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SHRI. P. R. KRISHNA RAO
DIRECTOR GENERAL OF OBSERVATORIES

February 1964

DATE	STN	PHASE	G h	M m	T s	Δ km	
10	NDI	PP	17	33	11		
Cont'd.							
	DDI	eP iPP	17	35 33	04 04		
10	NDI	eP e	17	53 53	47 59		
10	SHL	iPg iSg	21	22 22	48 51	20	
10	<i>Epc. 38.7°N, 68.3°E. Tadzhik S.S.R. H = 22h 12m 21a (USCGS) Mag. 4.8 (CGS).</i>						
	DDI	eP eSS	22	15 17	03 18	1220	
	NDI	e eP eS	22	15 15 17	14 13 27	NWR 1270	
	CHA	iP	22	16	49	C	
	SHL	iP	22	17	21	C	
10	SHL	iP	23	33	31	C	
11	CHA	iP	00	59	43	C	
	NDI	eP	00	59	49		
11	SHL	iP	01	00	24	C	
11	SHL	iPg iSg	02	25 23	57 09	100	
11	SHL	iP i	02	50 51	57 32	NER	
	CHA	eP e	02	51 53	23 01		
	TOC	e	02	53	45		
11	SHL	iP	03	55	35		
11	NDI	P e	03	57 57	17 43		
11	SHL	iP i	03	02 02	04 33		
11	SHL	iP	03	43	11	NC	
	NDI	eP	06	44	13	NC	
11	PEA	eP iS	08	15 13	33 04	190	
11	NDI	eP e	11	01 04	57 07	SEC	

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DATE	STN	PHASE	G h	M m	T s	Δ km	
11	SHL	iPg iSg	17	49 49	08 20	24 100	
11	NDI	eP	18	13	54		
11	SHL	iP	19	10	22	C	
	NDI	eP	19	12	31		
11	SHL	iP iS	19	59 20	25 02	330	
11	NDI	eP	21	41	33		
12	NDI	eP	00	33	59		
12	SHL	iP iS	04	42 43	32 12	350	
12	BOK	iP	07	43	52		
12	<i>Epc. 39.8°N, 53.4°E. Turkmen S.S.R. - h about 33 km (USCGS) H = 08h 19m 24.1s. Mag. 5.2 (CGS)</i>						
	DDI	e	08	23	56		
	NDI	eP	03	23	53		
	SHL	iP	08	25	57	C	
12	SHL	iP	08	41	39	C	
12	SHL	iP iS	14	17 17	23 51	240	
12	SHL	iP	17	59	50	C	
	CHA	iP	18	00	13		
	NDI	eP	18	00	55		
12	CHA	iP eS	19	42 51	22 13	R 7260	
12	<i>Epc. 3.5°S, 143.6°E. Admiralty Islands region. - h about 33 km H = 20h 31m 53.2s (USCGS) Mag. 5.4 (CGS).</i>						
	PBA	eP i	20	41 43	41 13		
	SHL	iP iPS Lq i	20	42 50 57 21	02 20 00 30	C 6600	
	CAL	eP eS	20	42 50	30 59	6990	

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DATE	STN	PHASE	G h	M m	T s	Δ km
12	BOK	eP iS	20	42 51	33 19	7310
	MDR	eP PeP PP PPP eS PS PPS SKS/ ScS i Lq Lr M	20	43 43 45 47 51 52 52 52 55 59 00 03 08	02 24 34 12 57 21 32 55 01 15 11 23	7480
	HYD	eP M	20	43 21	13 01	
	NDI	eP eS SS e	20	43 52 57 21	25 53 23 07	3200
	DDI	eP e eS i	20	43 43 53 53	26 43 05 33	8360
	POO	iP e	20	43 53	32 18	
	BOM	eP PeP e PP PPP eS FS PPS SS SSS	20	43 44 44 46 48 53 54 54 53 21	50 09 33 38 27 24 10 34 24 01 52	8470
12	MDR	e e e e	22	52 59 03 31	57 25 11 44	
12	NDI	Pg Sg	00	00 00	09 11	20
12	NDI	eP i	01	33 23	05 03	NR
12	NDI	e eP e	01	50 50 50	12 13 22	
12	NDI	P	02	12	08	
12	DDI	e i	05	12 14	23 20	



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DATE	STN	PHASE	G h	M m	T s	Δ km	
12	NDI	eP	05	12	33	SW	
13	<i>Epc. 26.1°N, 100.9°E. Yunnan Province, China. H = 10h 03m 50.6s - h about 33 km (USCGS). Mag. 4.7 (CGS)</i>						
	TOC	e e	10	05 07	23 13		
	SHL	iP i e i i	10	05 07 08 08 09	47 00 20 21 00	WC	
	CHA	iP eS	10	03 09	45 02	R 1340	
	BOK	iP i i i M	10	07 09 12 14 18	05 44 20 37 30	1580	
	PBA	eP iS i Mn	10	07 10 12 13	40 48 33 -	1890	
	DDI	eP eS e	10	08 12 15	27 14 08	2300	
	NDI	eP	10	08	34		
	MDR	eP PP PPP eS SS Lr M	10	08 09 09 13 14 14 16	59 30 42 17 07 47 58	2710	
	POO	eP	10	09	25		
	BOM	eP e M	10	09 11 21	23 09 24		
	HYD	M	10	13	24		
13	SHL	iP	11	40	30	C	
	CHA	i	11	41	23		
12	CAL	eP eS M	12	58 13 04	10 07 44	2420	
13	<i>Epc. 39.4°N, 72.7°E. Tadzhik S.S.R. H = 13h 53m 31.1s (USCGS). - h about 144 km.</i>						

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DATE	STN	PHASE	G h	M m	T s	Δ km
16	CHA	iP	21	45	44	C
16	NDI	eP	21	43	34	SEC
16	DDI	eP	21	46	25	
16	SHL	iP	21	48	16	NWC
16	NDI	eP	22	27	25	
16	SHL	iPg iSg	22	43	52 47	100 05
17	NDI	P i	05	50	03 52	08
17	CHA	iP	05	57	02	
17	NDI	eP	05	53	03	
17	DDI	eP	08	13	32	
17	NDI	eP iS	08	13	44 18	930 20
17	NDI	i	09	04	49	
17	NDI	i	10	55	52	
17	NDI	P	13	00	40	
17	DDI	iP	18	21	24	C
17	NDI	eP iS	18	21	33 23	NWR 950 10
17	NDI	eP e	18	52	23 54	
17	CHA	eP eS	19	33	59 38	630 10
17	NDI	iP	19	37	30	
17	NDI	iPg iSg	22	59	203 58	40 25
18	CHA	eP	08	35	41	860

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DATE	STN	PHASE	G h	M m	T s	Δ km
18	NDI	iP iS	08	35	51 37	E 830 20
18	CHA	iP e iSg	08	49	34 43 31	380
18	SHL	eP i iS i	03	49	27 50 02 45	310
18	NDI	eP	03	49	27	
18	NDI	i i	23	03	48 08	29
18	DDI	iPh PP PPP P* Pg Lq iSn SS Lr SSS S* Sg,M	11	13	15 13 23 12 35 13 41 51 02 05 13 21 45	C 930
18	NDI	iP iS	11	13	25 15	NWR 930 04
18	MDR	e	12	31	58	
18	NDI	eP	12	23	43	
18	HYD	M	12	40	04	
18	CHA	eP eS	17	11	53 14	1685
18	NDI	iP i iS	17	10	21 10 22	NWR 930
18	CHA	eP eS	17	11	53 14	1685
18	SEH	iP i i i	17	13	54 14 46 10	
18	MDR	e	17	17	21	
18	CHA	eP	21	37	23	
18	SHL	eP Contd.	03	49	07 31	200
18	TOC	eP i iS i	03	49	27 50 02 45	310
18	CAL	eP iSg	03	49	59 51	560 27
18	BOK	iP Lq eS M	03	50	04 27 38 24	910
18	DDI	eP iS	03	51	23 53	1310 37
18	NDI	eP iS	03	51	28 53	SER 1330 44
18	HYD	eP eS M	03	52	13 01 55	1670
18	PBA	iP i	03	52	23 28	
18	MDR	eP PP PPP Lq eS SS Lr M	03	52	39 52 51 59 43 47 08 23 33	1880
18	POO	iP eS	03	52	44 58	1930 00
18	BOM	eP eS SS e e	03	52	56 31 49 43 59	2150
18	SEH	e	03	54	03	
18	KOD	i	04	35	19	
18	NDI	eP	04	43	35	SC
18	NDI	eP	04	56	18	WC
18	DDI	eP iS	08	35	41 37	860 11
18	DDI	iP	22	53	39	WR
18	NDI	eP	22	52	49	
18	NDI	i i	23	03	48 08	29
18	NDI	eP	00	14	03	SWC
18	NDI	eP	04	27	38	
18	NDI	eP	05	09	14	
18	BOK	iP	03	40	11	
18	DDI	eP	03	14	13	
18	MDR	eP e PP PPP eS Lq M	09	22	22 22 41 58 59 20 20 12	2970
18	SHL	iP	09	22	43	R
18	NDI	eP	09	24	05	NER
18	NDI	eP	09	31	07	
18	NDI	eP	10	21	09	NER
18	SHL	eP	13	15	50	
18	NDI	eP	15	45	37	R
18	DDI	iP	15	45	44	C
18	SHL	eP	18	43	27	
18	SHL	iP iP* iS	19	41	06 03 35	N 250
18	SHL	iP iP* iS	19	50	53 55 22	NC 250
18	SHL	iPg iSg	20	03	43 51	WR 70
18	NDI	eP	20	33	41	
18	SHL	iP iP* iS	21	33	40 42 08	NC 240

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DATE	STN	PHASE	G h	M m	T s	Δ km
15	NDI	iP iS	08	35	51 37	E 830 20
15	CHA	iP e iSg	08	49	34 43 31	380
15	SHL	eP i iS i	03	49	27 50 02 45	310
15	NDI	eP	03	49	27	
15	NDI	i i	23	03	48 08	29
15	DDI	iPh PP PPP P* Pg Lq iSn SS Lr SSS S* Sg,M	11	13	15 13 23 12 35 13 41 51 02 05 13 21 45	C 930
15	NDI	iP iS	11	13	25 15	NWR 930 04
15	MDR	e	12	31	58	
15	NDI	eP	12	23	43	
15	HYD	M	12	40	04	
15	CHA	eP eS	17	11	53 14	1685
15	NDI	iP i iS	17	10	21 10 22	NWR 930
15	CHA	eP eS	17	11	53 14	1685
15	SEH	iP i i i	17	13	54 14 46 10	
15	MDR	e	17	17	21	
15	CHA	eP	21	37	23	

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DATE	STN	PHASE	G h	M m	T s	Δ km	
19	CHA	iP eS	21	29	39 40 51	690	
19	CHA	e	21	48	10		
	NDI	eP	21	48	25 C		
20	NDI	iP _g iS _g	01	17	02 7 ER 17 03 9	30	
20	SHL	iP	03	15	38		
20	SHL	iP	03	37	43 SW		
	NDI	iP	03	38	25 NC		
20	PBA	eP	05	04	54		
20	NDI	eP	03	25	32		
20	<i>Epc. 46.6°N, 152.5°E. Kurile Islands. H = 03h 35m 36.2s - h about 50 km (USCGS) Mag. 4.8 SD 0.4 (CGS)</i>						
	SHL	iP	09	44	45 W		
	CHA	iP	08	45	12 C		
	DDI	iP	08	45	31 C		
	NDI	iP	08	45	40 SWC		
20	NDI	iP i	09	33	48 SC 33 52		
20	SHL	iP	10	02	43 SW		
	CHA	e	10	03	12		
	DDI	iP	10	03	35 C		
	NDI	iP iS	10	03	44 SWC 6500 11 47		
	POO	iP	10	04	42 C		
	MDR	eP iS e e Lq	10	04	52 7110 13 30 13 40 14 31 21 15		
	BOM	eP e e e e M	10	05	04 05 14 13 42 13 53 14 10 33 -		
20	CHA	iP	10	47	53 C		

DATE	STN	PHASE	G h	M m	T s	Δ km	
20	SHL	iP	12	45	25		
20	SHL	eP iS	14	18	13 19 02	450	
20	CHA	eP	14	32	33		
20	NDI	eP	13	29	00 S		
20	SHL	iP _g iS _g	19	32	42 32 44	20	
20	SHL	iP _g iS _g	22	33	37 39 12	130	
	CHA	eP	22	39	33		
20	SHL	eP	23	54	31		
21	NDI	eP	00	15	12 C		
21	<i>Epc. 34.4°N, 58.1°E. Iran H = 01h 04m 00.6s. - h about 33 km. Mag. 5.0 (CGS)</i>						
	NDI	iP	01	08	01 SC		
	DDI	eP	01	08	05		
21	NDI	eP	04	12	19		
21	SHL	eP _g iS _g	07	22	29 22 52	110	
21	SHL	iP i i	09	01	03 C 02 18 02 50		
21	SHL	eP	13	59	54 R		
21	NDI	iP	14	01	13 SEC		
21	NDI	iP	14	07	47 SER		
21	SHL	iP _g iS _g iSn	13	32	51 33 07 33 11	130	
21	SHL	iP iS iS*	20	10	02 10 29 10 32	230	
	CHA	eP eS	20	10	27 11 12	440	
21	SHL	iP	22	33	23 C		
22	NDI	eP _g eS _g	00	07	124 07 474	50	
22	NDI	eP	04	39	47		



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DATE	STN	PHASE	G h	M m	T s	Δ km
22	BOK	iP	07	45	56	
22	CHA	iP eS	08	43	02 C 46 24	180
22	NDI	eP	09	09	15	
22	SHL	iP	14	19	39 R	
	NDI	eP	14	21	20	
22	SHL	iP iS	15	28	05 28 44	350
	CHA	eP eS	15	39	02 30 32	830
22	NDI	eP	16	20	10	
22	SHL	iP	18	00	13 R	
	NDI	eP	18	01	09	
22	DDI	iP	19	24	04 R	
22	PBA	iP _g iS _g	19	55	12 R 55 27	
22	CHA	iP iS _g	20	10	48 R 11 08	140
22	SHL	iP	20	21	32 NWC	
	CHA	iP i	20	22	25 C 23 40	
22	SHL	iP i	21	22	20 ER 25 31	
	CHA	iP iS	21	22	59 R 25 42	1320
	NDI	iP	21	24	10 NWR	
22	SHL	iP _g iS _g	22	03	19 NER 90 03 20	
22	SHL	iP	22	25	29 C	
22	SHL	iP	00	13	13 C	
23	SHL	iP	01	13	27 C	
23	PBA	iP P _g PP PPP iS _g i	03	51	24 CSW 150 51 27 51 31 51 38 51 42 51 49	
23	BOK	iP	08	44	33	
23	NDI	eP	10	41	40	
23	NDI	eP e	22	49	20 SEC 56 00	
	CHA	iP	22	50	27 R	
	SHL	iP	22	50	55 R	
23	MDR	e e e	22	58	32 23 01 03 02 13 13 42	
24	NDI	eP	01	32	31	
24	NDI	iP i	05	42	55 SEC 43 00	
24	DDI	eP	07	39	33	
	NDI	iP i	07	39	43 C 40 25	
	CHA	iP i	07	40	02 R 40 53	
24	SHL	eP _g iS _g	09	52	31 52 39	70
24	MDR	eP PP PPP eS Lq Lr M	09	57	26 58 00 58 16 10 01 46 02 21 03 40 05 33	2740
	POO	eP	09	58	03	
	NDI	iP	09	59	25 SR	
	CHA	eP	09	59	40	
	DDI	eP e	09	59	41 10 05 40	
	SHL	iP	09	59	53 R	
24	PBA	Mn	10	12	-	
24	SHL	iP	14	53	11 R	
24	NDI	eP	23	33	41 C	
25	POO	eP	00	45	48	
	NDI	eP	00	46	45	
	DDI	iP	00	46	57 C	
	SHL	iP	00	47	08 R	

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DATE	STN	PHASE	G h	M m	T s	Δ km	DATE	STN	PHASE	G h	M m	T s	Δ km	
25	SHL	iP	02	31	35		26	NDI	eP	08	06	33		
25	SHL	iP	02	36	18		26	NDI	eP eS	08	23	26 25 16	1070	
25	PBA	M	02	43	-		26	BOK	iP	08	45	35		
25	<i>Epc. 32.1°N, 137.7°E. South of Honshu, Japan. - h about 374 km. H = 04h 04m 29s (USCGS). Mag. 4.8 SD 0.4 (CGS).</i>							26	NDI	eP	09	21	33	
	SHL	iP	04	11	34	NER	26	NDI	iP	13	20	35		
	CHA	iP	04	12	05	R	26	SHL	iP i	17	14	09 15 31	C	
	DDI	iP	04	12	52	R	26	SHL	iP	18	21	53	NWR	
	NLI	iP	04	13	01	NER		CHA	iP e	18	22	29 24 18		
25	NDI	eP	04	19	53			MDR	eP PP PPP	18	23	09 24 49 25 13	4750	
25	NDI	iP	07	43	25	C			eS Lq	29	24 33 07			
25	BOK	e	08	22	30		26	NDI	eP e	18	23	37 28 37	NWR	
25	SHL	iPg iSg	09	20	17 20 22	40		POO	eP	18	23	42		
25	NDI	iP	10	03	20	R	26	SHL	iP	18	27	41	SEC	
	DDI	iP	10	03	23	R	26	NDI	P e	21	27	04 27 08		
25	SHL	iP	10	13	37	SWC	26	SHL	iP	23	23	15	C	
	NDI	iP	10	14	38	SWC		CHA	iP	23	23	38	C	
25	NDI	eP	13	24	08		26	SHL	iP iS	23	23	55 27 30	NER 310	
25	SHL	iP	17	00	40	R		TOC	e i	23	27	05 27 23		
25	NDI	e i	22	11	35 11 40		26	CHA	eP	23	29	15		
25	SHL	eP	23	33	20		26	PBA	e	23	41	51		
26	PBA	iPg P Sg PP S* eS PPP SS	02	02	50 02 54 02 58 03 00 03 02 03 05 03 07 03 13	R 70	27	MDR	eP eS Lr M	02	40	25 45 28 48 04 50 08	3250	
26	NDI	eP	02	09	48		27	SHL	iP	03	40	35		
26	NDI	iPg iSg	03	24	43 24 47	8 SWC		CHA	eP	03	41	55		
26	NDI	eP e	07	07	23 08 21		27	SHI	iP	07	54	49	C	



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DATE	STN	PHASE	G h	M m	T s	Δ km	DATE	STN	PHASE	G h	M m	T s	Δ km	
27	NDI	iP	07	53	29	R	27	SEH	SS Contd. SSS	15	17	39 17 53		
27	<i>Epc. 44.0°N, 79.2°E. Kazakh S.S.R. H = 09h 02m 22.8s - h about 33 km (USCGS). Mag. 4.5 (CGS).</i>								i i i				19 18 19 48 20 17	
	NDI	eP	09	05	57			NLI	iP i iS	15	14	39 17 15 17 31	SER 1760	
	CHA	eP	09	06	33			KOD	iP PP i i i	15	15	03 15 24 18 45 19 21 19 39	E	
27	<i>Epc. 21.5°N, 94°E (Shillong) H = 15h 10m 45s. Epc. 21.7°N, 94.4°E Central Burma. H = 15h 10m 48.4s - h about 102 km (USCGS) Mag. 6.4 SD 0.4 (CGS).</i>								POO	iP iS M PcS ScS	15	15	10 18 44 21 40 22 55 23 40	NER 2130
	SHL	iP iS	15	11	55 12 48	SER 500		BOM	iP PP eS Lq SS Lr M	15	15	21 15 42 19 00 19 13 19 23 20 21 23 05	2210	
	CAL	iP iS	15	12	10 13 12	E 580								
	BOK	iP eS	15	12	44 14 07	NW 800								
	CHA	iP e e e	15	12	48 13 12 13 52 14 18	R 890	27	PBA	i	15	23	13		
	TOC	i	15	13	05		27	SHL	iP iS Sg	15	24	05 34 37 34 44	280	
	PBA	iP PP PPP P* Pg Lq iS SSS M	15	13	09 13 15 13 22 13 31 13 55 14 49 14 57 15 22 13 12	NER 1030	27	NDI	iPg iSg	20	49	50 49 52	NR 20	
	MDR	iP PP PPP Lq iS SS SSS Lr M	15	14	27 14 38 14 47 17 03 17 10 17 24 17 37 17 47 13 53	W 1610	27	SHL	iPg Sg	22	31	00 31 13	130	
	SEH	iP e PPP e iS e	15	14	30 14 35 15 00 15 20 17 17 17 21	1700	28	CHA	i	05	40	24	C	
							28	SHL	eP	03	22	22		
							28	DDI	eP	15	20	50		
								NDI	eP	15	20	59		
							28	SHL	eP	17	29	53		
							28	<i>Epc. 18.2°N, 94.3°E. Near West Coast of Burma. - h about 43 km. H = 17h 47m 05.9s (USCGS) Mag. 5.3 SD 0.4 (CGS)</i>						
								<i>Epc. 18.5°N, 94°E. (C.S.O., Shillong). H = 17h 47m 10s.</i>						
								PBA	eP PP	17	43	45 43 51	710	

DATE	STN	PHASE	G h	M m	T s	Δ km	DATE	STN	PHASE	G h	M m	T s	Δ km	
28	PBA	PPP	17	49	04		28	BOM	iP	17	51	45	2830	
	Cont'd.	i		49	10			Cont'd.	eS		55	35		
		Pg		49	18									
		i		49	52		28	MDR	e	18	05	25		
		Lq		49	58				e		03	45		
		iS		50	00		28	SHL	eP	19	38	04	330	
		SS		50	12				iS		38	41		
		SSS		50	32		28	SHL	iP	20	22	52		
		M		51	03									
	CAL	iP	17	48	51	710		CHA	eP	20	23	44		
		iS		50	05		28	NDI	i	20	30	19		
	SHL	iP	17	48	55	NWC 780	28	SHL	eP	20	55	00		
		iP*		49	14									
		iS		50	16		29	SHL	iP	00	03	52	R 270	
	CHA	iP	17	49	40	R 1150			iS		04	24		
		iS		51	27		29	CHA	eP	07	13	23		
	TOC	i	17	50	13			NDI	eP	07	14	07	WR	
		e		50	27		29	SHL	iP	13	53	42		
		e		51	47									
		e		52	01		29	SHL	iP	15	28	15	C 4820	
		e		52	48				iS		34	44		
	MDR	iP	17	50	29	W 1430			M		43	00		
		PP		50	40			CHA	iP	15	28	43	C	
		PPP		50	47			CAL	iP	15	29	14	5020	
		eS		52	46				eS		35	55		
		iS		52	57			DDI	eP	15	29	28	5880	
		SS		53	12				eS		33	53		
		SSS		53	21			NDI	iP	15	29	28	SWC 6190	
		Lr		53	32				eS		37	14		
		M		54	33			BOM	eP	15	30	31		
	SEH	iP	17	51	01	1870			e		39	02		
		i		51	03				e		39	09		
		i		51	19				e		39	24		
		eS		54	08				ep		39	40		
	KOD	eP	17	51	28	2020			M	13	00	-		
		iS		54	44			29	PBA	Mn	13	57	-	
	NLI	iP	17	51	23	NWC		29	NDI	eP	18	27	57	1070
		i		54	39				eS		29	33		
	DLI	iP	17	51	29	NW 2150		29	NDI	iP	18	59	11	C
		PP		51	48									
		PPP		51	58			29	NDI	iPg	19	41	23	5 SWR 40
		iS		55	02				iSg		41	31		
		Lq		55	03									
		SS		55	23									
		SSS		55	41									
		PcP		55	54									
		Lr		56	02									
		M		57	33									
	POO	iP	17	51	33	NER								
		i		54	50									



DATE	STN	PHASE	G h	M m	T s	Δ km	DATE	STN	PHASE	G h	M m	T s	Δ km
29	DDI	e	22	58	28		29	SEH	iP	23	58	07	4970
		i		59	20			Cont'd.	iS	00	04	44	
29	<i>Epc. 8.5°S, 112.7°E. Near South Coast of Java. - h about 73 km. H = 23h 49m 40.8s (USCGS) Mag. 5.8 (CGS).</i>							BOM	iP	23	58	12	5120
	PEA	iP	23	55	27	SWC 2960		iS	00	04	58		
		PPP		56	28			PPS		05	13		
		i		57	27			e		05	46		
		iS	00	00	01			e		07	13		
		M		03	-			e		07	23		
	CAL	iP	23	57	04	4150		ScS		07	50		
		iS	00	02	52			SS		08	23		
	SHL	iP	23	57	07	NWC 4170		SSS		09	44		
		i		00	02	48		TOC	e	23	58	18	
		iS		02	57			NDI	iP	23	59	21	NWC 5240
		M		09	55				i		59	48	
	CHA	iP	23	57	33	C 4560			i	00	03	32	
		i		00	03	03			iS		05	24	
		iS		03	50			DDI	iP	23	59	25	ER 5410
		i		07	29				iS	00	05	37	
	POO	iP	23	58	05	R			PS		05	45	
		eS		00	04	35			PPS		05	52	
									ScS		08	25	
									SS		09	05	
									Lq		10	19	
									SSS		10	27	
									Lr		12	40	

Earthquake Report (Non Instrumental Report)

The following is the list of earthquake reports that were reported by Voluntary Observers from different stations during the month of February 1964.

Station	Date	Time GMT	No. of shocks	Duration (Seconds)	Intensity (R. F. Scale)	Remarks
Ehubaneshwar	01	00 10	1	2	V	Appears to come from NE.
Shillong	10	21 23	1	3	V	
Shillong	18	03 50	1	3	IV	
Salem	23	00 15 to 00 45	1	15	IV	
Shillong	27	03 40	1	3	IV	
Shillong	27	15 13	1	5	V	
Lumding	27	15 12	1	25	V	
Naya Dumka	27	14 25	1	1/3	VII	
Kailashar	27	15 08	1	7	V	
Shillong	28	20 40	1	5	V	Appears to come from East.

DATE	HOUR	K	MEAN Amplitude in mm	MEAN Period in sec
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Station. Shillong

01	00	3	0.2	4.0
	06	3	0.3	4.0
	12	3	0.3	4.0
	18	3	0.3	4.0
02	00	3	0.4	5.0
	03	3	0.3	4.4
	12	...	-	-
	18	...	-	-
03	00	...	-	-
	06	3	0.3	4.0
	12	3	0.3	4.0
	18	3	0.3	4.0
04	00	3	0.2	3.4
	03	3	0.3	4.0
	12	3	0.3	4.0
	18	3	0.3	4.0
05	00	3	0.2	3.4
	03	3	0.3	4.0
	12	...	-	-
	18	3	0.2	4.0
06	00	3	0.2	4.0
	06	3	0.3	4.0
	12	3	0.2	4.0
	18	3	0.2	4.0
07	00	3	0.2	4.0
	03	3	0.2	4.2
	12	3	0.2	4.0
	18	3	0.2	4.0
08	00	3	0.2	4.0
	03	3	0.2	4.0
	12	...	-	-
	18	3	0.2	4.0
09	00	3	0.3	4.0
	03	3	0.2	4.0
	12	3	0.2	4.2
	18	0,0	-	-
10	00	3	0.2	4.0
	03	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.3	4.0
11	00	3	0.3	4.0
	03	3	0.3	4.0
	12	3	0.2	4.2
	18	3	0.2	4.0
12	00	3	0.2	4.0
	06	3	0.2	4.0
	12	3	0.3	4.0
	18	3	0.2	4.0

DATE	HOUR	K	MEAN Amplitude in mm	MEAN Period in sec
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Station. Shillong

13	00	3	0.2	4.0
	06	3	0.3	4.0
	12	3	0.3	4.0
	18	3	0.2	4.0
14	00	3	0.2	4.0
	03	3	0.2	4.0
	12	3	0.2	4.2
	18	3	0.3	4.2
15	00	3	0.2	4.2
	03	3	0.2	4.0
	12	3	0.2	4.2
	18	3	0.2	4.0
16	00	3	0.2	4.0
	03	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.2	4.2
17	00	3	0.2	4.0
	03	...	-	-
	12	3	0.2	4.0
	18	3	0.2	4.0
18	00	3	0.2	4.0
	06	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.3	4.0
19	00	3	0.2	4.0
	03	...	-	-
	12	...	-	-
	18	...	-	-
20	00	...	-	-
	03	...	-	-
	12	...	-	-
	18	...	-	-
21	00	...	-	-
	03	3	0.2	4.0
	12	...	-	-
	18	...	-	-
22	00	...	-	-
	03	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.3	4.2
23	00	3	0.3	4.2
	03	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.2	4.0
24	00	3	0.2	4.0
	03	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.2	4.0

DATE	HOUR	K	MEAN Amplitude in mm	MEAN Period in sec
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Station. Shillong

25	00	3	0.2	4.0
	06	3	0.3	4.2
	12	3	0.2	4.0
	18	3	0.2	4.0
26	00	3	0.2	3.8
	03	3	0.3	4.0
	12	3	0.3	4.0
	18	3	0.2	4.2
27	00	3	0.3	4.4
	03	3	0.3	4.0
	12	3	0.2	4.0
	18	3	0.3	4.2
28	00	3	0.3	4.0
	00	3	0.2	4.0
	12	...	-	-
	18	...	-	-
29	00	...	-	-
	03	3	0.2	4.0
	12	3	0.2	4.0
	18	3	0.2	4.2

Station. Port Blair. Compt. E-W.

01	00	3	0.2	3
	06	3	0.2	7
	12	3	0.2	6
	18	3	0.2	3
02	00	3	0.2	3
	03	0,0	-	-
	12	0,0	-	-
	18	3	0.2	3
			0.2	5
03	00	3	0.2	3
	06	1	0.2	3
	12	1	0.2	3
	18	1	0.2	3
04	00	1	0.2	3
	06	1	0.2	3
	12	1	0.2	3
	18	3	0.2	3
05	00	3	0.2	3
			0.2	7
	06	3	0.2	3
			0.4	7
	12	...	-	-
	18	3	0.2	3
			0.4	7
06	00	3	0.4	3
			0.2	7
	06	3	0.2	3

DATE	HOUR	K	MEAN Amplitude in mm	MEAN Period in sec
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Station. Port Blair Compt. E-W.

03	12	3	0.2	3
	18	3	0.2	3
07	00	3	0.2	3
			0.2	7
	03	3	0.2	7
	12	3	0.2	3
			0.2	7
	18	3	0.2	3
			0.2	7
08	00	3	0.2	3
			0.2	7
	06	3	0.2	7
	12	3	0.2	3
			0.2	7
	18	3	0.2	7
09	00	3	0.2	7
	03	3	0.4	7
	12	3	0.4	7
	18	3	0.2	7
10	00	3	0.2	7
	03	3	0.2	7
	12	3	0.2	5
	18	...	-	-
11	00	3	0.2	6
	03	3	0.2	5
	12	3	0.2	7
	18	3	0.2	5
12	00	3	0.2	5
	03	3	0.2	5
	12	3	0.2	5
	18	3	0.2	5
13	00	...	-	-
	03	3	0.2	3
			0.4	7
	12	3	0.4	3
			0.8	7
	18	3	0.4	3
			0.8	7
14	00	3	0.4	3
			1.2	7
	06	3	0.8	3
			1.2	7
	12	3	0.8	3
			1.2	7
	18	3	0.8	3
			0.8	7
15	00	3	0.8	3
			0.8	7
	06	3	0.8	3
			0.8	7

DATE HOUR K MEAN MEAN
GMT Amplitude Period
in mm in sec

Station. Port Blair Compt. E-W.

15	12	3	0.3	3
	18	1	0.4	3
16	00	1	0.8	3
	03	1	0.8	3
	12	1	0.4	3
	18	1	0.4	3
17	00	1	0.4	3
	06	1	0.4	3
	12	1	0.2	3
	18	1	0.2	3
18	00	1	0.2	3
	03	3	0.2	3
			0.2	3
			0.2	3
	12	3	0.2	3
			0.2	7
18	0,0		-	-
19	00	3	0.2	7
	06	3	0.2	7
	12	3	0.2	3
			0.2	7
	18	3	0.2	3
			0.2	7
20	00	3	0.2	3
			0.2	7
	06	3	0.2	7
	12	3	0.2	6
	18	3	0.2	6
21	00	3	0.2	7
	06	3	0.4	7
	12	3	0.4	7
	18	3	0.4	7
22	00	3	0.4	7
	03	3	0.4	7
	12	3	0.2	7
	18	...	-	-
23	00	...	-	-
	03	3	0.2	3
	12	3	0.2	5
	18	3	0.2	3
24	00	3	0.2	3
	03	3	0.2	3
	12	3	0.4	3
	18	3	0.2	3
25	00	3	0.2	3
	03	3	0.2	3
	12	3	0.2	3
	18	3	0.2	3
26	00	3	0.2	3

DATE HOUR K MEAN MEAN
GMT Amplitude Period
in mm in sec

Station. Port Blair Compt. E-W.

26	06	3	0.2	3
	12	3	0.2	3
	18	3	0.2	3
27	00	3	0.2	3
	03	3	0.2	3
	12	3	0.4	3
	18	3	0.4	3
28	00	3	0.2	3
	03	3	0.2	3
	12	3	0.2	3
			0.2	3
	18	3	0.2	3
			0.2	6
29	00	3	0.2	3
			0.2	6
	06	3	0.2	6
	12	3	0.2	3
	18	3	0.2	3
			0.2	6

Station. Madras

01	00	2	0.5	5.0
		2	0.4	3.3
	03	2	0.5	4.9
		2	0.5	3.3
	03	2	0.4	4.3
		2	0.5	3.3
	12	2	0.4	4.4
		2	0.4	3.3
	18	2	0.5	3.5
02	00	2	0.5	3.6
	03	2	0.5	3.5
	03	2	0.5	3.7
	12	2	0.4	3.5
		2	0.1	1.3
	18	2	0.5	3.4
		2	0.1	1.3
03	00	2	0.5	3.5
		2	0.1	1.6
	03	2	0.4	3.4
		2	0.1	1.9
	03	2	0.4	3.2
		2	0.1	1.7
	12	2	0.4	3.2
		2	0.1	1.4
	18	2	0.4	3.4
		2	0.1	1.5
04	00	2	0.4	3.5
	03	2	0.4	3.5
	03	2	0.4	3.2
	12	2	0.4	3.1
		2	0.4	3.9

DATE HOUR K MEAN MEAN
GMT Amplitude Period
in mm in sec

Station. Madras

04	18	2	0.4	4.1
		2	0.3	2.9
05	00	2	0.4	4.4
		2	0.3	5.1
	03	2	0.4	5.1
		2	0.3	3.3
	06	2	0.4	4.9
		2	0.3	3.1
	12	...	Earthquake	
	18	3	0.4	5.2
		3	0.2	3.2
05	00	3	0.3	5.2
		3	0.3	3.1
	03	3	0.3	4.3
		3	0.3	3.1
	03	3	0.3	4.2
		3	0.2	3.0
	12	3	0.2	4.2
		3	0.2	3.0
	18	3	0.4	4.3
		3	0.2	2.9
07	00	3	0.4	4.8
		3	0.2	2.8
	03	3	0.3	4.3
		3	0.3	2.7
	06	3	0.3	4.5
		3	0.2	2.8
	12	3	0.3	4.4
		3	0.2	2.7
	18	3	0.3	4.6
		3	0.2	2.8
08	00	2	0.3	4.7
		3	0.2	2.7
	03	2	0.3	4.9
		2	0.3	4.9
	12	2	0.3	4.9
		2	0.4	5.8
09	00	2	0.4	5.5
	03	2	0.3	5.1
	06	2	0.3	4.9
	12	2	0.3	4.8
	18	2	0.3	4.7
		3	0.1	2.4
10	00	2	0.3	4.7
		3	0.2	2.3
	03	2	0.3	4.5
		2	0.2	2.9
	06	2	0.3	4.4
		2	0.3	3.0
	12	2	0.3	4.0
		3	0.2	2.9
	18	2	0.4	4.4
		3	0.2	2.7



DATE HOUR K MEAN MEAN
GMT Amplitude Period
in mm in sec

Station. Madras

11	00	2	0.4	4.7
		3	0.2	2.8
	03	2	0.4	4.9
		3	0.2	2.3
	03	2	0.4	4.4
		3	0.2	2.7
	12	3	0.3	4.2
		3	0.2	2.7
	18	2	0.3	4.3
		3	0.3	2.8
12	00	3	0.2	4.3
		3	0.2	2.8
	03	3	0.2	2.7
		3	0.2	2.7
	12	3	0.2	2.5
		3	0.2	2.6
13	00	3	0.3	2.3
		3	0.3	2.6
	03	2	0.4	2.3
		2	0.4	2.7
	13	2	0.4	2.8
		2	0.2	1.7
14	00	2	0.4	2.9
		2	0.1	1.7
	03	2	0.4	2.7
		2	0.2	1.7
	03	2	0.4	2.8
		2	0.1	1.7
	12	2	0.4	2.7
		2	0.1	1.7
	18	2	0.4	2.8
		2	0.1	1.5
15	00	2	0.5	3.1
		3	0.1	1.5
	03	2	0.4	3.2
		2	0.4	3.2
	12	2	0.4	3.6
		2	0.4	3.7
15	00	2	0.4	3.7
		2	0.5	3.3
	03	2	0.5	3.5
		2	0.5	3.5
	12	2	0.5	3.5
		2	0.4	3.5
17	00	2	0.4	3.5
		2	0.4	3.3
	03	2	0.4	3.4
		2	0.4	3.4
	12	2	0.3	3.4
		2	0.3	2.9
18	00	2	0.3	4.1
		2	0.3	2.9

DATE	HOUR	K	MEAN Amplitude in mm	MEAN Period in sec
<i>Station. Bokaro</i>				
25	00	1	0.3	4.5
	03	3	0.3	5.2
	12	3	0.2	4.7
	18	3	0.2	5.0
26	00	3	0.2	4.5
	03	3	0.2	5.0
	12	3	0.1	4.4
	18	3	0.1	4.6
27	00	3	0.3	4.8
	06	3	0.2	4.7
	12	3	0.2	4.8
	18	3	0.2	5.0
28	00	3	0.2	4.9
	06 to 18	...	-	-
29	00 to 18	...	-	-
<i>Station. Bombay (Colaba).</i>				
05	06	3	0.3	2.0
			0.5	5.3
	12	.	.	.
	18	3	0.4	1.9
			0.5	6.0
06	00	3	0.5	1.3
			0.5	4.5
			0.5	3.0
	03	3	0.5	1.9
			0.5	5.3
	12	3	0.5	2.0
			0.5	6.0
	18	3	0.5	2.2
			0.5	5.0
07	00	3	0.5	1.3
			0.5	5.0
	03	3	0.4	1.9
			0.4	5.0
	12	3	0.4	1.9
			0.5	4.9
	18	3	0.4	2.0
			0.5	4.5
08	00	3	0.5	5.0
			0.3	2.0
	06	3	0.4	1.5
			0.5	5.0
	12	.	.	.
	18	3	0.4	2.0
			0.6	5.0
09	00	3	0.5	2.0
			0.5	5.0
	03	3	0.5	2.2
			0.5	5.0
	12	.	.	.
	18	3	0.5	2.3
			0.6	5.0
10	00	3	0.5	2.0
			0.5	5.0
	06	3	0.3	1.9
			0.4	5.0
	12	1	0.4	2.0
	15	1	0.5	2.0
	18	1	0.5	2.4
	21	1	0.5	2.4
11	00	1	0.5	2.2
	06	3	0.5	2.4
			0.5	5.0
	12	3	0.4	2.5
			0.5	5.1
	18	3	0.5	2.5
			0.5	5.0
12	00	3	0.5	4.9
			0.3	2.0

DATE	HOUR	K	MEAN Amplitude in mm	MEAN Period in sec
<i>Station. Bombay (Colaba)</i>				
12	03	3	0.4	2.0
	12	3	0.5	5.0
			0.5	3.7
			0.5	5.4
	18	3	0.4	2.6
			0.6	5.0
13	00	3	0.4	2.5
			0.5	5.2
	03	3	0.4	2.3
			0.6	5.0
	12	3	0.5	2.5
			0.5	5.0
	18	3	0.3	2.5
			0.6	6.8
			0.5	4.6
14	00	3	0.5	7.0
			0.6	5.0
	03	3	0.6	5.0
			0.5	3.9
	12	3	0.5	4.3
			0.5	3.7
	18	.	p	.
15	00	3	0.5	3.9
			0.5	5.8
	06	1	0.6	4.0
	09	1	0.6	4.0
	12	1	0.6	4.0
	15	1	0.6	4.0
	18	1	0.6	4.0
	21	1	0.6	4.0
16	00	1	0.6	4.0
	03	1	0.6	4.0
	06	1	0.7	4.0
	09	1	0.7	4.0
	12	1	0.7	4.0
	15	1	0.7	4.0
	18	1	0.7	4.0
	21	1	0.7	4.0
17	00	1	0.6	4.0
	03 to 18		No record.	
18	00		No record.	
	03	1	0.6	2.7
	06	1	0.5	2.7
	09	1	0.6	2.7
	12	1	0.5	2.8
	15	1	0.5	2.3
	18	1	0.5	2.3
	21	1	0.5	2.8
19	00	1	0.5	2.9
	06	3	0.5	3.5
			0.4	2.0
	12	3	0.5	3.5
			0.4	2.0
	18	3	0.5	3.5
			0.5	3.5
			0.3	1.3
20	00	3	0.5	2.9
			0.3	1.5
<i>Station. Bombay (Colaba)</i>				
20	06	3	0.6	3.0
			0.5	4.2
	12	3	0.5	3.0
			0.5	6.4
	18	3	0.3	1.5
			0.5	5.0
21	00	3	0.5	5.2
			0.5	3.0
			0.4	1.5
	03	3	0.4	1.8
			0.5	4.0
	12	3	0.5	1.8
			0.5	4.9
	18	3	0.5	2.0
			0.5	4.7
22	00	3	0.5	2.0
			0.5	4.7
	03	3	0.5	2.2
			0.5	4.0
	12	1	0.5	2.5
	15	1	0.5	2.5
	18	1	0.5	2.7
23	00	3	0.6	3.0
			0.5	2.0
	03	1	0.6	2.9
			0.6	2.9
	09	1	0.6	3.0
	12	1	0.5	2.8
	15	1	0.5	3.0
	18	1	0.5	2.8
	21	1	0.3	2.9
24	00	3	0.5	3.0
			0.4	2.0
	03	3	0.5	2.0
			0.5	3.0
	12	1	0.5	2.1
	15	1	0.5	2.2
	18	1	0.5	2.3
	21	1	0.5	2.5
25	00	1	0.5	3.0
	03	3	0.4	2.0
			0.5	4.8
	12	3	0.4	2.0
			0.5	4.0
	18	3	0.5	2.0
			0.5	5.0
26	00	3	0.4	2.3
			0.5	4.7
	03	1	0.5	2.4
	09	1	0.5	2.5
	12	1	0.5	2.5
	15	1	0.5	2.5
	18	1	0.5	2.5
27	00	3	0.5	2.3
			0.5	5.0

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DATE	HOUR GMT	K	MEAN Amplitude in mm	MEAN Period in sec	DATE	HOUR GMT	K	MEAN Amplitude in mm	MEAN Period in sec
27	06	3	0.5	5.7	28	12	3	0.6	5.0
			0.4	2.1				0.4	2.5
	18	3	0.4	1.5	18	.	.	0.4	2.5
			0.6	5.6				0.5	1.5
			0.5	2.3				0.6	5.0
29	00	3	0.5	5.0	03	3	3	0.5	1.8
			0.5	5.0				0.6	5.0
			0.4	2.5				0.4	1.5
			0.5	5.0				0.5	5.0
			0.5	5.0				0.6	5.0
29	03	3	0.5	2.5	18	3	3	0.6	5.0
			0.5	2.5				0.4	2.0
			0.5	5.0					

