

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of January 1921.

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.
	1921.		H.	M.	H.	M.	AMPLITUDE.		H.	M.	
5873	Jan.	1	22	5			trace		0	6	A)
	"	"	22	1			trace		0	5	B)
5874	"	2	16	22			trace		0	4	A)
	"	"	16	22			trace		0	4	B)
5875	"	3	22	12			trace		0	52	A)
	"	"	22	14			trace		1	3	B)
5876	"	4	8	20			trace		0	22	A)
	"	"	8	15			trace		0	59	B)
5877	"	5	23	18			trace		0	4	A)
	"	"	23	19			trace		0	15	B)
5878	"	6	12	31			trace		2	10	A)
	"	"	12	57			trace		1	29	B)
5879	"	"	23	45			trace		0	14	A)
	"	"	23	44			trace		0	15	B)
5880	"	7	1	41			0.4		4	1	A)
	"	"	1	47			0.3		4	3	B)
5881	"	"	10	20			trace		0	17	A)
	"	"	10	13			trace		0	17	B)
5882	"	"	19	12			trace		0	18	A)
	"	"	19	17			trace		0	24	B)
5883	"	8	15	39			0.1		2	4	A)
	"	"	15	34			0.1		2	11	B)
5884	"	9	13	20.5			0.6		3	8	A)
	"	"	13	24.1			0.3		3	9	B)
5885	"	12	1	35			trace		0	2	A)
	"	"	1	35			trace		0	6	B)
5886	"	13	22	50			trace		0	1	A) very slight
	"	"	22	50			trace		0	2	B) " "
5887	"	15	13	46			trace		0	27	A)
	"	"	13	34			trace		0	32	B)
5888	"	16	13	46			trace		0	42	A)
	"	"	13	48			trace		0	32	B)
5889	*	"	21	24			trace		0	45	B only
5890		17	0	1			trace		0	31	B only

\* A not working from Jan. 16th. at 21h. to Jan. 17th. at 7h.

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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 ex.

No.	DATE 19 <u>21</u>	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		mm.	H.	
5891	Jan. 18	4	18			trace	0	4	A only
5892	"	19	2			trace	0	2	B only
5893	19	15	20			0.3	4	2	A)
	"	15	18			0.3	3	57	B)
5894	20	3	0			trace	0	40	A)
	"	3	2			trace	0	30	B)
5895	"	12	23			trace	0	13	A)
	"	12	24			trace	0	10	B)
5896	"	22	9			trace	0	44	A)
	"	22	8			trace	0	45	B)
5897	21	2	3			trace	0	4	B only
5898	"	3	6			trace	0	10	B only
5899	22	18	29			trace	0	7	A)
	"	18	28			trace	0	5	B)
5900	23	3	31			trace	5	54	A)
	"	3	32			trace	6	30	B)
5901	"	16	36			0.1	0	19	A)
	"	16	36			0.1	0	24	B)
5902	24	1	0			trace	7	48	B only, small tremors
5903	"	11	48			0.5	0	29	A)
	"	11	51			0.2	0	36	B)
5904	26	3	51			trace	0	5	A)
	"	3	48			trace	0	8	B)
5905	27	11	34			trace	0	14	A)
	"	11	38			0.2	0	7	B)
5906	"	14	52			trace	0	26	A)
	"	14	53			0.1	0	14	B)
5907	28	10	32			trace	0	4	A only, slight
5908	"	15	24			trace	0	1	A) slight
	"	15	24			trace	0	2	B)
5909	29	21	00			trace	0	39	A)
	"	21	01			0.1	0	23	B)



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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. 2230-1912-3000 ex.

No.	DATE 19 <u>21</u>	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
5910	Jan. 30	0	37			trace	2	23	A)
	"	0	47			trace	0	8	B)
5911	"	4	56			-----	25	50	A) Continuous, small
	"	4	48			-----	28	59	B) tremors. Max. lost.

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of February 1921

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* H. Knox-Shaw.L.S. 2220-1913-3000 ex.

No.	DATE 19 <u>21</u>	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		mm.	H.	
5912	Feb. 1	8	7			trace	0	43	B only, very slight.
5913	" 3	19	49			trace	0	13	A)
	" 19	48				trace	0	13	B)
5914	" 4	8	41.6	9	38.3	0.9	3	16	A)
	" 8	44.0		9	40.0	0.7	3	28	B)
5915	" 6	4	51			0.2	1	19	A)
	" 4	51				0.1	1	15	B)
5916	" 9	20	46			trace	0	5	A)
	" 20	49				trace	0	2	B)
5917	" 10	20	28			trace	1	38	A)
	" 20	28				trace	1	47	B)
5918	" 11	0	21			0.1	2	38	A)
	" 0	28				0.1	2	32	B)
5919	" 12	6	38			trace	0	5	A)
	" 6	40				trace	0	2	B) very slight.
5920	" 13	6	15			trace	0	2	B only
5921	" 13	33				trace	0	7	A)
	" 13	32				trace	0	3	B)
5922	" 21	37				0.1	0	49	A)
	" 21	37				0.2	0	54	B)
5923	" 14	1	24			0.1	1	20	A)
	" 1	23				trace	1	13	B)
5924	" 15	1	56			trace	0	8	A only
5925	" 16	6	6			trace	4	30	A)
	" 6	12				trace	3	21	B) very slight.
5926	" 17	4	43			trace	0	22	A) very slight.
	" 4	55				trace	1	17	B) " "
5927	" 7	57				trace	2	42	A) slight
	" 7	55				trace	2	36	B)
5928	" 18	12	32			trace	0	1	A) slight
	" 12	29				trace	0	6	B)
5929	" 19	14	52			0.3	7	3	A) nearly continuous
	" 15	0				0.3	6	54	B) " "



Date	Comp.	Phase	G.	M.	T.	Period	Amplitude			△	Remarks
							A <sub>EE</sub>	A <sub>NN</sub>	A <sub>ZZ</sub>		
			h.	m.	s.	s.	μ	μ	μ	Km.	
11	Z Z EN	P i i F	6	33	00 33 04						Very weak
			6.9	41							
13	E	M F	12	14							
			12.5								
14	EZ Z Z EN	P i i F	10	46	42 54 08 06						" "
			11.8	58							
15	Z Z	e i F	13	53	09 06						" "
			14.2	54							
18	Z Z E N	i i e F	18	00	06 12 09 36						" "
			15.3	10							
19	EZ Z E E E NE	iP PP PPF S PS M F	15	14	17 39 55 40 34 55				9620		Dilatation
			16.6	24							
20	Z Z Z NE	e e e F	19	06	21 00 24 25						Very weak
			18.5	11							
23	Z Z Z	iP i i F	25	46	49 15 42						Compression
			16.1	47							
23	Z E	e e F	18	11	39 42						Very weak
			18.4	13							
27	E E	e e F	4	29	30 42						" "
			4.3	31							
27	EZ Z E E E E	(iPKP) (PKKP) e e e e F	15	01	34 47 00 15 06 54 42						Compression
			17.5	02							

Tremors were also recorded at :

D	H	D	H	D	H	D	H	D	H
4	9	6	15	10	14	16	3	17	7
19	17	20	3	25	5				



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Director H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

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		H.	M.	H.	M.		mm.	H.	
5930	Feb. 20	5	16			trace	0	13	A)
	"	5	20			trace	0	5	B)
5931	21	2	15			0.2	0	33	A)
	"	2	17			0.1	0	32	B)
5932	"	16	38			trace	2	10	A)
	"	16	21			trace	2	29	B)
5933	"	21	48			trace	0	10	A)
	"	21	52			trace	0	6	B)
5934	22	4	16			trace	1	15	A only
5935	"	5	49			trace	5	4	A) slight
	"	5	52			trace	5	24	B) "
5936	"	22	25			trace	2	56	A only, slight
5937	23	1	45			trace	9	20	A)
	"	1	50			trace	11	7	B)
5938	24	22	16			trace	2	14	A only
5939	25	1	15			trace	9	9	A)
	"	1	16			trace	11	45	B)
5940	27	18	43.9	20	24.8	2.7	5	11	A) Nearly continuous
	"	18	44.0	20	18.7	3.7	5	00	B) " "
5941	28	11	12			trace	0	4	A)
	"	11	11			trace	0	4	B)
5942	"	16	34			trace	0	11	A only

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		H.	M.	H.	M.		mm.	H.	
5943	March 1	4	24			trace	4	48	A)
	"	4	26			trace	4	29	B)
5944	"	13	46			trace	0	6	A) very slight
	"	13	49			trace	0	7	B) " "
5945	3	3	18			0.4	3	2	A) Continuous
	"	3	19			0.4	2	58	B) "
5946	"	8	33.2			0.6	2	37	A)
	"	8	40.6			0.4	2	29	B)
5947	"	21	24			trace	0	19	A)
	"	21	35			trace	0	6	B)
5948	4	13	13			trace	0	44	A)
	"	13	12			trace	0	51	B) slight
5949	5	19	39			trace	0	22	B only
5950	6	20	52			trace	1	6	A)
	"	20	48			trace	1	6	B)
5951	9	11	00			trace	0	8	B only
5952	"	15	22			trace	0	7	A)
	"	15	26			trace	0	7	B)
5953	10	20	38			trace	1	58	A)
	"	20	42			trace	1	54	B)
5954	11	20	19			trace	0	5	A only, very slight
5955	12	2	18			trace	0	2	B only, very slight
5956	"	8	8			trace	0	10	A) slight
	"	8	8			trace	0	7	B) "
5957	"	10	59			trace	1	22	A)
	"	11	22			trace	1	00	B)
5958	15	4	33			trace	0	18	A)
	"	4	40			trace	0	2	B)
5959	"	14	37			trace	18	36	A) Nearly continuous.
	"	14	14			trace	20	00	B) " "
5960	16	13	20			trace	0	40	B only, very slight
5961	17	9	9			trace	0	4	B only, slight



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I.N. 2230-1913-3000 ex.

No.	DATE 19 <u>21</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
5962	Mar. 20	21	37			trace	0	16	A only, very slight
5963	21	4	27			0.1	4	00	A only
5964	22	12	39			trace	2	5	A only
5965	23	2	10			trace	0	13	A only
5966	"	12	24			0.1	0	57	A only
5967	"	15	15			trace	0	16	A only, very slight
5968	"	23	3			0.3	5	8	A only, continuous
5969	24	9	40			0.3	2	54	A only, continuous
5970	"	14	55.3	15	42.0	0.5	3	15	A only, continuous
5971	25	1	28			trace	1	5	A only
5972	26	3	36			trace	0	18	A only
5973	"	14	24			trace	0	17	A)
	"	14	30			trace	0	13	B)
5974	28	8	4.0	8	51.5	0.9	3	10	A) S. at 8 <sup>h</sup> 8.4
	"	8	5.9	8	51.9	0.7	3	25	B)
5975	29	17	56			trace	0	6	A only
5976	"	22	34			0.1	2	47	A only
5977	30	10	44			0.2	0	56	A only
5978	"	15	12.7	16	3.2	0.7	3	21	A only

@ B. not working from March 20. at 8h.8m. to March 26. at 7h.12m.

from March 29. at 19h.33m. to March 31. at 9h.7m.



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of April 1921.

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. 2250-1913-2000 ex.

No.	DATE 1921.	Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
5979	April 1	4	17.5	4	47.9	3.2	3	40	A) Continuous
	"	4	23.3	4	46.2	2.5	3	27	B) "
5980	"	12	22			0.1	2	50	A)
	"	12	24			0.1	2	44	B)
5981	"	16	20			trace	0	4	B only
5982	2	9	49.3	10	34.7	0.6	2	55	A) Continuous
	"	9	49.3	10	28.6	0.9	3	9	B) "
5983	"	23	26			trace	0	5	A only, slight
5984	3	6	38			trace	0	5	B only
5985	"	18	45			0.2	0	8	B only
5986	5	10	11			trace	0	24	A)
	"	10	11			trace	0	18	B)
5987	"	13	57			trace	0	11	A) slight
	"	14	2			trace	0	11	B)
5988	"	20	42			trace	0	3	B only, slight
5989	6	13	15			trace	0	16	A)
	"	13	14			trace	0	17	B)
5990	"	22	01			trace	0	7	A only, very slight
5991	"	22	47			trace	0	3	B only, very slight
5992	7	20	22			trace	0	17	A)
	"	20	25			trace	0	15	B)
5993	9	0	31			trace	0	11	A) slight
	"	0	31			trace	0	18	B)
5994	10	14	19			trace	2	11	A) slight
	"	14	4			trace	2	24	B)
5995	"	19	24			trace	0	5	B only, very slight
5996	11	8	2			trace	0	29	A) slight
	"	8	7			trace	0	59	B) "
5997	"	12	29			trace	0	4	A) slight
	"	12	27			trace	0	7	B) "
5998	"	19	9			trace	0	7	A)
	"	19	9			trace	0	2	B) slight



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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. 2250-1913-3000 ex.

No.	DATE 19 <u>21</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
5999	Apr. 12	0	40			trace	0	5	B only
6000	"	9	59			trace	0	39	A)
	"	9	55			0.1	0	55	B)
6001	13	4	59			trace	0	16	A)
	"	4	59			trace	0	22	B)
6002	14	18	18			trace	0	46	A)
	"	18	35			trace	0	3	B)
6003	15	19	7			trace	0	25	A only
6004	"	21	41			trace	1	36	A)
	"	21	50			trace	1	24	B) slight
6005	17	22	25			0.1	1	12	A)
	"	22	22			0.4	1	11	B)
6006	19	0	41			trace	0	42	A) slight
	"	0	42			trace	0	48	B) "
6007	20	16	5.4	16	10.8	0.2	0	30	A)
	"	16	5.8	16	11.6	0.9	0	32	B)
6008	"	19	16			trace	0	43	A)
	"	19	24			trace	0	25	B)
6009	22	6	52			-----	2	26	A) Maximum lost
	"	6	58			-----	2	55	B) " "
6010	"	16	24			trace	0	12	A)
	"	16	21			trace	0	14	B)
6011	"	21	29			trace	0	14	A only
6012	"	22	13			trace	1	41	A)
	"	22	23			trace	1	34	B)
6013	23	22	21			trace	0	33	A)
	"	22	20			trace	0	34	B)
6014	25	18	4			0.1	2	20	A)
	"	18	10			0.1	2	4	B)
6015	26	14	6			trace	0	6	B only
6016	27	2	24			trace	1	31	A)
	"	2	32			0.1	1	13	B)



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		H.	M.	H.	M.	mm.	H.	M.	
6017	Apr. 27	10	12			trace	0	12	A)
	"	10	11			trace	0	8	B)
6018	28	10	56			trace	0	17	A)
	"	10	58			trace	0	17	B)
6019	"	20	59			trace	0	8	A only ✓

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of May 1921

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~~ Director H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE 1921.	Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
6020	May 1	5	59			----	2	54	A) Maximum lost
	"	5	59			----	2	53	B) " "
6021	2	19	52			trace	0	5	B Only
6022	3	12	20			trace	0	25	A)
	"	12	16			trace	0	36	B)
6023	4	5	31			trace	0	14	A)
	"	5	19			trace	0	26	B)
6024	"	17	17			trace	0	7	A Only
6025	"	20	37			trace	0	5	B Only
6026	"	22	56			trace	0	9	B Only
6027	5	11	32			trace	0	7	B Only
6028	"	20	42			trace	0	7	B Only
6029	6	4	19			trace	0	8	B Only
6030	7	3	42			trace	0	42	A Only
6031	9	13	10			trace	0	3	B Only, Slight
6032	"	17	16			trace	0	8	A Only, Slight
6033	10	2	27			trace	0	12	A Only, <sup>Very</sup> Slight
6034	"	3	33			trace	0	2	B Only, Very Slight
6035	"	5	4			trace	0	16	A)
	"	5	9			trace	0	21	B)
6036	"	11	1			trace	0	6	A)
	"	11	1			trace	0	5	B)
6037	11	16	16			trace	0	3	B Only
6038	"	18	27			trace	0	6	A)
	"	18	26			trace	0	1	B)
6039	12	4	1			0.1	2	52	A)
	"	4	9			trace	2	43	B)
6040	"	16	46			trace	0	38	A Only
6041	13	6	7			trace	0	11	A)
	"	6	6			trace	0	10	B)



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of May 1921.

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. 2230-1915-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
	19 <u>21</u> .		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
6042	May	13	9	27			trace	0	1	A) very slight
		"	9	26			trace	0	2	B) " "
6043	"	10	21				trace	0	5	A)
		"	10	21			trace	0	5	B)
6044	"	11	57				trace	0	4	A)
		"	11	58			trace	0	2	B)
6045	"	13	6				trace	0	45	A)
		"	13	30			trace	0	20	B)
6046	"	15	55				trace	0	7	A)
		"	15	57			trace	0	4	B)
6047	"	20	24				0.2	2	24	A)
		"	20	29			0.1	2	39	B)
6048	"	14	11	31.4	12	15.7	0.9	3	21	A) Nearly continuous
		"	11	36.0	12	15.3	0.4	3	16	B) " "
6049	"	18	23				trace	0	2	A)
		"	18	19			trace	0	6	B)
6050	"	20	39				0.3	3	38	A)
		"	20	46			0.4	3	46	B)
6051	"	16	0	19			trace	0	13	A)
		"	0	24			trace	0	9	B)
6052	"	12	12				trace	0	12	A)
		"	12	13			trace	0	9	B)
6053	"	15	43				0.1	2	6	A)
		"	16	17			0.1	1	41	B)
6054	"	17	23	50			trace	0	55	A)
		"	23	49			trace	0	55	B)
6055	"	19	14	57			trace	0	2	B only
6056	"	20	5				trace	0	7	A)
		"	19	57			trace	0	26	B)
6057	"	20	0	49.5	1	9.4	0.8	2	40	A) S. at 0 <sup>h</sup> 54 <sup>m</sup> .6
		"	0	50.6	1	0.0	1.0	1	58	B) S. at 0 <sup>h</sup> 55 <sup>m</sup> .4
6058	"	14	19				trace	0	21	A)
		"	13	59			trace	0	53	B)
6059	"	21	7	41			trace	0	4	A)
		"	7	46			trace	0	2	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of June 1921.

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 1921.	Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
6079	June 1	19	59			trace	0	47	A)
	"	19	59			trace	0	49	B)
6080	4	5	50			trace	0	21	A)
	"	5	59			trace	0	32	B)
6081	"	13	06			trace	1	41	A only
6082	"	17	08			trace	0	3	A only, very slight
6083	5	10	24			trace	0	11	B only
6084	"	19	20			trace	0	49	A)
	"	19	21			trace	0	28	B)
6085	6	10	48			trace	0	23	A)
	"	10	51			trace	0	29	B)
6086	7	15	36			trace	0	7	A)
	"	15	36			trace	0	7	B)
6087	8	5	29			trace	0	8	A)
	"	5	26			trace	0	9	B)
6088	"	8	10			trace	0	5	A)
	"	8	11			trace	0	4	B)
6089	"	14	39			trace	0	2	B only
6090	9	11	20			trace	0	22	A)
	"	11	18			trace	0	21	B)
6091	10	1	21			trace	0	5	A)
	"	1	20			trace	0	6	B)
6092	"	12	7			trace	0	8	A)
	"	12	6			trace	0	6	B)
6093	11	5	58			trace	0	4	B only
6094	13	15	32			trace	0	38	B only
6095	14	1	52			trace	0	12	A)
	"	1	49			trace	0	20	B)
6096	16	9	34			trace	0	55	A)
	"	9	36			trace	1	1	B)
6097	17	23	21			trace	0	4	B only



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of June 1921.

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 1921.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6098	June 20	0	33			trace	1	38	A)
	"	0	35			trace	1	42	B)
6099	22	11	46			trace	0	43	A)
	"	11	47			trace	0	43	B)
6100	23	19	10			trace	0	31	A)
	"	19	9			trace	0	37	B)
6101	25	4	30			trace	0	5	A only
6102	"	11	41.2	11	42.9	1.6	1	7	A)
	"	11	43.0	11	44.1	3.1	0	55	B)
6103	"	15	00			trace	0	4	A only
6104	26	3	48			trace	0	21	A)
	"	3	49			trace	0	16	B)
6105	"	10	55			trace	0	4	A)
	"	10	55			trace	0	12	B)
6106	27	3	4			trace	1	5	A only
6107	28	12	47			trace	0	8	A only
6108	"	14	20			0.2	2	22	A)
	"	14	25			0.1	2	16	B)
6109	29	11	45			trace	0	28	A)
	"	11	48			trace	0	13	B)
6110	30	2	27			trace	0	21	A)
	"	2	42			trace	0	21	B)

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## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of July 1921.

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. 2250-1918-3000 ex.

No.	DATE 1921.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6111	July 3	2	16			trace	0	18	A)
	"	2	13			trace	0	8	B)
6112	" 15	15	16			trace	0	50	A)
	" 15	15	45			trace	0	14	B)
6113	4	14	42			trace	1	3	A)
	" 14	14	43			trace	0	59	B)
6114	5	11	37			trace	0	7	A)
	" 11	11	39			trace	0	1	B)
6115	" 16	16	14			trace	0	19	A)
	" 16	16	17			trace	0	14	B)
6116	7	8	58			trace	0	1	A)
	" 8	8	57			trace	0	4	B) very slight
6117	" 11	11	7			0.2	3	13	A only
6118	@ 8	2	13			trace	0	3	A only
6119	" 11	11	52			trace	0	4	A only
6120	" 14	14	3			trace	0	43	A)
	" 14	14	2			trace	0	30	B)
6121	10	3	20			trace	0	56	A)
	" 10	3	20			trace	1	6	B)
6122	" 14	14	35			trace	0	4	B only
6123	" 18	18	48			trace	0	9	A)
	" 18	18	46			trace	0	11	B)
6124	12	14	1			trace	0	9	A)
	" 12	14	2			trace	0	11	B)
6125	13	2	39			trace	0	6	A)
	" 13	2	36			trace	0	6	B)
6126	" 5	5	48			0.1	0	2	A) Felt locally
	" 5	5	47			0.6	0	10	B) " "
6127	" 10	10	38			0.1	1	30	A) Continuous small tremors
	" 10	10	36			trace	1	25	B) " " "
6128	" 18	18	30			trace	0	4	B only
6129	15	2	20			trace	0	2	A only

@ B. not working from July 7 at 13<sup>h</sup> 00<sup>m</sup> to July 8 at 9<sup>h</sup> 08<sup>m</sup>.



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of July 1921.

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 — H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE		Commencement.		MAXIMUM.		MAXIMUM	DURATION.		REMARKS.
	1921.		H.	M.	H.	M.	AMPLITUDE.	H.	M.	
6130	July	15	18	28			trace	1	6	A)
	"	"	18	30			trace	0	59	B)
6131		16	10	20			trace	0	5	A)
	"	"	10	14			trace	0	19	B)
6132		18	6	18			trace	0	6	A only
6133	"	"	17	40			trace	0	31	A)
	"	"	17	46			trace	0	16	B)
6134		21	0	40			trace	0	45	A)
	"	"	1	15			trace	0	16	B)
6135		22	8	28			trace	0	24	A) slight
	"	"	8	30			trace	0	20	B) "
6136	"	"	19	56			trace	0	3	A) slight
	"	"	19	54			trace	0	5	B) "
6137		23	9	38			trace	0	36	A)
	"	"	9	44			trace	0	47	B)
6138		24	9	4			trace	0	21	A)
	"	"	9	4			trace	0	17	B)
6139	"	"	19	29			trace	0	47	A)
	"	"	19	27			trace	0	47	B)
6140		25	2	33			trace	0	5	A)
	"	"	2	31			trace	0	5	B)
6141	"	"	19	47			trace	2	2	A)
	"	"	19	44			trace	2	0	B)
6142		26	8	55			trace	0	14	A)
	"	"	8	58			trace	0	12	B)
6143	"	"	11	28			trace	0	25	A)
	"	"	11	28			trace	0	27	B)
6144		29	1	4			trace	2	42	A) Nearly continuous
	"	"	1	10			trace	2	33	B) small tremors.
6145	"	"	15	12			trace	0	9	A) slight
	"	"	15	14			trace	0	4	B) very slight
6146		31	10	12.7	13	12.9	0.9	2	42	A) Nearly continuous
	"	"	10	13			0.1	2	43	B) small tremors.



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of August 1921.

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 H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE 1921.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6147	Aug. 1	1	11			trace	0	25	A)
	"	1	23			trace	0	26	B)
6148	"	9	12			0.3	0	24	A only
6149	"	13	6			trace	0	4	A)
	"	13	29			trace	0	3	B)
6150	"	18	7			trace	0	13	A)
	"	18	8			trace	0	13	B)
6151	2	12	41			trace	0	7	A only, slight
6152	5	1	50			0.2	1	40	A)
	"	1	48			0.2	1	44	B)
6153	"	19	21			trace	0	15	A)
	"	19	22			trace	0	5	B)
6154	6	2	16			trace	0	18	A)
	"	2	16			trace	0	12	B)
6155	9	11	2			trace	0	50	A)
	"	11	3			trace	0	46	B)
6156	"	18	54			trace	0	5	A only, slight
6157	10	3	40			trace	0	1	A)
	"	3	39			trace	0	10	B)
6158	"	14	19			0.1	0	31	A)
	"	14	13			trace	0	42	B)
6159	"	17	34			trace	0	4	A)
	"	17	36			trace	0	3	B)
6160	13	13	12			0.1	1	46	A)
	"	13	22			trace	1	53	B)
6161	"	19	55			0.1	1	28	B only
6162	14	10	29			trace	0	17	A)
	"	10	22			trace	0	49	B)
6163	"	13	19.3	13	24.4	3.7	2	29	A) S.at 13 <sup>h</sup> 23 <sup>m</sup> 4
	"	13	21.2	13	27.1	3.1	2	36	B) S.at 13 <sup>h</sup> 26 <sup>m</sup> 0
6164	15	14	44			trace	1	59	A)
	"	15	5			trace	1	34	B)



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of August 1921.

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 H. Knox-Shaw.

I.N. 2230-1913-3000 ex.

No.	DATE 1921.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6165	Aug. 16	5	48			trace	0	38	A)
	"	6	17			trace	0	9	B)
6166	"	7	44			trace	0	20	A)
	"	7	46			trace	0	16	B)
6167	17	23	7			trace	0	2	A)
	"	23	8			trace	0	5	B)
6168	18	0	53			trace	0	49	A)
	"	1	7			trace	0	40	B)
6169	19	0	48			trace	0	4	B only
6170	20	6	12			trace	0	11	A only
6171	21	1	50			trace	0	20	A)
	"	1	46			trace	0	22	B)
6172	"	12	36			trace	0	15	B only
6173	22	4	30			trace	0	46	A)
	"	4	28			trace	0	53	B)
6174	23	10	25			trace	0	39	A only
6175	"	14	25			trace	0	5	A)
	"	14	22			trace	0	5	B)
6176	"	15	15			trace	0	3	B only
6177	23	20	34			0.2	3	5	A)
	"	20	32			0.3	3	14	B)
6178	24	16	18			trace	0	13	A)
	"	16	18			trace	0	8	B)
6179	27	2	41			trace	0	20	A)
	"	2	46			trace	0	10	B)
6180	28	9	40			trace	0	15	A)
	"	9	39			trace	0	20	B)
6181	"	19	41			trace	0	18	A)
	"	19	38			trace	0	23	B)
6182	"	21	29			trace	0	3	A)
	"	21	27			trace	0	7	B)
6183	29	8	50			trace	1	22	A)
	"	8	48			0.1	1	40	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of August 1921.

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. 2230-1918-3000 ex.

No.	DATE 1921.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6184	Aug. 29	15	7			trace	0	6	A)
	"	15	12			trace	0	4	B)
6185	31	21	35			trace	0	9	A)
	"	21	30			trace	0	19	B)



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of September 1921.

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 1921.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		mm.	H.	
6186	Sept. 1	10	17			0.4	0	35	A)
	"	10	16			0.4	0	36	B)
6187	" 15	17				trace	0	24	A)
	" 15	16				0.2	0	34	B)
6188	3	9	27			trace	1	08	A)
	"	9	22			trace	1	05	B)
6189	5	20	11.7	20	54.4	0.9	3	12	A)
	"	20	11.2	20	57.5	0.8	3	26	B)
6190	6	5	58			trace	0	11	A)
	"	6	12			trace	0	05	B)
6191	7	21	10			0.2	0	28	A)
	"	21	12			0.2	0	30	B)
6192	9	8	33			trace	0	08	A)
	"	8	31			trace	0	08	B)
6193	11	4	14.3	5	03.1	5.8	5	15	A)
	"	4	13.2	5	01.5	4.2	5	12	B)
6194	12	5	43			trace	0	27	A)
	"	5	48			trace	0	28	B)
6195	" 23	46				trace	0	20	A)
	" 23	48				trace	0	18	B)
6196	13	2	50.5	3	38.8	5.9	> 4	10	A) End probably lost
	"	2	52.0	3	39.1	4.5	> 4	08	B) " " "
6197	" 9	04				0.5	1	14	A)
	" 9	03				0.2	1	04	B)
6198	" 11	17				trace	0	32	A)
	" 11	17				trace	0	35	B)
6199	" 14	47				trace	0	16	A)
	" 14	50				trace	0	12	B)
6200	14	3	35			trace	0	22	A)
	"	3	36			trace	0	23	B)
6201	" 10	29				0.1	/	50	A)
	" 10	45				0.1	1	36	B)
6202	15	19	06			trace	0	08	A)
	"	19	07			trace	0	08	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of September 1921.

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. 2230-1915-3000 ex.

No.	DATE 1921	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6203	Sept. 16	13	55			trace	0	59	A)
	"	13	58			trace	0	55	B)
6204	"	21	44			0.1	1	8	A)
	"	21	49			0.1	0	58	B)
6205	17	4	30			trace	0	33	A)
	"	4	32			trace	0	42	B)
6206	"	8	19			trace	0	16	A Only
6207	18	8	43			trace	0	10	B Only
6208	"	14	41			trace	0	13	A))
	"	14	41			trace	0	11	B)
6209	19	23	39			0.2	3	12	A)
	"	23	44			0.2	3	26	B)
6210	20	18	3			trace	0	15	A)
	"	18	3			trace	0	6	B)
6211	"	20	19			trace	0	17	A)
	"	20	14			trace	0	16	B)
6212	21	11	5.4	11	10.1	2.5	3	10	A)) S. at 11h 9.3m
	"	11	4.8	11	9.3	2.1	3	15	B) S. at 11h 8.1m
6213	23	4	7			trace	0	21	A)
	"	4	7			trace	0	19	B)
6214	"	16	56			trace	0	3	A)
	"	17	1			trace	0	9	B)
6215	24	7	9			trace	1	57	A Only
6216	"	6	10			trace	0	21	B Only
6217	"	19	30			trace	0	4	A)
	"	19	31			trace	0	6	B)
6218	26	9	30			0.3	0	55	A)
	"	9	30			0.4	1	16	B)
6219	27	7	51			trace	0	12	A))
	"	7	50			trace	0	16	B)
6220	"	16	44			trace	1	4	A)
	"	16	42			trace	1	2	B)



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of **September** 19**21**.

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 **KHEBIVIAL** OBSERVATORY, HELWAN, EGYPT.Director **H. Knox-Shaw.**

I.N. 2250-1913-3000 ex.

No.	DATE 19121.	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6221	Sept. 27	19	2			trace	0	9	A)
	"	19	8			trace	0	27	B)
6222	28	18	12			trace	0	6	A)
	"	18	10			trace	0	9	B)
6223	29	13	33			trace	2	36	A)
	"	13	30			trace	2	46	B)
6224	30	0	39			trace	0	4	B only
6225	"	7	39			trace	0	2	A)
	"	7	47			trace	0	2	B)

## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of October 1921

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 19 <u>21</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		H.	M.	
6226	Oct.	1	11			trace	0	3	A)
		"	11	33			trace	0	3
6227	"	16	2			trace	0	31	A)
		"	16	16			trace	0	13
6228	"	21	0			trace	2	2	A)
		"	21	0			trace	2	3
6229	2	18	25			trace	0	4	B Only
6230	4	5	29			trace	0	15	A)
		"	5	25			0.1	0	11
6231	"	20	50			trace	0	13	A)
		"	20	46			trace	0	11
6232	5	2	26			trace	3	5	A)
		"	2	14			trace	0	53
6233	6	7	38			trace	1	56	B Only
6234	"	16	35			trace	0	5	A)
		"	16	27			trace	0	4
6235	"	22	39			0.1	0	54	A)
		"	22	44			0.3	0	42
6236	7	2	9			trace	0	5	A)
		"	2	10			trace	0	6
6237	"	4	2			trace	0	3	A)
		"	4	2			trace	0	4
6238	"	9	46			0.1	0	23	A)
		"	9	47			0.1	0	15
6239	"	21	39			trace	0	8	A)
		"	21	40			trace	0	8
6240	9	0	27.1	1	0.7	0.8	1	52	A)
		"	0	36.6	1	2.7	0.7	1	57
6241	"	5	19			0.1	1	1	A)
		"	5	17			0.1	1	11
6242	10	2	25			0.2	2	51	A)
		"	2	27			0.2	2	43
6243	12	8	15.4	9	5.4	0.8	1	54	A)
		"	8	13.4	9	4.4	0.9	1	55



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of October 1921

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 19 <u>21</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		H.	M.	
6226	Oct.	1	11			trace	0	3	A)
		"	11	33			trace	0	3
6227	"	16	2			trace	0	31	A)
		"	16	16			trace	0	13
6228	"	21	0			trace	2	2	A)
		"	21	0			trace	2	3
6229	2	18	25			trace	0	4	B Only
6230	4	5	29			trace	0	15	A)
		"	5	25			0.1	0	11
6231	"	20	50			trace	0	13	A)
		"	20	46			trace	0	11
6232	5	2	26			trace	3	5	A)
		"	2	14			trace	0	53
6233	6	7	38			trace	1	56	B Only
6234	"	16	35			trace	0	5	A)
		"	16	27			trace	0	4
6235	"	22	39			0.1	0	54	A)
		"	22	44			0.3	0	42
6236	7	2	9			trace	0	5	A)
		"	2	10			trace	0	6
6237	"	4	2			trace	0	3	A)
		"	4	2			trace	0	4
6238	"	9	46			0.1	0	23	A)
		"	9	47			0.1	0	15
6239	"	21	39			trace	0	8	A)
		"	21	40			trace	0	8
6240	9	0	27.1	1	0.7	0.8	1	52	A)
		"	0	36.6	1	2.7	0.7	1	57
6241	"	5	19			0.1	1	1	A)
		"	5	17			0.1	1	11
6242	10	2	25			0.2	2	51	A)
		"	2	27			0.2	2	43
6243	12	8	15.4	9	5.4	0.8	1	54	A)
		"	8	13.4	9	4.4	0.9	1	55



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of November 1921.

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

I.N. 2230-1913-3000 ex.

No.	DATE 19 <u>21</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.		H.	M.	
		min.							
6262	Nov. 1	1	07			0.2	1	00	A
6263	"	8	29			trace	0	03	A Very slight
6264	2	17	29			trace	0	12	A
6265	"	22	28			trace	0	29	A
6266	3	13	41			0.1	0	20	A
6267	"	23	38			trace	0	15	A
6268	4	11	03			trace	0	40	A
6269	5	22	40			trace	0	57	A
6270	6	17	39			trace	1	50	A
6271	7	16	13			0.3	3	26	A Continuous
6272	9	18	37			0.1	0	07	A
6273	10	19	12			trace	0	46	A
6274	11	1	39			trace	0	29	A
6275	"	14	56			trace	2	30	A Almost continuous
6276	"	18	49.6	19	39.9	5.4	4	38	A
6277	13	14	15			trace	0	57	A
6278	15	3	12			trace	0	14	A
6279	"	6	20			trace	0	07	A
6280	"	19	18			trace	0	22	A
6281	"	20	43.3	21	00.3	3.4	3	41	A
6282	16	5	40			trace	0	06	A
6283	"	15	04			trace	1	00	A
6284	17	8	14			trace	0	57	A
6285	18	2	31			trace	1	22	A
6286	"	4	57			trace	0	08	A
6287	20	21	59			trace	0	06	A
6288	22	22	43			trace	0	26	A
6289	23	22	16			trace	0	03	A
6290	24	8	35			trace	0	30	A
6291	"	14	26			trace	0	13	A
6292	"	16	56			trace	0	33	A
6293	27	11	58			trace	0	05	A
6294	28	20	04			trace	0	02	A
6295	29	3	38			trace	0	42	A
6296	"	11	57			trace	0	20	A
6297	"	20	12			trace	0	14	A
6298	"	22	48			0.2	2	20	A



## EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH.

For the month of December 1921.

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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 19 <u>21</u> .	Commencement.		MAXIMUM.		MAXIMUM AMPLITUDE.	DURATION.		REMARKS.
		H.	M.	H.	M.	mm.	H.	M.	
6299	Dec. 1	11	21			0.1	0	57	A
6300	"	18	47			trace	00	09	A
6301	2	2	41			trace	0	17	A
6302	"	22	13			trace	0	46	A
6303	3	10	24			trace	0	09.	A
6304	"	15	26			trace	0	05	A
6305	6	13	35			0.2	0	27	A
6306	7	17	41			0.1	2	05	A
6307	8	12	55			0.1	1	20	A
6308	9	12	59			trace	0	41	A
6309	10	2	56			trace	5	01	A
6310	"	12	40			trace	0	05	A
6311	12	2	29			trace	0	10	A
6312	13	3	15			trace	2	47	A
6313	17	23	42			trace	0	07	A
6314	18	10	50			trace	0	23	A
6315	"	15	43.7	16	00.0	1.2	3	12	A
6316	"	23	53			trace	0	11	A
6317	21	10	29.9	10	54.6	0.5	0	57	A
6318	22	15	24			trace	0	02	A
6319	"	19	48			trace	0	28	A
6320	"	21	32			trace	0	19	A
6321	24	10	12			trace	0	06	A very slight
6322	25	1	00			trace	0	15	A " "
6323	28	8	04			trace	0	08	A