

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of January 1917

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 19 <u>B</u>	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		min.	H.	
4333	Jan. 1	15	11			trace	0	2	A
4334	" 2	4	43			0.1	0	25	A
4335	" "	7	24			trace	0	2	A
4336	" 3	6	52			trace	0	3	A
4337	" "	8	57			trace	0	3	A
4338	" 4	5	1			0.2	1	58	A
4339	" "	8	15			trace	1	37	A
4340	" "	16	20			0.1	2	28	A
4341	" 5	5	22			trace	1	24	A
4342	" "	8	34			0.1	0	53	A
4343	" "	13	43			0.1	0	4	A
4344	" "	19	42			trace	0	10	A
4345	" 6	7	52			trace	1	41	A
4346	" "	14	25			---	23	35	A Maximum lost.
4347	" 7	23	59			0.1	10	5	A
4348	" 8	13	45			trace	0	4	A
4349	" 9	4	45			trace	1	41	A
4350	" 11	4	24			0.1	4	59	A
4351	" 12	3	24			---	6	49	A Maximum lost.
4352	" "	19	5			0.1	1	54	A
4353	" "	22	35			---	13	12	A Maximum lost.
4354	" 14	0	51			0.2	9	22	A
4355	" "	20	14			0.2	0	54	A
4356	" 15	16	17			0.2	0	44	A
4357	" 16	3	24			0.1	0	21	A
4358	" "	13	53			0.2	3	13	A
4359	" "	22	37			trace	0	2	A
4360	" 17	2	36			trace	0	10	A
4361	" "	6	19			trace	0	3	A
4362	" 18	10	57			0.1	1	18	A
4363	" 20	2	49			0.1	0	7	A
4364	" 21	0	25			0.2	0	20	A
4365	" "	20	8			0.2	2	47	A
4366	" 22	2	27			0.1	0	7	A
4367	" 23	17	57			0.2	0	30	A
4368	" 24	15	24			0.2	2	24	A
4369	" 25	1	50			0.2	2	33	A
4370	" "	23	25			trace	0	34	A
4371	" 26	5	10			trace	0	53	A
4372	" 27	1	0			0.1	2	57	A
4373	" "	13	3			0.1	0	18	A
4374	" 28	3	3			0.1	2	31	A
4375	" "	8	5			0.1	2	19	A
4376	" 30	2	51			0.1	2	19	A
4377	" "	21	17.021	40.9		1.0	3	40	A
4378	" 31	23	50			trace	0	23	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of February 1918.

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 ax.

No.	DATE 19 <u>18</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
4379	Feb. 1	10	1			0.1	0	8	A
4380	"	22	44			trace	0	11	A
4381	2	8	22			trace	0	19	A
4382	3	13	51.5	15	58.0	0.3	3	4	A
4383	4	8	48			trace	0	14	A
4384	"	18	4			0.2	2	11	A
4385	5	11	7			0.1	0	18	A
4386	6	3	49			0.2	1	57	A
4387	"	15	29			trace	1	35	A
4388	7	0	33	6	21.5	0.5	11	12	A
4389	8	0	15			---	10	21	A Maximum lest.
4390	9	3	53			0.1	2	47	A
4391	"	8	15			trace	1	7	A
4392	"	12	33.8	12	40.5	0.3	1	34	A S. at 12 ^h 36 ^m .3
4393	"	21	6			0.1	0	33	A
4394	10	15	45			0.1	0	38	A
4395	11	10	21			trace	0	28	A
4396	12	3	26			0.2	0	58	A
4397	"	21	13			trace	0	20	A
4398	"	23	4			0.2	1	10	A
4399	13	2	43.4	7	13.0	0.7	7	44	A
4400	"	20	57			0.2	3	30	A
4401	14	15	47			trace	0	15	A
4402	18	17	36			0.1	1	12	A
4403	19	16	42			0.2	3	6	A
4404	"	22	24			trace	0	55	A
4405	20	17	19			trace	0	29	A
4406	"	23	56			0.1	0	50	A
4407	21	2	31			0.1	0	17	A
4408	"	7	56			trace	0	10	A
4409	23	19	43			0.1	0	58	A
4410	"	22	8			trace	0	49	A
4411	24	3	57			---	6	2	A Maximum lest.
4412	"	17	1			trace	0	35	A
4413	"	23	24			0.2	1	52	A
4414	25	6	44			0.2	2	48	A
4415	26	12	7			trace	0	25	A
4416	"	14	25			trace	0	14	A
4417	27	3	38			0.1	3	19	A
4418	"	10	15			trace	0	47	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of March 1918.

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 0x.

No.	DATE 19 <u>8</u> .	Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
4419	March 2	5	56			0.2	0	59	A
4420	" 3	9	36			trace	0	9	A
4421	" 5	0	59			trace	0	13	A
4422	" 6	21	20			trace	0	24	A
4423	" 8	19	22			0.1	0	10	A
4424	" 10	14	45			0.1	1	36	A
4425	" 11	17	25			0.1	0	47	A
4426	" 12	4	51			0.1	1	2	A
4427	" 13	5	53			trace	0	5	A
4428	" 14	10	7			0.1	0	25	A
4429	" 16	13	55.0	14	46.2	0.5	1	50	A
4430	" 17	13	16.3	13	54.8	0.9	1	20	A
4431	" 18	4	45			0.1	3	9	A
4432	" 19	6	17			---	2	40	A <i>Maximum lost.</i>
4433	" 20	1	44			trace	1	26	A
4434	" "	11	33			0.2	0	53	A
4435	" 21	1	26			trace	0	4	A
4436	" "	16	32			trace	0	4	A
4437	" "	17	25			0.1	1	11	A
4438	" 22	6	28			---	---	---	A End lost between 7&8 ^h
4439	" 23	0	34			trace	0	51	A
4440	" "	22	20			0.2	0	8	A
4441	" 24	5	37			0.1	0	28	A
4442	" "	22	53.6	23	31.7	1.4	1	37	A
4443	" 25	5	26			trace	0	13	A
4444	" "	17	38			0.1	0	23	A
4445	" "	23	57			---	8	21	A <i>Maximum lost.</i>
4446	" 27	4	36			0.2	0	45	A
4447	" "	23	34			0.2	2	4	A
4448	" 30	1	10			0.1	0	15	A
4449	" "	3	31			0.1	0	15	A
4450	" "	5	43			0.1	0	3	A
4451	" 31	0	6			0.2	0	20	A
4452	" "	5	53			trace	0	13	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of April 1918.

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. 2230-1912-3000 ex.

No.	DATE 191 <u>8</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
4453	April 1	8	4			trace	0	22	A
4454	" 3	1	49			0.2	0	29	A
4455	" 5	24				trace	0	9	A
4456	" 4	17	0			trace	0	13	A
4457	" 5	15	22			0.1	0	13	A
4458	" "	21	51			0.1	0	12	A
4459	" 8	15	47			0.1	0	4	A
4460	" 10	2	15			0.3	3	8	A
4461	" 13	1	2.2	1	36.1	0.9	2	53	A
4462	" "	16	0			trace	0	3	A
4463	" 15	8	52			0.2	0	14	A
4464	" "	20	14			0.1	0	43	A
4465	" 16	11	45			0.3	0	27	A
4466	" 17	3	40			0.1	0	23	A
4467	" 21	22	57.2	23	45.7	0.6	3	24	A
4468	" 22	5	19			0.1	0	7	A
4469	" "	17	51			0.1	0	13	A
4470	" 23	15	52			0.1	0	47	A
4471	" 24	4	33			0.1	0	8	A
4472	" 25	2	25.1	2	31.4	0.5	1	20	A S. at 2 ^h 29 ^m 0
4473	" "	22	48			0.2	8	36	A
4474	" 27	11	7			0.1	0	7	A
4475	" "	14	20			trace	0	11	A
4476	" "	15	54			0.1	0	28	A
4477	" 28	0	14			0.1	0	31	A
4478	" "	11	21.1	11	29.1	0.5	0	55	A S. at 11 ^h 27 ^m 5
4479	" 29	11	33			0.2	0	16	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of May 1918.

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.N. 2230-1913-3000 ex.

No.	DATE 1918.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		mm.	H.	
4480	May 1	6	13			0.2	0	30	A
4481	"	13	31			trace	0	5	A
4482	2	1	50			trace	0	29	A
4483	4	6	17			---	1	46	A Maximum lost.
4484	5	1	41			0.1	0	3	A
4485	6	6	7			0.1	0	17	A
4486	7	15	48			trace	0	4	A
4487	11	2	38			trace	0	15	A
4488	"	22	11			0.2	1	46	A
4489	13	8	15			trace	0	6	A
4490	14	15	17			trace	0	4	A
4491	"	21	15			trace	0	4	A
4492	16	22	41			0.1	0	23	A
4493	18	16	29			0.2	0	9	A
4494	19	0	43.1	1	2.6	0.3	0	55	A
4495	20	14	47.0	15	21.3	9.0	6	34	A S. at 14 ^h 49 ^m .3
4496	21	8	42			0.1	0	12	A
4497	@ 23	6	9			0.1	0	7	A
4498	"	11	13			0.4	4	34	A
4499	24	19	28			trace	0	6	A
4500	25	11	7.3	11	7.6	0.4	0	12	A
4501	"	16	9			trace	0	2	A
4502	"	19	45.1	19	49.5	3.4	1	30	A S. at 19 ^h 45 ^m .6
4503	26	20	34			0.1	0	25	A
4504	27	10	18			0.1	0	6	A
4505	30	5	29			0.1	0	33	A
4506	"	16	5			0.1	0	26	A
4507	31	2	6			0.1	0	5	A
4508	"	21	9			0.3	0	47	A
@	Record	lost on the 22 nd		from 0 ^h		to 7 ^h			

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of July 1918.

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 ~~KHEDIWIAH~~ OBSERVATORY, HELWAN, EGYPT.Director H. Knox-Shaw. Director

I.N. 2220-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.	
	19 <u>B</u>		H.	M.	H.	M.	mm.	H.	M.		
4546	July	1	6	21.9	7	13.1	0.5	3	33	A	
4547	"	2	8	30			trace	0	34	A	
4548	"	11	41				0.1	0	10	A	
4549	"	3	Large earthquake recorded between							7h. & 13h.	A
4550	"	4	11	28			0.1	0	26	A	
4551	"	5	15	55			trace	0	7	A	
4552	"	6	21	24			trace	0	14	A	
4553	"	8	10	31.5	10	57.4	3.6	4	16	A	
4554	"	9	2	20			trace	1	15	A	
4555	"	11	9	54			0.1	0	25	A	
4556	"	"	17	43			trace	0	8	A	
4557	"	"	23	27			trace	0	10	A	
4558	"	12	20	57			trace	0	19	A	
4559	"	15	0	51			0.2	2	27	A	
4560	"	"	16	52			trace	0	26	A	
4561	"	16	20	5.5	20	11.5	1.1	1	41	A (a local shock happened in the same time.)	
4562	"	17	0	22			0.2	0	56	A	
4563	"	18	14	57			trace	0	8	A	
4564	"	20	18	47			trace	0	12	A	
4565	"	21	4	14			trace	0	11	A	
4566	"	"	6	30			---	6	4	A Maximum lost.	
4567	"	23	14	37			0.1	1	11	A	
4568	"	24	11	21			0.2	2	16	A	
4569	"	"	15	38			0.1	0	42	A	
4570	"	"	19	5			trace	0	12	A	
4571	"	25	13	46			trace	0	8	A	
4572	"	"	21	14			0.2	1	10	A	
4573	"	26	2	50			trace	0	5	A	
4574	"	28	22	52			trace	0	14	A	
4575	"	29	5	52			trace	0	16	A	
4576	"	"	12	39			0.1	1	10	A	
4577	"	"	16	5			trace	0	3	A	
4578	"	"	17	9.6	17	19.9	0.4	3	0	A	
4579	"	31	11	21			trace	0	10	A	
4580	"	"	15	2			0.3	2	47	A	
4581	"	"	23	23			0.1	1	13	A	

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of August 1918.

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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 H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
	191 <u>8</u> .		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
4582	Aug.	1	13	20			0.1	0	39	A
4583	"	"	16	46			trace	0	4	A
4584	"	3	9	8			trace	0	5	A
4585	"	"	10	15			trace	0	56	A
4586	"	4	20	10			0.1	0	38	A
4587	"	5	0	0			0.1	0	35	A
4588	"	"	2	8			0.3	2	5	A
4589	"	8	5	2			0.2	0	41	A
4590	"	"	10	9			0.2	3	17	A
4591	"	9	0	43.4	0	51.4	0.7	0	40	A S. at 0 ^h 44 ^m .9
4592	"	"	20	59			trace	0	10	A
4593	"	10	2	55			0.1	0	33	A
4594	"	"	18	54			trace	0	14	A
4595	"	11	11	51			0.1	1	58	A
4596	"	"	23	53			trace	0	46	A
4597	"	12	5	43			trace	0	13	A
4598	"	15	12	30.51 ³ 7		22.6	8.9	9	27	A
4599	"	16	0	30			trace	0	30	A
4600	"	"	3	40			0.2	2	58	A
4601	"	"	7	47			0.2	4	46	A
4602	"	"	17	52			trace	0	8	A
4603	"	17	4	18			trace	0	7	A
4604	"	"	7	19.3	8	2.2	0.7	2	22	A
4605	"	"	11	43			0.1	0	52	A
4606	"	18	6	21			0.1	0	35	A
4607	"	"	9	55			trace	0	16	A
4608	"	19	17	52			trace	0	54	A
4609	"	"	22	4			0.1	0	20	A
4610	"	20	0	57			trace	0	16	A
4611	"	21	1	8			trace	0	20	A
4612	"	"	11	50			trace	0	3	A
4613	"	"	15	36			trace	0	12	A
4614	"	23	6	21	----		---	4	27	A Maximum lost.
4615	"	"	23	12			trace	1	40	A
4616	"	24	17	11			trace	0	14	A
4617	"	25	1	31			trace	0	25	A
4618	"	"	5	58			trace	0	9	A
4619	"	26	6	8			0.2	----		A End lost about 7h.
4620	"	29	6	44.8	6	51.6	0.6	----		A End lost about 7h. S. at 6h.46m.
4621	"	31	22	17			0.1	1	16	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of September 1918.

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

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

I.N. 2250-1913-3000 ox.

No.	DATE 1918.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
4622	Sept. 1	6	31			0.1	0	12	A
4623	"	23	13			trace	0	6	A
4624	2	14	46			0.1	2	16	A
4625	4	4	0			trace	0	34	A
4626	6	12	41			trace	0	10	A
4627	7	7	40			0.1	1	4	A
4628	"	17	29.3	18	14.0	13.7	9	53	A
4629	8	6	4			0.2	2	55	A
4630	"	11	56			0.1	2	59	A
4631	"	18	23			trace	0	4	A
4632	"	21	16			trace	0	13	A
4633	"	22	52			trace	0	59	A
4634	9	12	24			trace	0	54	A
4635	"	15	9			trace	0	18	A
4636	10	14	26			trace	0	06	A
4637	11	3	20			trace	0	13	A
4638	"	4	21			0.2	---	---	A End lost about 7h.
4639	"	11	21			trace	0	12	A
4640	"	12	31			trace	0	14	A
4641	"	20	39			trace	0	7	A
4642	"	21	14			trace	0	6	A
4643	12	9	48			0.1,	0	33	A
4644	"	13	40			0.1	2	45	A
4645	"	20	39			trace	0	7	A
4646	13	7	38			0.1	2	38	A
4647	"	11	37			trace	0	42	A
4648	14	17	19.3	18	7.6	0.4	3	19	A
4649	16	14	20			0.1	1	25	A
4650	18	19	22			trace	0	10	A
4651	19	20	44			trace	0	21	A
4652	22	10	6.7	10	39.4	0.6	5	43	A
4653	23	2	16.9			0.2	0	15	A Felt in Cairo.
4654	"	13	19			trace	0	21	A
4655	"	21	7			trace	0	9	A
4656	25	11	17			trace	1	2	A
4657	"	20	6			trace	0	22	A
4658	27	2	40			trace	0	21	A
4659	"	5	11			0.2	0	26	A
4660	28	10	48			0.2	1	42	A
4661	29	12	8.8	12	15.2	4.4	3	25	A
4662	30	13	59			0.3	8	23	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of October 1918.

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 H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
	191 <u>8</u>		H.	M.	H.	M.	mm.	H.	M.	
4663	Oct.	1	1	31.3	1	37.8	0.5	2	31	A
4664		2	0	40			0.1	2	8	A
4665		3	0	3			0.1	0	22	A
4666		"	8	26			0.1	0	42	A
4667		4	2	9			0.2	0	40	A
4668		"	6	28			trace	0	8	A
4669		6	3	46			0.1	0	36	A
4670		9	9	31			0.2	1	28	A
4671		10	16	58			trace	0	9	A
4672		11	14	27.4	15	14.2	5.6	5	7	A
4673		"	21	5			trace	0	14	A
4674		"	23	25			trace	0	13	A
4675		13	1	58			trace	0	9	A
4676		"	5	54			trace	0	16	A
4677		"	13	22			0.1	2	3	A
4678		14	0	50			0.1	1	22	A
4679		"	12	20.3	14	3.5	0.3	2	54	A
4680		15	18	11			0.2	0	17	A
4681		16	8	34			0.1	0	20	A
4682		"	10	48			trace	0	8	A
4683		"	20	26			0.2	2	26	A
4684		18	22	22			0.1	0	47	A
4685		19	3	19			0.2	3	19	A
4686		"	21	13			0.2	0	19	A
4687		22	8	32			trace	0	50	A
4688		"	19	52			0.1	0	36	A
4689		"	21	38			0.1	0	17	A
4690		25	3	55.9	4	50.4	0.5	3	2	A
4691		"	19	30			0.1	1	1	A
4692		26	2	43			trace	0	39	A
4693		"	6	21			trace	0	22	A
4694		"	17	59			trace	0	25	A
4695		27	15	48.6	18	23.8	0.9	5	17	A
4696		28	14	27.2	15	36.8	0.4	1	44	A
4697		29	12	54			0.1	2	12	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of November 1918.

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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 H. Knox-Shaw.

I.N. 2330-1913-3000 0X.

No.	DATE 1918	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
4698	Nov. 1	16	42			0.1	0	25	A
4699	" 2	11	42			0.1	1	41	A
4700	" 3	3	52			0.1	2	45	A
4701	" "	11	36			0.2	2	39	A
4702	" "	23	4			trace	0	30	A
4703	" 4	3	40			trace	1	37	A
4704	" "	6	36			0.1	4	0	A
4705	" "	13	56			trace	0	9	A
4706	" 5	8	13			0.1	1	30	A
4707	" "	23	43			trace	0	21	A
4708	" 6	3	46			trace	0	33	A
4709	" 8	4	51.0	5	39.7	8.3	5	3	A
4710	" 10	8	35			trace	0	44	A
4711	" "	15	21			0.2	0	57	A
4712	" "	23	57			---	11	32	A Maximum lost, small tremors
4713	" 12	3	8			trace	0	11	A
4714	" "	5	56			---	3	18	A Maximum lost, small tremors
4715	" "	21	58.0	22	44.2	0.4	2	24	A
4716	" 13	2	54			0.2	1	26	A
4717	" "	6	2			trace	0	8	A
4718	" "	9	9			0.2	1	53	A
4719	" 14	2	25			0.1	2	37	A
4720	" "	8	58			0.1	1	36	A
4721	" "	13	44			0.1	1	29	A
4722	" "	16	57			0.2	1	2	A
4723	" "	18	47			trace	0	7	A
4724	" 15	3	59			trace	1	44	A
4725	" "	9	12			trace	0	24	A
4726	" 18	18	55.5	19	47.8	5.2	4	8	A S. at 18 ^h 59 ^m .7
4727	" 19	5	53			trace	0	4	A
4728	" 20	4	34			0.1	0	20	A
4729	" 21	1	37			trace	0	8	A
4730	" "	23	50			trace	0	28	A
4731	" 22	16	12			0.3	2	41	A
4732	" "	21	12			trace	0	17	A
4733	" 23	1	37			trace	0	6	A
4734	" "	6	24			trace	0	12	A
4735	" "	23	11.8	0	1.3	1.0	3	21	A S. at 23 ^h 16 ^m .2
4736	" 25	2	31			0.1	0	24	A
4737	" "	12	1			0.1	1	3	A
4738	" 27	1	34			trace	0	3	A
4739	" "	2	50			0.1	0	20	A
4740	" "	10	0			0.1	0	21	A
4741	" 28	2	47			0.2	0	18	A
4742	" "	5	45			0.2	1	46	A
4743	" "	20	54			0.1	0	20	A
4744	" 29	2	47			---	9	11	A Small tremors, maximum lost
4745	" 30	3	31			---	6	32	A Small tremors, maximum lost
4746	" "	12	6			trace	0	34	A

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of December 1918.

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

REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

Director H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.		DURATION.		REMARKS.
	191 <u>8</u> .		H.	M.	H.	M.	mm.	H.	M.		
4747	Dec.	1	2	41.9	3	0.7	2.7	3	37	A S. at 2 ^h 43 ^m .6	
4748		2	9	58.9	10	32.6	8.9	4	15	A	
4749		4	1	32			trace	0	15	A	
4750	"	12	3.2		12	58.9	> 15.4	8	34	A S. at 12 ^h 8 ^m .4	
4751	"	23	38				---	11	31	A Small tremors, maximum lost	
4752		5	18	35			0.1	0	9	A	
4753		"	21	5			0.1	1	1	A	
4754		"	23	46.6	8	32.7	1.0	13	55	A	
4755		7	8	19			trace	0	3	A	
4756		"	13	46			trace	0	7	A	
4757		8	4	40			0.1	2	3	A	
4758		"	10	41			0.1	0	24	A	
4759		"	20	38			trace	0	37	A	
4760		9	2	4			0.1	0	33	A	
4761		"	4	36			0.1	1	57	A	
4762		"	12	10			0.1	0	26	A	
4763		"	18	29			0.3	3	38	A	
4764		10	0	48			trace	1	4	A	
4765		11	18	52			trace	0	39	A	
4766		12	10	35			trace	0	3	A	
4767		13	1	32			trace	0	15	A	
4768		"	2	25			trace	0	17	A	
4769		"	3	24			0.1	3	29	A	
4770		14	4	55			trace	0	38	A	
4771		"	19	2			0.1	2	14	A	
4772		"	22	54			0.1	0	40	A	
4773		16	3	20			0.2	0	51	A	
4774		"	10	29			0.1	0	16	A	
4775		"	20	27			trace	0	14	A	
4776		17	8	2			0.1	0	4	A	
4777		18	11	27			trace	0	8	A	
4778		"	22	4.5	22	15.6	0.4	1	2	A	
4779		19	20	52			0.1	0	55	A	
4780		20	10	46			trae	0	12	A	

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of December 1918.

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REGISTER FROM KHEDIVIAL OBSERVATORY, HELWAN, EGYPT.

Director H. Knox-Shaw.

I.N. 2250-1913-3000 ox.

No.	DATE 191 <u>8</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
4781	Dec. 21	2	41			0.1	4	6	A
4782	"	9	49			0.1	1	25	A
4783	22	1	31			0.1	3	51	A
4784	"	8	5			trace	0	42	A
4785	"	21	59			trace	0	17	A
4786	23	3	12			trace	1	3	A
4787	"	5	24			trace	0	32	A
4788	"	10	27			0.2	0	21	A
4789	"	13	40			trace	0	2	A
4790	"	20	47			trace	0	35	A
4791	24	1	3.7			---	13	13	A Small tremors, maximum lost.
4792	"	19	21			0.2	13	38	A
4793	25	10	14			0.2	2	55	A
4794	"	20	54			trace	0	15	A
4795	26	9	29			trace	0	21	A
4796	27	2	50			0.1	0	19	A
4797	28	9	3			trace	0	7	A
4798	"	17	50			0.3	1	28	A
4799	30	8	22			0.1	1	17	A
4800	31	2	44			trace	0	3	A
4801	"	5	40			trace	0	50	A
4802	"	7	59			trace	0	48	A