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PUBLISHED UNDER THE DIRECTION OF  
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**INTRODUCTION.**

Till the end of 1937, the seismic data from the observatories of India Meteorological Department were being published annually as part D of the Annual Summary of the India Weather Review. Since 1938, the data are being published in the present series of the Quarterly Seismological Bulletin. With the kind co-operation of the Surveyor-General of India, the Director of the Nizamiah Observatory, Hyderabad and of the Superintendent, Colombo Observatory, it has been possible to incorporate in the bulletin the data of their respective observatories, viz.; Dehra Dun, Hyderabad and Colombo. The instrumental seismological data are collected and edited at the Colaba Observatory Bombay and the non-instrumental voluntary observations at the Meteorological Office, Poona.

**TABLE 1.**  
*List of Seismograph Stations.*

Station.	Latitude.	Longitude.	Height above M. S. L.	Lithologic foundation.	Officer-in-charge of Observatory.
Agra . . . . .	27°8' N.	78°01' E.	163 meters . . . .	Indo-Gangetic Alluvium	Superintending Meteorologist.
Bombay . . . . .	18°54' N.	72°49' E.	6 meters . . . . .	Deccan Trap . . . .	Director.
Calcutta . . . . .	22°32' N.	88°20' E.	(1) 7 meters . . . . (2) 6 meters.	Alluvium . . . . .	Meteorologist.
Colombo . . . . .	6°54' N.	79°52' E.	7 meters . . . . .	Beach-Sand resting on gneiss probably decomposed.	Superintendent.
Dehra Dun . . . . .	30°10' N.	78°03' E.	682 meters . . . . .	Gravel . . . . .	Director, Geodetic Branch, Survey of India.
Hyderabad . . . . .	17°26' N.	78°27' E.	528 meters . . . . .	Granite . . . . .	Director, Nizamiah Observatory.
Kodalkanal . . . . .	10°14' N.	77°28' E.	2343 meters . . . .	Rock . . . . .	Director.

(1) Milne-Shaw, (2) Omori-Ewing.

**TABLE 2.**  
*The instruments and their constants.*

Station.	Component.	Type of Instrument.	Mass.	Period.	Static magnification.	Damping ratio.	Remarks.
Agra . . . . .	N	Omori-Ewing . . . . .	kg. 45	secs. 31	20	1	
	E	Milne-Shaw . . . . .	0.47	12	250	20 : 1	
Bombay . . . . .	N	Milne-Shaw . . . . .	0.45	12	250	25 : 1	
	E	Milne-Shaw . . . . .	0.45	12	350	37 : 1	
Calcutta . . . . .	N	Milne-Shaw . . . . .	0.45	12	250	20 : 1	
	N	Omori-Ewing . . . . .	50	28	32	...	
Colombo . . . . .	E	Omori-Ewing . . . . .	50	28	30	...	
	E	Milne-Shaw . . . . .	0.45	12	250	20 : 1	
Dehra Dun . . . . .	N	Omori . . . . .	50	30	12	..	
Hyderabad . . . . .	N	Milne-Shaw . . . . .	0.45	12	250	20 : 1	
	E	Milne-Shaw . . . . .	0.45	12	250	20 : 1	
Kodalkanal . . . . .	E	Milne-Shaw . . . . .	0.45	12	250	10 : 1	





International  
Seismological  
OBSERVATORY, AGRA.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
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January, 1940.

1940.							1940.								
Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
Jan. 1	E	I (P?)	12 33 18	...	...	...	Slight. Surface waves poor.	Jan. 7	E	P	3 31 50	...	...	5,990	Slight.
		I	42 30	...	...	...				S	30 34	...	...	...	
		F	18 37	...	...	...				eSS	43 12	...	...	...	
" 2	E	e	9 37 41	...	...	...	Tremor.			Mn	58 10 15 9	...	...	...	
		F	46	...	...	...				F	5 0	...	...	...	
" 2	E	e	11 33 52	...	...	...	Slight. Very distant.	" 7	E	eP	9 4 58	...	...	1,610	Slight.
		I (SKS?)	30 48	...	...	...				S	7 38	...	...	...	
" 2	E	IP?	11 42 46	...	...	4,165	Superimposed shock of slight intensity. Direction of first motion W. Time for S correct within ± 5 secs.			Mn	12 32	...	...	...	
		S?	48 35	...	...	...		" 10	E	e	11 4 21	...	...	...	Slight, near.
" 2	E	e	15 14 32	...	...	...	Feeble.			Mn	5 30 12 3	...	...	...	
		e	16 40	...	...	...		" 10	E	IP	11 21 59	...	...	2,345	Slight. Direction of first motion E.
		M	20 9	...	...	...				I	22 11	...	...	...	
		F	47	...	...	...				S	25 40	...	...	...	
" 6	E	e	3 7 26	...	...	...	Seismic disturbance.			SS	26 31	...	...	...	
" 6	E	IP	8 25 43	...	...	6,000	Slight. Direction of first motion W.			M?	28 35	...	...	...	
		S	33 57	...	...	...				Mn	30 37 11 25	...	...	...	
		ScS	35 47	...	...	...				F	13 1	...	...	...	
		SS	37 51	...	...	...		" 14	E	I	8 28 30	...	...	...	Seismic disturbance.
		M <sub>1</sub>	50 17 15 5	...	...	...		" 14	E	e	10 14 49	...	...	...	Do.
		F	9 52	...	...	...		" 14	E	e	13 14 36	...	...	...	Very feeble.
" 6	E	eP	10 51 54	...	...	5,280	Slight. Surface waves poor.			I	18 53	...	...	...	
		PP	53 47	...	...	...				F	44	...	...	...	
		S	58 48	...	...	...		" 15	E	e	2 34 6	...	...	...	Very feeble.
		e	11 2 4	...	...	...				e	14 30 26	...	...	...	Tremor.
		F	44	...	...	...				F	36	...	...	...	
" 6	E	P	14 17 25	...	...	(11,445)	Moderate.	" 15	E	e	14 30 26	...	...	...	
		I	17 33	...	...	...				eP	1 25 31	...	...	7,225	Moderate. Depth of focus about 100 km. Direction of first motion E in IP.
		PP	21 39	...	...	...		" 17	E	IP	25 35	...	...	...	
		ISKS	27 39	...	...	...				pP	25 55	...	...	...	
		I	28 19	...	...	...				PP	28 0	...	...	...	
		I	28 46	...	...	...				S	34 15	...	...	...	
		IPB	30 21	...	...	...				ScS	35 29	...	...	...	
		SS	35 29	...	...	...				SS	38 37	...	...	...	
		L	53 33	...	...	...				M <sub>1</sub>	53 18 18 34	...	...	...	Train of surface waves.
		M?	15 1 49	...	...	...				F	5 20	...	...	...	
		M <sub>1</sub>	6 5 20 16	...	...	...		" 10	E	e	5 31 7	...	...	...	Slight.
		F	17 16	...	...	...				Mn	40 44	...	...	...	
" 6	E	eP	10 12 47	...	...	4,955	Slight.			F	6 38	...	...	...	
		I	12 51	...	...	...		" 20	E	e	10 20 44	...	...	...	Slight. Very distant.
		S	19 23	...	...	...				M <sub>1</sub>	11 15 23 20 6	...	...	...	Train of surface waves.
		SS	22 21	...	...	...				F	12 31	...	...	...	
		F	20 17	...	...	...		" 21	E	I	2 53 9	...	...	...	Feeble.
" 6	E	e	22 35 0	...	...	...	Slight, near.			S?	3 0 23	...	...	...	
		I	36 0	...	...	...						...	...	...	
		F	2	...	...	...						...	...	...	



UPPER AIR OBSERVATORY, AGRA.

Table header for January 1940 with columns: Date, Compt., Phase, G. M. T., Per., Amp., Δ, Remarks.

January, 1940.

Table of seismic observations for January 1940, including dates like Jan 21, 23, 26, 28 and phases like e, F, S, IP, IS.

February, 1940.

Table of seismic observations for February 1940, including dates like Feb 1, 2, 3, 5, 7, 8, 9, 12 and phases like e, F, S, eP, ePP, eSS, Mn, F, P, P', P', SKKS, PSKS, PPS, SS, SSS, M1, F, P, SKS.

Table header for February 1940 with columns: Date, Compt., Phase, G. M. T., Per., Amp., Δ, Remarks.

February, 1940.

Table of seismic observations for February 1940, including dates like Feb 12, 13, 14, 16, 20, 21, 22, 24, 26, 27, 29, 30 and phases like I, PS?, L, Mn, M, F, P, ePP, S, SS, Mn, F, IP, S, M1, M1, F, P, I, S, M1, F, e, Mn, F, P, pP, PP, pPP?, ISKS, I, SS, SSS, eP, ePP, IS, SS.



UPPER AIR OBSERVATORY, AGRA.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
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March, 1940.

1940.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	1940.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
March 3	E	P	0 10 24	...	...	...	Slight.	March 16	E	e	5 37 36	...	...	(7,520)	Slight.
		e	22 54	...	...	...				S	45 47	...	...	...	
		SKS?	29 49	...	...	...				SS	60 1	...	...	...	
		i	30 4	...	...	...				Mn	6 5 42	15	5	...	
		i	30 45	...	...	...				F	53	...	...	...	
		M <sub>1</sub>	1 1 9	...	...	...				e	21 24 47	...	...	...	Surface waves.
		M <sub>2</sub>	7 17 19	5	...	...				F	40	...	...	...	
		F	2 35	...	...	...				e	9 20 44	...	...	...	Slight.
" 3	E	e	12 8 9	...	...	...	Slight.	" 17	E	e	9 20 44	...	...	...	Slight.
		F	Mixed up with the following shock.							Mn	30 12	...	...	...	
" 3	E	eP?	12 22 33	...	...	1,915	Slight.	" 17	E	e(P)	15 12 6	...	...	(1,545)	Slight.
		eS?	26 43	...	...	...				eS	14 39	...	...	...	
		F	Mixed up with the following shock.			...				SS?	16 0	...	...	...	
" 3	E	eP?	12 42 53	...	...	1,905	Slight.			Mn	21 19	8	3	...	
		eS?	45 55	...	...	...				F	50	...	...	...	
		F	13 19	...	...	...				e	6 38 17	...	...	...	Slight.
" 6	E	e	18 47 37	...	...	(9,020)	Slight.	" 18	E	e	6 38 17	...	...	...	Slight.
		e(PPP)	50 47	...	...	...				Mn	53 58	...	...	...	
		e(S)	55 47	...	...	...				IP	4 38 24	...	...	1,135	Moderate. Direction of first motion W.
		e	56 42	...	...	...				i*	38 53	...	...	...	
		e(SS)	19 0 53	...	...	...				P	39 20	...	...	...	
		Mn	27 19	...	...	...				S	40 18	...	...	...	
		F	20 5	...	...	...				S*	40 48	...	...	...	
" 9*	E	P	10 55 31	...	...	5,455	Slight.	" 18	E	e	6 38 17	...	...	...	Slight.
		S	11 2 36	...	...	...				S	41 26	...	...	...	
		i	4 31	...	...	...				N	13 30 50	...	...	300	Slight.
		Mn	21 21	...	...	...				N, E	31 7	...	...	...	
		F	38	...	...	...				N, E	31 9	...	...	...	
" 9*	E	e	18 36 42	...	...	...	Slight.			N, E	31 38	...	...	...	
		Mn	30 50	...	...	...				E	31 53	...	...	...	
		F	19 0	...	...	...				N	47	...	...	...	
" 12	E	e	22 26 7	...	...	(5,335)	Slight.	" 20	E	eP	13 30 50	...	...	...	Slight.
		ePPP	27 40	...	...	...				N	31 7	...	...	...	
		S	31 57	...	...	...				N, E	31 9	...	...	...	
		SS	35 11	...	...	...				N, E	31 38	...	...	...	
		Mn	45 32	...	...	...				E	31 53	...	...	...	
		F	23 9	...	...	...				N	47	...	...	...	
" 14	E	ePP	18 40 1	...	...	...	Moderate.	" 20	E	e	6 38 17	...	...	...	Slight.
		i(SKKS)	47 5	...	...	...				F	55	...	...	...	
		SS	52 37	...	...	...				N, E	0 19 37	...	...	255	Slight.
		L	10 4 45	...	...	...				E	19 52	...	...	...	
		M?	9 21	...	...	...				N	20 7	...	...	...	
		Mn	14 41 21	32	...	...				S	20 22	...	...	...	
		F	21 30	...	...	...				S	20 27	...	...	...	
				...	...	...				E	31	...	...	...	
				...	...	...				P	14 1 28	...	...	5,110	Slight. Depth of focus about 50 km.
				...	...	...				PP	1 41	...	...	...	
				...	...	...				i	2 6	...	...	...	
				...	...	...				PP	3 10	...	...	...	
				...	...	...				PPP	4 3	...	...	...	
				...	...	...				IS	8 13	...	...	...	
				...	...	...				IS	8 38	...	...	...	
				...	...	...				SS	11 17	...	...	...	
				...	...	...				L	15 2	...	...	...	
				...	...	...				F	16 5	...	...	...	

\* Absolute time correct within ± 2 Sec.

International Seismological Centre  
UPPER AIR OBSERVATORY, AGRA.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
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March, 1940.

1940.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	1940.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
Mar. 27	E	IP	12 43 0	...	...	8,245	Moderate. direction of first motion W.	Mar. 28	E	PeP	15 58 41	...	...	...	Maximum displacement at SSS in E. Appears like Mn.
		PP	45 50	...	...	...				N, E	16 2 20	...	...	...	
		PPP	47 46	...	...	...				E	sS	3 42	...	...	...
		S	52 41	...	...	...				E	aSS	5 25	...	...	...
		ScS?	52 57	...	...	...				N, E	SSS	5 39	...	...	...
		i	54 21	...	...	...				N	F	17 19	...	...	...
		SS	57 31	...	...	...				E	F	51	...	...	...
		Mn	13 18 5	...	...	20 24				E	e	14 36 40	...	...	Tremor.
			to 21 46	...	...	...				F	F	44	...	...	...
" 27	E	e	18 48 56	...	...	...		" 29	E	e(P?)	21 43 37	...	...	...	
		F	Mixed up with the following shock.			...				e(S?)	48 39	...	...	...	
" 27	E	eP	19 22 29	...	...	3,045	Slight.	" 30	E	e	0 10 44	...	...	...	Surface waves.
		S	27 8	...	...	...				IP	6 31 51	...	...	6,580	Slight. Direction of first motion W.
		L?	30 17	...	...	...				ePP	34 6	...	...	...	
		F	20 14	...	...	...				S	39 59	...	...	...	
" 27	E	e	21 28 56	...	...	...				i	40 34	...	...	...	
		Mn	47 37	...	...	...				ScS?	41 34	...	...	...	
		F	22 13	...	...	...				SS	44 8	...	...	...	
" 28	N	eP	15 56 22	...	...	4,135	Moderate. Direction of first motion E in M.S. Depth of focus about 200 km. Δ from Brunner Chart.	" 30	E	M <sub>1</sub>	56 2	...	...	...	
	E	IP	57 7	...	...	...				F	7 35	...	...	...	
	E	pP	57 7	...	...	...		" 31	E	e	18 12 10	...	...	...	
		PPP	57 56	...	...	...				F	19 2	...	...	...	


UPPER AIR OBSERVATORY, }  
AGRA.

G. CHATTERJEE,  
Superintending Meteorologist.



COLABA OBSERVATORY, BOMBAY.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.
January, 1940.															
1940.			h. m. s.	sec.	μ	Km.		1940.			h. m. s.	sec.	μ	Km.	
Jan. 1	E	e	12 30 37	...	...	...	Slight.	Jan. 7	E	L	00 00 02	...	...	...	
	E	e	33 32	...	...	...			N, E	F		...	...	...	Lost in microseisms.
	N, E	e	35 39	...	...	...		" 10	E	e	11 0 54	...	...	...	
	N, E	i	38 53	...	...	...			N, E	F		...	...	...	Lost in the following shock.
	N, E	e	40 00	...	...	...		" 19	N, E	eP	11 23 25	...	...	3,250	Slight. Epc. 38°N., 100°E., near Lake Koko Nov in China. O=11h. 17.3m.
" 1-2	E						No record from 18h. 55m. to 2 h. 59m.		E	e	24 24	...	...	...	
" 2	N	e	11 27 41	...	...	...	Slight. Epc. 31°±S 108°±W. H. O. = 11h. 7.0m. (U. S. C. G. S.)		E	IS	28 18	...	...	...	
	E	e	28 47	...	...	...			N	eS		...	...	...	
	N, E	e	32 47	...	...	...			N, E	e	29 25	...	...	...	
	N, E	e	40 52	...	...	...			N, E	e	30 57	...	...	...	
	N, E	L	12 30	...	...	...			N, E	e	31 45	...	...	...	
	N, E	F	13 40	...	...	...			E	Mn	35 40	8	7	...	
" 2	N, E	e	15 21 52	...	...	...	Slight. Felt in Dhubri.		N	Mn	35 40	8	7	...	
	N, E	F	52	...	...	...			N, E	F		...	...	...	Lost in microseisms.
" 6	E	e	03 03 28	...	...	...	Slight.	" 14	N, E	e	13 17 02	...	...	...	Feeble.
	N, E	F	37	...	...	...			N, E	F	14 14	...	...	...	
" 6	N, E	eP	8 26 41	...	...	...	Slight. Epc. Near 54°N., 154°E., Kurilo Islands. O=8h. 15.0m.	" 17	N, E	iP	01 26 12	...	...	7,830	Moderate. Epc. 17°N., 148°E. H. O.=1h. 14m. 45s. (U. S. C. G. S.)
	N, E	IS	36 03	...	...	...			N	e	27 16	...	...	...	
	N, E	L	52	...	...	...			E	i	27 23	...	...	...	
	N, E	F		...	...	...	Lost in microseisms.		N, E	i	28 53	...	...	...	
" 6	E	e	10 59 12	...	...	...			N, E	IS	35 26	...	...	...	
	N, E	F		...	...	...	Lost in microseisms.		N	i	35 38	...	...	...	
" 6	N, E	eP	14 17 25	...	...	...	Moderate. Epc. 22°S., 170°E. H. O.=14h. 3.4m. (U. S. C. G. S.)		E	i	35 51	...	...	...	
	N, E	i	17 45	...	...	...			N	i	36 00	...	...	...	
	E	i	20 28	...	...	...			N, E	i	36 15	...	...	...	
	N, E	iPP	21 41	...	...	...			N, E	i	37 28	...	...	...	
	N, E	ISKS	27 52	...	...	...			N, E	i	40 10	...	...	...	
	N, E	ISKKS	28 34	...	...	...			N	iLQ	45 44	...	...	...	
	N, E	IS?	29 10	...	...	...			N, E	iLR	52 36	...	...	...	
	N, E	i (PS)	30 46	...	...	...			N, E	F	05 23	...	...	...	
	N, E	i	35 43	...	...	...		" 18	E	e	07 27 40	...	...	...	Feeble.
	E	ISS	36 13	...	...	...			N, E	F	08 17	...	...	...	
	N, E	(LQ)	40 52	...	...	...		" 19	N, E	e	05 48 55	...	...	...	
	N, E	(LR)	53 52	...	...	...			N, E	F	06 39	...	...	...	Slight.
	N, E	F		...	...	...	Lost in microseisms.	" 20	N, E	e	10 10 56	...	...	...	
" 6-7	E						Record lost from 17h. 8m. to 01 h. 10m.		N, E	F	12 22	...	...	...	Slight.
" 7	N	e	03 28 55	...	...	...	Slight.	" 21	E	e	06 14 44	...	...	...	
	N, E	i	41 24	...	...	...			E	F	49	...	...	...	Slight.
	N, E	F	04 50	...	...	...		" 26	E	e	06 58 45	...	...	...	Slight.
" 7	N	eP	09 04 21	...	...	1,170	Slight. Epc. 26°N., 63°E. near Mekran coast. O=9h. 1.9m.		N, E	i	07 05 53	...	...	...	
	N, E	e	04 38	...	...	...			E	e	17 31	...	...	...	
	N, E	e	04 46	...	...	...		" 26	N, E	iP	15 24 43	...	...	1,990	Slight. Epc. 36°5'N., 70°5'E. O=15h. 20.7m.
	N, E	e	05 02	...	...	...			E	IS	27 57	...	...	...	
	N, E	eS	06 18	...	...	...			N, E	i	28 09	...	...	...	
	E	e	06 42	...	...	...			N, E	F	16 12	...	...	...	
	N, E	e	07 03	...	...	...						...	...	...	



COLABA OBSERVATORY, BOMBAY.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.
January, 1940.															
1940.			h. m. s.	sec.	μ	Km.		1940.			h. m. s.	sec.	μ	Km.	
Jan. 26	N, E	iP	17 13 53	...	...	6120	Moderate. Epc. 25°5'N., 133°0'E. East of Lu Chu Islands O=17 h. 4 m. 24 s.	Jan. 26	N	Mn	17 37 50	15	6	...	
	N, E	i	14 18	...	...	...			E	Mn	41 51	14	5	...	
	E	i	14 28	...	...	...		" 26	N, E	F	19 03	...	...	...	
	E	i	16 02	...	...	...			N, E	e	23 21 01	...	...	...	
	N, E	IS	21 34	...	...	...			N, E	e	24 00	...	...	...	
	E	i	22 05	...	...	...			N, E	E	52	...	...	...	
	E	i	27 48	...	...	...						...	...	...	
February, 1940.															
Feb. 7	N, E	iP	17 23 21	...	...	9,080	Moderate. Epc. 50°N., 175° E., in the Bering Sea. O=17h. 16m. 4s.	Feb. 13	N, E	eS	54 36	...	...	...	
	E	i	28 36	...	...	...			N, E	e	54 42	...	...	...	
	E	i	31 18	...	...	...			E	e	50 00	...	...	...	
	N, E	iPP	31 33	...	...	...			N, E	F	12 34	...	...	...	
	E	IS	38 36	...	...	...		" 13	E	i	13 30 40	...	...	2,020	Slight. Same as 13d. 05h.
	N	e	38 30	...	...	...			N	e		...	...	...	
	E	LQ	47 52	...	...	...			N, E	IS	33 57	...	...	...	
	N, E	iLR	56 52	...	...	...			N, E	i	34 30	...	...	...	
	E	Mn	18 7 18	17	6	...			E	Mn	37 00	13	2	...	
	N	Mn	7 21	16	8	...			N	Mn	39 20	11	2	...	
	N, E	F	56	...	...	...			N, E	F	14 31	...	...	...	
" 8	N, E	iP	15 19 10	...	...	1,050	Slight. Deep. Epc. 36°5'N., 70°5'E. in the Hindukush Mountains. O=15h. 15.2m. h=200 km. (approx.)	" 16	E	e	01 07 15	...	...	...	Slight. Near 32° N. 97° E. in Tibet. O=1h. 1.5m.
	N, E	i (iPP)	19 46	...	...	...			E	eS	11 19	...	...	...	
	N	e (eP)	20 5	...	...	...			N	e	11 24	...	...	...	
	E	i	22 25	...	...	...			E	i	14 57	...	...	...	
	N, E	IS	22 27	...	...	...			N, E	i	15 00	...	...	...	
	N, E	i	24 40	...	...	...			N, E	F	40	...	...	...	
	N, E	F	55	...	...	...		" 20	N, E	iP	02 31 39	...	...	11,110	Slight. h=180-200 km. Epc. 12°S., 167°E. H. O.: 2h. 18m. 5s. (U. S. C. G. S.)
" 9	N, E	e	17 42 27	...	...	...	Slight.		N, E	iPP	32 25	...	...	...	
	N, E	F	18 20	...	...	...			N, E	ISPP	32 47	...	...	...	
" 12	E	e	08 30 00	...	...	...	Slight.	" 12	N, E	i	34 47	...	...	...	
	N, E	e	42 31	...	...	...			N, E	PP	35 40	...	...	...	
	N, E	F		...	...	...	Lost in the following shock.		N, E	ISKS	42 01	...	...	...	
" 12	N, E	e	09 41 48	...	...	...	Slight.	" 12	N, E	ISKKS	42 5	...	...	...	
	E	e	10 04 00	...	...	...			N, E	i	43 24	...	...	...	
	N, E	F	55	...	...	...			N, E	i	44 13	...	...	...	
" 12	E	e	16 42 58	...	...	...	Slight.	" 12	N, E	i	44 33	...	...	...	
	N, E	e	50 23	...	...	...			E	i	03 04 32	...	...	...	
	N, E	F	17 20	...	...	...		" 20	N, E	F	05 28	...	...	...	
" 13	E	iP	05 30 05	...	...	2,050	Slight. Epc. 14° N., 55°E. South off Arabia.	" 20	N, E	iP	13 04 26	...	...	6,350	Slight. Two shocks superposed? Epc. Region of 27°S 70°E. in the Indian Ocean. O=12h. 54.7m.
	E	i	30 50	...	...	...			E		04 34	...	...	...	
	N, E	IS	33 24	...	...	...			N, E	IS	12 22	...	...	...	
	E	i	34 19	...	...	...			N	e	15 20	...	...	...	
	N, E	F	06 20	...	...	...			N	e	20 41	...	...	...	
" 13	E	i	11 50 57	...	...	2,250	Slight. Two shocks superposed. Epc. 23°5'N., 90°8'E., in Assam. O=11h. 46.9m. Felt in Shillong and Gauhati.		N	e	27 19	...	...	...	
	N	e	51 09	...	...	...			N, E	e	33 20	...	...	...	
	N	e	51 17	...	...	...		" 20	N, E	e	21 05 00	...	...	...	Slight.
	N, E	e	54 16	...	...	...			N, E	F	22 52	...	...	...	



COLABA OBSERVATORY, BOMBAY.

Date.	Compt.	Phase.	G. M. T.	Per.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Δ	Remarks.
<b>February 1940.</b>													
19							1940.						
Feb 22	E	i	13 30 11	...	5,030	Slight. Epc. 16°10' N., 121°15' E. (Manilla).	Feb. 26-27	E	e	51 50	...	...	
	N	e						N, E	i	52 10	...	...	
	N, E	IPP	41 04	...				N, E	F	0 32	...	...	
	E	e	45 48	...									
	N, E	IS	45 52	...									
	E	i	48 57	...			" 27	N, E	e	04 17 46	...	...	Slight.
	E	i	49 32	...				N, E	e	20 25	...	...	
	N, E	F	14 26	...				N, E	F	45	...	...	
24	E	i	12 11 26	...	7,870	Slight. Epc. 2°S., 142°E., to the north of New Guinea. O=12h. 0m. 12s.	" 29	N	e	16 15 50	...	4,970	Moderate. Epc. 34°N., 25°E., to the south of Crete. O=16h. 7.8m.
	N	e						E	i	16 58	...	...	
	E	e	14 08	...				N, E	IS	22 33	...	...	
	E	e	15 18	...				N, E	i	22 56	...	...	
	E	i	20 42	...				N, E	i	25 50	...	...	
	N	e	21 23	...				N, E	i	26 07	...	...	
	E	i	21 23	...				E	i	26 33	...	...	
	N, E	LR	37 10	...				N, E	ILQ	26 48	...	...	
	N, E	F	14 5	...				N, E	ILR	31 50	...	...	
26-27	N, E	e	23 47 44	...		Slight.		N, E	F	17 25	...	...	
<b>March, 1940.</b>													
March 3	E	IP	00 19 23	...	11,340	Slight. Epc. 18°S., 169°E. near New Hebrides Islands. O=0h. 5.4 m.	March 14	E	e(P)	18 36 16	...	...	Moderate. Epc. Near 58°S., 143°E. O=18h. 2.6m. Near 60°S., 145°E. (Wellington) In the region of New Zealand. (Manila.)
	N, E	i	22 23	...				N, E	e	36 30	...	...	
	N, E	i	22 35	...				N	e	40 14	...	...	
	N	e	29 23	...				E	e	40 38	...	...	
	N, E	ISKS	30 13	...				E	e	41 22	...	...	
	N, E	ISKKS	30 52	...				N	e	42 15	...	...	
	N, E	IPS	32 32	...				N	e(S)	45 18	...	...	
	N, E	e	37 56	...				N	e	48 53	...	...	
	N, E	LQ	41 20	...				N, E	e	49 16	...	...	
	N, E	M	58 30	...				N, E	eSS	53 13	...	...	
	E	Mn	01 7 15	...				N, E	i	54 07	...	...	
	N	Mn	10 30	...				N, E	e	58 35	...	...	
	N, E	F	02 00	...				N, E	LR	19 04 23	...	...	
3	N, E	i	12 16 25	...		Slight.		E	M <sub>1</sub>	09 51 23 14	...	...	
	N, E	e	20 22	...				N	M <sub>1</sub>	11 53 21 25	...	...	
	N, E	i	28 30	...				E	M <sub>2</sub>	12 51 19 11	...	...	
	N, E	F	13 21	...				N	M <sub>2</sub>	14 14 19 21	...	...	
4	N, E	e	20 58	...		Large Waves.	" 15	E	eP	05 38 47	...	7,420	Slight. Epc: 25 N., 145°E. O=5h. 28.0 m.
	N, E	F	21 43	...				N, E	e	47 03	...	...	
8	N, E	e	02 05 21	...		Feeble.		N	IS	47 40	...	...	
	N, E	F	02 19	...				N, E	F	06 53	...	...	
9	N, E	IP	16 50 32	...	6,150	Slight. Deep. Surface Waves poor. Epc. 34°N., 133°E., in or near Japan O=10h 47.1m.	" 17	N, E	e	09 24 19	...	...	Surface waves.
	N, E	e	58 55	...				N, E	F	10 00	...	...	
	N, E	IS	04 16	...									
	N, E	F	50	...									
12	E	e	22 33 22	...		Surface Waves.	" 17	N, E	e	15 18 06	...	...	Slight.
	N, E	e	46 27	...				N, E	e	21 51	...	...	
	N, E	F	23 12	...				N, E	F	56	...	...	
14	N, E	e	04 21 23	...		Feeble.]	" 18	N, E	e	06 08 35	...	...	Feeble.
	N, E	F	58	...				N, E	Mn	49	...	...	
	N, E	F	58	...				N, E	F	07 20	...	...	

International  
Seismological  
Survey  
COLABA OBSERVATORY, BOMBAY.

Date.	Compt.	Phase.	G. M. T.	Per.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Δ	Remarks.
<b>March, 1940.</b>													
1940.							1940.						
March 19	N, E	IP	04 30 47	...	...	Slight. First movements as read: 2.0 mm to N and slightly to W. Epc. 36°5' N., 70°5'E., O=4h. 35.7m. h=160 km. (approx.) Felt strongly at Dosh, Srinagar, Kabul and Peshawar.	March 27	N, E	IP	12 43 55	...	9,400	Moderate. Epc: 51°N., 179° W. O=12h. 13.4 m. Epc: 51° N., 180° W. O=12h. 31.1m (U.S.C.G.S.)
	N, E	i	40 02	...	...			N, E	e	47 17	...	...	
	N, E	i	40 32	...	...			N, E	IS	54 29	...	...	
	N, E	i	41 33	...	...			N, E	i	55 11	...	...	
	N, E	IS	42 54	...	...			N	ILQ	13 04 02	...	...	
	N	i	43 09	...	...			N	ILR	12 10	...	...	
	N, E	i	43 26	...	...			N	M <sub>1</sub>	22 54 23 24	...	...	
	N, E	i	44 02	...	...			E	Mn	24 40 17 6	...	...	
	N, E	i	44 48	...	...			N	M <sub>2</sub>	24 25 21 25	...	...	
	N, E	i	45 12	...	...			N, E	F	16 12	...	...	
	N, E	i	46 58	...	...								
	E	i	48 26	...	...		" 27	N, E	IP	19 20 52	...	...	Slight. Deep. Near 2°N., 83° E. in the Indian Ocean. O=19h. 16.7m.
	N, E	F	06 25	...	...			N, E	e	24 50	...	...	
19	N, E	e	15 53	...	...	Feeble.		N	Mn	29 33 15 6	...	...	
	N, E	F	16 30	...	...			N, E	F	20 21	...	...	
20	N	e	01 10 43	...	...	Feeble.	" 27	N	e	21 42 51	...	...	Feeble. Surface waves.
	N, E	F	52	...	...			E	e	49 51	...	...	
20	N, E	e	13 34 01	...	...	Slight. Region of Garhwal Kumaon Hills.	" 28	E	No record from to	0 7	...	...	
	N, E	e	34 23	...	...					2 51	...	...	
	N, E	e	35 40	...	...								
	E	e	36 23	...	...		" 28	E	IP	15 56 53	...	5,190	Moderate. Epc: 18°N., 122°5 E. in or near Luzon. O=15h. 48.7m. h=200 to 240 km.
	N, E	e	36 38	...	...			N	eP	57 00	...	...	
	N, E	i	36 46	...	...			E	ipP	57 49	...	...	
	N, E	i	36 55	...	...			E	sP	58 16	...	...	
	N	i	38 00	...	...			E	e	58 32	...	...	
	N, E	F	14 5	...	...			E	i	58 51	...	...	
21	N, E	IP	14 01 12	...	4,860	Slight. Epc: 10°S., 108° E. to the south of Java. O=13h. 53.0m.		E	i	16 03 11	...	...	
	N, E	i	02 04	...	...			N, E	IS	03 25	...	...	
	N, E	i	03 06	...	...			E	i(s)	04 52	...	...	
	N	e	03 55	...	...			E	i	05 05	...	...	
	N, E	IS	07 42	...	...			E	LQ	05 21	...	...	
	E	i	11 04	...	...			N, E	F	18 04	...	...	
	N, E	LQ	11 18	...	...		" 29	E	eP	21 43 27	...	3,070	Slight.
	N, E	LR	14 10	...	...			N, E	IS	48 07	...	...	
	N	Mn	25 40 16 12	...	...			E	i	50 16	...	...	
	E	Mn	26 16 16 3	...	...			N, E	F	23 2	...	...	
	N, E	F	16 20	...	...		" 30	E	i	06 31 59	...	...	Slight.
22	E	e	20 53 53	...	...	Slight.		E	i	34 21	...	...	
	N	Mn	21 26 50 18 3	...	...			E	i	40 59	...	...	
	N, E	F	22 42	...	...			N, E	i	41 43	...	...	
25	E	No record from to	00 54	...	...		" 31	N, E	e	18 06 42	...	...	Feeble. Surface waves.
			02 34	...	...			N, E	F	19 00	...	...	

Colaba Observatory,  
Bombay.

S. R. SAVUR,  
Director.



ALIPORE OBSERVATORY, CALCUTTA.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
January, 1940.															
1940.								1940.							
Jan. 1	N	e	12 31 55	...	...	...	Tremor.	Jan. 7	N	eP	9 7 2	...	...	2,500	Slight.
		e	37 55	...	...	...				ePP	7 27	...	...	...	
		F	13 11	...	...	...				ePcP	10 50	...	...	...	
" 2	N	e	5 12 49	...	...	...	Tremor.			IS	11 8	...	...	...	
		F	30	...	...	...				eL	13 11	...	...	...	
" 2	N	o	11 36 11	...	...	...	Slight. Very distant.			l	13 55	...	...	...	
		Mn	12 36 43	...	...	...				M	15 12	...	...	...	
		F	13 31	...	...	...				F	42	...	...	...	
" 2	N	eP	15 13 30	...	...	660	Slight.	" 10	N	e	11 0 18	...	...	...	Slight, distant.
		eS	14 39	...	...	...				l	5 35	...	...	...	
		IS*	15 00	...	...	...				F	Masked by the following shock.	...	...	...	
		IS	15 15	...	...	...		" 10	N	IP	11 21 12	...	...	2,010	Slight.
		F	31	...	...	...				ePP	21 21	...	...	...	First movement—north.
" 3	N	e	20 55 20	...	...	...	Tremor.			IS	24 28	...	...	...	
		F	21 13	...	...	...				eSS	24 45	...	...	...	
" 5	N	e	1 2 45	...	...	...	Tremor.			ePcP	25 52	...	...	...	
		F	19	...	...	...				IL	26 17	...	...	...	
" 6	N	e	3 4 2	...	...	...	Tremor.			M	27 52	...	...	...	
		F	35	...	...	...				Mn	28 48	0 68	...	...	
" 6	N	e	7 23 27	...	...	...	Tremor.	" 14	N	e	8 16 17	...	...	...	Slight, distant.
		F	44	...	...	...				l	19 37	...	...	...	
" 6	N	eP	8 25 14	...	...	...	Slight, distant.	" 14	N	e	10 4 48	...	...	...	Slight, distant.
		IS	33 6	...	...	...				Mn	16 22	...	...	...	
		F	9 31	...	...	...				F	38	...	...	...	
" 6	N	o	10 52 29	...	...	...	Slight, distant.	" 17	N*	eP (?)	1 24 45	...	...	6,220	(Δ from IScS—IS.)
		Mn	11 8 49	...	...	...			N, N*	IS	32 26	...	...	...	Moderate.
		F	41	...	...	...				IScS	34 28	...	...	...	
" 6	N	eP	14 16 28	...	...	8,980	Moderate.			eSS	36 2	...	...	...	
		ePP	19 26	...	...	...				eSSS	38 2	...	...	...	
		IS	20 30	...	...	...				eL	40 57	...	...	...	
		ISKS	26 44	...	...	...				M	46 25	...	...	...	
		eScS	26 57	...	...	...				Mn	48 22	20 103	...	...	
		IPS	27 19	...	...	...				F	5 11	...	...	...	
		eSS	32 3	...	...	...		" 19	N	eP	5 35 37	...	...	2,670	Slight.
		eSSS	35 23	...	...	...				ePcP	39 25	...	...	...	
		IL	43 16	...	...	...				eS	39 49	...	...	...	
		M	50 16	...	...	...				IL	42 32	...	...	...	
		F	17 28	...	...	...				Mn	46 55	10 11	...	...	
" 6	N	e	19 16 45	...	...	...	Slight, distant.	" 20	N	e	10 17 11	...	...	...	Slight, very distant.
		e	21 52	...	...	...				l	20 50	...	...	...	
		F	20 13	...	...	...				Mn	24 58	...	...	...	
" 7	N	e	3 29 45	...	...	...	Slight, distant.	" 21	N	e	2 52 52	...	...	...	Tremor.
		e	36 41	...	...	...				F	3 24	...	...	...	
		Mn	55 44	...	...	...				F		...	...	...	
		F	4 53	...	...	...				F		...	...	...	

ALIPORE OBSERVATORY, CALCUTTA.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
January, 1940.															
1940.								1940.							
Jan. 21	N	e	12 11 1	...	...	...	Tremor.	Jan. 26	N	IP	17 12 3	...	...	4,410	Moderate. First movement North.
		F	33	...	...	...				ePP	13 30	...	...	...	
" 26	N	eP	6 57 13	...	...	6,270	Slight. Depth about 80 km.			ePcP	14 15	...	...	...	
		ePP	57 31	...	...	...				IS	18 6	...	...	...	
		IS	7 5 1	...	...	...				eScS	22 13	...	...	...	
		eS	5 38	...	...	...				eL	24 3	...	...	...	
		eScS	7 10	...	...	...				M	26 25	...	...	...	
		F	8 12	...	...	...				Mn	29 15	17 04	...	...	
" 26	N	eP	15 25 19	...	...	2,150	Slight.	" 26	N	eP	23 16 34	...	...	2,480	Slight.
		eS	28 49	...	...	...				eS	20 31	...	...	...	
		eSS	29 8	...	...	...				ePcP(?)	20 37	...	...	...	
		ePcP	29 44	...	...	...				eSS	21 4	...	...	...	
		eL	30 32	...	...	...				eL	23 1	...	...	...	
		M	32 4	...	...	...				M	24 16	...	...	...	
		F	48	...	...	...				Mn	27 38	10 10	...	...	
				...	...	...				F	49	...	...	...	
February, 1940.															
Feb. 1	N	e	11 58 5	...	...	...	Tremor.	Feb. 8	N	eP	15 19 41	...	...	2,330	Slight. Focal depth about 200 km.
		F	12 6	...	...	...				eS	20 41	...	...	...	
" 1	N	e	19 30 20	...	...	...	Tremor.			IS	23 19	...	...	...	
		F	20 1	...	...	...				ePcP	23 41	...	...	...	
" 4	N	e(P?)	11 68 49	...	...	(1,780)	Slight.			eS	24 21	...	...	...	
		eS	12 1 44	...	...	...				eSS	25 27	...	...	...	
		eL	2 46	...	...	...				F	55	...	...	...	
		M	3 50	...	...	...		" 9	N	e	13 40 18	...	...	...	Slight. Very distant.
		eScS	11 8	...	...	...				Mn	14 25 52	...	...	...	
		F	23	...	...	...				F	47	...	...	...	
" 5	N	o	8 2 36	...	...	...	Slight, distant.	" 9	N	eP	17 36 35	...	...	1,250	Slight.
		l	8 59	...	...	...				IS	38 42	...	...	...	
		F	Lost in microseisms.	...	...	...				eS*	39 30	...	...	...	
" 7	N	IP	17 27 11	...	...	7,780	Moderate. First movement—north.	" 9	N	eS	40 4	...	...	...	
		ePcP	27 33	...	...	...		" 9	N	eP	17 36 35	...	...	1,250	Slight.
		ePP	29 30	...	...	...				IS	38 42	...	...	...	
		IS	36 22	...	...	...				eS*	39 30	...	...	...	
		ePS	36 39	...	...	...				eS	40 4	...	...	...	
		eSKS	37 11	...	...	...		" 12	N	ePcP	42 33	...	...	...	
		eSS	40 43	...	...	...				F	18 11	...	...	...	
		IL	40 4	...	...	...		" 12	N	Mn	1 46 54	...	...	...	Slight. Very distant. Beginning lost while changing chart.
		M	56 46	...	...	...				F	2 11	...	...	...	
		Mn	59 9 15 36	...	...	...		" 12	N	o	8 40 55	...	...	...	Tremor.
		F	20 33	...	...	...				F	9 37	...	...	...	
" 8	N	e	10 48 49	...	...	...	Tremor.	" 12	N	l	9 40 32	...	...	...	Slight, very distant.
		e	52 19	...	...	...				F	10 50	...	...	...	
		F	11 10	...	...	...		" 12	N	e	16 42 45	...	...	...	Slight, distant.
" 8	N	o	14 0 13	...	...	...	Tremor.	" 12	N	l	50 43	...	...	...	
		F	13	...	...	...				Mn	56 42	...	...	...	
				...	...	...		" 12	N	e	18 22 53	...	...	...	Tremor.
				...	...	...				F	40	...	...	...	



ALIPORE OBSERVATORY, CALCUTTA.

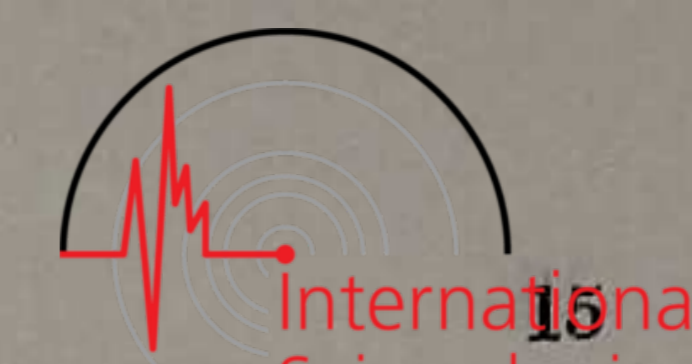
Table header for February 1940 with columns: Date, Compt., Phase, G. M. T., Per., Amp., Δ, Remarks.

February, 1940.

Main data table for February 1940, containing multiple columns for time, amplitude, distance, and phase.

March, 1940.

Main data table for March 1940, continuing the format of time, amplitude, distance, and phase.



ALIPORE OBSERVATORY, CALCUTTA.

Table header for March 1940 with columns: Date, Compt., Phase, G. M. T., Per., Amp., Δ, Remarks.

March, 1940.

Main data table for March 1940, containing multiple columns for time, amplitude, distance, and phase.

METEOROLOGICAL OFFICE, ALIPORE, CALCUTTA.

S. K. PRAMANIK, Meteorologist



COLOMBO OBSERVATORY, CEYLON.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.
<b>January, 1940.</b>															
1940.			h. m. s.	sec.	mm.	Km.		1940.			h. m. s.	sec.	mm.	Km.	
Jan. 1	E	e	12 30	...	...	...	Times approximate.	Jan. 17	E	P	01 25 49	...	...	...	
		F	13 20	...	...	...				S	34 43	...	...	...	
										L	40 40	...	...	...	
" 2	E	e	11 22 30	...	...	...				M	58 20	...	3.8	...	
		F	13 38	...	...	...				F	04 37	...	...	...	
" 6	E	e	02 50 30	...	...	...		" 10	E	e	05 35 30	...	...	...	
		F	03 43 30	...	...	...				F	06 38 30	...	...	...	
" 6	E	P	14 16 36	...	...	...		" 20	E	e	10 17	...	...	...	
		e	22 20	...	...	...				F	12 20 30	...	...	...	
		SKS	27 03	...	...	...		" 23	E	e	09	...	...	...	
		M	34 16	...	4.9	...				F	11	...	...	...	
		F	16 40	...	...	...		" 26	E	eP	06 54 45	...	...	...	The (S <sub>T</sub> ) waves are of comparatively long period and big amplitude. M not pronounced amplitude < 0.3 mm.
" 7	E	e	03 41 30	...	...	...				(S <sub>T</sub> )	07 05 05	...	...	...	
		F	04 31 30	...	...	...				F	08 24	...	...	...	
" 7	E	ePP	09 07 30	...	...	...		" 26	E	e	15 31 30	...	...	...	
		M	17 05	...	0.4	...				F	48 30	...	...	...	
		F	30	...	...	...		" 26	E	P	17 13 43	...	...	...	
" 9-10	E		Record was lost between 14h. 30m. and 00h. 52m.							S	21 21	...	...	...	
" 10	E	e	11 29 30	...	...	...				L	30 31	...	...	...	
		F	12 30	...	...	...				M	36 06	...	0.8	...	
" 12	E	e	06 31	...	...	...		" 26	E	e	23 21	...	...	...	
		F	07 01	...	...	...				F	48	...	...	...	
" 16	E	e	08 06	...	...	...		" 29	E	e	06 37 30	...	...	...	
		F	12 36 30	...	...	...				F	07 09 30	...	...	...	
<b>February, 1940.</b>															
Feb. 1	E	L	19 25 20	...	...	...		Feb. 12	E	e	08 37 30	...	...	...	
		M	28 35	...	0.7	...				F	10 49	...	...	...	
		F	50 30	...	...	...		" 12	E	e	16 38 30	...	...	...	
" 5	E	e	07 20 30	...	...	...				F	17 39 30	...	...	...	
		F	08 51	...	...	...		" 13	E	e	05 31	...	...	...	
" 7	E	P	17 28 47	...	...	...				F	06 23 30	...	...	...	
		SKS	39 13	...	...	...		" 13	E	e	11 51 36	...	...	...	S, L, and M cannot be identified.
		L	53 00	...	...	...				F	12 49 30	...	...	...	
		M	18 16 36	...	0.9	...		" 13	E	P	13 32 06	...	...	...	S, L, and M cannot be identified.
		F	20 38 30	...	...	...				F	14 29	...	...	...	
" 8-9	E		Record was lost between 03h. 47m. and 00h. 59m.					" 14	E	e	11 16	...	...	...	
" 10-11	E		Record was lost between 21h. 08m. and 01h. 04m.							F	54 30	...	...	...	
" 11-12	E		Record was lost between 07h. 01m. 30s. and 00h. 56m.					" 14	E	e	11 16	...	...	...	
" 12	E	e	00 57	...	...	...	Start possibly earlier.	" 16	E	e	01 11	...	...	...	
		F	02 10 30	...	...	...				F	46 30	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.
<b>February, 1940.</b>															
1940.			h. m. s.	sec.	mm.	Km.		1940.			h. m. s.	sec.	mm.	Km.	
Feb. 20	E	P	02 31 02	...	...	...		Feb. 22	E	P	13 38 43	...	...	...	
		(S <sub>T</sub> )	41 10	...	...	...				S	45 02	...	...	...	
		L	41 34	...	...	...		" 24	E	P	12 10 33	...	...	...	S, L, and M cannot be picked out. Amplitude of M < 0.5 mm.
		L	47 25	...	...	...				F	14 05 30	...	...	...	
		F	05 37	...	...	...		" 26	E	e	17 03	...	...	...	
" 20	E	P	13 02 50	...	...	...				F	45	...	...	...	
		S	00 35	...	...	...		" 26-27	E	eP	23 46 08	...	...	...	
		L	13 20	...	...	...				(L <sub>T</sub> )	40 20	...	...	...	
		M	23 42	...	1.3	...				(M <sub>T</sub> )	52 12	...	1.0	...	
		F	16 37 30	...	...	...				F	00 31	...	...	...	
" 20	E	e	20 54	...	...	...		" 23	E	e	20 10	...	...	...	
		F	23 01 30	...	...	...				F	25	...	...	...	
" 21	E	e	01 13 30	...	...	...		" 23	E	e	20 10	...	...	...	
		F	11 30	...	...	...				F	25	...	...	...	
" 22	E	e	07 30	...	...	...		" 29	E		05 30	...	...	...	Record lost from to Mar. 1
		F	11 30	...	...	...					01 01	...	...	...	
<b>March, 1940.</b>															
Mar. 1	E	e	11 34 30	...	...	...		Mar. 21	E	M	14 20 32	...	1.0	...	
		F	48 30	...	...	...				F	15 59 30	...	...	...	
" 3	E	P	00 18 40	...	...	...		" 22	E	e	20 36 30	...	...	...	
		SKS	20 22	...	...	...				F	21 45	...	...	...	
		M	01 00 06	...	< 0.5	...		" 27	E	P	12 44 19	...	...	...	
		F	42	...	...	...				SKS	54 49	...	...	...	
" 4	E	e	04 11 30	...	...	...		" 27	E	L	13 03 49	...	...	...	
		F	29 30	...	...	...				M	33 34	...	< 0.5	...	M not pronounced.
" 9	E	(P <sub>T</sub> )	10 56 28	...	...	...		" 27	E	F	14 27	...	...	...	
		(S <sub>T</sub> )	11 04 03	...	...	...				IP	19 21 16	...	...	...	L and M not pronounced, cannot be picked out.
		F	13 30	...	...	...				e	25 45	...	...	...	
" 14	E	P	18 35 13	...	...	...		" 27	E	F	20 17	...	...	...	
		S	45 32	...	...	...					20 17	...	...	...	
		L	57 02	...	...	...		" 28	E	P	15 56 17	...	...	...	The S waves commence with a swing of 10 mm. amplitude. M not pronounced.
		M	10 03 07	...	0.5	...				S	16 02 10	...	...	...	
		F	20 16	...	...	...				L	16 20	...	...	...	
" 19	E	e	04 40 35	...	...	...				M	18 50	...	0.5	...	
		S	40 50	...	...	...		" 20	E	P	21 41 26	...	...	...	S was picked out with great difficulty. M not pronounced.
		F	05 48 30	...	...	...				S	44 42	...	...	...	
" 20	E	e	10 32	...	...	...				L	46 35	...	...	...	
		F	43 30	...	...	...		" 20	E	M	48 30	...	0.5	...	
" 20	E	e	13 31	...	...	...				F	23 04 30	...	...	...	
		F	58	...	...	...		" 30	E	P	06 30 49	...	...	...	M approximate.
" 21	E	e?	13 50 01	...	...	...				S	38 14	...	...	...	
		IP	59 29	...	...	...				L	44 19	...	...	...	
		S	14 04 40	...	...	...		" 31	E	e	17 55	...	...	...	
		L	13 36	...	...	...				F	18 49	...	...	...	

COLOMBO OBSERVATORY, CEYLON.

D. T. E. DASSANAYAKE, Superintendent.



HAIG OBSERVATORY, SURVEY OF INDIA, DEHRA DUN.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.
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January, 1940.

1940.			h. m. s.	sec.	On trace in inch.	Km.	1940.			h. m. s.	sec.	On trace in inch.	Km.	Remarks.
Jan. 6	N	eP	14 16 31?	8	0.002	10,370	Jan. 17	N	eP	1 25 30?	7	0.003	7,168	Minute marker not working. Times of phases approximate only.
		eS	27 38	8	.006	...			IS	34 00?	22?	.048	...	
		e?	30 34	16	.016	...			e?	42 10?	22	.030	...	
		eL	39 03?	16	.013	...			eL	44 20?	20	.075	...	
		M <sub>1</sub>	41 53	20	.013	...			M <sub>1</sub>	51 10?	26	.180	...	
		M <sub>2</sub>	15 02 47	23	.016	...			M <sub>2</sub>	56 30?	23	.063	...	
		M <sub>3</sub>	13 22	22	.018	...			M <sub>3</sub>	2 01 40?	20	.039	...	
		M <sub>4</sub>	19 53	18	.015	...			F	4 23?	...	...	...	
		F	17 48	...	...	...							...	
" 7	N	eS	9 07 47	5	0.001	...	" 26	N	eP	15 23 49	2	0.001	733	
		e	09 59	6	.003	...			eS?	25 01	2	.002	...	
		eL	11 19	14	.010	...			M <sub>1</sub>	25 06	2	.002	...	
		M <sub>1</sub>	11 38	14	.010	...			F	36	...	...	...	
		F	27	...	...	...							...	
" 10	N	eS	11 25 13	4	0.005	...	" 26		eP	17 12 40	...	0.001	5,072	
		eL?	27 48	25	.105	...			eS	19 28	10	.008	...	
		M <sub>1</sub>	28 23	25	.105	...			eL	28 44	24	.066	...	
		F	12 06	...	...	...			M <sub>1</sub>	30 33	24	.066	...	
									F	18 20	...	...	...	

February, 1940.

Feb. 7	N	eP	17 26 25	10?	0.002	7,047	Feb. 20	N	e?	2 31 20?	7	0.004	...
		eS	35 38	15	.004	...			e?	42 02?	10	.010	...
		eL	49 53?	21	.021	...			eL	52 16	14	.011	...
		M <sub>1</sub>	53 52	21	.021	...			M <sub>1</sub>	52 44	14	.011	...
		M <sub>2</sub>	58 12	20	.028	...			F	3 58	...	...	...
		M <sub>3</sub>	18 02 45	22	.015	...							...
		F	47	...	...	...	" 20	N	eS?	13 15 17	7	.002	...
" 16	N	eS	1 07 47?	...	0.001	...			e?	19 49	12	.005	...
		eL	09 23	17	.018	...			eL	28 47	22	.011	...
		M <sub>1</sub>	09 50	17	.018	...			M <sub>1</sub>	31 32	22	.011	...
		F	50	...	...	...			M <sub>2</sub>	34 49	20	.009	...
									M <sub>3</sub>	50 28	20	.010	...
									F	14 34	...	...	...

March, 1940.

Mar. 14	N	eSEKS?	18 47 24	10	0.002	...	Mar. 19	N	eP	4 37 59	1?	0.003	800	Remarks.
		eL	19 13 45?	25	.053	...			IS	39 24	3	.022	...	Two periods superposed.
		M <sub>1</sub>	17 08	25	.053	...			IL	40 26	3	.038	...	
		M <sub>2</sub>	22 30	22	.013	...			M <sub>1</sub>	40 32	3	.050	...	
		M <sub>3</sub>	25 55	19	.011	...			F	5 06	...	...	...	
		M <sub>4</sub>	34 34	16	.010	...							...	
		F	20 00	...	...	...	" 20	N	eP	18 30 58	1	0.001	200	
" 17	N	eP?	16 13 48?	...	...	1240?			IS	31 22	1	.020	...	
		eL	17 20?	8	0.002	...			M <sub>1</sub>	31 28	1	.020	...	
		M <sub>1</sub>	20 02	8	.004	...			F	51	...	...	...	
		F	31	...	...	...	" 21	N	eP	14 01 38	...	0.001	5411	
									eS	08 36	9	.005	...	



HAIG OBSERVATORY, SURVEY OF INDIA, DEHRA DUN.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	△	Remarks.
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March, 1940.

40			h. m. s.	sec.	On trace in inch.	Km.	1940.			h. m. s.	sec.	On trace in inch.	Km.
Mar. 21	N	eL	14 17 46?	24	.028	...	Mar. 27	N	eS	19 27 40?	10	0.001	...
		M <sub>1</sub>	22 27	24	.028	...			eL?	32 40?	14	.002	...
		M <sub>2</sub>	27 01	22	.016	...			M <sub>1</sub>	33 19	14	.002	...
		F	15 10	...	...	...			F	58	...	...	...
" 27	N	eP	12 42 52	10	0.001	8101	" 28	N	eP	15 56 33	10	0.003	4227
		eS	52 15	8	.003	...			eS	16 02 24	14	.053	...
		eL	13 10 56?	20	.022	...			eL	05 34	24	.075	...
		M <sub>1</sub>	14 31	20	.022	...			M <sub>1</sub>	06 18	24	.075	...
		M <sub>2</sub>	20 34	19	.014	...			M <sub>2</sub>	12 04	20	0.026	...
		F	55	...	...	...			F	17 22	...	...	...

E. A. GLENNIE, Lt.-Col., D. S. O., R. E.  
Director, Geodetic Branch,  
Survey of India.

DEHRA DUN.



NIZAMIAH OBSERVATORY, HYDERABAD, DECCAN.

Table with columns: Date, Compt., Phase, G. M. T., Per., Amp., Δ, Remarks. This is the header for the left page's data tables.

January, 1940.

Table of seismic data for January 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Jan 2 to Jan 10.

Table of seismic data for January 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Jan 10 to Jan 27.

February, 1940.

Table of seismic data for February 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Feb 1 to Feb 13.

Table of seismic data for February 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Feb 14 to Feb 29.



NIZAMIAH OBSERVATORY, HYDERABAD, DECCAN.

Table with columns: Date, Compt., Phase, G. M. T., Per., Amp., Δ, Remarks. This is the header for the right page's data tables.

February, 1940.

Table of seismic data for February 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Feb 24 to Feb 27.

Table of seismic data for February 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Feb 26-27 to Feb 29.

March, 1940.

Table of seismic data for March 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Mar 3 to Mar 21.

Table of seismic data for March 1940. Columns include Date, Compt., Phase, G. M. T., Per., Amp., Δ, and Remarks. Entries range from Mar 21 to Mar 30.

NIZAMIAH OBSERVATORY, HYDERABAD, DECCAN.

T. P. BHASKARA SASTRI, Director.



KODAIKANAL OBSERVATORY, KODAIKANAL.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
<b>January, 1940.</b>															
1940.															
Jan. 1	E	I	12 33	...	...	...	Tremors. Times approximate? Lines overlapping.	Jan. 14	E	e	13 30	...	...	...	Tremors.
		F	52	...	...	...				F	50	...	...	...	
" 2	E	e	12 27 35	...	...	...	Tremors.	" 17	E	e	4 9	...	...	...	Do.
		F	13 10	...	...	...				F	5 4	...	...	...	
" 6	E	IP	14 10 51	...	...	0,700	First movement to east.	" 18	E	e	7 28	...	...	...	Do.
		ISKS	27 22	...	...	...				F	8 0	...	...	...	
		IPS	28 10	...	...	...		" 20	E	e	?	...	...	...	No minute marks.
		L	44 50	...	...	...				F	?	...	...	...	
		M	51 50	...	...	...		" 21-22	E		...	...	...	...	Three or four tremors. Lines overlapping and no clear time marks.
		Mn	59 17 18 18	...	...	...					...	...	...	...	
		F	16 2	...	...	...		" 22	E		...	...	...	...	After about 16 hours. Tremors. Times not readable.
" 7	E	IP	9 06 20	...	...	2,335	First movement to west.	" 26	E		...	...	...	...	After 6 hours. Distant slight shock Time marks not clear.
		IS	10 15	...	...	...		" 26	E		...	...	...	...	After 15 hours. Tremors. Time marks not certain.
		L	12 29	...	...	...		" 26	E		...	...	...	...	After 17 hours. Distant feeble shock Times marks not clear.
		M	14 2 20 5	...	...	...					...	...	...	...	
		F	29	...	...	...					...	...	...	...	
" 10	E	e	11 13	...	...	...	Slight. Phases not clear. Times approximate. Lines overlapping.				...	...	...	...	
		F	12 15	...	...	...					...	...	...	...	

February, 1940.

Feb. 1	E	e	10 10 20	...	...	...	P. and S. are not clear. Times approximate.	Feb. 13	E	IP	5 30 57	...	...	2,400	First movement to west.
		L	25 22	...	...	...				IS	34 57	...	...	...	
		M	27 35	...	...	...				L	36 31	...	...	...	
		F	20 00	...	...	...				Mn	39 15 13 2	...	...	...	
" 5	E	e	8 15	...	...	...	Tremors.	" 13	E	eP	11 51 19	...	...	2,220	
		F	33	...	...	...				eS	54 50	...	...	...	
" 7	E	IP	17 28 40	...	...	9,500	First movement to east.			ISS	55 43	...	...	...	
		IS	39 15	...	...	...		" 13	E	L	57 20	...	...	...	
		IPS	40 3	...	...	...				M	?	...	...	...	
		L	?	...	...	...				F	12 17	...	...	...	
		M	18 5 40 20 11	...	...	...		" 13	E	P	13 31 30	...	...	2,300	
		F	19 00	...	...	...				IS	35 29	...	...	...	
" 8	E	e	15 19 11	...	...	...	Slight.	" 16	E	L	36 52	...	...	...	
		I	25 6	...	...	...				Mn	40 4 15 4	...	...	...	
		F	16 5	...	...	...		" 16	E	F	14 21	...	...	...	
" 8	E	e	23 43 30	...	...	...	Tremors. No time marks. Times approximate.	" 16	E	eS	1 11 32	...	...	...	
		F	24	...	...	...				e	14 3	...	...	...	
" 12	E	eP	0 21	...	...	8,800	Feeble shock. No minute marks. Times approximate.	" 20	E	IP	2 31	...	...	11,100	First movement to west. No Minute marks. Times approximate. Part of the record was lost before next sheet was inserted.
		IS	31	...	...	...				IPP	35	...	...	...	
		L	48	...	...	...				IL	3 3 50	...	...	...	
		Mn	1 25 19 3	...	...	...				M	16 27 11 2	...	...	...	
		F	2 3	...	...	...				F	41	...	...	...	
" 12	E	e	?	...	...	...	Tremors. No minute marks. Times not readable.	" 20	E	IP	2 31	...	...	11,100	First movement to west. No Minute marks. Times approximate. Part of the record was lost before next sheet was inserted.
		F	?	...	...	...				IPP	35	...	...	...	
				...	...	...				IL	3 3 50	...	...	...	
				...	...	...				M	11 41 18 7	...	...	...	
				...	...	...				F	4 49	...	...	...	



KODAIKANAL OBSERVATORY, KODAIKANAL.

Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.	Date.	Compt.	Phase.	G. M. T.	Per.	Amp.	Δ	Remarks.
<b>February, 1940.</b>															
1940															
Feb. 20	E	e	?	...	...	...	Feeble long distance shock. Lines overlapping. Phases not discernible.	Feb. 24	E	M	...	...	...	...	
		F	?	...	...	...		" 26-27	E	F	14 4	...	...	...	Near earthquake. Beginning not clear. No time marks.
" 20	E	e	21 28	...	...	...	Tremors.	" 29	E	IP	16 17 15	...	...	5,045	First movement to east.
		F	22 46	...	...	...				PP	19 8	...	...	...	
" 24	E	IP	12 10 51	...	...	7,220	First movement to west.			IS	24 31	...	...	...	
		IS	10 34	...	...	...				SS	?	...	...	...	
		PS	19 42	...	...	...				L	?	...	...	...	
		SS	23 50	...	...	...				M	?	...	...	...	
		L	31 20	...	...	...				F	17 8	...	...	...	
<b>March, 1940.</b>															
Mar. 1	E	I	1 36 49	...	...	...	Tremors.	Mar. 20	E	M	13 42 21	8	2	...	
		F	52	...	...	...		" 21	E	e	0 24	...	...	...	Tremors.
" 3	E	IP	0 18 59	...	...	10,185	First movement to west.	" 21	E	F	40	...	...	...	
		ISKS	29 33	...	...	...		" 21	E	IP	14 00 00	...	...	4,020	First movement to west.
		IP	29 48	...	...	...				PP	01 22	...	...	...	
		L	50 12	...	...	...				IS	05 40	...	...	...	
		Mn	1 2 27 17 7	...	...	...				SS	08 06	...	...	...	
		F	50	...	...	...		" 3	E	L	11 ?	...	...	...	
" 3	E	e	12 10	...	...	...	Distant.	" 3	E	Mn	18 50 15 12	...	...	...	
		F	13 6	...	...	...		" 14	E	F	16 4	...	...	...	
" 14	E	eP	18 35 26	...	...	9,360		" 22	E	e	21 14	...	...	...	Tremors.
		IS	45 54	...	...	...		" 24	E	e	...	...	...	...	Tremors. Beginning lost while changing chart.
		IPS	46 31	...	...	...		" 24	E	F	3 42	...	...	...	
		ISS	51 13	...	...	...		" 27	E	IP	12 44 11	...	...	9,835	First movement to west.
		IL	10 3 3	...	...	...				IS	55 0	...	...	...	
		M	8 40 22 44	...	...	...		" 15	E	L	?	...	...	...	
		F	21 30	...	...	...		" 16	E	Mn	13 24 30 20 10	...	...	...	
" 15	E	e	5 38 40	...	...	...	Tremors.	" 16	E	F	14 19	...	...	...	
		F	6 42	...	...	...		" 17	E	IP	10 20 39	...	...	...	First movement to east.
" 16	E	e	21 31	...	...	...	Tremors.	" 17	E	L	24 31	...	...	...	
		F	59	...	...	...		" 17	E	Mn	28 41 8 1	...	...	...	
" 17	E	e	15 20	...	...	...	Feeble.	" 18	E	F	20 26	...	...	...	
		F	44	...	...	...		" 18	E	e	6 2	...	...	...	Feeble long distance shock.
" 18	E	e	6 2	...	...	...		" 18	E	F	8 20	...	...	...	
" 18	E	e	6 2	...	...	...		" 10	E	eP	4 41 20	...	...	2,860	
" 17	E	e	15 20	...	...	...		" 10	E	IS	45 55	...	...	...	
" 18	E	e	6 2	...	...	...		" 10	E	ISS	46 40	...	...	...	
" 18	E	e	6 2	...	...	...		" 10	E	IL	48 10	...	...	...	
" 10	E	eP	4 41 20	...	...	2,860		" 19	E	M	50 5 7 15	...	...	...	
" 10	E	IS	45 55	...	...	...		" 19	E	F	6 8	...	...	...	
" 10	E	ISS	46 40	...	...	...		" 20	E	eS	13 38 13	...	...	...	
" 10	E	IL	48 10	...	...	...		" 20	E	I	40 25	...	...	...	
" 19	E	e	15 38	...	...	...	Tremors.	" 20	E	IL	41 25	...	...	...	
" 19	E	F	16 12	...	...	...		" 20	E	F	7 17	...	...	...	Tremors. Beginning is lost in a break in the line.



The following table contains a list of earthquakes that are reported by voluntary observers from various stations.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	Number of shocks.	Remarks.	Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	Number of shocks.	Remarks.
	1940.	h. m.	Sec.					1940.	b. m.	Sec.			
Dhubri . . . . .	Jan. 2	14 59	10	5	3		Sbillong . . . . .	Feb. 13	11 46	180	6	1	Continuous.
Quetta . . . . .	" 7	17 24	2-3	5	1		Gauhati . . . . .	" 13	11 47	20	7	3	
Srinagar . . . . .	" 26	03 25	1½	7	1		Cherat . . . . .	" 14	08 34	5-6	4	1	
Jalore (Jodhpur state)	" 19	00 55	4	4	1		Leh . . . . .	" 17	During night.	...	4	...	Tremor.
Kankroll . . . . .	" 20	00 57	...	4	1		Kabul . . . . .	Mar. 19	04 28	2	5	1	
Bali Hakumat (Jodhpur state).	" 20	03 46	...	4	1		Peshawar . . . . .	" 19	04 36	2	4	1	
		00 15	30	4	1		Srinagar . . . . .	" 19	04 34	1	6	1	
New Delhi . . . . .	Feb. 5	23 21	30	5	1		Drosh . . . . .	" 19	04 36	3	7	1	
Gauhati . . . . .	" 12	03 15	10	5	1								
Kabul . . . . .	" 12	16 17	3	4	1								

J. M. SIL,  
Meteorologist, Poona.