sup> 59 <sup>m</sup> .8
	"	22	55.8	23	0.5	0.6	0	34	B) S. at 22 <sup>h</sup> 59 <sup>m</sup> .8
3665	24	2	48			trace	0	6	A Only.
3666	"	6	36			trace	0	18	A Only.
3667	"	13	2			trace	0	3	A)
	"	13	2			trace	0	5	B)
3668	"	22	56			trace	0	8	A)
	"	22	55			trace	0	8	B)
3669	26	3	13			trace	0	50	A)
	"	3	7			trace	0	59	B)
3670	27	10	57			0.1	0	24	A)
	"	11	00			0.2	0	29	B)
3671	28	15	19			0.1	0	7	A)
	"	15	20			trace	0	6	B)
3672	29	12	21			0.1	0	14	A Only.
3673	31	2	5			0.1	0	4	A)
	"	2	7			0.3	0	7	B)



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of June 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

Director Superintendent H. Knox-Shaw.

I.S. 2250-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
	191 <u>6</u>		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
3674	June	1	15	13			0.2	0	58	A)
	"	"	15	13			0.2	0	57	B)
3675	"	"	20	20.4	20	20.9	0.2	0	4	A)
	"	"	20	22.6	20	23.2	0.3	0	8	B)
3676	"	2	0	41			0.1	0	37	A)
	"	"	0	43			0.1	0	37	B)
3677	"	"	14	24			0.1	1	16	A)
	"	"	14	24			trace	1	12	B)
3678	"	3	5	7			0.1	0	14	A)
	"	"	5	7			0.1	0	8	B)
3679	"	5	0	20			0.1	0	13	A)
	"	"	0	26			trace	0	12	B)
3680	"	"	2	2			0.2	0	48	A)
	"	"	2	3			0.1	0	34	B)
3681	"	6	14	35			0.2	1	24	A)
	"	"	14	30			trace	1	13	B)
3682	"	7	9	15			0.2	0	9	A Only ?
3683	"	9	21	49			0.1	2	11	A)
	"	"	21	49			0.1	0	53	B)
3684	"	11	0	56			0.1	0	50	A)
	"	"	0	59			trace	0	39	B)
3685	"	13	23	32			trace	0	12	A Only.
3686	"	14	13	57	14	24.8	0.3	1	23	A)
	"	"	13	56	14	22.8	0.3	1	16	B)
3687	"	15	11	38			0.2	3	30	A)
	"	"	11	40			0.2	3	6	B)
3688	"	"	16	29.0	16	34.3	0.5	2	30	A) S. at 16 <sup>h</sup> 32 <sup>m</sup> 5
	"	"	16	31.1	16	36.3	0.5	2	28	B) S. at 16 <sup>h</sup> 35 <sup>m</sup> 0
3689	"	16	2	4			0.1	0	31	A)
	"	"	2	5			0.1	0	29	B)
3690	"	"	23	19			0.2	0	28	A)
	"	"	23	18			0.2	0	25	B)
3691	"	18	22	37			trace	0	20	A)
	"	"	22	40			0.1	0	15	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of June 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

Director Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 ex.

No.	DATE 191 <u>6</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3692	June 19	2	16			0.1	0	48	A)
	"	2	16			trace	0	51	B)
3693	"	18	34			0.1	0	33	A)
	"	18	36			trace	0	24	B)
3694	"	23	14			trace	0	49	A)
	"	23	15			trace	0	52	B)
3695	20	8	7			trace	0	10	A)
	"	8	8			trace	0	3	B)
3696	"	23	27			0.2	0	26	A)
	"	23	32			trace	0	29	B)
3697	21	11	46			0.1	0	14	B Only. A not working.
3698	"	20	19			0.2	0	12	B Only. " " "
3699	"	21	50	22	16.9	0.5	2	13	B Only. " " "
3700	24	4	15	4	19.0	0.5	0	34	B Only. " " "
3701	"	7	56			trace	0	14	A)
	"	7	58			trace	0	16	B)
3702	25	10	13	10	18.3	0.4	0	34	A)
	"	10	14	10	18.5	0.3	0	28	B)
3703	28	18	7			0.2	0	14	A)
	"	18	12			0.1	0	11	B)
3704	29	7	40			0.2	0	34	A)
	"	7	46			0.1	0	19	B)
3705	30	3	19	4	12.6	1.1	3	37	A)
	"	3	23	4	15.6	0.3	3	23	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of July 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute: 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

~~Director~~ Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.		DURATION.		REMARKS.
	1916.		H.	M.	H.	M.	mm.	H.	M.		
3706	July	5	15	25			0.1	0	25	A)	
		"	15	42			0.1	0	08	B)	
3707		8	9	59			0.2	1	49	A)	
		"	10	04			0.2	1	43	B)	
3708		12	1	15			Trace	0	10	A Only	
3709		"	15	27			0.2	0	16	A)	
		"	15	30			0.1	0	04	B)	
3710		13	15	52			0.2	0	21	A)	
		"	15	59			Trace	0	08	B)	
3711		14	15	47			0.1	0	13	A Only	
3712		"	20	41			0.1	0	07	A)	
		"	20	43			0.1	0	06	B)	
3713		15	0	47			0.2	0	53	A)	
		"	0	49			Trace	0	39	B)	
3714		"	19	42			0.1	0	06	A Only	
3715		16	15	21			0.1	0	29	A)	
		"	15	23			Trace	0	06	B)	
3716		"	18	37			0.2	1	25	A)	
		"	19	07			0.1	0	40	B)	
3717		17	1	12			0.1	0	37	A)	
		"	1	16			Trace	0	26	B)	
3718		"	8	12			Trace	0	03	A)	
		"	8	12			0.1	0	02	B)	
3719		"	11	32			Trace	0	13	A Only	
3720		19	15	24			0.1	0	03	A)	
		"	15	25			0.2	0	06	B)	
3721		21	22	23			0.1	0	51	A)	
		"	22	32			0.1	0	35	B)	
3722		23	10	42			Trace	0	44	A) Only	
3723		27	3	8.6	3	8.8	0.3	0	15	A)	
		"	3	9.6	3	10.0	0.2	0	11	B)	

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of July 1916 .

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.  
 1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.  
 Seismograph A records E.W. motion; Seismograph B records N.S. motion.

## REGISTER FROM KHEDIVAL OBSERVATORY, HELWAN, EGYPT.

Director Superintendent H. Knox-Shaw.

I.S. 2226-1913-3000 ex.

No.	DATE 1916.	Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3724	July 27	12	04	12	38.7	0.4	1	22	A)
	"	12	13			0.2	1	01	B)
3725	28	18	39			0.1	0	51	A)
	"	18	50			trace	0	33	B)
3726	29	23	57			trace	0	02	B Only
3727	30	5	56			0.1	0	02	B Only
3728	31	0	17			trace	0	08	A)
	"	0	18			0.1	0	05	B)

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## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of August 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute: 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~THE~~ OBSERVATORY, HELWAN, EGYPT.

Director Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 ex.

No.	DATE 1916.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3729	Aug. 3	1	50	2	55.7	0.4	2	45	A)
	"	1	50			0.2	2	49	B)
3730	" 22	54				trace	0	33	A Only
3731	5 0	13				trace	0	09	A Only
3732	" 13	17				trace	0	08	A)
	" 13	20				trace	0	08	B)
3733	6 23	45				0.1	0	35	A)
	" 23	49				trace	0	31	B)
3734	7 2	52				trace	0	23	A)
	" 2	59				trace	0	19	B)
3735	8 4	49				0.2	1	00	A)
	" 4	49				0.1	0	45	B)
3736	" 19	45				0.1	0	08	A)
	" 19	43				trace	0	08	B)
3737	12 5	45				trace	0	21	A Only
3738	" 19	16				0.1	0	07	A)
	" 19	17				trace	0	05	B)
3739	14 17	36				trace	0	06	A Only, very slight.
3740	" 21	23				0.2	0	32	A)
	" 21	29				0.1	0	33	B)
3741	15 14	18				trace	0	02	A)
	" 14	08				trace	0	01	B)
3742	16 7	16				0.3	1	24	A)
	" 7	16				0.2	1	17	B)
3743	16 13	05				0.2	0	28	A)
	" 13	05				0.1	0	27	B)
3744	17 11	57				0.1	0	10	A Only
3745	" 20	32				trace	0	04	A Only, very slight.
3746	20 5	36				0.2	0	28	A)
	" 5	38				0.1	0	42	B)
3747	21 15	21				0.1	0	50	A)
	" 15	34				trace	0	31	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of August 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~KHEDIVIAL~~ OBSERVATORY, HELWAN, EGYPT.~~Bazzer~~ Superintendent H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE 1916 .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3748	Aug. 24	0	03			0.1	0	44	A Only
3749	25	10	03	10	56.2	0.9	3	06	A)
		10	03			0.3	2	19	B)
3750	26	11	11	12	00.0	0.3	1	40	A)
		11	16			0.1	1	14	B)
3751	"	21	26			0.1	0	05	A)
		21	32			trace	0	07	B)
3752	27	23	06			0.1	1	13	A)
		23	06			trace	0	53	B)
3753	28	6	48.1	7	11.6	2.5	4	00	A) S. at 6 <sup>h</sup> .54 <sup>m</sup> .2
		6	48.2	7	7.6	3.1	3	12	B) S. at 6 54.2
3754	30	16	58			0.1	0	33	A)
		17	04			trace	0	05	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of September 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute: 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~KHEDIVIAL~~ OBSERVATORY, HELWAN, EGYPT.~~Director~~ Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 ox.

No.	DATE 191 <u>6</u>	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3755	Sept. 1	21	40			0.1	0	28	A)
	"	21	50			trace	0	21	B)
3756	2	17	40			0.1	0	25	A)
	"	17	41			trace	0	25	B)
3757	3	0	04			0.2	0	37	A)
	"	0	05			0.1	0	30	B)
3758	"	7	33			0.2	4	32	A)
	"	7	44			0.1	2	38	B)
3759	5	22	35			0.2	2	39	A)
	"	22	37			0.1	2	29	B)
3760	6	9	51			trace	0	45	A Only
3761	9	13	17			0.2	0	25	A Only
3762	11	6	44			—	2	30	A) Maximum lost.
	"	6	45				1	22	B) " "
3763	15	7	14	8	4.0	0.5	3	10	A)
	"	7	14			0.3	1	58	B)
3764	16	0	53			trace	0	02	A)
	"	0	54			trace	0	06	B)
3765	20	11	55			trace	0	05	A)
	"	11	55			trace	0	03	B)
3766	23	6	12				2	24	A) Maximum lost.
	"	6	12				1	52	B) " "
3767	27	15	06	15	16.3		0	55	A)
	"	15	06	15	15.4		0	27	B)
3768	"	23	25			0.2	0	19	A)
	"	23	25			trace	0	11	B)
3769	28	12	47			0.1	0	29	A Only
3770	29	19	26	20	6.1	0.8	2	01	A)
	"	19	30			0.1	1	08	B)
3771	30	17	16			trace	0	19	A Only

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of October 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.  
 1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.  
 Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~KHEDIVIAL~~ OBSERVATORY, HELWAN, EGYPT.

Director Superintendent H. Knox-Shaw.

I.N. 2250-1913-3000 ex.

No.	DATE 1916.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3772	Oct. 1	2	49			0.3	2	4	@ A
3773	<sup>2</sup> 3	1	52.2	2	38.8	4.8	3	15	A
3774	" 12	35				0.2	0	11	A
3775	7	6	27			trace	0	18	A
3776	" 13	19				0.1	0	33	A
3777	9	5	25			trace	0	6	A
3778	11	3	11			0.1	0	18	A
3779	" 18	25				0.2	2	15	A
3780	14	20	7			0.2	0	28	A
3781	17	22	10			trace	0	9	A
3782	20	17	25.1	19	6.2	0.7	3	28	A
3783	21	11	2			trace	0	7	A
3784	" 19	51				0.2	1	7	A
3785	" 22	21				0.1	1	45	A
3786	23	11	5			0.2	0	52	A
3787	24	16	54			0.1	0	27	A
3788	26	2	57			0.1	3	58	A
3789	28	3	56			trace	0	4	A Very slight.
3790	" 17	39				0.1	1	3	A
3791	30	2	23			trace	0	43	A
3792	" 12	2				0.2	0	34	A
3793	31	1	13			0.2	1	22	A
3794	" 10	22				trace	0	3	A
3795	" 15	43.4	16	31.1		2.3	3	26	A S. at 15 <sup>h</sup> 54 <sup>m</sup> .5

@ Seismograph B. not working from the 1st October 1916.



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of November 1916.

Time is Greenwich Civil Mean Time, in hours, minutes, and decimals of a minute; 0 or 24 H = midnight.

1 millimetre of amplitude = . . . . . Velocity of paper = 25 centimetres per hour.

Seismograph A records E.W. motion; Seismograph B records N.S. motion.

REGISTER FROM ~~KHEDIVIAL~~ OBSERVATORY, HELWAN, EGYPT.~~Director~~ Superintendent H. Knox-Shaw.

I.N. 2220-1913-3000 ex.

No.	DATE 1916.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
3796	Nov. 3	22	48			0.2	0	39	A
3797	4	3	08			0.2	0	10	A
3798	9	6	33			0.1	0	09	A
3799	10	7	49			0.2	0	18	A
3800	"	16	41			0.1	0	53	A
3801	11	8	25			0.2	0	19	A
3802	"	13	47			0.2	4	01	A
3803	13	12	11			0.2	2	02	A
3804	"	16	29			trace	0	02	A
3805	14	14	02			0.2	0	13	A
3806	"	22	54			0.2	1	29	A
3807	15	23	37			0.2	0	37	A
3808	16	22	30			0.2	1	00	A
3809	18	11	57			0.2	2	22	A
3810	"	18	32			trace	0	06	A
3811	"	19	04			trace	0	14	A
3812	@	22	20 33			0.1	0	29	A
3813	23	5	59			trace	0	02	A
3814	24	1	17			trace	0	03	A Very slight.
3815	"	4	07			0.2	1	10	A
3816	"	12	19.5	12	38.5	0.8	2	13	A S. at 12 <sup>h</sup> 24 <sup>m</sup> .8
3817	"	23	28			0.1	0	51	A
3818	25	2	06			0.3	0	29	A
3819	"	10	58			0.2	0	06	A
3820	"	20	14			trace	0	06	A
3821	"	21	21			0.2	0	28	A
3822	26	5	40			0.1	0	13	A
3823	28	14	47			0.2	0	16	A
3824	29	20	51			0.1	0	09	A
3825	30	3	38	4	25.5	0.5	2	02	A

@ Seismograph not working from 19th at 14h. to 22nd at 7h.