



Epi Punched AATH 691128

January

Recd 28/4/67

VW

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

BUL

The following stations contribute records for analysis and publication in this Bulletin:

BROKEN HILL (BHA): 14° 26.8' S; 28° 28.1' E; Alt. 1206 m.  
 Litho. foundation: Dolomite and shales of the Middle Katanga System.  
 Authority: Zambia Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

BULAWAYO (BUL): 20° 08.6' S; 28° 36.8' E; Alt. 1341 m.  
 Litho. foundation: Hornblend schists of the Bulawayan System.  
 Instruments: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
 WSS Station: SP magnification 100,000.  
 LP magnification 1,500.

CHILEKA (CLK): 15° 40.8' S; 34° 58.6' E; Alt. 781 m.  
 Litho. foundation: Charnockitic granulites of the Basement Complex.  
 Authority: Malawi Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
 P. O. Box 562, Bulawayo, Rhodesia.

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BUL not operating after 2nd.

Date	G h	M m	T s	Epicentre, Remarks	Mag CGS
01	00	21	06	USCGS 12.1S 166.2E; Santa Cruz Is.	4.9
01	01	05	46	USCGS 0.1S 125.8E; Molucca Sea	4.7
01	02	59	34	USCGS 10.7N 92.8E; Andaman Is. Region	5.2
01	03	13	18	USCGS 11.9S 166.2E; Santa Cruz Is.	4.6
01	03	35	43	USCGS 7.6N 94.4E; Nicobar Is. Region	4.2
X 01	04	01	12	13.7S 26.0E; Busango Swamp	3.1
01	04	04	07	USCGS 12.0S 166.0E; Santa Cruz Is.	4.5
01	07	05	49	USCGS 15.3S 173.6W; Tonga Is.	6.0
01	07	45	54	USCGS 12.1S 166.2E; Santa Cruz Is.	4.7
X 01	10	36	51	26.6S 26.3E; Klerksdorp Area	
X 01	11	58	38	26.3S 27.1E; Potchefstroom Area	
01	13	18	27	USCGS 11 6S 165.3E. Santa Cruz Is.	4.9
01	14	18	51	USCGS 12.4S 165.8E. Santa Cruz Is.	5.0
01	17	40	19	USCGS 49.2S 108.6E; SE Indian Rise	4.2
01	20	45	27	USCGS 11.9S 165.9E; Santa Cruz Is.	4.4
01	21	58	58	USCGS 11.1S 165.5E; Santa Cruz Is.	5.4
01	22	26(30)		Witwatersrand	
02	06	53	17	USCGS 25.2S 71.0W; Near Coast of N. Chile	5.0
02	08	19	33	USCGS 32.2N 22.7E; Near Coast of Libya	4.5
02	08	38	14	USCGS 53.8N 164.8W; Unimak Is. Region	4.2
X 02	19	47	51	9.9S 28.6E; S. of Lake Mweru, Congo	5.6
02	13	50	06	USCGS 30.6N 50.4E; Iran	5.2
02	20	20	15	USCGS 11.7S 165.3E; Santa Cruz Is.	4.8
03	02	06	50	Kivu Province Congo?	3.7
03	05	52	52	USCGS 11.2S 165.5E; Santa Cruz Is.	5.3
X 03	18	16	59	8.6S 31.1E; W. Fipa Plateau, Tanzania	3.3
04	03	41	36	USCGS 20.3N 120.0E; Philippine Is. Region	5.6
04	20	15	56	USCGS 10.7N 62.5W; Near Coast of N. Venezuela	5.5
04	22	48	24	USCGS 55.7S 27.6W; S. Sandwich Is. Region	5.5
05	00	14	40	USCGS 48.1N 102.8E; Mongolia	6.4
05	00	42	13	USCGS 48.4N 103.1E; Mongolia	5.6
05	10	07	58	USCGS 39.4N 72.9E; Kirgiz SSR	5.3
05	23	58	21	USCGS 48.1N 102.9E; Mongolia.	5.4
06	00	04	03	USCGS 41.8N 143.3E. Hokkaido, Japan Region	5.5
X 06	13	27	14	28.3S 27.9E; O.F.S. Goldfields	4.4
X 06	15	10	26	16.5S 28.5E; Kariba	2.7
X 06	22	20	58	8.4S 30.6E; S. Lake Tanganyika	3.2
07	00	27	25	USCGS 48.8S 112.7E; SE Indian Rise	5.8
07	16	41	03	USCGS 11.9S 166.1E; Santa Cruz Is.	5.1

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Date	G M T h m s	Epicentre, Remarks	Mag CGS
08	01 26 07	N. Mocambique	
X 08	21 49 04	8.8S 32.9E; S. Lake Rukwa	3.3
09	01 55 14	USCGS 27.7N 54.5E; S. Iran	5.3
09	22 39 54	South West Africa?	
X 10	03 12 57	12.4S 33.5E; Central Malawi	2.7
X 11	01 39 06	11.2S 34.6E; Central Lake Malawi	2.7
11	05 54 00	USCGS 0.1S 120.1E; N. Celebes	5.6
X 11	08 46 17	13.7S 25.9E; Busango Swamp	2.6
11	11 20 46	USCGS 34.1N 45.7E; Iran-Iraq Border Region	5.6
X 12	01 55 16	7.9S 30.0E; S. Marungu Mts., Congo	3.2
X 12	05 20 25	16.6S 28.3E; Kariba	2.7
X 12	08 22 07	5S 36E; Kondoa Area, Tanzania	4.0
12	10 46 36	Busango Swamp	
X 12	22 22 14	2N 31E; Lake Albert Area, Uganda	4.5
13	14 04 31	USCGS 23.8N 94.6E; Burma-India Border Region	4.4
14	12 41 17	USCGS 4.1S 102.4E; S. Sumatra	5.2
14	14 06 48	USCGS 43.4S 39.1E; Prince Edward Is. Region	5.3
14	15 29 15	USCGS 44.6N 81.5E; N. Sinkiang Province, China	5.0
16	14 26 23	USCGS 11.2S 165.7E; Santa Cruz Is.	5.3
16	16 02 23	USCGS 11.3S 165.6E; Santa Cruz Is.	5.1
17	01 07 54	USCGS 27.4S 63.3W; Santiago del Estero Province Argentina	5.5
17	01 17 19	USCGS 14.7S 167.2E; New Hebrides Is.	4.9
17	11 59 31	USCGS 38.3N 142.1E; Near E. Coast Honshu, Japan	5.9
X 17	12 07 23	4S 36E; Lake Manyara Area, Tanzania	3.7
17	14 24 59	Johannesburg Area	3.7
17	14 40(30)	N. of Lake Tanganyika?	4.0
X 17	18 53 55	20.1S 34.6E; S. of Beira, Mocambique	2.9
18	04 20 53	USCGS 48.9N 154.9E; Kurile Is.	5.4
18	05 34 33	USCGS 56.6N 120.8E; E. Russia	6.1
18	08 18 22	USCGS 52.5N 168.3W; Fox Is., Aleutians	5.7
18	21 49 26	USCGS 48.1N 102.9E; Mongolia	5.2
X 18	21 59 59	8.3S 27.0E; Lake Upemba Area, Congo	4.1
X 19	08 16 19	8.1S 30.1E; Marungu Mts., Congo	3.5
19	12 38 31	USCGS 11.8S 166.4E; Santa Cruz Is.	5.5
19	14 41 37	USCGS 52.4N 169.6W; Fox Is., Aleutians	5.2
20	01 57 23	USCGS 48.0N 102.9E; Mongolia	6.1
20	02 31 00	Port Herald Area, Malawi?	(2.4)
X 20	12 13 34	27.1S 26.8E; Klerksdorp Area	3.8
21	13 31 30	USCGS 3.3N 97.3E; N. Sumatra	5.3

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Date	G h	M m	T s	Epicentre, Remarks	Mag CGS
21	13	48	14	USCGS 30.7S 178.2W; Kermadec Is. Region	4.9
X 21	22	45	21	16.6S 28.2E; Kariba	2.9
22	07	34	24	Chileka Area	(2.4)
22	12	09	52	USCGS 8.8N 93.7E; Nicobar Is. Region	4.9
X 23	03	39	56	17.9S 34.4E; N. Manica Province Mocambique	2.6
X 23	13	28	46	8.3S 30.9E; S. Lake Tanganyika	3.9
23	15	22	26	Chileka Area	(2.4)
23	20	25	38	USCGS 19.9N 109.3W; Revilla Gigedo Is. Region	5.3
23	20	47	57	USCGS 1.6S 15.6W; N. of Ascension Is.	5.1
24	03	05	39	USCGS 41.4N 141.9E; Hokkaido, Japan Region	5.7
24	09	29	12	USCGS 0.6S 21.0W; Central Mid-Atlantic Ridge	4.9
24	14	45	16	USCGS 30.1N 104.1E; Szechwan Province, China	5.4
25	01	50	19	USCGS 36.6N 71.6E; Afghanistan-USSR Border	5.7
X 25	03	00	02	23.5S 39.4E; S. Mocambique Channel	5.0
26	02	11	21	USCGS 58.4S 25.6W; S. Sandwich Is. Region	5.0
26	16	10	34	USCGS 15.0N 92.8W; Mexico-Guatemala Border	5.3
28	00	55	29	E. Witwatersrand	3.6
X 28	01	39	22	14S 26E; Busango Swamp	2.9
28	13	52	58	USCGS 52.4N 169.5W; Fox Is., Aleutians	(6.5)
28	14	23	27	USCGS 52.4N 169.4W; Fox Is., Aleutians	5.2
28	14	30	24	USCGS 52.5N 169.4W; Fox Is., Aleutians	4.9
28	15	13	41	BHA 5.1°	(2.9)
28	16	31	21	USCGS 52.3N 169.3W; Fox Is., Aleutians	5.6
28	17	42	01	USCGS 52.4N 169.4W; Fox Is. Aleutians	5.6
28	17	47	29	Luapula Province, Congo?	2.9
28	22	28	01	USCGS 55.0N 160.2E; Kamchatka	5.1
29	07	12	05	USCGS 26.5N 55.3E; S. Iran	4.7
29	07	56	39	USCGS 26.2N 55.2E; S. Iran	5.2
29	22	43	18	Kariba	(2.1)
30	21	05	30	USCGS 26.2N 96.2E; Burma	5.5
30	22	02	36	Chileka Area	(2.6)
31	13	37	34	USCGS 2.8N 84.4W; Off Coast Central America	5.3
31	19	00	23	USCGS 26.5N 55.3E; S. Iran	5.2

LIST OF RECORDED PHASES: 01 to 01 JAN 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentre,	Remarks
			h	m	s	C	mm		
01	CLK	eP'	00	40	05		0.6	Distant	
	BUL	e			09		1.7		
		iP'			12				
	BHA	eP'			17		0.8		
		eSKP	43	41					
01	BUL	e	01	19	15		0.3	Distant	
	BHA	e			17		0.2		
01	CLK	eP	03	10	00		0.2	Distant	
		iPcP			21				
	BHA	iP			35	R	0.8		
		iPcP			56				
	BUL	eP			46		0.4		
		iPcP	11	04					
01	CLK	eP'	03	32	15		0.2	Distant	
	PUL	iP'			21	C	0.5		
	BHA	iP'			29	C	0.4		
01	CLK	eP	03	46	12		0.2	Distant	
	BHA	eP			47		0.6		
	BUL	eP			55		0.3		
01	BHA	ePn	04	01	51		7.0	13.7S 26.0E	Busango Swamp
		iPg			55				
		iSn	02	19					
		iSg			23				
	BUL	ePn			50		0.5		
		iSn	04	03					
		eSg			41				
	CLK	ePn	03	19			0.5		
		eSn	04	53					
		iSg	05	41					
01	BUL	eP'	04	23	08		0.3	Distant	
	CLK	eP'			17		0.2		
	BHA	eP'			17		0.3		
01	BUL	e	07	25	04		1.2	Distant	
		i			14				
		i			30				
	CLK	e			14		0.3		
		e	28	15					
	BHA	e	25	18			1.8		
		i			35				
01	BUL	e	08	04	57		0.3	Distant	
	BHA	e			05 03		0.2		
01	BHA	e	08	21	32		0.3	Distant	
		e			40				
	BUL	e			49		0.3		
		e			56				
01	BUL	iSg	10	40	22		0.5		
01	BUL	ePn	12	00	12		0.6	Witwatersrand	
		eSn			01 21				
		iSg			54				
01	BUL	e	13	37	32		0.3	Distant	
01	BUL	e	14	37	53		0.4	Distant	
	BHA	e			38 00		0.3		

LIST OF RECORDED PHASES: 01 to 04 JAN 1967 - 2

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre,	Remarks
01	BHA	eP'	17	23	11		0.3	Distant	
	BUL	eP'			24		0.3		
		eSKP		26	41				
01	BUL	e	17	51	20		0.5	Distant	
	BHA	e			46		0.3		
01	BUL	i	21	04	29	R	0.6	Distant	
	BHA	e			36		0.4		
01	BUL	eP'	22	18	01		0.5	Distant	
	BHA	eP'			08		0.3		
		eSKP		21	33				
01	BUL	e	22	21	57		0.3	Distant	
01	BUL	eSg	22	29	23		0.3		
02	BUL	e	00	15	19		0.3	Distant	
	BHA	e			34		0.2		
02	BUL	iP	07	06	14	C	1.2	Distant	
		i			29				
	BHA	eP			27		0.4		
		e			43				
	CLK	eP			50		0.2		
		e		07	06				
02	CLK	eP	08	28	23		0.4	Distant	
	BUL	eP			48		0.5		
02	BUL	iP	08	57	47	C	0.5	Distant	
02	BHA	iPn	09	48	59	R		9.7S 28.6E	S. of Lake Mweru, Congo.
	CLK	ePn		49	53		100.	Felt	MMV at Kawambwa.
		iSn		51	25				
	BUL	eiPn		50	14		52.		
		iSn		52	01				
		iL		53	09				
02	BHA	eP	13	58	56		0.4	Distant	
		i		59	02				
	BUL	eP			33		0.5		
02	BHA	e	20	40	09		0.3	Distant	
		e			16				
03	BHA	iP	02	09	34		0.7	3S 27E	Kivu Province, Congo
		eS		11	36				
		iL		12	53				
	CLK	iL		14	30		0.3		
03	BHA	e	06	12	09		0.4	Distant?	
03	BHA	ePn	18	18	32		1.0	8.6S 31.1E	W. Fipa Plateau, Tanzania
		eSn		19	37				
		iSg		20	13				
	CLK	eSn			14		0.7		
		iL		21	05				
03	BHA	eSg	19	17	46		0.6		
03	BHA	eSg	19	32	12		0.5		
04	BHA	iSg	03	46	02		0.6		
04	CLK	eiP	03	54	39	rC	0.7	Distant	
		i			49				
	BHA	eP		55	05		0.5		
		i			15				

LIST OF RECORDED PHASES: 04 to 08 JAN 1967 - 3

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre, Remarks
04	BHA	i	20	29	08	C	0.5	Distant
04	BHA	ei	22	58	19	rC	0.9	Distant
	CLK	ei			37	rC	0.6	
05	CLK	eP	00	27	27		3.1	Distant
		ipP			32			
		iSKS		38	04			
		iS			21			
		iPS		39	38			
	BHA	eP		27	40		2.8	
		ipP			46			
		iSKS		38	20			
		iS			50			
05	CLK	e	00	55	02		0.6	Distant
		i		56	33			
	BHA	e		55	13		1.0	
		i		56	39			
05	CLK	e	10	18	39		0.6	Distant
	BHA	e			55		0.6	
06	CLK	i	00	11	07	C	0.3	Distant
	BHA	e			20		0.3	
06	BHA	eP	00	22	48		0.3	Distant
	CLK	eP		23	32		0.3	
06	BHA	e	07	03	49		0.4	Distant?
		e			56			
06	BHA	eP	13	30	41		1.8	2S 33E
		iS		33	02			S. Lake Victoria
		iL		34	32			
	CLK	eP		30	49		1.5	
		iS		33	22			
		iL		34	50			
06	BHA	iPn	15	10	59		4.2	16.5S 28.5E
		eSn		11	23			Kariba
		iSg			27			
	CLK	iSg		13	30		0.5	
		iL			34			
06	BHA	ePn	22	22	31		0.9	8.4S 30.6E
		iSn		23	36			S. Lake Tanganyika
		iSg		24	18			
	CLK	ePn		22	59		0.4	
		eSn		24	26			
		iSg		25	21			
07	CLK	eP	00	38	36		0.6	Distant
	BHA	iP		39	07	C	0.9	
07	CLK	e	17	00	00		0.3	Distant
	BHA	e			14		0.8	
		i			26			
08	CLK	ePn	01	27(20)			0.9	
		eSn		28	12			
		iSg			38			

LIST OF RECORDED PHASES: 08 to 12 JAN 1967 - 4

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentre, Remarks
08	CLK	ePn	21	50	47		0.8	8.8S 32.9E S. Lake Rukwa
		iSn		52	05			
		iSg			40			
BHA	ePn	50	47			1.1		
	iSn	52	05					
	iSg			40				
08	BHA	eSg	23	31	38		0.4	
09	CLK	i	02	03	45	C	1.0	Distant
	BHA	e			59		0.6	
09	BHA	eP	22	42	08		0.5	
		eS		43	46			
		iL		44	46			
10	CLK	ePn	03	13	50		0.8	12.4S 33.5E Central Malawi
		eSn		14	27			
		iSg			42			
BHA	eSn	15	16			1.0		
	iSg			40				
11	CLK	ePn	01	40	15		0.5	11.2S 34.6E Central Lake Malawi
		eSn			58			
		iSg		41	16			
BHA	eSg	42	26			0.4		
	CLK	iP	06	06	36	C	0.6	Distant
i				41				
BHA	iP	07	06		C	0.6		
	i			11				
11	BHA	ePn	08	46	56		2.2	13.7S 25.9E Busango Swamp
		iPg		47	00			
		iSn			25			
CLK	iSg			31				
	eSg	50	46			0.2		
11	CLK	iP	11	29	42	C	1.7	Distant
		iS		36	58			
BHA	iP	29	47		C	1.4		
	CLK	e	11	42	04		0.3	Distant
e				24		0.5		
i				33				
11	BHA	eL	16	38	20		0.4	
	CLK	iL		39	13		0.3	
12	BHA	iPn	01	56	53		0.9	7.9S 30.0E S. Marungu Mts., Congo
		iSn		58	03			
		iSg			44			
CLK	iL	02	00	00		0.3		
12	BHA	iPn	05	21	00		3.0	16.6S 28.3E Kariba
		iPg			02			
		iSn			25			
CLK	iSg			30				
	ePn			57		0.4		
	eSn	23	03					
12	CLK	iSg			39			
		ePn	08	26	28		0.9	11.2S 33.4E Central Malawi
		eSn		27	21			
BHA	iSg			39				
	eSn			45		1.8		
	iL	28	19					



LIST OF RECORDED PHASES: 12 to 17 JAN 1967 - 5

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre, Remarks
12	BHA	ePn eSn iSg	10	47	10 34 38		1.9	Busango Swamp
12	BHA	eP eS iL	22	26	06 28 57 30 50		2.1	2N 31E Lake Albert area, Uganda
	CLK	eP iS iL	26	22	29 29 31 41		1.1	
13	BHA	i	14	16	05	C	3.2	Distant
14	CLK	eP e	12	52	11 25		0.3	Distant
	BHA	iP i		47	00	C	0.8	
			53	00				
14	CLK	iP i	14	12	35 13 15	C	0.8	Distant
	BHA	iP	12	57		C	3.0	
14	CLK	i	15	40	44	C	0.4	Distant
	BHA	i	41	00		C	0.5	
15	BHA	eL	02	43	21		0.3	
	CLK	eL			31		0.2	
15	BHA	i	22	11	40	C	0.7	Distant
16	CLK	e	14	45	30		0.3	Distant
	BHA	e			38		0.3	
16	CLK	e	16	20	58		0.2	Distant
	BHA	e			21 35		0.3	
17	BHA	iP iPP	01	19	31 21 37	R	8.3	Distant
	CLK	iP iPP iS iSKS			19 55 22 03 28 13 30 08	R	4.4	
17	CLK	eP'	01	36	08		0.4	Distant
	BHA	iP' iPP iSKP			20 37 34 39 35	C	1.1	
17	CLK	eSg	02	17	31		0.3	
	BHA	eSg			18 38		0.3	
17	CLK	ePn eSn iSg	12	11	56 13 04 37		0.5	9S 34E N. of Lake Malawi
	BHA	eSg iL			14 00 06		0.6	
17	BHA	e i	12	18	14 19 23		0.5	Distant?
	CLK	e i			18 03 53		0.7	
17	BHA	iP eS iL	14	27	45 29 51 31 04		0.4	Witwatersrand
	CLK	eP eSg iL			27 54 31 17		0.6	

LIST OF RECORDED PHASES: 17 to 20 JAN 1967 - 6

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentre, Remarks	
17	BHA	ePn	14	43	(00)		1.2	4S 29E N. of Lake Tanganyika	
		eSn		44	54				
		eSg		45	55				
		iL		46	01				
		CLK	iL		47	31			0.8
17	CLK	ePn	18	55	02		0.7	20.1S 34.6E S. of Beira, Mocambique	
		iSn			52				
		iSg		56	12				
		BHA	ePn		55	53			0.5
		eSn		57	21				
	iSg		58	05					
17	BHA	eP	21	58	26		0.6	Distant	
	CLK	eP		59	19		0.3		
18	CLK	eP'	04	39	44		0.6	Distant	
	BHA	eiP'			49	cR	0.9		
18	BHA	e	05	51	50		0.3	Distant	
	CLK	e		52	23		0.3		
18	BHA	eP'	08	37	43		0.8	Distant	
	CLK	eP'			48		0.5		
18	BHA	iPn	22	01	29		6.0		
		iSn		02	40				
		iSg		03	14				
		CLK	iPn		02	30			1.6
		eSn		04	24				
	iSg		05	32					
18	CLK	e	22	02	12		0.4	Distant?	
19	BHA	iPn	08	17	53		2.1	8.1S 30.1E Marungu Mts., Congo	
		iSn		19	00				
		iL			42				
		CLK	ePn		18	28			0.7
		iSn		20	00				
	eL			56					
19	CLK	eP	12	57	15		0.8	Distant	
		ePP		59	38				
		BHA	iP		57	27	R		4.2
	iPP		59	47					
19	BHA	eP'	15	01	01		0.2	Distant	
		eSKP		04	34				
		CLK	eP'		01	01			0.2
	eSKP		04	35					
19	BHA	e	17	04	28		0.3	Distant	
	CLK	e			45		0.7		
20	CLK	eP	02	10	09		2.6	Distant	
		ipP			12				
		iS		20	56				
		BHA	eP			22			2.5
		ipP				26			
20	CLK	iP	02	31	22		5.7		
		iS			36				
20	BHA	i(L)	12	20	05		0.6		
	CLK	e(L)			28		0.6		

LIST OF RECORDED PHASES: 21 to 26 JAN 1967 - 7

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre	Remarks
21	BHA	i	13	42	36	R	1.1		Distant
21	CLK	e	14	07	06		0.3		Distant
	BHA	e			14		0.8		
21	BHA	ePn	22	45	57		5.	16.6S 28.2E	Kariba
		iPg		46	00				
		iSn			21				
		iSg			26				
	CLK	ePn	46	54			0.6		
		eSn	48	04					
		iSg			38				
22	CLK	iP	07	34	31	C	11.		Near Chileka
		iS			36				
22	CLK	eP	12	20	16		0.4		Distant
		e			20				
	BHA	iP			54	C	1.7		
		i			59				
23	CLK	iPn	03	40	30		2.5	17.9S 34.4E	N. Manica Province, Mocambique
		iSn			55				
		iSg		41	00				
	BHA	iSg		43	18		0.3		
23	BHA	iPn	13	30	21		5.3	8.3S 30.9E	S. Lake Tanganyika
		iSn		31	31				
		iSg		32	06				
	CLK	iSn			13		1.9		
		iSg		33	00				
23	CLK	iP	15	22	35		10.		Near Chileka
		iS			41				
23	BHA	eP	20	45	06		0.2		Distant
23	BHA	eP	20	56	14		0.3		Distant
	CLK	eP		57	03		0.2		
24	CLK	eP'	03	24	10		0.3		Distant
		e			58				
	BHA	eP'			18		0.3		
		e		25	17				
24	BHA	iP	09	38	14	C	1.5		Distant
	CLK	eP			57		1.3		
		iPP		41	17				
24	CLK	eP	14	57	28		0.4		Distant
	BHA	eP			52		0.6		
25	CLK	iP	02	00	15	C	8.4		Distant
		i		01	19				
		iS		08	21				
		iSKS		10	11				
	BHA	iP		00	32	C	9.7		
		i		01	50				
		iS		08	52				
25	CLK	iP	03	02	12	C	45.	23.5S 39.4E	S. Mocambique Channel
		iS		03	45				
	BHA	eP			17	C	6.3		
		iS		05	47				
26	BHA	e	02	21	21		0.3		Distant?
	CLK	e			36		0.6		
		e		22	42				

LIST OF RECORDED PHASES: 26 to 29 JAN 1967 - 8

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre,	Remarks
26	BHA	e	16	29	27		1.1	Distant	
		i			30				
	CLK	e			39		0.9		
		i			43				
28	BHA	eSg	01	01	37		0.4		
	CLK	eSg			46		0.4		
28	BHA	ePn	01	39	59		4.3	14S 26E	Busango Swamp
		iPg		40	03				
		eSn			27				
		iSg			31				
	CLK	eSg		43	47		0.3		
28	BHA	eP	14	12	15		1.6	Distant	
		i			24				
	CLK	eP			20		0.7		
		i			29				
28	BHA	eP	14	15	50		0.9	Distant	
		i			58				
	CLK	eP			58		0.8		
		e		16	07				
28	BHA	e	14	42	45		0.3	Distant	
		e			50				
	CLK	e			56		0.2		
28	BHA	e	14	49	47		0.2	Distant	
28	BHA	ePn	15	14	56		1.1		
		eSn		15	51				
		iSg		16	15				
		iL			19				
28	BHA	eP'	16	50	47		0.4	Distant	
		eSKP		54	26				
	CLK	eP'		50	51		0.3		
28	BHA	ePn	17	48	37		0.9	10S 27E	Iuapula Province, Congo
		eSn		49	23				
		iSg			48				
	CLK	iSg		52	06		0.3		
28	BHA	eP'	18	01	29		0.8	Distant	
		eSKP		05	05				
	CLK	eP'		01	29		0.6		
		eSKP		05	05				
28	BHA	ei	22	46	50	rC	0.7	Distant	
29	CLK	e	07	20	29		0.9	Distant	
		i		21	33				
		i		22	00				
	BHA	e		20	45		0.4		
		e		21	50				
		e		22	17				
		e			31				
29	CLK	e	08	05	01		1.0	Distant	
	BHA	e			19		0.7		
29	CLK	e	08	12(00)			0.5	Distant	
	BHA	e		12(00)			0.6		
29	BHA	ePn	22	44	04		0.7	Kariba?	
		iSn			37				
		iSg			48				

LIST OF RECORDED PHASES: 30 to 31 JAN 1967 - 9

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentre, Remarks
30	CLK	iP	21	16	54	C	0.8	Distant
	BHA	iP		17	21	C	1.8	
30	CLK	iP	22	02	49	C	15.	Near Chileka
		iS			58			
31	BHA	e	02	24	14		0.5	Distant
		e			33			
31	BHA	iL	11	48	04		0.5	
	CLK	iL			57		0.3	
31	BHA	e	13	56	09		0.3	Distant
		i			17			
	CLK	e			20		0.2	
31	CLK	iP	19	08	50	C	1.0	Distant
	BHA	eP		09	06		0.3	
31	CLK	iP	09	12	46	C	0.5	Distant
	BHA	eP		13	03		0.2	

Epi Pond AAH. 691128  
 V WJ

February

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

The following stations contribute records for analysis and publication in this Bulletin:

**BROKEN HILL (BHA):**  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
 Litho. foundation: Dolomite and shales of the Middle Katanga System.  
 Authority: Zambia Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

**BULAWAYO (BUL):**  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
 Litho. foundation: Hornblend schists of the Bulawayan System.  
 Instruments: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
 WWSS Station: SP magnification 100,000.  
 LP magnification 1,500.

**CHILEKA (CLK):**  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
 Litho. foundation: Charnockitic granulites of the Basement Complex.  
 Authority: Malawi Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

**Analysis Centre:** Goetz Observatory, Meteorological Service,  
 P. O. Box 562, Bulawayo, Rhodesia.

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BUL operating as of the 13th.

Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
01	01	07	19	USCGS 26.7N 55.3E; S. Iran	5.0
01	06	03	42	Busango Swamp	(2.1)
01	15	19	57	USCGS 4.8S 103.2E; S. Sumatra	5.3
01	23	46	09	USCGS 22.0S 66.7W; Juyjuy Province, Argentina	4.7
02	06	25	50	USCGS 57.9S 25.7W; S. Sandwich Is. region	5.8
02	07	37	55	USCGS 39.7N 75.5E; S. Sinkiang Province, China	5.3
02	16	09	32	Klerksdorp area, Transvaal	3.5
02	16	24	39	USCGS 41.6N 139.7E; Hokkaido, Japan region	5.4
02	17	43	42	S. Mocambique Channel?	3.9
02	18	18	17	USCGS 4.3S 153.7E; New Ireland region	5.0
X 03	11	20	45	14S 26E; Busango Swamp	2.6
03	12	30	53	USCGS 5.6S 110.5E; Java Sea	5.1
03	12	48	09	USCGS 5.6S 110.5E; Java Sea	5.4
03	23	25	48	USCGS 21.5S 67.1W; Chile-Bolivia Border region	5.1
X 04	06	28	40	7.4S 38.1E; Uluguru Mts., Tanzania	3.8
04	18	25	28	E. Copperbelt, Zambia?	2.6
05	00	47	36	Beira area, Mocambique?	2.8
X 05	06	51	21	8.4S 30.5E; S. Lake Tanganyika	3.7
X 05	10	21	01	18.0S 23.6E; Chobe swamp, Caprivi Strip	3.9
05	18	55	45	USCGS 5.4S 11.4W; Ascension Is. region	5.2
X 07	06	15	56	8.5S 32.6E; S. Lake Rukwa	3.8
X 07	06	20	19	0.3S 30.8E; Ruwenzori area	4.6
07	08	28	58	USCGS 13.9N 144.8E; Mariana Is.	5.4
07	14	53	14	USCGS 56.7N 157.2W; Alaska Peninsula	5.6
07	23	15	07	N. Manica Province, Mocambique	3.2
08	17	17	46	USCGS 23.2N 93.9E; Burma-India Border region	5.1
X 09	03	23	26	21.3S 33.4E; S. Manica Province, Mocambique	3.9
09	14	08	19	USCGS 40.0N 20.3E; Greece-Albania Border region	5.6
09	15	24	47	USCGS 2.9N 74.9W; Colombia	6.3
10	22	01(40)		Busango Swamp?	(3.7)
X 10	22	53	57	14S 26E; Busango Swamp	(4.1)
11	00	55	09	CLK 0 4°	(2.1)
12	09	41	22	CLK 0.6°	(2.3)
12	11	50	50	USCGS 42.6S 83 8E; Mid-Indian Rise	5.4
X 12	15	07	45	28.7S 26.3E; O.F.S. Goldfields	(4.1)
13	15	29	05	USCGS 5.1S 153.1E; New Ireland region	5.0
13	21	21	45	USCGS 2.2S 121.5E; Celebes	4.7
13	22	43	23	W. Witwatersrand	3.0
13	23	14	20	USCGS 52.7N 34.1W; N. Atlantic Ocean	(6.6)

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
14	01	36	05	USCGS 13.7N 96.5E; Andaman Is. region	(6.8)
X 14	02	06	36	0.7N 30.4E; Fort Portal area, Uganda	4.0
14	05	02	38	USCGS 13.3S 171.3E; New Hebrides Is. region	5.6
14	12	37(10)		Witwatersrand	2.6
X 14	13	24	15	26.7S 27.4E; Potchefstroom Area	3.5
X 14	17	40	53	16.9S 35.3E; Port Herald area, Malawi Aftershocks are given in the list of recorded phases	(4.7)
X 14	19	10	51	4.8S 27.5E; Lualaba Valley area, Congo	3.8
15	01	47	27	USCGS 34.5N 47.6E; W. Iran	5.0
15	05	40	14	USCGS 17.1S 66.6E; Mascarene Is. region	5.0
15	05	57	25	USCGS 20.4N 94.1E; Burma	5.5
15	06	40(30)		Witwatersrand	2.8
15	12	02	33	Witwatersrand	3.0
X 15	13	00	04	7.1S 29.6E; Marungu Mts., Congo	4.0
15	15	07	00	USCGS 11.9S 165.6E; Santa Cruz Is.	4.3
15	16	11	12	USCGS 9.0S 71.3W; Peru-Brazil Border region	6.2
X 15	16	13(20)		9.0S 71.3W; Peru-Brazil Boreder region	6.
X 16	00	25	19	5S 36E; Kondoia area, Tanzania	4.1
X 16	11	04	53	16.8S 35.8E; Port Herald area, Malawi	3.1
X 16	15	21	29	7.2S 27.7E; Luvua Valley, Congo	3.7
16	17	52	07	USCGS 7.5S 156.1E; Solomon Is.	5.0
17	00	37	43	USCGS 4.4N 125.6E; Talaud Is.	5.5
X 17	03	12	22	26.3S 28.6E; E. Witwatersrand	2.9
17	10	10	51	USCGS 23.7S 175.2W; Tonga Is. region	6.4
X 17	10	14	47	23.7S 175.2W; Tonga Is. region	6.
X 17	19	37	40	17.1S 35.4E; Port Herald area, Malawi	3.0
17	21	52	13	USCGS 0.3S 20.3W; Central Mid-Atlantic Ridge	4.7
18	02	39	19	USCGS 5.9S 153.2E; New Ireland region	5.4
18	11	33	31	USCGS 32.4S 71.4W; Near Coast N. Chile	4.3
X 18	12	23	27	0.6N 29.8E; Ruwenzori area Congo	3.9
X 18	12	58	04	26.2S 28.7E; E. Witwatersrand	3.1
X 19	09	18	39	12.5S 30.0E; W. Muchinga Mts., Zambia	3.1
19	12	28	10	USCGS 19.1N 145.0E; Mariana Is.	4.7
X 19	15	34	42	26.8S 26.5E; Klerksdorp area, Transvaal	3.3
19	21	29	42	USCGS 52.4N 169.5W; Fox Is., Aleutians	4.6
19	22	14	35	USCGS 9.2S 113.1E; S. of Java	6.2
19	23	28	28	USCGS 0.0S 124.2E; Molucca Sea	5.7
20	15	18	40	USCGS 33.7N 75.3E; E. Kashmir	5.7
20	16	33	49	USCGS 5.2S 68.7E; Chagos Archipelago region	4.8
X 20	17	18	20	26.4S 27.3E; Potchefstroom area	2.7
X 20	18	42	23	26.4S 27.3E; Potchefstroom area	2.7



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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
20	22	41	45	USCGS 11.8S 166.3E; Santa Cruz Is.	4.7
20	23	03	37	USCGS 11.8S 166.3E; Santa Cruz Is.	(4.3)
21	12	37	44	USCGS 33.6N 75.3E; F. Kashmir	5.1
21	17	20	58	USCGS 56.6S 26.0W; S. Sandwich Is region	4.7
X 22	02	28(00)		11S 34E; N. Malawi	2.7
22	13	54	35	USCGS 11.8S 166.4E; Santa Cruz Is.	4.8
X 22	14	54	58	26.5S 27.0E. Potchefstroom Area	3.6
22	18	26	47	USCGS 19.5S 169.0E. New Hebrides Is.	5.6
22	23	27	58	USCGS 58.1S 25.7W. S. Sandwich Is. region	5.0
23	13	22(00)		Witwatersrand	2.6
23	18	49(30)		Witwatersrand	2.5
X 23	22	39	33	45.4S 40.6E; Prince Edward Is. region	4.7
X 24	14	23	29	0.7N 29.8E; Ruwenzori area, Congo	4.1
X 24	16	44	58	0.7N 29.8E; Ruwenzori area, Congo	3.9
24	01	31	14	CLK 0.4°	(2.1)
25	07	22	46	E. Witwatersrand	3.3
X 25	10	58	48	26.4S 27.3E; Potchefstroom Area	2.9
25	11	20	47	USCGS 0S 123.9E; N. Celebes	5.8
25	11	38	46	USCGS 0.1S 123.9E; N. Celebes	5.7
25	18	29	45	Port Herald area, Malawi	2.6
X 25	20	22	44	13.9S 25.7E; Busango Swamp	3.3
X 25	23	56	01	5S 35E; Kondoia area, Tanzania	3.9
26	03	57	58	USCGS 49.8N 78.1E; F. Kazakh, SSR	6.0
26	06	44	57	W. Witwatersrand	2.6
26	12	09	20	W. Witwatersrand	2.9
26	13	33	43	USCGS 11.6S 166.2E; Santa Cruz Is.	4.6
26	15	06	26	CLK 1.6°	(2.2)
26	17	19	16	USCGS 6.6S 154.9E; Solomon Is.	4.8
26	18	34		Witwatersrand	
27	02	29	35	USCGS 38.3S 74.7W; Off Coast Central Chile	4.9
27	15	50	58	USCGS 6.3S 154.8E; Solomon Is.	4.9
X 28	07	23	54	19.6S 33.1E; Central Manica Province, Mocambique	2.9
28	09	37	18	USCGS 32.7N 141.7E; S. of Honshu, Japan	5.5
28	14	21	54	USCGS 37.5N 21.3E; S. Greece	4.6
X 28	16	29	05	26.2S 27.9E; Witwatersrand	2.9

LIST OF RECORDED PHASES: 01 to 03 FEB 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentre, Remarks
			h	m	s	C	mm	
01	CLK	iP	01	15	45	C	0.8	Distant
	BHA	iP		16	01	C	0.3	
01	BHA	iPg iSg	06	04	23 51		1.2	Busango Swamp
01	CLK	eP e	15	30	52 31 08		0.3	Distant
	BHA	eP i			30 47		0.6	
01	CLK	iP	22	08	30	C	0.6	Distant
	BHA	iP			41	C	0.3	
01	BHA	eP	23	58	47		1.3	Distant
	CLK	eP		59	11		0.6	
02	BHA	iP ipP iS eP'P'	06	35	42 50 43 46 07 05 22	C	3.4	Distant
	CLK	eP epP eP'P'	06	35	53 59 07 05 10		0.8	
02	CLK	e	07	48	44		0.4	Distant
	BHA	i i		49	01 09	R	0.7	
02	BHA	iL	16	15	58		0.4	
	CLK	eL		16	23		0.3	
02	CLK	i	16	43	32	C	0.5	Distant
	BHA	e i i			52 59 46 20		0.5	
02	CLK	iPn i iSn iSg	17	45	48 57 47 21 48 07		1.5	23S 40E S. Mocambique Channel
	BHA	iPn iSn iSg		47	01 49 33 51 01	C	0.5	
02	CLK	e	18	36	33		0.2	Distant
	BHA	ei			46	rC	1.4	
03	BHA	iPn iSn iSg	11	21	24 54 22 00	C	2.0	14S 26E Busango Swamp
	CLK	iSg		25	19		0.2	
03	CLK	iP	12	41	35	R	0.6	Distant
	BHA	iP		42	10	R	1.4	
03	CLK	eP ipP i	12	58	52 54 59 58		2.7	Distant
	BHA	eS iP ipP i iS	13	07	45 12 59 56 58 13 00 33 08 51	R	8.7	

LIST OF RECORDED PHASES: 03 to 07 FEB 1967 - 2

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre, Remarks
03	BHA	iP	23	38	28	C	0.4	Distant
	CLK	eP			52		0.3	
04	CLK	ePn	06	30	46	C	1.4	7.4S 38.1E Uluguru Mts., Tanzania.
		eSn		32	20			
		iSg		33	08			
	BHA	iL			14			
		eSn			28		0.7	
	iSg		34	39				
04	BHA	iPn	18	25	58	C	3.0	12.9S 29.3E E. Copperbelt, Zambia.
		iPg		26	01			
		iSn			19			
	CLK	iSg			22			
		iSn		27	55		0.5	
	iSg		28	34				
05	CLK	ePn	00	48	37	C	0.7	19.9S 34.4E Beira Area
		ePg			49			
		iSn		49	22			
	BHA	iSg			40			
		eSn		50	55		0.4	
	eSg		51	33				
05	BHA	ePn	06	52	53	C	4.2	8.4S 30.5E S. Lake Tanganyika
		iSn		54	00			
		iL			38			
	CLK	iPn		53	21		1.1	
		iSg		55	35			
05	BHA	ePn	10	22	27	C	6.	9.3S 25.6E Lualaba Valley, Congo
		iPg			49			
		iSn		23	27			
	CLK	iSg		24	00			
		ePn		23	38		1.2	
	iSn		25	32				
	iL		26	46				
05	BHA	iP	19	03	23	R	0.5	Distant
		i			29			
	CLK	eP		04	13		0.5	
	i			20				
07	BHA	ePn	06	17	41	R	3.3	8.5S 32.6E S. Lake Rukwa
		iSn		18	58			
		iSg		19	36			
	CLK	iPn		17	44		1.4	
		eSn		19	01			
	eSg			44				
	iL			51				
07	BHA	eP	06	23	(40)	C	3.0	0S 31E Ruwenzori area
		eS		26	09			
		iL		27	46			
	CLK	iP		24	01		1.9	
		iS		26	51			
	iL		28	39				
07	CLK	e	08	47	23	C	0.2	Distant
	BHA	e			32		0.4	

LIST OF RECORDED PHASES: 07 to 12 FEB 1967 - 3

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre, Remarks
CORRECTION TO PAGE 2: Amend provisional epicentre as follows:								
05	BHA	ePn	10	22	27		6.	18.0S 23.6E
		iPg			49			Chobe swamp, Caprivi Strip
		iSn		23	27			
		etc.						
-----								
07	BHA	e	15	12	20		0.7	Distant
		i			33			
	CLK	e			22		0.6	
		i			35			
		i			52			
07	CLK	ePn	23	15	56		5.2	N Manica Province, Mocambique?
		iSn		16	30			
		iSg			43			
	BHA	ePn			53		1.1	
		iSn		18	12			
		iSg			51			
08	BHA	e	15	45	02		0.7	Distant
		i			18			
	CLK	e			(20)		0.3	
08	CLK	eiP	17	28	52	rC	1.6	Distant
		i		30	01			
		i			12			
	BHA	iP		29	20	R	0.6	
		e		31	40			
		i		32	20			
09	CLK	ePn	03	24	55		2.3	21.3S 33.4E
		iSn		25	59			S Manica Province, Mocambique
		iSg		26	31			
	BHA	ePn		25	26		3.7	
		iSn		26	55			
		iSg		27	41			
09	BHA	iP	14	17	51	C	0.5	Distant
	CLK	iP		18	07	C	0.8	
09	BHA	eP	15	38	45		0.7	Distant
		eP'		43	(10)			
		ePKKP		54	56			
	CLK	eP'		43	19		0.7	
		ipP'			50			
		iPKKP		53	44			
10	CLK	ePn	22	03	45		1.1	8.9° from CLK
		eSn		05	19			Busango Swamp?
		iSg		06	08			
		iL			12			
10	CLK	ePn	22	56	05		2.6	14S 26E
		eSn		57	35			Busango Swamp
		iSg		58	29			
		iL			33			
11	CLK	iPg	00	55	16		7.	
		iSg			21			
11	CLK	iP	22	59	52	C	0.7	Distant
12	CLK	iPg	09	41	33	C	8.	
		iSg			41			

LIST OF RECORDED Phases: 12 to 14 FEB 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentre, Remarks
			h	m	s	C	mm	
12	CLK	i	11	05	56	C	0.6	Distant?
12	CLK	e	11	59	40		0.3	Distant
12	CLK	eP	15	11	15		0.7	28.7S 26.3E
		iS		13	57			O F S Goldfields
		eL		15	47			
13	BUL	e	15	47	51		0.3	Distant
	BHA	e			55		0.2	
13	BUL	e	21	10	22		0.3	Distant
	BHA	e			38		0.1	
13	BUL	e	21	34	52		0.4	Distant
	BHA	e			53		0.1	
13	BUL	iSg	22	46	31		0.8	Witwatersrand
13	BHA	eP	23	27	01		2.1	N Atlantic Ocean
		ipP			07			
		eS		37	39			
	CLK	eP		27	24		1.0	
		ipP			30			
		ePP		31	08			
		eS		38	28			
	BUL	eP		27	23		1.2	
		ipP			29			
		iPP		31	05			
		eS		38	23			
14	CLK	eP	01	47	05		0.9	Burma
	BHA	eP			33		4.9	
		ipP			43			
	BUL	iP			45	R	4.8	
		ipP			59			
		iPP		50	28			
14	CLK	eP	01	50	24		0.4	Distant
	BHA	eP			56		1.6	
	BUL	eP		51	05		0.9	
14	BHA	i	02	02	41	C	0.4	Distant
		i			44			Double shock?
		i		03	07			
		i			11			
	BUL	e		02	51		0.4	
14	BHA	eP	02	10	10		0.7	0.6N 30.6E
		iL		14	33			Fort Portal, Uganda
	CLK	eP		10	31		0.4	
		iL		15	27			
	BUL	eL		17	27		0.3	
14	CLK	eP'	05	20	38		1.4	Distant
		iSKP		23	01			
	BUL	iP'		20	41	C	5.3	
		epP'		23	03			
		iSKP			09			
	BHA	iP'		20	48	C	4.5	
		iSKP		23	21			
14	BUL	e(Sg)	12	40	16		0.3	Witwatersrand
14	BUL	ePn	13	25	51		1.4	26.7S 27.4E
		eSn		27	01			Potchefstroom area
		iSg			33			

LIST OF RECORDED PHASES: 14 to 15 FEB 1967 - 5

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre, Remarks
14	CLK	iPn	17	41	17	C		16.9S 35.3 E Mag 4.7
		iSg			(35)			Port Herald area, Malawi
	BUL	iPn		42	35		22.	Felt MM VI at Mimosa
		iSn		43	52			
		iSg		44	26			

This event was followed by 17 aftershocks. The times of origin of shocks of Mag. 2 or greater are listed below:

14			17	50	44		Mag 2.6	
14			17	51	15		2.1	
14			19	49	31		2.1	
14			20	09	21		2.5	
14			22	46	11		3.4	
15			01	45	31		2.0	
15			05	23	21		3.0	
15			05	32	15		2.1	
15			11	49	53		2.2	
14	CLK	eP	19	13	54		0.5	4S 27E
		iL		17	44			Lualaba valley, Congo
	BUL	eP		14	24		0.4	
		iL		18	52			
15	CLK	e	01	56	34		0.2	Distant
	BUL	e		57	15		0.4	
15	BUL	e	05	47	14		0.7	Distant
	CLK	e			37		0.2	
15	CLK	iP	06	08	27	R	0.8	Distant
		i			43			
	BUL	iP		09	11	R	2.6	
		i			28			
15	BUL	i	06	43	41		0.6	Witwatersrand?
15	BUL	eSg	12	05	43		0.3	Witwatersrand
15	BUL	i	13	00	02	C	0.7	Distant
15	BHA	ePn	13	01	51		4.2	7.1S 29.6E
		iSn		03	08			Marungu Mts, Congo
		iSg			49			
	CLK	iPn		02	26		1.3	
		eSn		04	12			
		iL		05	15			
	BUL	ePn		03	05		1.1	
		eSn		05	17			
		iL		06	48			
15	BUL	e	15	26	02		0.3	Distant
15	BUL	iP	16	23	37	R	8.6	Off coast of N Chile?
		ipP			40			
		ePP		27	32			
		iSKS		34	07			
		iPKKP		40	23			
		i		50	40			
	BHA	eP		23	42		2.1	
		ipP			46			
		iPP		27	47			
		iSKS		34	22			
		iPKKP		40	20			
		i		50	36			
	CLK	eP		24	12		0.9	
		ipP			16			
		iPP		28	30			
		iPKKP		40	05			

LIST OF RECORDED PHASES: 15 to 17 FEB 1967 - 6

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre, Remarks	
15	BUL	eP	16	25	48		4.3	Off coast of N Chile?	
		ipP			53				
		ePP		29	31				
	BHA	ipKKP		43	05				
		epP		25	56		0.8		
		ipWTP		42	39				
15	BHA	e	17	22	55		0.3	Distant	
	BUL	e			59		0.3		
15	BUL	eSg	20	27	37		0.3		
16	CLK	eL	00	26	45		0.3		
	BHA	eL		27	21		0.3		
	BUL	eL		30	(00)		0.2		
16	CLK	ePn	00	27	54		0.9	3.9S 35.6E Mt Hanang area	
		eSn		29	48				
		iSg		30	55				
		iL		31	04				
	BHA	iSg			30		1.8		
		iL			35				
	BUL	iL		34	08		0.5		
16	BUL	eSg	10	05	50		0.2		
16	CLK	ipg	11	05	14	C	11.	16.8S 35.8E Port Herald area	
		iSg			29				
		BUL	ePn		06	43			1.2
			eSn		08	05			
			iSg		47				
			iL		54				
	BHA	iSg			44		0.4		
	16	BHA	ePn	15	23	05			2.3
iSn				24	14				
iSg					51				
CLK		ipn			06		0.7		
		eSn		26	02				
BUL		iSg		27	07		0.5		
		ePn		24	28				
		eSn		26	40				
		iSg		27	54				
16	BUL	e	18	10	55		0.3	Distant	
17	CLK	eP'	00	50	54		0.2	Distant	
	BUL	eP'		51	12		0.4		
		eSKP		54	58				
	BHA	eP'		51	12		0.2		
17	CLK	eP	01	31	07		0.1	Distant	
	BUL	eP			17		0.5		
	BHA	eP			32		0.2		
17	BUL	iSg	03	15	29		0.6	26.3S 28.6E Brakpan area	
17	BUL	ip'	10	30	03	C	3.6	Distant	
		ipp			32	17			
		iSKP			33	30			
	CLK	eP'		30	04		0.7		
		ePP		32	20				
		iSKP		33	34				
	BHA	eP'		30	15		3.2		
		ePP		32	47				
		iSKP		33	48				

LIST OF RECORDED PHASES: 17 to 19 FEB 1967 - 7

Date	Stn	Phase	G	M	T	R	DA	Epicentre, Remarks
			h	m	s	C	mm	
17	BUL	eP'	10	33	59		3.0	Distant
	CLK	eP'		34	01		0.5	
	BHA	eP'			11		1.7	
17	BHA	e	16	10	05		0.2	Distant
	BUL	e			21		0.3	
17	CLK	iPn	19	38	04		18.	Port Herald area
		iSg			22			
	BUL	iSg		41	15		0.6	
	BHA	iSg			19		0.6	
17	BHA	eP	22	01	07		0.2	Distant
	BUL	eP			14		0.3	
	CLK	eP			51		0.2	
18	CLK	eP'	02	57	58		0.2	Distant
		e		58	13			
	BUL	iP'			07	R	1.5	
		i			21			
	BHA	iP'			12	R	1.0	
		i		25				
		i		59	39			
18	CLK	eSg	09	49	17		0.3	
	BUL	iSg		50	34		0.3	
18	BUL	e	11	46	13		0.3	Distant
	BHA	e			29		0.3	
18	BHA	iL	12	31	20		0.5	Ruwenzori, Congo
	CLK	eL		32	19		0.4	
	BUL	eL		34	(20)		0.2	
18	BUL	ePn	12	59	33		1.0	E Witwatersrand
		eSn	13	00	41			
		iSg		01	13			
	CLK	eSg		04	16		0.2	
19	BHA	ePn	09	19	17		7.	W Muchinga Mts.
		iP*			20			
		eSn			44			
		iSg			51			
	CLK	ePn		20	03		1.3	
		iSn		21	03			
		iSg			32			
	BUL	eSn			53		0.5	
		eSg		22	34			
19	BHA	e	12	46	17		0.3	Distant
	BUL	e			18		0.9	
19	BUL	ePn	15	36	24		0.7	Klerksdorp area
		eSn		37	35			
		iSg		38	13			
	CLK	eSg		41	37		0.2	
19	BUL	i	21	20	31	R	1.0	Distant
	BHA	e			44		0.3	
19	BUL	i	21	49	15	C	0.4	Distant



LIST OF RECORDED PHASES: 19 to 22 FEB 1967 - 8

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentre,	Remarks		
19	CLK	iP	22	26	17	R	3.4	Java			
		iPcP			29						
		ipP			41						
	BUL	iS	35	58							
		iP	26	47		R	10.2				
		iPcP	27	00							
	BHA	ipP			13						
		eS	36	52							
		iP	26	51		R	3.8				
		iPcP	27	00							
19	CLK	ipP			16			Java?			
		iS	52	03		C	1.3				
	BUL	iP	41	42		C	3.0				
		iS	52	55							
	BHA	iP	41	44		C	1.9				
		iS	52	56							
	20	CLK	iP	15	29	01	C		0.8	Distant	
		BHA	iP			23	C		4.1		
		BUL	iP			48	C		2.4		
	20	BHA	eP'	16	41	24			0.1	Distant	
e			43	30							
BUL		eP'	41	34			0.4				
		e	43	33							
CLK		eP'	41	37			0.4				
		e	43	23							
20	BUL	eSg	17	21	34		0.4	Potchefstroom area			
20	BUL	eSg	18	45	38		0.3	Potchefstroom area			
20	CLK	eP'	23	00	45		0.2	Distant			
		eSIP	04	06							
	BUL	iP'	00	51		R	1.1				
	BHA	eP'		58			0.8				
20	BUL	i	23	22	43	C	0.5	Distant			
	BHA	e			49		0.3				
21	CLK	eP	12	48	07		0.3	Distant			
	BHA	eP			27		0.7				
	BUL	eP			56		0.6				
21	BUL	iP	17	30	21	C	1.2	Distant			
	BHA	eiP			55	rC	0.6				
	CLK	eP	31	11			0.4				
21	CLK	eP	18	55	07		0.2	Distant			
	BUL	eP			33		0.3				
		e			42						
	BHA	eP			35		0.3				
		e			47						
22	CLK	eSn	02	29	48		0.5	N Malawi			
		eSg			30		07				
	BHA	iSg	31	03			0.5				
22	BHA	eSg	05	04	38		0.4				
	CLK	eSg	05	24			0.3				
22	BUL	e	10	12	17		0.3	Distant?			

LIST OF RECORDED PHASES: 22 to 25 FEB 1967 - 9

Date	Stn	Phase	G	M	T	R	DA	Epicentre, Remarks
			h	m	s	C	mm	
22	BUL	e i	14	13	32 50		0.5	Distant
22	BUL	iPn iSn iSg	14	56	32 57 43 58 16		2.1	Potchefstroom area
	CLK	iPn eSn iSg			00 15 00 13 01 29		0.4	
22	BUL	e i	18	45	31 46 05		0.9	Distant
22	BUL	eP i	23	37	21 27		0.8	Distant
	CLK	eP		38	11		0.2	
23	BUL	eSg	13	25	00		0.3	Witwatersrand
23	BUL	eSg	18	53	35		0.3	Witwatersrand
23	CLK	iP e	19	09	38 11 38	C	3.2	Distant
	BUL	iP			44	C	3.3	
23	BUL	eP i e	22	45	11 14 42		1.1	Prince Edward Is. region
	CLK	eP			46		0.2	
23	BUL	i i	22	52	02 30	C	0.8	Distant
24	BUL	e	00	28	46		0.3	Distant
24	CLK	iL	03	36	23		0.4	
	BUL	eL		38	17		0.3	
24	CLK	eP eS iL	14	27	22 30 18 32 11		0.6	Ruwenzori, Congo
	BUL	eL		34	10		0.4	
24	CLK	eP eL	16	43	46 53 40		0.4	Ruwenzori, Congo
	BUL	eL		55	43		0.3	
24	BUL	e	20	33	19		0.3	Distant?
25	CLK	iPg iSg	01	31	21 27		6.4	CLK 0.4°
25	BUL	ePn iSn iSg	07	24	18 25 28 59		1.1	E Witwatersrand
	CLK	i		29	20		0.2	
25	BUL	ePn eSn iSg	11	00	21 01 28 02 02		0.4	E Witwatersrand
25	CLK	iP iS	11	33	36 44 19	C	1.6	Molucca Sea
	BUL	iP iS ePKKP		34	04 45 10 51 03	C	5.0	
25	CLK	eP	11	51	31		1.2	Molucca Sea
	BUL	iP i iS			58 52 21 12 03 11	C	4.8	

LIST OF RECORDED PHASES: 25 to 27 FEB 1967 - 10

Date	Stn	Phase	G	M	T	R	DA	Epicentre, Remarks
			h	m	s	C	mm	
25	CLK	iP	12	07	22	C	0.3	Distant
	BUL	iP		08	07	C	0.3	
25	CLK	ePn	18	30	11		4.8	Port Herald area, Malawi?
		iSg			29			
	BUL	eSg		33	25		0.3	
25	BUL	ePn	20	24	26		0.5	Busango Swamp
		iSn		25	39			
		iSg		26	17			
	CLK	ePn		24	56		0.5	
		eSn		26	32			
		iSg		27	22			
25	CLK	ePn	23	58	31		1.3	Kondoa area, Tanzania
		eSn	00	00	22			
		iSg		01	22			
	BUL	eL		04	22		0.4	
26	CLK	eP	03	06	36		0.2	Distant
	BUL	eP		07	33		0.3	
26	CLK	iP	04	09	44	C	0.8	Nuclear test, Semipalatinsk
		iPP		12	32			
	BUL	iP		10	22	C	2.1	
		iPcP			35			
		iPP		13	29			
26	BUL	eSg	06	47	56		0.3	W Witwatersrand
26	BUL	eSg	12	12	29		0.2	W Witwatersrand
26	BUL	e	13	52	44		0.3	Distant
	CLK	i			54	C	0.5	
26	CLK	iSg	14	05	22		1.0	
		iL			25			
	BUL	eL		09	15		0.3	
26	CLK	iPn	15	06	54		2.6	CLK 1.6°
		eSn		07	12			
		iSg			15			
26	BUL	e	17	38	01		0.3	Distant
		e			12			
26	BUL	e(Sg)	18	37	32		0.2	Witwatersrand
27	BUL	eP	02	42	22		0.7	Distant
	CLK	eP		43	00		0.1	
27	BUL	e	03	44	48		0.4	Distant
27	BUL	iSg	11	33	12		0.6	
27	BUL	e	16	09	43		0.2	Distant?
27	BUL	eiP	20	42	53	rC	1.4	Distant
		i		43	22			Two events?
	CLK	eP			29		0.2	
		e			37			
	BHA	eiP		43		rC	1.0	
		i		44	36			
27	BHA	e	21	11	04		0.1	Distant
	BUL	e			18		0.3	
		e			33			

LIST OF RECORDED PHASES: 28 FEB 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentre, Remarks
			h	m	s	C	mm	
28	BUL	iSn	07	25	45		1.3	Central Manica Province, Mocambique
		iSg		26	06			
	BHA	ePn		25	36		0.7	
		eSn		26	50			
		iSg		27	26			
	CLK	eSn		25	46		0.9	
		iSg		26	06			
28	BUL	e	09	56	07		0.5	Distant
		e		57	46			
	BHA	e		(10)			0.1	
28	BUL	i	14	31	41	C	0.5	Distant
28	BUL	iSg	16	32	11		0.6	Witwatersrand

LIST OF RECORDED PHASES: 23 to 25 MAR 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region,	Remarks
			h	m	s	C	mm		
23	BHA	e	05	12	(00)		0.1	Distant	
	BUL	i			07	C	0.2		
23	BHA	e	05	31	13		0.2	Distant	
	BUL	i			25	R	0.4		
23	BUL	e	15	11	54		0.2	Distant	
	BHA	e			55		0.1		
23	BUL	e	22	12	52		0.2		
23	BUL	eSn	23	31	30		0.5	Witwatersrand	
		eSg			59				
24	BUL	i	02	08	09	C	0.3	Distant	
	BHA	i			11	R	0.3		
24	BUL	i	08	30	27	R	0.2	Distant	
24	BUL	iP	09	11	40	R		Distant	
		i			13 47				
		i			14 00				
		e			15 00				
		i			21 03				
		e			24 57				
	BHA	iP			11 43	R	15.		
		i			13 50				
		e			14 04				
		e			17 50				
		i			21 06				
		e			24 55				
24	BUL	eSg	09	46	54		0.3		
24	BUL	ePn	11	06	29		0.2	W. Witwatersrand	
		eSn			07 37				
		eSg			08 11				
24	BUL	iP	11	57	34	R		Distant	
		i			59 42				
	BHA	iP			57 37	R	7.3		
24	BUL	i	12	44	51	C	0.2	Distant	
24	BHA	eP	20	01	59		0.1	Distant	
	BUL	iP			02 32		0.2		
24	BHA	e(L)	20	04	15		0.2		
	BUL	e(L)			06 38		0.2		
24	BUL	e	23	17	49		0.7	Distant	
		i			20 17			Double Shock?	
	BHA	e			17 50		0.1		
		i			20 31				
25	BHA	iP	06	09	57	C	0.3	Distant	
	BUL	iP			10 23	C	0.3		
25	BUL	i	12	30	48	R	0.8	Distant	
	BHA	i			31 00	R	0.3		
25	BUL	e(L)	13	06	08		0.1		
25	BHA	e	23	06	52		0.1	Distant	
		e			08 33				
	BUL	i			07 00	C	0.3		
		e			09 00				

LIST OF RECORDED PHASES: 26 to 28 MAR 1967 - 12

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region,	Remarks
26	BHA	eL	02	14	30		0.3		
	BUL	eL		15	31		0.1		
26	BHA	eP	03	18	07		0.1	Distant	
	BUL	eP			36		0.2		
26	BHA	iP	06	19	16	C	0.2	Distant	
		e		21	36				
		e		23	03				
	BUL	eP		20	07		0.2		
		e		23	05				
26	BHA	e	20	42	34		0.1	Distant	
	BUL	e			40		0.1		
26	BUL	i	22	57	42	C	0.2	Distant	
	BHA	e			46		0.1		
27	BUL	e(Sg)	00	41	18		0.1		
27	BUL	eSn	07	53	56		0.2		
		eSg		54	24				
27	BHA	i	08	19	47	C	0.2	Distant	
	BUL	i		20	07	C	0.4		
27	BUL	ei	08	39	01	rC	0.8	Distant	
	BHA	e			05		0.2		
27	BHA	e	09	11	53		0.2	Distant	
	BUL	e		12	08		0.2		
27	BUL	e	10	20	47		0.4	Distant	
	BHA	e			55		0.2		
27	BUL	e	18	08	17		0.2	Distant	
27	BHA	iP	20	00	39	R	0.2	Distant	
	BUL	iP		01	24	R	0.2		
27	BHA	ePn	21	51	43		0.6	Extreme N. Malawi?	
		eSn		52	58				
		eSg		53	33				
	BUL	eL		56	05		0.1		
27	BHA	iPn	23	58	03	R	8.4	Extreme N. Malawi?	
		eSn		59	21				
		eSg			58				
	BUL	eP		59	10		1.0		
		eS	24	01	10				
		eL		02	32				
28	BHA	eSn	01	02	40		13.	Extreme N. Malawi?	
		eSg		03	15				
	BUL	eS		04	32		1.2		
		eL		05	48				
28	BUL	e	01	24	01		0.1	Distant	
	BHA	i			19	C	0.6		
28	BHA	eSg	02	49	05		0.4		
28	BUL	e	05	20	46		0.3	Distant	
28	BUL	iFn	13	55	33		2.4	Witwatersrand	
		eSn		56	41				
		eSg		57	10				
	BHA	ePn		56	49		0.4		
		eSn		58	54				
		iSg	14	00	07				

Eg: Punched

March

11 JUL 1967

AAH 691128

VW

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

The following stations contribute records for analysis and publication in this Bulletin:

- BROKEN HILL (BHA):**  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
Litho. foundation: Dolomite and shales of the Middle Katanga System.  
Authority: Zambia Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.
- BULAWAYO (BUL):**  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
Litho. foundation: Hornblend schists of the Bulawayan System.  
Instruments: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.  
WWSS Station: SP magnification 100,000.  
LP magnification 1,500.
- CHILEKA (CLK):**  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
Litho. foundation: Charnockitic granulites of the Basement Complex.  
Authority: Malawi Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
P. O. Box 562, Bulawayo, Rhodesia.

MAR 1967

Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
X 01	04	12	12	26.3S 27.4E; Witwatersrand	3.2
01	14	24	27	USCGS 1.5N 126.4E; Molucca Passage	5.3
X 01	14	51	04	26.2S 28.2E; Witwatersrand	2.3
X 01	20	18	45	26.3S 27.3E; W. Witwatersrand	3.5
X 01	21	32	54	8.7S 31.6E; S. Fipa Plateau, Tanzania	3.4
01	22	16	30	USCGS 51.4N 179.3W; Andreanof Is., Aleutians	5.3
01	23	56	28	Ruwenzori area	3.8
02	02	47	32	USCGS 0.3S 78.7W; Ecuador	5.8
02	07	55	24	USCGS 32.1N 55.8E; Iran	4.6
X 02	08	43	31	12S 41E; Offshore N. Mocambique	3.7
02	09	51	48	USCGS 41.4N 71.4E; Kirgiz SSR	4.2
02	16	52		N. Mocambique?	
02	20	47	37	USCGS 52.4N 160.5E; Off E. Coast Kamchatka	4.6
02	23	03	40	USCGS 53.7N 160.5E; Near E. Coast Kamchatka	5.0
03	05	48	55	USCGS 5.3S 68.5E; Chagos Archipelago region	4.8
03	12	45	55	USCGS 50.3S 139.8E; S. of Australia	5.1
03	15	01	04	USCGS 6.9S 106.1E; Java	4.8
03	16	47	00	Witwatersrand	2.3
X 03	20	01	31	19.1S 33.5E; Central Manica Province, Mocambique	3.2
X 03	22	02	44	26.8S 26.5E; W. Witwatersrand	3.2
04	05	09	24	USCGS 21.4N 121.8E; Taiwan region	5.5
04	06	16	22	USCGS 18.5S 175.4W; Tonga Is.	5.7
04	14	59	39	USCGS 52.1N 170.5W; Fox Is., Aleutians	4.3
04	17	58	06	USCGS 39.2N 24.6E; Aegean Sea	
04	20	14	45	Witwatersrand	3.2
06	00	27	45	Marungu Mts., Congo?	3.3
06	04	40	18	USCGS 30.5N 137.6E; S. of Honshu, Japan	5.1
X 06	09	05	11	16S 28E; Kariba	2.7
06	11	28	49	USCGS 3.7N 95.8E; Off W. Coast of N. Sumatra	5.1
06	13	21(00)		Witwatersrand	2.4
06	14	43	34	Witwatersrand	2.5
X 06	15	40	25	16.8S 27.8E; Kariba	2.2
X 06	18	41	45	26.5S 27.0E; W. Witwatersrand	2.6
X 06	21	03	57	26.4S 27.7E; Witwatersrand	2.9
07	07	02	02	Kariba	2.0
X 07	11	57	04	22.4S 32.5E; S. Manica Province, Mocambique	3.0
X 07	15	05	40	26.3S 27.9E; Witwatersrand	2.9
07	16	21	20	USCGS 4.1N 125.6E; Talaud Is.	5.5
X 08	14	59	44	26.2S 27.4E; Witwatersrand	3.1
X 08	16	21	51	26.5S 27.3E; W. Witwatersrand	3.4



MAR 1967

Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
08	22	13	57	USCGS 15.6S 167.6E; New Hebrides Is.	4.5
X 09	06	52	59	26.3S 27.9E; Witwatersrand	2.6
09	06	58	36	USCGS 10.6S 166.3E; Santa Cruz Is.	6.0
09	11	43	14	USCGS 23.8S 66.4W; Jujuy Province, Argentina	4.7
X 09	14	22	47	26.6S 26.9E; W. Witwatersrand	3.7
X 09	17	13	08	26.4S 27.3E; W. Witwatersrand	2.9
09	18	02	46	USCGS 10.7S 166.3E; Santa Cruz Is.	6.4
X 09	18	29	29	26.4S 27.3E; W. Witwatersrand	3.2
X 09	19	54	50	17.2S 35.2E; Port Herald area, Malawi	3.2
09	19	56	59	USCGS 17.7S 69.7W; Peru-Bolivia Border region	4.3
09	21	25	35	USCGS 21.5S 176.3W; Fiji Is. region	4.8
X 09	23	02	25	26.3S 28.0E; Witwatersrand	3.1
X 10	01	56	22	14.0S 25.6E; Busango Swamp, Zambia	3.2
X 10	12	41	15	0.6N 30.5E; Ruwenzori area, Uganda	4.2
X 10	16	46	39	26.2S 27.6E; Witwatersrand	2.9
11	06	31	09	USCGS 36.4N 70.7E; Hindu Kush region	5.0
11	08	33	27	USCGS 10.7S 166.2E; Santa Cruz Is.	6.1
X 11	09	02	33	26.2S 27.6E; Witwatersrand	2.6
X 11	13	26	39	26.5S 27.1E; W. Witwatersrand	2.7
X 11	13	32	36	23.8S 36.5E; Phalaborwa area, F. Transvaal	2.4
11	14	44	59	USCGS 19.1N 95.8W; Vera Cruz, Mexico	5.5
11	15	45(00)		N. Lake Tanganyika area	3.3
11	16	20	47	Port Herald area, Malawi	2.2
11	16	56	49	USCGS 28.4N 94.4E; India-China Border region	5.3
* 11	19	25	00	Lake Albert area	3.9
11	19	38	22	USCGS 19.7N 38.9E; Red Sea	5.2
X 12	03	57	13	6.0S 31.9E; W. Tanzania	4.6
12	13	09	53	Lake Mweru area, Congo?	3.4
12	13	52	58	Witwatersrand	3.4
12	18	56	48	USCGS 24.9S 68.9W; Chile-Argentina Border region	4.5
13	02	36	24	Busango Swamp, Zambia	(2.1)
13	02	39	07	Busango Swamp, Zambia	(2.0)
13	08	10	56	USCGS 19.6N 38.9E; Red Sea	5.0
13	11	46	29	USCGS 19.7N 39.1E; Red Sea	5.0
X 13	12	43	37	26.3S 28.1E; Witwatersrand	2.9
13	14	44	07	USCGS 53.7N 165.4W; Fox Is., Aleutians	5.2
13	16	06	54	USCGS 40.1S 74.5W; Off Coast of S. Chile	6.0
13	17	27	11	USCGS 3.6N 126.5E; Talaud Is.	5.4
13	19	01	01	USCGS 3.6N 126.5E; Talaud Is.	5.4
13	19	22	15	USCGS 19.7N 38.9E; Red Sea	5.8
* 11	18	45	41	USCGS 29.2N 81.4E; Nepal	4.0

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Date	G	M	T	Epicentre; Remarks	Mag CGS
	h	m	s		
13	20	08	26	USCGS 24.2S 70.4W; Near Coast of N. Chile	4.6
14	06	58	04	USCGS 28.4N 94.3E; India-China Border region	5.9
X 14	12	39	33	15.6S 26.8E; Kafue Flats, Zambia	2.7
14	14	35	12	USCGS 36.5N 70.6E; Hindu Kush region	4.8
14	17	53	36	Busango Swamp, Zambia	(2.1)
14	21	52	05	USCGS 19.4N 38.7E; Red Sea	4.6
14	23	41	36	Kafue Flats, Zambia	2.1
15	03	28	04	Witwatersrand	2.7
X 15	15	56	45	26.4S 27.1E; W. Witwatersrand	3.0
15	22	02	10	USCGS 59.5S 26.1W; S. Sandwich Is. region	5.7
16	03	11	59	USCGS 19.5N 38.9E; Red Sea	5.4
X 16	12	20	16	26.4S 27.0E; W. Witwatersrand	2.8
16	12	13	21	USCGS 26.9N 96.6E; Burma	4.9
X 16	13	42	13	26.5S 27.8E; Witwatersrand	2.7
16	14	12	19	Port Herald area Malawi?	2.3
16	14	45	13	USCGS 19.7N 38.9E; Red Sea	5.1
16	15	13	53	Witwatersrand	2.3
16	15	16	55	USCGS 21.4S 67.0W; S. Bolivia	4.3
16	17	33	07	USCGS 13.6S 170.7E; New Hebrides Is., region	4.8
X 16	23	31	33	7.0S 31.2E; Katavi Swamp, Tanzania	3.5
X 17	00	54	37	26.2S 27.6E; Witwatersrand	2.6
17	06	47	41	USCGS 53.6N 165.3W; Fox Is., Aleutians	4.4
17	11	24	46	USCGS 3.6S 150.9E; New Ireland region	(6.2)
X 17	12	53	50	26.3S 27.8E; Witwatersrand	3.6
X 17	21	37	05	28S 27E; O.F.S. Goldfields	(2.6)
X 18	00	51	12	26.4S 27.2E; W. Witwatersrand	2.5
18	18	06(00)		Witwatersrand	2.3
18	19	15	36	USCGS 6.0S 146.3E; E. New Guinea region	5.6
X 18	21	30	14	26.2S 28.1E; Witwatersrand	3.0
19	01	10	46	USCGS 6.7S 129.9E; Banda Sea	5.9
X 19	02	14	14	28S 27E; O.F.S. Goldfields	3.1
19	04	01	37	USCGS 45.4N 151.3E; Kurile Is.	
19	05	55	03	USCGS 13.7N 120.6E; Mindoro, Philippine Is.	4.9
X 19	13	35	24	26.4S 27.0E; W. Witwatersrand	2.4
20	08	47	48	USCGS 6 2S 148.3E; New Britain region	5.1
20	13	31	34	USCGS 45.6N 151 4E; Kurile Is.	5.7
20	13	40	53	USCGS 45.6N 151.5E; Kurile Is.	5.3
20	13	52	05	USCGS 45.6N 151.5E; Kurile Is.	5.4
20	15	46	29	USCGS 45.6N 151.2E; Kurile Is.	5.1
20	18	37	00	Lake Mweru area, Congo?	2.9

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
	20	19	07 25	USCGS 22.1S 170.6E; Loyalty Is. region	5.5
X	20	20	43 54	26.4S 27.2E; W. Witwatersrand	2.7
X	21	06	23 07	26S 35E; Off Coast of S. Mocambique	(2.7)
	21	11	18 00	Witwatersrand	(2.7)
	22	00	10 52	USCGS 11.7S 165.5E; Santa Cruz Is.	4.8
	22	03	18 01	Witwatersrand	(2.6)
	22	05	12 55	W. Witwatersrand	(2.8)
	22	05	34 11	Kafue Flats, Zambia?	2.4
	22	15	53 15	Witwatersrand	2.3
X	22	17	11 13	26.8S 26.7E; W. Witwatersrand	2.7
X	22	20	05 06	26.4S 27.3E; W. Witwatersrand	2.5
	22	21	17 34	USCGS 56.1S 27.6W; S. Sandwich Is. region	5.4
	23	02	46 51	USCGS 2.7S 68.0E; Carlsberg Ridge	4.8
	23	05	23 34	USCGS 2.8S 68.1E; Carlsberg Ridge	5.1
	23	15	00 28	USCGS 4.7S 101.8E; S. Sumatra	5.2
X	23	23	28 51	26.2S 27.6E; Witwatersrand	3.2
	24	01	56 24	USCGS 6.0S 105.3E; Sunda Strait	5.2
	24	09	00 19	USCGS 6.0S 112.3E; Java Sea	6.0
X	24	11	04 56	26.4S 27.1E; W. Witwatersrand	2.5
	24	11	46 14	USCGS 6.0S 112.3E; Java Sea	5.3
	24	22	59 47	USCGS 20.2S 179.0W; Fiji Is. region	4.7
	25	12	18 24	USCGS 23.1S 66.4W; Jujuy Province, Argentina	4.8
	25	22	47 58	USCGS 45.5N 151.4E; Kurile Is.	5.5
	26	03	08 27	USCGS 27.2N 67.5E; W. Pakistan	4.5
	26	20	35 06	USCGS 7.4S 67.8E; Mid-Indian Rise	4.7
	26	22	39 01	USCGS 9.3S 148.6E; E. New Guinea region	5.3
X	27	07	51 16	26.2S 27.6E; Witwatersrand	2.5
	27	08	26 35	USCGS 8.9S 71.3W; W. Brazil	5.3
	27	08	58 25	USCGS 38.4N 116.5E; NE. China	5.4
	27	10	01 42	USCGS 16.5S 168.1E; New Hebrides Is.	5.5
	27	19	53 41	USCGS 20.0N 38.6E; Red Sea	5.1
	27	21	50 03	S. Highlands, Tanzania	3.0
X	27	23	56 21	9.0S 32.9E; S. Highlands, Tanzania	4.2
	27	23	59 52	S. Highlands, Tanzania	4.2
X	28	13	54 05	26.2S 28.0E; Witwatersrand	3.5
	29	01	07 24	USCGS 4.8S 103.2E; S. Sumatra	5.3
	29	06	53 11	USCGS 27.3N 100.1E; Yunnan Province, China	4.9
	29	09	32 04	S. of Lake Mweru, Congo?	2.9
	29	09	31 31	USCGS 7.4S 68.1E; Chagos Archipelago region	5.0
X	29	14	32 14	26.4S 27.0E; W. Witwatersrand	3.1

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Date	G M T h m s	Epicentre; Remarks	Mag CGS
X 29	15 33 58	26.4S 27.0E; W. Witwatersrand	3.1
29	17 09 22	USCGS 20.1S 179.0W; Fiji Is. region	4.6
29	18 49 54	S. Highlands, Tanzania	3.3
29	20 43 21	USCGS 8.5S 122.5E; Flores Is. region	
30	02 08 02	USCGS 11.0S 115.5E; S. of Bali Is.	6.0
X 30	05 35 13	26.4S 27.1E; W. Witwatersrand	(2.7)
30	06 06(30)	Witwatersrand	2.5
X 30	13 47 09	26.2S 27.6E; Witwatersrand	3.0
X 30	14 09 09	26.2S 28.0E; Witwatersrand	3.7
30	14 17 04	Witwatersrand	(2.4)
X 30	21 34 21	28.2S 26.6E; O.F.S. Goldfields	3.0
30	23 04 46	USCGS 16.9S 176.9W; Fiji Is. region	5.1
31	02 12 18	USCGS 52.1N 169.7W; Fox Is., Aleutians	4.8
31	03 18 24	USCGS 20.2N 38.6E; Red Sea	4.8
31	19 39 43	O.F.S. Goldfields	2.8
31	20 05 19	USCGS 15.4S 167.5E; New Hebrides Is.	5.3

## LIST OF RECORDED PHASES: 01 to 02 MAR 1967 - 1

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks	
01	BUL	ePn	04	13	45		0.9	Blyvooruitsig area		
		iSn		14	53					
		iSg		15	25					
	CLK	eSg		18	45		0.2			
01	CLK	eP	14	37	34		0.2	Distant		
	BUL	iP			59	C	0.4			
		i		38	35					
		i		41	56					
	BHA	eP		3 <sup>R</sup>	01		0.3			
01	BUL	eSg	14	54	10		0.2	Witwatersrand?		
01	BUL	e	17	02	54		0.3	Distant		
01	BHA	iL	17	43	51		0.6	Uganda?		
	CLK	eL		45	18		0.3			
	BUL	eL		46	57		0.2			
01	BUL	iPn	20	20	17		1.5	Potchefstroom area		
		iSn		21	27					
		iSg			58					
	BHA	ePn			32		0.3			
		iSn		23	40					
		eL		24	56					
	CLK	eSg		25	17		0.3			
01	BHA	ePn	21	34	(30)		1.6	S. Fipa plateau, Tanzania		
		iSn		35	40					
		iSg		36	18					
	CLK	iPn		34	45		0.7			
		iSn		36	06					
		iSg			57					
	BUL	iL		39	00		0.3			
01	BUL	e	22	35	55		0.2	Distant		
02	BHA	i	00	04	05		0.4	Uganda		
		i(L)			57					
		CLK	eL		05	08			0.3	
	BUL	eL		06	58		0.2			
02	BHA	iP	03	05	45	C	0.4			
		CLK	iP			58	C		0.3	
02	BHA	ei	03	17	06	rC	0.6	Distant		
		i			21					
		BUL	e			06			0.6	
		i			22					
02	BUL	e	08	05	13		0.4	Distant?		
02	CLK	ePn	08	45	12		2.4	Offshore N Mocambique		
		iSn		46	26					
		iSg		47	04					
	BHA	e(Sg)		50	(00)		0.5			
		BUL	eL		51	08			0.3	
02	BUL	i	10	03	12	C	0.3	Distant?		
02	CLK	iSn	16	54	21		1.2	N Mocambique?		
		iSg			49					
	BHA	eL		56	22		0.3			
		BUL	eL		59	(00)			0.2	
02	BHA	iP	16	54	03	C	0.4	Distant		
		BUL	eP			36			0.3	

LIST OF RECORDED PHASES: 02 to 06 MAR 1967 - 2

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
02	CLK	e	21	06	37		0.3	Distant	
		e			48				
	BHA	i			42	R	0.4		
		i			54				
	BUL	i			50	R	0.4		
02	CLK	e	23	22	36		0.3	Distant	
	BHA	e			42		0.3		
	BUL	e			51		0.3		
03	BUL	e	05	56	40		0.4	Distant	
03	BUL	iSg	07	13	38		0.3		
03	BUL	iP	12	58	43	C	0.4	Distant	
	BHA	eP		59	04		0.2		
03	BHA	eP	14	52	00		0.3	Distant	
	CLK	eP		53	00		0.2		
	BUL	eP		53	00		0.5		
03	BUL	i	15	12	50	C	0.6	Distant	
03	BUL	e	16	50	05		0.2	Distant?	
03	CLK	iPn	20	02	28		5.0	Central Manica Province, Mocambique	
		iSn		03	10				
		iSg			22				
	BUL	ePn		02	40		4.8		
		iSn		03	30				
		iSg			48				
	BHA	ePn			09		0.6		
		eSn		04	23				
		eSg			50				
03	BUL	ePn	22	04	25		0.6	Klerksdorp area	
		eSn		05	39				
		iSg		06	16				
	BHA	ePn		05	40		0.2		
		eSg		09	12				
	CLK	eSg			37		0.2		
04	CLK	eP	05	22	24		0.2	Distant	
	BHA	eP			47		0.3		
	BUL	eP			55		0.4		
		e		23	45				
04	BUL	eP'	06	35	16		1.5	Distant	
		iPP		37	50				
		iSKP		38	27				
	BHA	eP'		35	18		0.8		
		e(SKP)		38	18				
04	BUL	iP	15	19	13	C	1.6	Distant	
04	BHA	eiP	18	07	23	rC	0.9	Distant	
	BUL	iP		08	04	R	3.7		
		ipP			08				
04	BUL	iSg	20	17	52		0.8	Witwatersrand?	
05	BUL	eSn	04	02	01		0.7	Witwatersrand?	
		iSg			32				
06	BHA	iPn	00	29	21		1.4	Marungu Mts., Congo?	
		iSn		30	28				
		iSg		31	05				
	BUL	eP		30	35		0.2		
		eL		34	05				

LIST OF RECORDED PHASES: 06 to 08 MAR 1967 - 3

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
06	BHA	e	02	55	31		0.2	Distant	
	BUL	e			31		0.2		
06	BHA	e	04	58	01		0.3	Distant	
		i		59	03				
	BUL	i		58	06	R	1.1		
		i		59	23				
06	BUL	eSg	06	06	16		0.5		
06	BHA	iPn	09	05	44		5.	Kariba	
		iSn		06	07				
		iSg			11				
	BUL	ePn			08		1.9		
		iPg			19				
		eSn			48				
		iSg		07	06				
06	BHA	iP	11	39	51	R	5.7	Distant	
	BUL	iP			57	R	1.1		
06	BUL	e	12	38	03		0.3	Distant?	
06	BUL	eSg	13	22	32		0.4	Witwatersrand?	
06	BUL	iSg	13	36	26		0.3	Witwatersrand?	
06	BUL	eSg	14	46	42		0.3	Witwatersrand?	
06	BHA	ePn	15	41	02		1.4	Kariba	
		iSg			36				
	BUL	ePg			24		0.6		
		eSn			51				
		iSg		42	05				
06	BUL	eP	16	34	47		0.5	Distant.	
	BHA	eP		35	20		0.3		
06	BUL	eSg	18	45	03		0.2		
06	BUL	eSg	20	05	51		0.3		
06	BUL	iSg	21	07	06		0.6	Witwatersrand?	
06	BHA	e	23	54	12		0.2	Distant	
	BUL	i			13	C	0.7		
07	BHA	e	03	17	53		0.2	Distant	
	BUL	e			55		0.3		
07	BHA	ePn	07	02	31		1.6	Kariba	
		iSg			55				
	BUL	eSg		03	57		0.3		
07	BUL	ePn	11	58	09		1.2	S Manica Province, Mocambique?	
		iSn			54				
		iSg		59	14				
	BHA	i(L)	12	01	34		0.5		
07	BUL	iSg	15	08	47		0.7	Witwatersrand	
07	BUL	i	16	34	38	C	0.6	Distant	
	BHA	i			38	C	0.4		
07	BUL	e	18	38	26		0.4	Distant?	
08	BUL	i	14	39	04	R	0.5	Distant	
08	BUL	e	14	59	27		0.2		
08	BUL	eSg	15	02	52		0.8		

LIST OF RECORDED PHASES: 08 to 09 MAR 1967 - 4

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region	Remarks
08	BUL	iPn	16	23	26	C	1.5	Witwatersrand	
		iSn		24	35				
		iSg		25	07				
	BHA	iPn		24	42		0.3		
		eL		23	13				
08	BUL	i	22	32	46	R	0.8	Distant	
	BHA	ei			54		0.5		
08	BHA	iL	23	34	51		0.3		
	BUL	eL		36	02		0.2		
09	BUL	eP	04	50	01		0.5	Distant	
	BHA	eP			36		0.4		
09	BUL	eP	04	57	06		0.6	Distant	
	BHA	eP			42		0.4		
09	BUL	eP	05	01	41		0.9	Distant	
		i			49				
	i		02	20					
	BHA	eP			24	0.5			
		i			54				
09	BUL	eSg	06	56	03		0.3		
09	BUL	eP'	07	17	40		0.7	Distant	
		BHA	eP'			49		0.3	
		eSKP		21	17				
09	BUL	e	11	55	35		0.4	Distant	
09	BUL	eSg	13	08	03		0.2		
09	BUL	iPn	14	24	22	C	2.3	W Witwatersrand	
		iSn		25	35				
		iS*			49				
		iSg		26	08				
	BHA	iPn		25	40	0.4			
		eSn		27	49				
		iSg		29	01				
09	BHA	e	15	26	49		0.3	Distant	
	BUL	i			49	C	0.5		
09	BUL	ePn	17	14	41		0.5	W Witwatersrand	
		eSn		15	51				
		iSg		16	24				
09	BUL	eP'	18	21	51		0.4	Distant	
		BHA	eP'			55		0.2	
		eSKP		25	22				
09	BUL	ePn	18	31	04		0.7	W Witwatersrand	
		eSn		32	13				
		iSg			47				
09	CLK	iPn	19	55	15		15.	Port Herald area	
		iSg			35				
	BHA	ePn		56	34	0.6			
		eSn		57	50				
		iL		58	34				
	BUL	iSn		57	42	1.2			
iSg			58	19					
09	BUL	i	20	09	50	C	0.7	Distant	
09	BUL	e	21	15	33		0.4	Distant?	



LIST OF RECORDED PHASES: 09 to 11 MAR 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	BUL	e	21	44	18		0.6	Distant	
	BHA	i			28	C	0.5		
09	BUL	ePn	23	03	57		0.8	Witwatersrand	
		eSn		05	01				
		iSg			35				
	BHA	ePn			13		0.2		
		eSg		08	30				
	CLK	eSg			45		0.2		
10	BHA	iPn	01	57	07		7.	Busango Swamp	
		iPg			13				
		iSn			38				
		iSg			48				
	BUL	ePn			59		0.8		
		eSn		59	10				
		iSg			47				
		iL			51				
	CLK	iSn	02	00	11		0.4		
		iSg		01	05				
10	CLK	e	06	54	32		0.2	Distant	
	BUL	i			33	C	0.6		
	BHA	e			49		0.5		
10	BHA	eP	12	44	47		1.0	Fort Portal area	
		iL		49	04				
	CLK	eP		45	09		0.7		
		iL		50	00				
	BUL	eP		45	53		0.6		
		iL		52	07				
10	BUL	eSg	16	49	47		0.3	Blyvooruitsig Area	
11	CLK	iP	06	41	07	C	0.5	Distant	
		e			58				
	BHA	iP			23	C	0.7		
		i		42	13				
	BUL	iP		41	51	C	0.8		
		i		42	42				
11	CLK	iP'	08	52	24	C	0.3	Distant	
	BUL	iP'			30	C	1.0		
	BHA	iP'			37	C	0.5		
		iSKP		56	03				
11	BUL	eSg	09	05	43		0.3	Blyvooruitsig Area	
11	BUL	eSg	09	42	09		0.2		
11	BUL	e	12	25	26		0.2	Distant?	
11	BUL	eSg	13	29	45		0.3	Potchefstroom Area	
11	BUL	eSg	13	34	54		0.3	Swaziland?	
11	BHA	e	15	04	00		0.4	Distant	
	BUL	e			00		0.3		
		e		06	06				
	CLK	e		04	15		0.3		
11	BHA	eL	15	51	45		0.4	Uganda?	
	CLK	eL		53	16		0.2		
	BUL	eL		54	51		0.2		
11	CLK	iP	16	21	12	R	2.2	Port Herald area?	
		iS			29				
	BUL	eSg		24	22		0.2		

LIST OF RECORDED EARTHQUAKES: 11 to 13 MAR 1967 - 6

Date	Stn	Phase	G	M	T	R	DA	Epicentral Region:	Remarks
			h	m	s	C	mm		
11	BHA	ei	17	08	46	rC	0.4	Distant	
	BUL	ei		09	04	rC	0.6		
11	BHA	eP	18	56	37		0.3	Distant	
	BUL	eP		57	01		0.4		
11	BHA	eSg	19	34	07		0.5	Uganda?	
		iL			17				
	BUL	eL		37	(10)		0.2		
11	BHA	eP	19	45	16		0.3	Distant	
	BUL	eP		46	01		0.3		
12	BUL	eSg	03	59	03		0.4		
12	BHA	ePn	03	59	23		15.		
		iSn	04	00	58				
		iSg		01	49				
	BUL	ePn		00	35		1.5		
		eSn		03	06				
		iSg		04	35				
		iL			43				
12	BHA	eSg	04	33	47		0.4		
	BUL	eL		34	52		0.4		
12	BUL	e	11	03	00		0.2	Distant?	
12	BHA	iPn	13	11	25		1.3	Lake Mweru Area, Congo?	
		eSn		12	31				
		iSg		13	05				
		iL			11				
	BUL	eL		16	13		0.3		
12	BUL	ePn	13	54	29		1.4	Witwatersrand	
		eSn		55	34				
		iSg		56	07				
	BHA	ePn		55	45		0.3		
		eSg		58	59				
12	BUL	e	19	09	38		0.5	Distant	
	BHA	e			48		0.2		
12	BUL	e(Sg)	23	11	03		0.2		
13	BHA	ePn	02	36	58		1.4	Busango Swamp	
		eSn		37	24				
		iSg			28				
13	BHA	ePn	02	39	41		1.1	Busango Swamp	
		iSg		40	11				
13	CLK	e(L)	07	18	34		0.1		
	BHA	e(L)		19	28		0.1		
13	CLK	eP	08	17	51		0.1	Distant	
	BHA	eP			52		0.1		
	BUL	eP		18	39		0.2		
13	CLK	eP	11	53	23		0.2	Distant	
	BHA	eP			24		0.2		
	BUL	eP		54	10		0.2		
13	BUL	eSn	12	45	13		0.5		
		iSg			47				
13	BUL	i	15	03	42	R	1.3	Distant	
	BHA	e			55		0.2		

LIST OF RECORDED PHASES: 13 to 15 MAR 1967 - 7

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
13	BUL	iP'	16	19	37	C	3.1	Distant	
		iPP		22	30				
		eSKP			58				
	BHA	iP'		19	55	C	0.9		
		ePP		23	03				
		eSKP			29				
CLK	eP'		20	(00)		0.6			
	ePP		23	(10)					
	eSKP			(30)					
13	BHA	e	17	40	52		0.1	Distant	
	BUL	e			55		0.2		
13	CLK	e	19	14	11		0.1	Distant	
	BHA	e			39		0.2		
	BUL	e			41		0.2		
13	BHA	iP	19	29	14	R	0.8	Red Sea area	
		ePP		30	(40)				
		ePcP		31	44				
	CLK	eL		40	(40)		rC	0.8	
		eiP		29	14				
		ePP		30	40				
		ePcP		31	45				
	BUL	eL		40	(50)		R	0.7	
		iP		30	00				
		iPcP		32	02				
		eL		43	(30)				
13	BUL	eSg	20	21	38		0.2		
14	CLK	eP	07	09	29		1.4	Distant	
	BHA	eP			55		1.2		
	BUL	eP		10	13		0.8		
14	BHA	ePn	12	40	05		4.6	Kafue Flats, Zambia	
		eSn			28				
		eSg			33				
	BUL	ePn			45		0.8		
		ePg		41	00				
		eSn			36				
		eSg			57				
	CLK	eSn		42	50		0.3		
		eSg		43	35				
	14	CLK	iP	14	45	12	R	0.2	Distant
BHA		eP			27		0.1		
BUL		eP			55		0.2		
14	BHA	ePn	17	54	10		1.5		
		eSn			37				
		iSg			41				
14	CLK	eP	21	59	03		0.2	Distant	
	BHA	eP			05		0.2		
	BUL	eP			53		0.2		
14	BHA	ePn	23	42	08		2.0	Kafue Flats, Zambia	
		eSg			36				
	BUL	eSg		44	07		0.2		
15	BUL	eSg	03	31	13		0.3	Johannesburg area	
15	BUL	eSg	15	45	42		0.2		

LIST OF EARTHQUAKE EVENTS. 15 to 19 MAR 1967 - 8

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
15	BUL	ePn	15	58	19		0.4	Potchefstroom area	
		eSn		59	29				
		eSg		16	01				
15	BUL	eP	22	11	40		0.4	Distant	
	BHA	eP		12	15		0.3		
	CLK	eP			28		0.2		
16	CLK	iP	03	18	52	R	0.2	Distant	
	BHA	iP			54	C	0.2		
	BUL	iP		19	40	C	0.2		
16	BUL	eSg	12	23	33		0.3	Potchefstroom area	
16	CLK	eP	12	24	52		0.5	Distant	
	BHA	iP		25	19	C	0.8		
	BUL	iP			36	C	0.3		
16	BUL	eSg	13	45	26		0.3	Witwatersrand	
16	CLK	eP	14	12	45		2.5	Port Herald area?	
		iS		13	03				
	BUL	eSg		15	57		0.2		
16	CLK	iP	14	52	06	C	0.2	Distant	
	BHA	eP			08		0.1		
	BUL	iP			53	C	0.2		
16	BUL	eSg	15	17	01		0.2		
16	BUL	i	15	29	19	R	0.6	Distant?	
16	CLK	eP'	17	51	02		0.2	Distant	
	BUL	eP'			08		0.3		
		iPP		53	35				
	BHA	eP'		51	14		0.1		
		ePP		53	46				
16	BUL	e	23	27	03		0.3	Distant	
16	CLK	ePn	23	33	46		0.4	Katavi Swamp, Tanzania	
		eSn		35	29				
		eSg		36	25				
	BHA	eSn		34	49		1.0		
		eSg		35	38				
	BUL	eSn		37	01		0.3		
		eL		38	30				
17	BUL	eSg	00	56	45		0.3		
17	CLK	e	07	07	05		0.2	Distant	
	BUL	i			14	C	0.4		
17	BUL	e	11	43	38		0.2	Distant	
	CLK	e			(40)		0.1		
	BHA	e			41		0.2		
17	BUL	ePn	12	55	21		1.7	Blyvooruitsig area, Transvaal	
		eSn		56	29				
		eSg			59				
	CLK	eL	13	00	01		0.5		
	BHA	eL			04		0.4		
17	BUL	eSg	21	41	00		0.2	O.F.S. Goldfields	
18	BUL	eSg	00	54	26		0.2		
18	CLK	eP	09	48	05		0.6	Distant	
	BUL	eP			11		0.7		
	BHA	eP			26		0.5		

LIST OF RECORDED PHASES: 18 to 20 MAR 1967 - 9

Date	Stn	Phase	G	M	T	R	DA	Epicentral region,	Remarks
			h	m	s	C	mm		
18	BUL	e	14	40	35		0.2	Distant?	
18	BUL	eSg	18	08	45		0.2	Witwatersrand	
18	BUL	ei	19	34	05	rC	0.6	Distant	
	BHA	e		08			0.3		
18	CLK	eL	19	39	47		0.2	W. Tanzania	
	BHA	eL			49		0.8		
	BUL	eL		42	33		0.2		
18	BUL	iP	20	19	59	C	0.3	Distant	
	BHA	iP		20	32	C	0.1		
18	BUL	eSn	21	32	52		0.5	Witwatersrand	
		iSg		33	20				
18	BUL	iP	23	23	07	C	0.4	Distant	
	BHA	eP			40		0.2		
	CLK	eP			52		0.2		
19	CLK	iP	01	23	48	C	0.4	Distant	
		iPP		27	32				
		eSKS		34	14				
	BUL	iP		24	18	C	0.6		
		ePP		28	18				
		eSKS		34	48				
	BHA	iP		24	22	C	0.3		
		ePP		28	23				
		iSKS		34	51				
19	BHA	iP'	01	40	49	R	0.2	Distant	
	BUL	eP'			52		0.3		
	CLK	eP'		41	01		0.2		
19	BUL	eSg	02	18	19		0.4	O.F.S. Goldfields	
19	CLK	eP'	04	20	19		0.4	Distant	
		iPP		21	43				
		eSKP		27	05				
	BHA	eP'		20	32		1.0		
		iPP		22	01				
		e		29	09				
	BUL	eP'		20	40		1.7		
		iPP		22	39				
		eSKP		24	03				
		eSKS		27	42				
19	CLK	iP	06	07	48	R	0.2	Distant	
	BHA	iP		08	20	R	0.1		
	BUL	iP			25	R	0.2		
19	BUL	eSg	13	38	42		0.2	W. Witwatersrand	
20	BUL	e	09	06	26		0.2		
20	BHA	eL	09	10	56		0.5		
	BUL	eL		13	50		0.2		
20	BHA	i	13	50	28	R	0.2	Distant	
		e		52	09				
	BUL	i		50	35	R	0.5		
		e		52	28				
20	BHA	e	13	59	47	C	0.2	Distant	
		e		14	01	27			
	BUL	e	13	59	53	C	0.4		
		e		14	01	51			

LIST OF RECORDED PHASES: 20 to 23 MAR 1967 - 10

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region,	Remarks
20	BHA	e	14	11	00		0.2	Distant	
		e		12	44				
	BUL	e		11	07		0.2		
		e		13	05				
20	BHA	e	16	05	20		0.2	Distant	
	BUL	e			28		0.3		
20	BHA	ePn	18	38	17		0.8	Lake Mweru Area?	
		eSn		39	14				
		eSg			41				
	BUL	eL		42	(40)		0.2		
20	BUL	e	19	26	23		0.2	Distant	
	BHA	e		26	(30)		0.1		
20	BUL	eSn	20	46	39		0.3	Potchefstroom Area	
		eSg		47	12				
20	BUL	eSn	22	40	34		0.2		
		eSg		41	01				
21	BUL	iP	00	36	57	C	0.3	Distant	
	BHA	eP		37	24		0.1		
21	BUL	eSg	03	07	14		0.4		
21	BUL	eSg	06	27	23		0.2	Off Coast of S. Mocambique	
21	BUL	eSg	09	40	34		0.3		
21	BUL	eSg	11	21	12		0.3	Johannesburg Area	
21	BUL	i	12	53	12	R	0.2	Distant	
21	BHA	e	23	06	29		0.3	Distant	
22	BUL	e	00	29	57		0.2	Distant	
		e		30	20		0.1		
22	BUL	eSg	03	21	05		0.3	Witwatersrand	
22	BUL	ePn	05	14	30		0.3	West Witwatersrand	
		eSn		15	47				
		iSg		16	20				
22	BHA	eP	05	34	41		4.6	Kafue Flats, Zambia?	
		eS		35	02				
22	BUL	eSn		36	17		0.3		
		eSg			43				
22	BHA	eS	14	42	54		0.5		
		eL		43	49				
22	BUL	eSg	15	56	22		0.2	Witwatersrand	
22	BHA	i	17	05	39	C	0.3	Distant?	
22	BUL	eSg	17	14	42		0.1	West Witwatersrand	
22	BUL	eSg	20	08	18		0.2	Witwatersrand	
22	BUL	iP	21	27	03	R	1.4	Distant	
		ePP		28	57				
		eS		34	48				
	BHA	eP		27	37		1.0		
		ePP		29	52				
23	BHA	i	02	54	31	C	0.3	Distant	
	BUL	i			43	R	1.0		

LIST OF RECORDED PHASES: 28 to 30 MAR 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	$\bar{C}$	mm	
28	BHA	iSg	14	10	01		2.1	
	BUL	eS		11	25		0.3	
		eL		12	37			
29	BUL	i	01	18	51	R	0.2	Distant
	BHA	i			52	R	0.2	
29	BHA	eL	01	51	51		0.2	
29	BUL	e	02	07	36		0.1	Distant
29	BUL	e	05	51	24		0.3	Distant
29	BUL	i	05	53	20	R	0.7	Distant
29	BHA	e	07	05	24		0.1	Distant
	BUL	i			40		0.2	
29	BHA	eSn	09	34	06		1.3	S of Lake Mweru?
		eSg			29			
	BUL	eS		37	25		0.2	
29	BHA	i	09	38	59	R	0.3	Distant
	BUL	i		39	07	R	0.2	
29	BUL	iPn	14	33	50		0.7	Witwatersrand
		iSn		35	00			
		iSg			32			
29	BUL	iPn	15	35	33		0.6	Witwatersrand
		iSn		36	43			
		iSg		37	14			
29	BUL	e	17	27	26		0.5	Distant
	BHA	e			37		0.1	
29	BHA	ePn	18	51	37		0.9	Extreme N Malawi?
		eSn		52	52			
		eSg		53	32			
	BUL	eS		54	37		0.3	
		eL		55	47			
29	BUL	i	20	56	15	R	0.1	Distant
	BHA	e			20		0.1	
30	BUL	i	02	20	28	R	7.5	Distant
		e		22	47			
		e		30	45			
	BHA	i		20	33	R	1.4	
		e		22	59			
		e		31	03			
30	BUL	ePn	05	36	45		0.3	Witwatersrand?
		eSn		37	53			
		iSg		38	27			
30	BUL	eSg	06	09	32		0.2	
30	BUL	eSn	08	47	52		0.2	
		iSg		48	13			
30	BUL	i	12	28	36		0.3	Distant
30	BUL	eSn	13	49	44		0.3	
		iSg		50	17			

LIST OF RECORDED PHASES: 30 to 31 MAR 1967 - 14

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
30	BUL	iPn	14	10	55	C	3.6	Witwatersrand?	
		eSg		12	28				
	BHA	iPn			11	R	0.5		
		iL		15	29				
	CLK	iPn		12	21		0.7	CLK times suspect	
		eSn		14	29				
		eSg		15	37				
30	BUL	eSg	14	19	55		0.2		
30	BUL	ePn	21	36	21		0.2	OFS Goldfields?	
		iSn		37	49				
		iSg		38	32				
30	BUL	e	23	24	09		0.2	Distant	
31	CLK	e	02	31	45		0.1	Distant	
	BUL	i			54	C	3.2		
	BHA	e		32	03		0.2		
31	CLK	eP	03	25	18		0.2	Distant	
	BHA	eP		25	21		0.2		
	BUL	eP		26	06		0.2		
31	BHA	eL	03	51	55		0.2		
	CLK	eL		52	53		0.2		
	BUL	eL		54	53		0.3		
31	BUL	eSn	12	55	28		0.2		
		eSg			52				
31	BUL	e	15	00	54		0.3	Distant?	
31	BUL	eSg	19	43	52		0.2		
31	BUL	i	20	24	08	C	1.6	Distant	
		e		25	55				
		e		27	22				
	BHA	i		24	15	C	1.0		
		e		27	26				





Epi. period AAT 691128  
VWS

April

22 AUG 1967

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

The following stations contribute records for analysis and publication in this Bulletin:

BROKEN HILL (BHA): 14° 26.8' S; 28° 28.1' E; Alt. 1206 m.  
Litho. foundation: Dolomite and shales of the Middle Katanga System.  
Authority: Zambia Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.

BULAWAYO (BUL): 20° 08.6' S; 28° 36.8' E; Alt. 1341 m.  
Litho. foundation: Hornblend schists of the Bulawayan System.  
Instruments: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.  
WSSS Station: SP magnification 100,000.  
LP magnification 1,500.

CHILEKA (CLK): 15° 40.8' S; 34° 58.6' E; Alt. 781 m.  
Litho. foundation: Charnockitic granulites of the Basement Complex.  
Authority: Malawi Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
P. O. Box 562, Bulawayo, Rhodesia.

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Date	G	M	T	Epicentre; Remarks	Mag CGS
	h	m	s		
	01	05 54	19	USCGS 45.8N 151.8E; Kurile Is.	5.7
	01	07 48	28	USCGS 45.9N 152.0E; Kurile Is.	5.0
	01	12 23	35	USCGS 45.7N 151.8E; Kurile Is.	5.9
	01	14 00	34	USCGS 45.8N 151.7E; Kurile Is.	5.4
	01	19 08	40	Lusaka area, Zambia	2.1
	01	23 21	12	USCGS 58.4N 154.9W; Alaska Peninsula	4.3
	02	17 40	38	USCGS 6.3S 148.8E; New Britain region	5.0
X	02	22 42	49	11.4S 34.7E; Central Lake Malawi	4.1
	03	08 04	15	USCGS 6.1S 151.5E; New Britain region	
	03	12 58	41	USCGS 20.2S 173.7W; Tonga Is.	5.3
	03	15 33	54	USCGS 52.4N 169.6W; Fox Is., Aleutians	4.4
X	04	02 49	01	26.4S 27.7E; Witwatersrand	3.0
X	04	02 53	55	26.4S 27.5E; Witwatersrand	3.1
X	04	13 43	06	26.7S 27.0E; W.Witwatersrand	(2.4)
*	04	16 59	04	USCGS 35.4N 23.6E; Crete	4.8
	04	18 28	26	USCGS 4.2S 152.9E; New Britain region	5.0
	05	02 34	11	USCGS 20.0N 147.1E; Mariana Is. region	5.9
	05	02 47	55	USCGS 20.0N 147.2E; Mariana Is. region	5.7
X	05	08 45	48	9.4S 40.7E; Offshore Lindi, Tanzania	3.9
	05	17 05	28	Kariba Area	2.2
X	05	18 51	01	26.4S 27.3E; W.Witwatersrand	2.3
	05	21 30	53	USCGS 17.6S 178.4W; Fiji Is. region	4.4
	05	22 57	06	USCGS 5.4S 102.4E; S.Sumatra	5.3
	05	23 33	06	USCGS 31.1S 178.2W; Kermadec Is.	5.2
X	06	02 56	01	26.4S 27.9E; Witwatersrand	3.0
X	06	08 46	13	1N 31E; Buganda	3.9
X	06	09 28	07	27.0S 26.6E; W.Witwatersrand	3.2
	06	12 01	07	USCGS 6.3S 148.8E; New Britain region	4.9
	06	12 21	57	USCGS 20.1N 147.2E; Mariana Is. region	5.7
	06	12 57	14	USCGS 30.1N 50.9E; Iran	5.4
X	06	15 43	18	26.3S 27.8E; Witwatersrand	2.7
	06	18 26	24	USCGS 61.0S 24.6W; S.Sandwich Is. region	5.4
X	06	19 07	32	26.4S 28.1E; Witwatersrand	2.9
	06	22 59	16	Witwatersrand	2.6
	07	05 51	51	USCGS 20.8S 68.1W; Chile-Bolivia Border region	4.5
	07	06 30	00	USCGS 52.8N 164.9W; S. of Alaska	4.5
X	07	08 45	07	17.8S 27.0E; S.Lake Kariba	2.6
X	07	09 55	29	26.3S 27.4E; Witwatersrand	2.4
	07	16 45	46	USCGS 48.8S 127.3E; S. of Australia	4.6
	07	17 07	16	USCGS 37.4N 36.1E; Turkey	4.8

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Date	G	M	T	Epicentre; Remarks	Mag CGS
	h	m	s		
07	18	33	31	USCGS 37.4N 36.2E; Turkey	5.0
08	00	22	28	Lake Rukwa Area	2.9
08	03	40	47	USCGS 56.2S 27.1W; S.Sandwich Is. region	5.1
08	05	35	17	USCGS 19.9S 178.6W; Fiji Is. region	5.3
X 08	10	58	18	26.3S 27.6E; Witwatersrand	2.9
X 08	10	59	33	26.3S 27.6E; Witwatersrand	2.5
X 08	15	02	59	26.4S 27.3E; Witwatersrand	(2.4)
08	22	50	05	Lake Rukwa Area	2.0
09	00	05	07	USCGS 4.0S 135.8E; W.New Guinea region	5.1
09	01	11	11	USCGS 4.0N 96.1E; N.Sumatra	5.0
09	01	27	58	USCGS 19.7S 178.0W; Fiji Is. region	4.5
09	05	58	20	USCGS 7.3S 155.9E; Solomon Is.	4.8
X 09	06	41	03	3.0S 32.5E; S. of Lake Victoria	3.7
09	08	57	00	USCGS 7.2S 155.8E; Solomon Is.	5.1
09	11	06	24	USCGS 37.4S 50.8E; Atlantic-Indian Rise	
09	17	41	56	USCGS 7.0S 129.7E; Banda Sea	5.3
09	21	18	37	USCGS 7.3S 155.7E; Solomon Is.	5.6
10	04	59	54	USCGS 7.4S 155.7E; Solomon Is.	5.5
10	07	42	54	S.Malawi	
10	15	02	42	USCGS 7.3S 155.8E; Solomon Is.	5.6
10	19	57	34	USCGS 58.6N 154.3W; Alaska Peninsula	5.5
10	21	07	47	USCGS 7.4S 155.7E; Solomon Is.	5.4
10	21	49	19	USCGS 7.3S 155.9E; Solomon Is.	5.3
10	22	17	49	Katavi Swamp, Tanzania?	3.2
11	03	09	32	USCGS 6.9N 97.1E; Nicobar Is. region	4.9
11	05	09	12	USCGS 3.3S 119.2E; Celebes	5.2
11	10	40	21	USCGS 23.2S 68.8W; Northern Chile	5.0
X 11	21	24	21	11.7S 42.1E; Comoro Is. area	4.0
11	22	46	34	USCGS 7.7S 155.8E; Solomon Is.	5.0
12	02	00	16	USCGS 3.1S 148.1E; Bismarck Sea	4.9
12	03	06	05	USCGS 53.0N 167.7W; Fox Is., Aleutians	4.4
12	04	31	45	USCGS 19.2S 168.9E; New Hebrides Is.	4.7
12	04	51	40	USCGS 5.3N 96.5E; N. Sumatra	6.1
X 12	04	55	50	5.3N 96.6E; N. Sumatra	
X 12	04	59	49	5.3N 96.6E; N. Sumatra	
X 12	05	01	33	5.3N 96.6E; N. Sumatra	
X 12	05	03	49	5.3N 96.6E; N. Sumatra	
X 12	05	04	26	5.3N 96.6E; N. Sumatra	
X 12	05	06	22	5.3N 96.6E; N. Sumatra	
X 12	05	07	16	5.3N 96.6E; N. Sumatra	

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
12	05	11	14	USCGS 5.5N 96.7E; N. Sumatra	5.7
X 12	05	18	05	5.3N 96.6E; N. Sumatra	
X 12	05	59	11	5.3N 96.6E; N. Sumatra	
X 12	06	02	21	5.3N 96.6E; N. Sumatra	
12	06	03	37	USCGS 5.3N 96.6E; N. Sumatra	5.1
X 12	06	36	36	13.0S 34.2E; Central Malawi	3.3
X 12	08	11	31	5.3N 96.6E; N. Sumatra	
X 12	09	35	30	5.3N 96.6E; N. Sumatra	
X 12	10	22	10	27.3S 16.0E; Tiras Plateau area, S.W. Africa	4.4
X 12	12	10	41	5.3N 96.6E; N. Sumatra	
12	13	46	05	USCGS 7.5S 155.8E; Solomon Is.	5.1
X 12	13	54	28	26.9S 26.6E; W. Witwatersrand	2.7
12	13	54	57	USCGS 7.3S 155.6E; Solomon Is.	5.2
12	14	51	49	USCGS 7.4S 155.7E; Solomon Is.	5.3
X 12	15	05	02	14.9S 22.8E; W. Barotseland	3.2
12	18	06	59	USCGS 8.3S 127.0E; Timor	4.4
X 12	18	47	39	5.3N 96.6E; N. Sumatra	
12	19	28	55	USCGS 14.4N 56.7E; Arabian Sea	4.7
12	19	33	47	USCGS 5.2N 96.7E; N. Sumatra	5.2
X 12	20	36	16	5.3N 96.6E; N. Sumatra	
12	21	22	09	USCGS 35.5S 73.3W; Off Coast of Central Chile	5.3
X 13	06	33	54	17.7S 27.0E; S. Kariba Lake	2.6
X 13	08	11	54	13.8S 26.0E; Busango Swamp, Zambia	2.6
13	08	25	44	USCGS 5.5N 96.6E; N. Sumatra	5.2
X 13	08	30	17	26.4S 28.1E; Witwatersrand	2.7
X 13	10	08	08	18.4S 27.0E; Wankie area, Rhodesia	2.0
X 13	13	40	54	28.2S 26.6E; O.F.S. Goldfields	3.2
X 13	13	50	24	26.3S 27.5E; Witwatersrand	2.5
13	14	19(10)		Witwatersrand	(2.3)
13	14	26	49	USCGS 7.0S 151.0W; Line Is. region	5.2
13	17	41	28	USCGS 27.9S 66.9W; Catamarca Province, Argentina	4.5
X 13	18	13	07	29.6S 29.1E; E. Lesotho Drakensberg	3.8
13	18	48	07	USCGS 34.2S 72.1W; Near coast, Central Chile	4.6
13	19	53	42	USCGS 27.3N 128.7E; Ryukyu Is.	6.0
13	19	59	52	USCGS 18.5N 100.2W; Guerrero Mexico	5.6
13	21	43	12	USCGS 14.5N 56.5E; Arabian Sea	4.1
X 14	05	27	37	11.9S 28.7E; Mzimba area, Malawi	2.8
X 14	12	05	18	5.3N 96.6E; N. Sumatra	
14	13	51	17	USCGS 22.8S 69.4E; Mid-Indian Rise	4.8
14	16	08(20)		Witwatersrand	2.7

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
X 14	16	22	20	26.4S 28.2E; F. Witwatersrand	3.0
X 14	17	33	57	26.4S 28.2E; F. Witwatersrand	2.4
14	18	58	20	USCGS 14.6N 56.5E; Arabian Sea	4.7
15	11	05	30)	Puwenzori Area Uganda	3.9
15	11	20	31	Broken Hill Area, Zambia	
X 15	13	57	24	17S 21E. S E Angola	2.6
X 16	01	30	59	4.7S 34.7E; Mt. Hanang Area, Tanzania	4.0
X 16	07	02	20	3S 36E; N. Tanzania Highlands	3.8
16	07	18	12	USCGS 19.4S 175.9E; S. Fiji Is.	5.3
16	09	55	01	USCGS 0.1N 17.3W; N. Ascencion Is.	4.8
16	10	10	07	USCGS 46.4N 153.3E; Kurile Is.	5.3
17	02	04	54	USCGS 56.0S 27.3W; S. Sandwich Is. region	4.8
17	11	18	19	USCGS 12.5S 166.3E; Santa Cruz Is.	4.9
X 17	18	13	25	13.1S 25.5E; Kasempa Area, Zambia	2.2
X 18	14	25	33	26.3S 27.6E; Witwatersrand	2.7
18	14	54	(00)	Witwatersrand	(2.6)
X 18	22	57	37	26.3S 28.0E; Witwatersrand	2.9
X 19	00	27	(40)	8S 33E; S. Highlands, Tanzania	3.0
X 19	03	22	30	26.2S 28.1E; Witwatersrand	2.7
X 19	06	10	34	26.4S 27.2E; Witwatersrand	3.2
X 19	13	25	00	16.6S 28.2E; Kariba	(4.1)
X 19	14	14	55	16.7S 28.2E; Kariba	2.7
X 19	15	07	30	16.7S 28.2E; Kariba	2.8
X 19	17	08	38	16.7S 28.1E; Kariba	2.2
X 19	18	06	42	16.5S 28.1E; Kariba	2.0
19	18	12	25	USCGS 52.7N 131.4W; Queen Charlotte Is.	4.6
20	00	01	25	USCGS 5.5S 129.7E; Banda Sea	5.7
X 20	01	42	42	17.1S 35.4E; Port Herald Area, Malawi	2.2
X 20	02	50	56	16.7S 28.2E. Kariba	5.5
20	04	07	57	USCGS 49.7N 78.1E; E. Kazakh, SSR	5.7
20	04	17	42	USCGS 41.1S 19.4W; S Atlantic Ridge	5.3
X 20	11	15	07	16.7S 28.2E; Kariba	2.8
20	14	09	20	Witwatersrand	2.4
X 21	01	33	08	26.4S 27.7E; Witwatersrand	2.9
X 21	04	02	14	16.6S 28.2E; Kariba	2.4
X 21	07	36	13	7.8S 30.5E; S. Lake Tanganyika	3.9
X 21	07	36	25	7.8S 30.5E; S. Lake Tanganyika	3.9
X 21	07	41	10	16.7S 28.2E; Kariba	3.0
21	08	14	25	USCGS 5.4S 126.9E; Banda Sea	6.3
X 21	08	26	48	16.6S 28.1E; Kariba	2.8

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Date	G	M	T	Epicentre; Remarks	Mag CGS
	h	m	s		
X 21	09	24	42	16.7S 28.1E; Kariba	2.2
21	16	28	38	USCGS 5.3N 96.8E; N. Sumatra	4.8
22	08	37	25	USCGS 5.6S 126.8E; Banda Sea	5.2
22	13	07	38	USCGS 5.1N 96.4E; N. Sumatra	5.4
X 22	14	05	30	16.8S 28.1E; Kariba	2.1
22	14	43	21	USCGS 8.3N 82.8W; Panama-Costa Rica Border	5.0
22	19	41	58	USCGS 7.0S 129.5E; Banda Sea	5.5
X 22	19	45	10	20.3S 33.2E; Manica Province, Mocambique	3.4
X 22	21	57	24	26.5S 27.3E; Witwatersrand	2.9
X 22	22	02	40	26.3S 27.8E; Witwatersrand	3.0
22	22	25	55	Port Herald Area, Malawi	2.2
23	09	30	22	USCGS 36.3N 2.4E; Algeria	4.8
23	15	01	07	USCGS 1.6N 80.2E; N. Indian Ocean	5.1
23	17	52	51	USCGS 13.5N 146.1E; S. of Mariana Is.	5.6
23	20	18	55	USCGS 25.0N 94.7E; Burma-India Border	4.8
23	22	51	37	N. Lake Tanganyika?	3.5
24	08	51	11	USCGS 37.4N 72.7E; Tadzhik, SSR	5.6
24	11	44	58	USCGS 24.0S 69.6E; Mid-Indian Rise	5.0
24	13	01	13	Central Lake Tanganyika	3.4
X 24	14	53	26	26.9S 26.6E; W. Witwatersrand	3.1
X 24	15	18	21	17.1S 27.7E; Kariba	2.0
24	16	33	13	USCGS 56.3S 26.9W; S. Sandwich Is. region	5.1
24	18	52	21	USCGS 6.1S 148.5E; New Britain region	5.1
X 24	20	43	10	23.6S 35.0E; Sul du Save Province, Mocambique	(2.8)
X 25	00	27	50	6S 31E; Sagara Swamp Area, Tanzania	3.4
25	06	57	49	USCGS 0.3S 121.9E; N. Celebes Is.	5.3
X 25	09	07	13	26.3S 28.2E; Witwatersrand	3.2
25	10	30	38	USCGS 43.3N 87.0E; N. Sinkiang Province, China	5.2
25	10	36	14	USCGS 32.9S 69.0W; Mendoza Province, Argentina	5.7
25	12	28	26	USCGS 15.9S 167.6E; New Hebrides Is.	4.6
X 25	14	38	09	26.4S 27.3E; Witwatersrand	3.5
25	15	24	26	USCGS 29.1S 178.2W; Kermadec Is. region	4.5
26	13	11	42	USCGS 1.3S 89.5E; S. Indian Ocean	5.1
26	13	41	07	Phalaborwa Area, Transvaal	(2.4)
X 27	07	42	17	16.5S 28.5E; Kariba	2.1
X 27	10	25	16	14.5S 14.0E; Sa da Bandeira Area, Mocambique	4.0
27	14	01	53	Busango Swamp ?	
27	14	25	48	Witwatersrand	2.9
X 27	16	19	24	17.5S 35.0E; Zambesi-Shire confluence	3.4
27	23	15	19	USCGS 41.7N 82.3E; S. Sinkiang Province, China	5.0

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
X 27	23	30	29	12.6S 41.0E; Offshore Porto Amelia	4.6
X 28	00	17	34	12.8S 40.7E; Offshore Porto Amelia	3.1
X 28	01	26	43	12.5S 41.1E; Offshore Porto Amelia	3.2
28	07	31	32	USCGS 37.1S 52.2E; S. Indian Ocean	
X 28	12	06	57	26.3S 27.7E; Witwatersrand	2.8
X 28	15	31	49	26.3S 27.7E; Witwatersrand	3.1
28	15	31	(50)	Witwatersrand	
28	16	14	11	USCGS 5.3N 96.7E; N. Sumatra	5.1
28	19	38	29	USCGS 28.5N 57.5E; S. Iran	4.8
29	00	04	42	USCGS 51.2N 130.4W; Queen Charlotte Is.	5.1
29	03	55	20	USCGS 51.4N 178.3W; Andreanof Is., Aleutian Is.	6.0
X 29	04	24	27	19.8S 32.8E; Manica Province, Mocambique	2.0
29	07	21	48	USCGS 38.2S 48.6E; Atlantic-Indian Rise	4.6
29	12	25	32	USCGS 51.5N 178.2W; Andreanof Is., Aleutian Is.	5.3
29	12	31	09	USCGS 15.6S 173.8W; Tonga Is	4.6
29	14	46	43	Off Port Amelia	3.0
X 30	09	41	02	13.4S 26.4E; Kasempa Area, Zambia	3.0
X 30	20	19	36	8.3S 29.0E; Lake Mweru Area,	3.0
30	23	06	16	USCGS 6.2S 154.2E; Solomon Is.	4.7
X* 04	15	06	56	26.4S 27.2E; W. Witwatersrand	3.0

LIST OF RECORDED PHASES: 01 to 04, APR 1967 - 1

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region,	Remarks
01	BHA	e	06	13	13		0.2	Distant	
		e		15	04				
		e		17	44				
	BUL	e		13	19		0.3		
		e		15	19				
		e		18	05				
01	BUL	e	08	07	42		0.2		
01	BHA	e	12	42	29		0.5	Distant	
		i		44	10				
	BUL	i		42	36	C	0.7		
		i		44	30				
01	BUL	eSg	13	11	26		0.2		
01	BUL	i	14	01	40	C	0.2	Distant	
01	BUL	i	14	19	37	R	0.1	Distant	
01	BHA	iP	19	08	58		5.	Lusaka Area, Zambia	
		iS		09	10				
	BUL	eSg		11	08		0.2		
01	BHA	e	23	40	25		0.2	Distant	
		e		43	47				
	BUL	e		40	28		0.2		
		e		44	04				
02	BHA	i	16	37	26	C	0.5	Distant?	
02	BUL	e	17	59	18		0.3	Distant	
		e			24		0.2		
02	BHA	iPn	22	44	29	C	7.6	N. Lake Malawi?	
		eSn		45	42				
		eSg		46	19				
	BUL	ePn		45	19		1.0		
		eSn		47	08				
		eSg		48	13				
		eL			22				
03	BUL	eSg	07	15	28		0.3		
03	BUL	i	08	23	05	R	0.7	Distant	
		e			07		0.5		
03	BHA	e	13	17	55		0.3	Distant	
		e		18	00		0.2		
03	BUL	eSg	13	32	50		0.2		
03	BUL	i	15	53	27		0.2	Distant	
04	BUL	eSn	02	51	41		0.6		
		iSg		52	12				
04	BUL	iPn	02	55	28	R	0.7	Witwatersrand	
		iSn		56	35				
		eSg		57	09				
		e(L)			37				
04	BUL	eSg	13	46	30		0.2		
04	BUL	eFn	15	08	29		0.5	Witwatersrand	
		eSn		09	39				
		iSg		10	10				
04	BHA	e	17	08	19		0.1	Distant	
		e			43		0.2		



LIST OF RECORDED PHASES: 04 to 06 APR 1967 - 2

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region,	Remarks
04	BUL	i	18	47	13	R	0.2	Distant	
	BHA	i			17	R	0.2		
05	CLK	iP'	02	52	51	R	0.2	Distant	
	BHA	iP'		53	03	R	0.3		
	BUL	iP'			04	R	0.8		
05	BHA	e	03	06	47		0.1	Distant	
	BUL	i			48	R	0.4		
05	CLK	ePn	08	47	48			Offshore Lindi, Tanzania	
		eSn		49	15				
	BHA	iP		48	50	R	0.8		
		iS		51	06				
		eL		52	37				
	BUL	eP		49	27		0.3		
		eS		52	12				
		eL		54	03				
05	BUL	eP	14	00	51		0.4	Distant	
	BHA	iP		01	37		0.3		
05	BHA	eS	14	39	04		0.9		
		eL		40	09				
	BUL	eL		43	50		0.1		
05	BUL	i	15	51	00	R	0.2	Distant	
05	BHA	iPn	17	05	56		4.4	Kariba Area	
		iSn		06	17				
		iSg			20				
	BUL	ePn		06	32		0.3		
		ePg			44				
		eSn		07	16				
		eSg			37				
05	BUL	eSn	18	53	42		0.2	Witwatersrand?	
		eSg		54	13				
05	BHA	i	21	49	10	C	0.2	Distant	
	BUL	e			10		0.2		
05	BHA	e	23	08	35		0.1	Distant	
	BUL	e			45		0.2		
05	BUL	i	23	51	56	R	0.6	Distant	
		i		52	01				
	BHA	i			07	R	0.5		
		i			12				
06	BUL	e	02	57	51		0.6		
		eSn		58	42				
		eSg		59	09				
	BHA	eL	03	02	05		0.2		
06	BHA	ePn	03	56	19		0.5		
		eSn		57	06				
		eSg			27				
06	BHA	eS	08	52	40		0.6	Buganda	
		eL		54	31				
	CLK	eL		55	13		0.3		
	BUL	eL		57	24		0.2		

LIST OF RECORDED PHASES: 06 to 08 APR 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks	
			h	m	s	C	mm		
06	BUL	iPn	09	29	50		0.7	West Witwatersrand	
		eSn		31	05				
		iSg			43				
	BHA	eP			04		0.2		
		eS		33	20				
	CLK	eL		34	42				
				35	09		0.2		
06	BUL	e	12	19	47		0.4	Distant	
	BHA	e			51		0.3		
06	BHA	e	12	40	52		0.1	Distant	
	BUL	i			53	R	0.4		
06	CLK	iP	13	05	53	C	2.1	Distant	
	BHA	iP		06	03	R	2.7		
	BUL	eP			40		2.2		
06	BUL	eSg	15	46	27		0.3		
06	BHA	eSn	16	19	02		1.1		
		eSg			46				
	CLK	eL		21	(50)		0.2		
	BUL	eL		22	48		0.2		
06	BUL	e	18	35	55		0.3	Distant	
06	BUL	eSg	19	10	42		0.4		
06	BUL	eSg	23	02	27		0.2		
07	BUL	i	06	04	27	R	0.2	Distant	
07	BUL	e	06	49	39		0.2	Distant	
07	BUL	eP	08	45	52		2.1	S Lake Kariba	
		ePg			55				
		eSn		46	20				
		eS*			25				
		eSg			29				
	BHA	iPn			03		1.7		
		ePg			14				
		eSn			45				
			eSg			59			
	CLK	eSn		48	29		0.2		
		eSg			49	07			
07	BUL	eSg	09	58	39		0.2		
07	BHA	eP	11	53	40		0.2	Distant	
	BUL	eP		54	16		0.2		
07	BUL	eSg	13	07	31		0.2		
07	CLK	iP'	16	57	54	R	0.2		
	BUL	iP'			57	R	0.3		
	BHA	eP'		58	01		0.1		
07	BHA	eP	17	16	29		0.1	Distant	
	BUL	eP		17	05		0.3		
07	BHA	eP	18	42	40		0.1	Distant	
	CLK	eP			46		0.2		
	BUL	iP		43	20	C	0.6		
08	BHA	iSn	00	25	35		0.8	Lake Rukwa area	
		eSg		26	16				
	CLK	eSg			36		0.2		
	BUL	eL		28	55		0.1		
08	BUL	e	03	50	13		0.2		

LIST OF RECORDED PHASES: 08 to 09 APR 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
08	BUL	eP'	05	53	09		0.1	Distant	
		ipP'			23				
		i		55	57				
	BHA	eP'	53	21			0.1		
		ipP'			35				
		i		56	11				
	CLK	ipP'	53	24			0.2		
		e	55	54					
08	BUL	eSn	09	34	02		0.3		
		eSg			22				
08	BHA	e	09	43	00		0.2	Distant	
	BUL	ei			01	cR	0.4		
08	BUL	ePn	10	59	50		0.3	Witwatersrand?	
		eSn	11	00	54				
		eSg		01	28				
08	BUL	ePn	11	01	08		0.2	Witwatersrand?	
		eSn		02	(10)				
		eSg			43				
08	BUL	eSg	15	06	13		0.2		
08	BUL	i	17	54	32	C	0.2	Distant	
08	BUL	i	21	25	42	R	0.2	Distant	
08	BHA	iSn	22	53	09		0.5	Lake Rukwa area	
		iSg			40				
	BUL	eL		56	39		0.1		
09	CLK	eP	00	18	53		0.2	Distant	
	BUL	iP		19	19	R	0.2		
	BHA	eP			22		0.1		
09	BHA	i	01	22	19	R	2.2	Distant	
		e			35				
	BUL	i			24	R	0.2		
09	CLK	eP'	01	49	13		0.2	Distant	
	BUL	iP'			14	C	0.2		
	BHA	eP'			29		0.1		
09	BUL	e	06	17	11		0.2	Distant?	
09	BHA	eP	06	46	52		0.9	S of Lake Victoria	
		eS		48	54				
		eL		50	20				
	CLK	eP		47	04		0.4		
		eL		50	43				
	BUL	eL		53	05		0.2		
09	CLK	e	06	50	58		0.5	Distant	
	BUL	i		51	00	R	0.4		
09	BUL	i	09	15	43	R	0.2	Distant	
		i			51				
	BHA	i			55	R	0.2		
09	CLK	iP	11	11	55	R	0.2	Distant	
	BUL	iP			56	C	0.2		
	BHA	iP		12	33	C	0.3		
09	CLK	iP	17	54	55	R	0.7	Distant	
	BUL	iP		55	20	R	0.3		
	BHA	iP			24	R	0.2		
09	BUL	i	21	37	27	R	0.5	Distant	
	BHA	e			31		0.1		

LIST OF RECORDED PHASES: 10 to 11 APR 1967 - 5

Date	Stn	Phase	G M T h m s	R C	DA mm	Epicentral region,	Remarks
10	BHA	i	02 40 36	R	0.2	Distant	
		i	50				
	BUL	i	47	R	0.7		
		i	41 01				
10	BUL	e	05 18 46		0.6	Distant	
10	BUL	e	05 28 47		0.2	Distant	
		e	29 54				
10	CLK	ePn	07 43 21		2.7	S. Malawi	
		ePg	23				
		iSn	40				
		iSg	42				
10	BUL	iSg	12 11 40		0.2		
10	CLK	eP'	15 21 28		0.2	Distant	
	BUL	eP'	34		0.7		
		ePP	23 09				
		eSKP	25 03				
		iPKKP	31 36				
	BHA	eP'	21 39		0.3		
		ePP	23 26				
10	BUL	eL	17 01 14		0.1		
10	BHA	e	20 16 35		0.3	Distant	
		iP'	48	C			
		eSKP	20 13				
	CLK	iP'	16 49	C	0.8		
		iSKP	20 14				
	BUL	iP'	16 52	cR	1.4		
		iPKS	20 27				
10	BHA	e	21 26 25		0.1	Distant	
	BUL	e	32		0.3		
10	CLK	eP'	22 08 04		0.2	Distant	
	BUL	eP'	11		0.5		
	BHA	eP'	16		0.1		
10	BHA	eSn	22 19 46		0.5	Katavi Swamp, Tanzania?	
		eSn	21 07				
		iSg	53				
	BUL	eL	24 51		0.2		
10	BUL	eSg	23 56 35		0.2		
11	CLK	i	03 20 14	R	0.3	Distant	
	BHA	i	28	C	0.6	Double Shock?	
		i	51				
	BUL	e	34		0.2		
		e	57				
11	BUL	eSg	05 21 40		0.2		
11	CLK	iP	05 21 41	R	0.3	Distant	
	BUL	iP	22 10	R	0.7		
11	BUL	i	10 53 07	C	0.6	Distant	
		e	33				
	BHA	e	20		0.2		
		e	45				
11	BUL	eSg	13 14 26		0.1		

LIST OF RECORDED PHASES: 11 to 12 APR 1967 - 6

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region,	Remarks
11	CLK	ePn	21	26	14.		3.8	Comoro Is. Area	
		eSn		27	35				
		eSg		28	20				
	BHA	eP		27	30		0.8		
		eS		29	53				
		e(T)		31	00				
	BUL	iL			24.				
eF			27	57		0.3			
eS			30	41					
e(T)			31	20					
		eL		32	15				
11	BHA	i	21	41	45	R	0.3	Distant	
11	BUL	e	23	05	25		0.2		
12	BHA	eSn	01	34	55		0.6		
		eSg		35	37				
	BUL	eL		38	24		0.1		
12	BUL	i	02	19	01	R	0.3	Distant	
	BHA	e			04		0.1		
12	BUL	i	03	25	38	R	0.4	Distant	
12	BUL	i	04	50	23	R	0.4	Distant	
		i		51	05				
		e		53	47				
	BHA	e		50	32		0.2		
		e		51	14				
		e		53	40				
12	BHA	iP	05	02	51	C		Distant	
		eS		12	00				
	BUL	iP		02	57	C	6.0		
		eS		12	13				
12	BHA	iP	05	07	03		2.0	Distant	
	BUL	iP			10	C	0.8	Aftershock	
12	BHA	iP	05	11	02	C	0.7	Distant	
	BUL	eP			14		0.2	Aftershock	
12	BHA	iP	05	12	46	R	0.3	Distant, Aftershock	
12	BHA	iP	05	15	02	C	0.9	Distant	
	BUL	iP			10	C	0.2	Aftershock	
12	BHA	iP	05	15	39	R	1.3	Distant	
	BUL	eP			46		0.2	Aftershock	
12	BHA	iP	05	17	35	C	0.4	Distant, Aftershock	
	BHA	iP	05	18	29	C	0.4	Distant, Aftershock	
12	BHA	iP	05	22	27	C		Distant	
		eS		31	(00)			Aftershock	
	BUL	iP		22	34	C	2.1		
eS			31	(00)					
12	BHA	iP	05	29	18	C	4.	Distant	
		eS		38	(10)			Aftershock	
	BUL	iP		29	24	C	0.7		
eS			38	(20)					
12	BHA	iP	06	10	24	C	1.5	Distant	
	BUL	iP			30	C	0.3	Aftershock	
12	BHA	iP	06	13	34	R	0.3	Distant, Aftershock	

LIST OF RECORDED PHASES: 12 to 12 APR 1967 - 7

Date	Stn	Phase	G	M	T	R	DA	Epicentral region,	Remarks
			h	m	s	C	mm		
12	BHA	iP	06	14	50	C	3.2	Distant	
	BUL	iP			56	C	0.4	Aftershock	
12	CLK	eP	06	37	19			Central Malawi	
	BHA	ePn		38	02		1.9		
		eSn		39	02				
		eSg			32				
	BUL	eP		38	40		0.5		
		eS		40	15				
		eL		41	15				
12	BHA	eP	08	22	44		0.7	Distant	
	BUL	eP			50		0.1	Aftershock	
12	BHA	iP	09	46	43	C	0.9	Distant	
	BUL	iP			49	C	0.2	Aftershock	
12	BUL	eP	10	25	20		2.3	Tiras Plateau Area, South West Africa	
		eS		27	40				
		iL		29	12				
	BHA	eP		26	11		0.9		
		eS		29	03				
		eL		31	07				
	CLK	eP		26	59				
		eS		30	37				
		eL		33	(10)				
12	BUL	eSg	11	25	21		0.3		
12	BHA	iP	12	21	54	C	1.7	Distant	
	BUL	eP		22	01		0.3	Aftershock	
12	BUL	eL	13	13	21		0.2		
12	BUL	ePn	13	56	10		0.2	W. Witwatersrand?	
		eSn		57	25				
		iSg			59				
12	BUL	i	14	04	55	R	0.3	Distant	
	BHA	e			59		0.1		
12	BUL	e	14	13	47		0.9	Distant	
	BHA	e			51		0.2		
12	BUL	e	14	23	21		0.2		
12	BHA	ePn	15	06	20		1.7	W. Barotseland	
		eSn		07	15				
		eSg			46				
	BUL	ePn		06	50		0.9		
		eSn		08	10				
		eSg			53				
	CLK	eSg		10	54		0.2		
12	BHA	e	15	10	24		0.2	Distant	
	BUL	i			43	R	0.6		
12	BUL	i	18	20	23	R	0.3	Distant	
	BHA	e			30		0.1		
12	BHA	iP	18	58	52	C	0.5	Distant	
	BUL	eP			58		0.1	Aftershock	
12	BUL	eSg	19	32	47		0.1		
12	BHA	eP	19	36	28		0.1	Distant	
	BUL	eP		37	01		0.5		
12	BHA	iP	19	44	58	C	7.3	Distant	
	BUL	iP		45	05	C	1.4	Aftershock	

LIST OF RECORDED PHASES: 12 to 13 APR 1967 - 8

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region,	Remarks
12	BHA	iP	20	47	29	C	0.7	Distant	
	BUL	eP			36		0.2	Aftershock	
12	BUL	i	21	35	00	C	1.1	Distant	
	BHA	i			16	C	0.6		
13	BUL	ePn	06	34	39		2.8	S. Kariba Lake	
		iPg			43				
		eSn			35	10			
		iSg			19				
	BHA	ePn		34	48		1.6		
		ePg		35	00				
		eSn			30				
13	CLK	eSg			41				
	CLK	e		37	54				
	BHA	ePn	08	12	32		2.9	Busango Swamp	Zambia
		eSn		13	00				
13	BUL	eSg			07				
	BUL	ePn			32		0.3		
		eSn		14	43				
13		eSg		15	20				
	CLK	eSg		16	23				
	BUL	eSg	08	33	29		0.3		
13	BHA	iP	08	36	53	C	5.7	Distant	
	BUL	iP		37	00	C	1.0	Aftershock	
13	BHA	i	09	29	22	G	0.2	Distant,	Aftershock?
13	BUL	ePn	10	08	43		0.8	Wankie Area,	Rhodesia
		eSn		09	08				
		eSg			14				
	BHA	eSn			58		0.3		
13		eSg		10	13				
	BHA	iP	12	34	32	R	0.3	Distant,	Aftershock
13	BUL	ePn	13	42	54		0.6	W. Orange Free State	Goldfields
		eSn		44	23				
		eSg		45	08				
	BHA	eL		48	03		0.2		
13	CLK	eL			(30)		0.1		
	BHA	iP	13	45	20	R	0.4	Distant,	Aftershock
13	BUL	eSg	13	53	31		0.2		
13	BHA	iP	14	00	31	C	0.9	Distant	
	BUL	iP			38	R	0.2	Aftershock	
13	BUL	eSg	14	22	27		0.2		
13	BUL	e	14	46	48		0.2	Distant	
	BHA	e		47	24		0.2		
13	BUL	e	17	34	33		0.3	Distant	
	BHA	e			43		0.1		
13	BUL	i	17	53	50	R	2.4	Distant	
	BHA	i		54	03	R	0.7		
13	BUL	iP	18	15	29	R	1.2	W. Lesotho	Drakensberg
		eS		17	03				
		eL			59				
	BHA	iP		16	43		0.3		
		eS		19	16				
	CLK	eL		20	58				
			21	06		0.3			

LIST OF RECORDED PHASES: 13 to 15 APR 1967 - 9

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
13	BHA	i	18	15	55	R	0.3	Distant	
13	BUL	e	19	00	49		0.1	Distant	
		i		00	20				
	BHA	e		01	05		0.1		
13	BUL	eSg	20	01	19		0.3		
13	BHA	i	20	07	49	R	0.1	Distant	
	BUL	i			59	R	0.3		
13	BHA	i	20	18	53	R	0.3	Distant	
	BUL	i			55	R	0.3		
13	BHA	eP	21	50	47		0.1	Distant	
	BUL	iP		51	18	C	0.2		
14	BUL	i	03	46	47	R	0.2	Distant	
14	BUL	e	05	12	14		0.2	Distant	
14	BHA	ePn	05	29	00		0.6	Mzimba area, Malawi	
		eSn		30	01				
		eSg			28				
	CLK	eSg		29	36				
	BUL	eSn		31	34		0.2		
		eSg		32	28				
14	BHA	i	11	01	11	R	0.3	Distant	
14	BHA	iP	12	16	31	C	2.9	Distant	
	BUL	iP			38	C	0.3	Aftershock	
14	CLK	eP	13	57	53		0.3	Distant	
	BUL	eP		58	34		0.2		
	BHA	eP			46		0.2		
14	BHA	e	14	46	21		0.2	Distant	
14	BUL	eSg	16	11	32		0.3		
14	BUL	eSg	16	25	30		0.6		
14	BUL	eSg	17	37	07		0.2		
14	BUL	e	19	06	27		0.2	Distant	
15	CLK	iP	00	31	02	C	0.2	Distant	
	BHA	iP			30	C	0.4		
	BUL	iP			46	C	0.3		
15	CLK	eSg	03	40	08		0.6		
15	BUL	e	11	10	19		0.2		
15	BHA	eL	11	13	36		0.4	Ruwenzori area, Uganda	
	CLK	eL		14	33		0.4		
	BUL	eL		16	34		0.2		
15	BHA	iPg	11	20	38		8.	Broken Hill area	
		iSg			43				
		iSn			48				
15	BHA	iPn	13	59	11		0.2	SE Angola	
		iSn	14	00	29				
		eSg		01	08				
	BUL	eSn		00	39		0.2		
		eSg		01	20				
15	BHA	i	19	55	21	C	0.3	Distant	



LIST OF RECORDED PHASES: 16 to 18 APR 1967 - 10

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks	
16	BHA	eP	01	33	41		2.3	Mt. Hanang area, Tanzania	
		eS		35	43				
		iL		36	57				
	BUL	eP		34	49		0.3		
		eL		39	35				
	CLK	eSn		35	31		1.1		
eSg			36	34					
eL				44					
16	BUL	eP	02	03	24		0.2	Distant	
	BHA	eP		04	06				0.1
16	BUL	eSn	06	05	52		0.4		
		eSg		06	10				
16	CLK	eS	07	07	28		0.7	N. Tanzania Highlands	
		eL		09	20				
	BHA	eS		07	48		0.6		
		eL		09	20				
	BUL	eL		11	57		0.2		
	16	BUL	e	07	37	16			0.2
16	BHA	e	10	03	40		0.1	Distant	
	BUL	e			48				0.2
16	CLK	eP'	10	28	59		0.3	Distant	
	BHA	eP'		29	05				0.2
	BUL	iP'			13	R			0.4
16	BHA	iP	10	32	41	C	1.1	Distant, Aftershock?	
16	BHA	iP	14	27	23	C	0.7	Distant	
	BUL	eP			29				0.1
16	BUL	i	20	47	27	C	0.3	Distant	
	BHA	i			31				0.1
17	BUL	iP	02	14	21	R	0.6	Distant	
	BHA	eP			54				0.3
17	BUL	eSg	11	02	39		0.3		
17	BUL	i	11	37	22	C	0.4	Distant	
	BHA	e			28				0.1
17	BHA	ePn	18	14	12		0.7	Kasempa area, Zambia	
		iSg			57				
	BUL	eS		16	33				0.1
		eL		17	22				
18	BUL	iP	06	53	39	R	0.2	Distant	
	CLK	iP		54	26	R			0.2
18	BUL	e(Sg)	13	06	09		0.2		
18	BUL	eSn	14	28	09		0.3		
		eSg			39				
18	BUL	eSn	14	56	34		0.3		
		eSg		57	05				
18	BHA	ePn	21	33	02		1.0		
		eSn			36				
		iSg			45				
18	BUL	ePn	22	59	08		0.5	Witwatersrand	
		eSn		23	00	13			
		eSg				42			
	BHA	eL		03	43		0.1		

LIST OF RECORDED PHASES: 19 to 19 APR 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
19	CLK	eL	00	31	55		0.2	S. Highlands, Tanzania
	BHA	eL		32	02		0.5	
	BUL	eL		34	44		0.1	
19	BUL	eSn	03	25	03		0.3	Witwatersrand
	BHA	eL		28	39		0.1	
19	BUL	iPn	06	12	06		1.2	Witwatersrand
		iSn		13	15			
		iSg			47			
	BHA	eP		13	22		0.2	
		eS		15	30			
		eL		16	47			
	CLK	eL		17	02		0.2	
19	BUL	iP	07	26	25	R	2.3	Distant
	BHA	iP			51	R	1.4	
19	BHA	ePn	13	25	37			Kariba
		ePg			40			
		eSg		26	06			
	BUL	ePn		25	53			
		ePg		26	03			
		eSn			32			
		eSg			43			
	CLK	ePn			35		5.3	
		eSn		27	44			
		eSg		28	20			
19	BHA	ePn	14	15	32		4.6	Kariba
		ePg			37			
		eSn		16	00			
		eSg			05			
	BUL	ePn		15	50		1.8	
		ePg			58			
		eSn		16	28			
		eSg			39			
	CLK	eSn		17	41		0.6	
		eSg		18	14			
19	BHA	ePn	15	08	07		3.2	Kariba
		ePg			11			
		eSg			42			
	BUL	ePn			25		2.0	
		ePg			33			
		eSn		09	00			
		eSg			16			
	CLK	eSn		10	16		0.6	
		eSg			50			
	19	BHA	ePn	17	09	14		
		ePg			19			
		eSn			42			
		eSg			48			
BUL		ePn			31		0.5	
		ePg			41			
		iSn		10	11			
		eSg			25			
CLK		eSg		12	00		0.2	
19		BHA	ePg	18	07	22		1.2
		iSg			48			
	BUL	ePg			50		0.3	
		eSg		08	34			
	CLK	eSg		10	02		0.1	

LIST OF RECORDED PHASES: 19 to 21 APR 1967 - 12

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
19	BUL	i e	18	31	53 35 29	R	0.4	Distant	
20	BHA	i	00	01	34	R	0.3	Distant	
20	CLK	eP	00	14	22		0.2	Distant	
	BUL	iP			46	R	0.2		
	BHA	eP			54		0.1		
20	BHA	e	00	31	15		0.1	Distant	
	BUL	i			17	R	0.2		
	CLK	i			32	R	0.2		
20	CLK	iPg iSg	01	43	09 28		2.9	Port Herald area, Malawi	
	BUL	eSg		46	18		0.1		
	BHA	eSg			27		0.1		
20	BHA	iPn	02	51	34	R		Kariba	
	BUL	iPn			51	C			
		ePg			52 00				
	CLK	ePn			31		10.0		
		eSn			53 44				
		eSg			54 19				
20	CLK	iP	04	19	45	C	0.3	Distant	
	BHA	iP			56	C	0.6		
	BUL	iP		20	22	C	0.6		
20	BUL	eP	04	26	00		0.4	Distant	
	BHA	iP			30	C	0.2		
	CLK	eP		26	58		0.2		
20	BUL	eSg	04	26(00)			0.2		
20	BHA	eP	11	15	43		5.2	Kariba	
		iPg			45				
		iSg		16	13				
	BUL	eP			04		2.3		
		iPg			10				
		eSn			40				
		eSg			51				
	CLK	eSn		17	52		0.5		
		eSg			18 29				
20	BUL	eSg	14	12	20		0.2		
20	BHA	eP	22	54	28		0.3		
		eS			56 54				
		eL			58 29				
21	BUL	eSn	01	35	50		0.4		
		eSg			36 20				
21	BHA	eP	14	02	50		3.3	Kariba	
		ePg			53				
		eSn		03	15				
		eSg			21				
	BUL	ePn			06		1.1		
		ePg			16				
		eSn			46				
		eSg			59				
	CLK	eSg		05	36		0.2		

LIST OF RECORDED PHASES: 21 to 21 APR 1967 - 13

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
21	BUL	iSn	07	38	54		0.4	Witwatersrand?	
		eSg		39	27				
21	BHA	iPn	07	37	53		6.	S. Lake Tanganyika	
		eSn		39	07				
		eL			49				
	CLK	i'n		38	22		1.0		
		eSn		39	56				
	BUL	ePn		39	07				
eSn			41	15					
21	BHA	iPn	07	38	05		6.	S. Lake Tanganyika	
		eSn		39	18				
		eL		40	01				
	CLK	iPn		38	32		1.1		
		eSn		40	08				
	BUL	iPn		39	19				
iSn			41	28					
21	BHA	iPn	07	41	48		7.5	Kariba	
		iPg			52				
		eSn		42	16				
	BUL	iPg			13		3.3		
		iSn			44				
	CLK	eSg			57				
eSn			43	56		0.9			
		eSg		44	31				
21	BHA	ePn	08	27	24		4.4	Kariba	
		ePg			29				
		eSn			52				
	BUL	ePg			57		2.3		
		eIn			43				
		ePg			52				
CLK	eSn		28	22					
	ePg			35					
		eSg		30	12		0.3		
21	CLK	eP	08	27	25		0.2	Distant	
		ipP			32				
	BUL	ePP		30	57		0.3		
		eP		27	51				
	BHA	ipP			57				
		ePP		31	46				
		ePP		53					
21	BHA	eL	08	33	53		0.2		
	CLK	eL		34	13		0.3		
	BUL	eL		37	05		0.1		
21	BHA	ePn	09	25	18		1.8	Kariba	
		ePg			22				
		eSn			45				
	BUL	eSg			50		0.4		
		ePn			34				
	CLK	ipg			42				
iSn			26	13					
eSg				26					
		eSg		28	05		0.2		

LIST OF RECORDED PHASES: 21 to 22 APR 1967 - 14

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
21	CLK	eSg	13	22	21		0.3		
	BHA	eSg		23	27		0.4		
	BUL	eL		25	35		0.2		
21	CLK	iP	16	39	12	C	0.6	Distant	
	BHA	iP			47	C	5.0		
	BUL	iP			54	C	0.9		
22	BHA	iP	04	17	23	C	1.1	Distant	
		ipP			32				
	BUL	iP			30	R	0.3		
		epP			39				
22	CLK	iP	08	50	26	C	0.4	Distant	
		i		51	05				
		ePP		54	00				
	BUL	iP		50	51	C	0.4		
		ePP		54	42				
	BHA	iP		50	55	C	0.4		
		ePP		54	49				
22	CLK	iP	13	18	13	C	1.7	Distant	
	BHA	iP			50	C	6.		
	BUL	iP			57	C	2.8		
22	BHA	ePn	14	06	08		1.4	Kariba	
		iPg			12				
		eSn			34				
		iSg			39				
	BUL	ePg			32		0.3		
		iSn		07	00				
		eSg			18				
22	BHA	eP'	15	01	56		0.1	Distant	
	BUL	eP'			58		0.1		
	CLK	eP'		02	09		0.2		
22	BUL	i	16	00	55	C	0.2	Distant	
22	BUL	e	17	31	36		0.3	Distant	
		i			46				
	BHA	e			45		0.2		
22	BUL	ePn	19	46	22		3.9	Melsetter area, Rhodesia	
		ePg			33				
		eSn		47	05				
		eSg			25				
	BHA	ePn			00		2.1		
		eSn		48	19				
		eSg		49	01				
	CLK	eSn		47	18		1.6		
		eSg			40				
22	CLK	eP	19	55	02		0.4	Distant	
	BUL	iP			26		0.3		
	BHA	eP			30		0.1		
22	BUL	ePn	21	58	59		0.4	Witwatersrand	
		eSn	22	00	09				
		eSg			41				
22	BUL	ePn	22	04	08		0.6	Witwatersrand	
		eSn		05	06				
		eSg			42				
	BHA	eL		08	47		0.2		

LIST OF RECORDED PHASES: 22 to 24 APR 1967 - 15

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
22	CLK	iPg	22	26	12		2.2	Port Herald area, Malawi
		iSg			32			
	BUL	eSg		29	09		0.2	
23	BHA	iP	09	40	01	C	0.2	Distant
	CLK	iP			28	C	0.2	
	BUL	iP			37	C	0.3	
23	CLK	eP	15	09	44		0.2	Distant
		ipP			57			
	BHA	iP		10	27	C	0.6	
	BUL	ipP			40			
		iP			37	C	0.2	
		ipP			50			
23	BHA	e	18	11	38		0.1	Distant
	BUL	i			39	C	0.2	
23	BHA	i	20	30	33	C	0.7	Distant
	BUL	i			49	C	0.3	
23	BHA	eP	22	53	55		0.7	N. Lake Tanganyika?
		eS			55	37		
		iL			56	40		
	BUL	eL			59(50)		0.2	
24	BUL	i	02	21	55		0.2	Distant
	BHA	e			57		0.2	
24	BUL	i	08	25	08	R	0.7	Distant
	BHA	e			24		0.2	
24	CLK	eP	09	01	40		0.2	Distant
	BHA	eP		02	02		0.1	
	BUL	eP			23		0.2	
24	CLK	iP	11	51	36	C	0.4	Distant
		ipP			43			
	BUL	iP		52	15	C	0.3	
		ipP			21			
	BHA	iP			29	C	0.3	
		ipP			36			
24	BHA	ePn	13	03	15		0.8	Central Lake Tanganyika
		eSn		04	38			
		eSg		05	25			
	CLK	eSg		06	39		0.4	
	BUL	eL		08	27		0.2	
24	BUL	eSg	14	42	46		0.1	
24	BUL	eSg	14	55	05		0.2	
24	BHA	ePn	15	19	04		0.8	Kariba
		ePg			09			
		eSg			45			
	BUL	ePn			10		0.5	
		ePg			18			
	eSg			59				
24	BUL	eiP	16	42	30	rC	0.9	Distant
	BHA	eiP		43	04	rC	0.8	
	CLK	eiP			21	rC	0.5	
24	BHA	e	19	10	55		0.1	Distant
		e		11	10			
	BUL	e		10	58		0.2	
		i		11	13			

LIST OF RECORDED PHASES: 24 to 26 APR 1967 - 16

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
24	BUL	ePn	20	44	50		0.3		
		eSn		46	02				
		eSg			39				
24	CLK	iPg	23	14	18		5.3	Chileka area	
		i <sup>s</sup> g			21				
25	BHA	eS	00	31	32		0.6	Sagara Swamp area, Tanzania	
		eL		32	32				
	CLK	eL		33	28		0.4		
	BUL	eL		35	28		0.2		
25	CLK	eP	07	10	34		0.2	Distant	
	BUL	eP		11	02		0.2		
	BHA	eP			04		0.1		
25	BUL	ePn	09	09	10		0.8	Phalaborwa, NE Transvaal?	
		eSn			59				
		iSg		10	17				
		iL			22				
25	CLK	iP	09	49	13	C	0.2	Distant	
	BHA	iP			39	C	0.2		
	BUL	iP			53	C	0.2		
25	CLK	iP	10	42	20	C	0.4	Distant	
		ipP			31				
	BHA	iP			37	C	0.7		
		ipP			48				
	BUL	iP		43	00	C	0.5		
		ipP			10				
25	BUL	iP	10	48	50	cR	1.4	Distant	
		ipP			58				
	BHA	iP		49	06	cR	0.8		
		ipP			14				
	CLK	iP			26	cR	0.4		
		i(pP)			39				
25	CLK	eP'	12	47	16		0.2	Distant	
	BUL	eP'			25		0.3		
	BHA	eP'			33		0.2		
25	BUL	iPn	14	39	44		1.3	Witwatersrand	
		eSn		40	52				
		eSg		41	25				
	BHA	eS		43	07		0.3		
		eL		44	21				
	CLK	eS		43	20		0.4		
		eL		44	41				
25	BUL	iP'	15	43	03	R	0.6	Distant	
	CLK	eP'			03		0.2		
	BHA	iP'			12	R	0.3		
25	BHA	i	19	23	48	C	0.5	Distant	
	BUL	e			52		0.2		
26	BUL	e	04	36	03		0.2	Distant	
26	BHA	eL	08	26	32		0.3		
	BUL	eL		29	25		0.2		
26	CLK	iP	13	21	16	C	0.3	Distant	
		epP			26				
	BHA	iP			58	C	0.3		
		ipP		22	10				
	BUL	iP			02	C	0.2		
		ipP			12				

LIST OF RECORDED PHASES: 26 to 28 APR 1967 - 17

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
26	BUL	eSn	13	42	59		0.5	Phalaborwa, NF Transvaal	
		eSg		43	20				
		eL			25				
27	BUL	i	00	53	45	C	0.3	Distant	
	BHA	e		54	02		0.1		
27	BHA	ePg	07	42	54		1.2	Kariba	
		eSg		43	22				
	BUL	ePn			13		0.4		
		iPg			21				
		eSn			49				
		iSg		44	05				
27	BHA	iP	10	28	29	C	0.9	Sa da Bandeira area, Angola	
		iS		30	50				
		eL		32	28				
	BUL	iP		28	44	C	0.6		
		eS		31	21				
		iL		33	10				
	CLK	eP		29	53		0.3		
		eS		33	15				
		eL		35	44				
27	BHA	ePn	14	02	29		0.9	Busango swamp?	
		iPg			34				
		eSn			57				
		iSg		03	02				
27	BUL	ePn	14	27	20		0.5	Witwatersrand	
		eSn		28	27				
		iSg			59				
27	CLK	iPn	16	19	56		18.	Zambesi-Shire confluence	
		iPg			59				
		iSg		20	23				
	BUL	ePn		21	01		2.4		
		eSn		22	08				
		iSg			43				
	BHA	ePn		21	06		1.2		
		eSn		22	23				
		eSg		24	(00)				
27	CLK	iP	23	26	43	R	0.2	Distant	
	BHA	iP		27	00	R	0.2		
	BUL	iP			25	R	0.5		
27	BUL	eSg	23	30	06		0.2	Witwatersrand	
27	CLK	ePn	23	32	05		23.	Offshore Porto Amelia, Mocambique	
		eSn		33	17				
		iSg			50				
	BHA	eP			25		4.6		
		eS		35	33				
		eL		36	53				
	BUL	eP		33	47		2.3		
		eS		36	13				
		eL		37	51				
28	CLK	ePn	00	19	04		0.8	Offshore Porto Amelia	
		eSn		20	06				
		eSg			40				
	BHA	eL		23	45		0.2		
	BUL	eL		24	43		0.1		
28	BUL	i	01	01	22		0.2	Distant	
	BHA	i			31		0.3		



LIST OF RECORDED PHASES: 28 to 29 APR 1967 - 18

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
28	CLK	ePn	01	28	20		0.9	Offshore Porto Amelia	
		eSn		29	33				
		eSg		30	07				
	BHA	eL		33	15		0.2		
	BUL	eL		34	15		0.1		
28	BUL	eSg	05	49	20		0.2		
28	BUL	iP	07	37	10	R	0.3	Distant	
28	BUL	eSg	12	10	06		0.3	Witwatersrand	
28	BUL	eSg	15	32	52		0.2	Witwatersrand	
28	BUL	ePn	15	33	23		0.6	Witwatersrand	
		eSn		34	30				
		iSg			59				
	BHA	eSg		37	57		0.2		
	CLK	eL		38	04		0.2		
	28	CLK	iP	16	24	44	cR		0.6
BHA			iP		25	21	C	3.6	
		ipP			26				
BUL		iP			27	C	0.5		
		ipP			33				
28	CLK	eP	19	47	04		0.2	Distant	
		epP			16				
	BHA	eP			34		0.2		
		epP			46				
	BUL	eP			58		0.2		
		epP		48	09				
29	CLK	eP	00	23	57		0.2		
		BHA	eP		24	19			
	BUL	iP			21	R	6.0		
29	CLK	eP'	04	14	26		0.2	Distant	
		ipP'			38				
		eSKP			18	03			
	BHA	eP'		14	31		0.2		
		ipP'			41				
		eSKP		18	10				
	e		20	18					
	BUL	iP'		14	45	R	1.1		
		ipP'			58				
29	BUL	ePn	04	25	27		0.3	Central Manica Province, Mocambique	
		eSn		26	10				
		eSg			30				
	CLK	eSg			47		0.2		
29	CLK	eP	05	07	48		0.2	Distant	
		BHA	eP		08	04			
	BUL	iP			31	R	0.5		
29	BUL	eP	07	27	09		0.2	Distant	
		CLK	iP			16			C
	BHA	eP			52		0.3		
29	CLK	eP'	12	44	50		0.1	Distant	
		eSKP			48	17			
	BHA	eP'			44	52			0.1
		eSKP			48	23			
	BUL	eP'			44	57			0.3
	eSKP			48	35				
29	BUL	e	12	50	30		0.2	Distant	
		BHA	e			35			

LIST OF RECORDED PHASES: 29 to 30 APR 1967 - 19

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region; Remarks
29	BUL	eSn	13	30	16		0.2	
		eSg			38			
29	CLK	eSn	14	49	24		0.5	Offshore Porto Amelia
		eSg			58			
	BHA	eL		52	59		0.2	
	BUL	eL		53	50		0.1	
30	CLK	e	00	40	13		0.1	Distant
		e			20			
	BHA	e			29		0.1	
		e			38			
30	BUL	eiP	07	36	54	cR	0.5	Distant
		ipP			37 19			
		ePP			40 34			
	BHA	eP		37	07		0.4	
		epP			29			
		ePP		40	58			
	CLK	eP		37	30		0.2	
		epP			54			
		ePP		41	28			
30	BHA	iPn	09	41	32		7.	Kasempa area, Zambia
		ePg			42			
		eSn		42	02			
	BUL	eSn		43	58		0.8	
		eSg		44	37			
30	CLK	eP	17	16	54		0.1	Distant
	BUL	eP		17	29		0.2	
	BHA	eP			51		0.1	
30	BHA	ePn	20	21	05		0.6	Lake Mweru area, Congo
		eSn			22 13			
		eSg			44			
	CLK	eL		24	35		0.3	
	BUL	eL		25	44		0.1	
30	BUL	eSg	20	41	13		0.2	
30	BUL	e	23	25	14		0.2	

Epi. Ruled AAA 691128  
 VWS

May

25 SEP 1967

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

The following stations contribute records for analysis and publication in this Bulletin:

**BROKEN HILL (BHA):**  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
 Litho. foundation: Dolomite and shales of the Middle Katanga System.  
 Authority: Zambia Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

**BULAWAYO (BUL):**  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
 Litho. foundation: Hornblend schists of the Bulawayan System.  
 Instruments: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
 WWSS Station: SP magnification 100,000.  
 IP magnification 1,500.

**CHILEKA (CLK):**  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
 Litho. foundation: Charnockitic granulites of the Basement Complex.  
 Authority: Malawi Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
 P. O. Box 562, Bulawayo, Rhodesia.

# EPICENTRES <sup>ARE</sup> ON THE END

## LIST OF RECORDED PHASES: 01 to 03 MAY 1967 - 1

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
01	CLK	iP	07	01	03	R	0.1	Distant	
	BUL	iP			59	R	0.2		
	BHA	eP		02	20		0.1		
01	BHA	iP	07	18	26	C	0.7	Distant	
	CLK	eP			43		0.8		
	BUL	eP		19	03	C	1.5		
01	BUL	eSg	12	15	05		0.2		
01	BUL	ePn	13	15	54		0.7	Witwatersrand	
		eSn		13	02				
		iSg			37				
01	BHA	eP	14	14	30		0.4	Ruwenzori area	
		eS		17	07				
		eL		18	54				
	CLK	eP		14	50		0.3		
		eS		17	40				
		eL		19	37				
	BUL	eP		15	29		0.2		
		eL		21	34				
01	BHA	eL	19	01	12		0.2		
02	CLK	iP	09	11	29	C	0.5	Distant	
	BHA	iP			40	C	0.4		
	BUL	iP		12	13	C	0.8		
02	BUL	eSg	13	06	06		0.2		
02	CLK	eP'	17	28	14		0.1	Distant	
	BUL	eP'			29		0.2		
	BHA	eP'			32		0.1		
02	BUL	ePn	22	07	44		0.8	Witwatersrand	
		iSn		08	53				
		iSg		09	25				
	BHA	eS		11	10		0.2		
		eL		12	25				
		eL			48		0.2		
03	BHA	ePn	06	10	25		0.6	Katavi swamp area, Tanzania	
		eSn		11	54				
		eSg		12	39				
	CLK	eSg		13	38		0.2		
	BUL	eL		15	36		0.1		
03	BUL	eL	13	13	35		0.3		
	BHA	eL		14	08		0.1		
03	BHA	eP	14	38	32		0.6	N. Lake Tanganyika?	
		eS		40	23				
		eL		41	36				
	BUL	eL		44	05		0.2		
03	BUL	eL	14	55	05		0.3		
	BHA	eL		56	27		0.2		
03	BUL	eL	15	26	59		0.3	S. Mocambique Channel	
03	BHA	eP	16	40	10		7.3	Central Lake Tanganyika area	
		iS		41	46				
		eL		42	42				
	BUL	eP		41	25		1.2		
		iS		43	57				
		eL		45	40				

LIST OF RECORDED PHASES: 03 to 05 MAY 1967 - 2

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
03	BHA	eP	16	48	48		1.3	Central lake Tanganyika area
		eS		50	21			
		eL		51	15			
	BUL	eS		52	30		0.4	
		eL		54	11			
03	BHA	eP	18	51	11		0.2	Distant
	BUL	iP			50	C	0.3	
03	BHA	eS	19	11	12		0.4	Central Lake Tanganyika area
		eL		12	09			
	BUL	eL		15	10		0.1	
04	BHA	i	05	26	05	R	0.3	Distant
	BUL	i			17	R	0.4	
04	BHA	eP	05	28	04		0.1	Distant
	BUL	eP			38		0.4	
04	BHA	ePn	07	46	56		1.2	Katavi swamp, Tanzania
		eSn		48	22			
		eSg		49	09			
		eL			18			
	CLK	eL		50	07		0.5	
	BUL	eS			27		0.2	
		eL		52	03			
04	BUL	iP	08	27	01	C	2.7	Distant
		epP			21			
		e		31	52			
	BHA	iP		27	34	C	0.4	
		e		32	08			
	CLK	iP		27	51	C	2.1	
		eS		36	25			
04	BHA	eP	12	22	19		1.1	Central Lake Tanganyika area
		eS		23	50			
		eL		24	50			
	CLK	eP		22	51		0.6	
		eS		24	46			
	BUL	eL		26	02			
		eP		23	31		0.3	
	eS		26	08				
	eL		27	48				
04	BUL	e	13	41	10		0.3	Distant
04	BUL	i	13	51	19	R	0.2	Distant
04	BUL	iPn	13	53	40	R	1.9	Witwatersrand
		iSn		54	50			
		eSg		55	22			
	BHA	iP		54	57		0.2	
		iS		57	05			
	eL		58	28				
04	BUL	i	16	40	37	C	0.4	Distant
	BHA	e		40	41		0.1	
04	BUL	i	22	54	27	R	0.2	Distant
04	BHA	e	23	46	00		0.1	Distant
	BUL	e			12		0.1	
05	BHA	i	00	20	40	cR	0.4	Distant
	BUL	i			53	cR	0.7	

LIST OF RECORDED PHASES: 05 to 07 MAY 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
05	BHA	iP	06	35	58	R	0.2	Distant	
	BUL	iP		36	40	R	0.3		
05	BUL	eP	12	44	20		0.2	Distant	
	BHA	eP			55		0.2		
05	BUL	eSg	13	52	26		0.3	Witwatersrand	
05	BUL	iP	14	21	18	R	0.2	Distant	
	BHA	eP			57		0.1		
05	BUL	e	15	19	02		0.3	Distant	
	BHA	e			08		0.1		
05	BHA	eP	17	28	03		0.1	Distant	
	BUL	eP			48		0.2		
05	CLK	eP	17	49	21		0.5	Distant	
	BUL	eP			54		0.7		
	BHA	eP			58		0.6		
05	BHA	eP	21	51	15		0.6	Central Lake Tanganyika area	
		eS			52				
		eL			53				
	BUL	eL			56		0.2		
05	CLK	eP	23	16	59		0.2	Distant	
	BUL	iP			17	C	0.3		
	BHA	iP			58	C	0.2		
06	BUL	e	02	14	45		0.2	Distant?	
06	BHA	ePg	02	18	11		1.0	Kariba	
		eSg			38				
	BUL	ePg			39		0.3		
		eSg			19				
06	BUL	i	02	49	26	R	0.3	Distant?	
06	CLK	eP	04	09	30			Fort Johnston area, Malawi	
		iS			43				
	BHA	eSg			12		0.3		
	BUL	eSg			13		0.3		
06	BUL	i	05	08	12	C	0.2	Distant	
06	BUL	iP	08	40	38	R	0.4	Distant	
		i			55				
	BHA	eP			41		0.1		
		e			28				
06	BUL	ePn	11	09	02		0.3	Witwatersrand	
		eSn			10				
		eSg			38				
06	BUL	eSg	13	01	51		0.2		
06	BUL	eSg	15	58	13		0.2		
06	BUL	i	18	48	01	C	0.2	Distant	
	BHA	e			11		0.1		
06	BUL	eSg	20	04	53		0.2	Witwatersrand	
07	BUL	eSg	01	53	26		0.2	Witwatersrand?	
07	BUL	i	03	21	40	R	0.3	Distant	
07	BUL	i	05	39	40	R	0.2	Distant	
	BHA	e			47		0.1		
07	BUL	i	07	00	36	R	0.4	Distant	

LIST OF RECORDED PHASES: 07 to 09 MAY 1967 - 4

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
07	BUL	i	07	59	47	C	0.2	Distant	
07	BHA	eL	09	04	(30)		0.3		
	CLK	eL			47		0.3		
	BUL	eL	07	34			0.2		
07	BUL	i	10	35	40	R	0.3	Distant	
		i			50				
	BHA	e			49		0.1		
		i			59				
07	BUL	eSg	11	52	46		0.2	Witwatersrand	
07	BHA	iPg	12	50	04		1.6	Kariba	
		eSn			26				
		eSg			33				
	BUL	iPg			28	C	0.7		
		eSn			58				
		eSg		51	13				
	CLK	eSg		52	48		0.2		
08	BUL	ePn	07	03	54		1.2	Witwatersrand	
		eSn		05	00				
		iSg			30				
	CLK	eL		08	37		0.3		
08	BUL	ePn	10	21	20		1.2	Witwatersrand	
		eSn		22	28				
		eSg			58				
	BHA	eL		25	53		0.4		
	CLK	eL		26	08		0.3		
08	BUL	eSg	12	28	52		0.3	Witwatersrand	
08	CLK	eP	14	02	58		0.5	E. Equatoria Province, Sudan	
		eL		08	47				
	BHA	eP		02	59		0.7		
		eL		08	45				
	BUL	eP		04	03		0.4		
		eL		11	34				
08	CLK	iP	18	58	01	R	0.4	Distant	
	BHA	iP			18	C	0.4		
	BUL	iP			46	rC	0.7		
08	BUL	i	19	03	45	R	0.2	Distant	
	BHA	e			56		0.2		
08	BUL	e	20	46	56		0.2	Distant	
08	BHA	eL	22	24	17		0.4		
	CLK	eL		25	32		0.2		
	BUL	eL		27	19		0.2		
08	CLK	iP	23	34	40	R	0.2	Distant	
	BUL	iP		35	13	R	0.5		
	BHA	eP			17		0.2		
09	BUL	e	06	33	55		0.2	Distant	
09	BUL	ePn	07	40	01		0.6	Offshore S. Mocambique	
		eSn		41	18				
		eSg			59				
	CLK	iSg		40	42		0.8		
09	BUL	e	09	43	58		0.2	Distant	
	CLK	e		44	01		0.2		
	BHA	e			22		0.1		

LIST OF RECORDED PHASES: 09 to 12 MAY 1967 - 5

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
09	BUL	i	12	56	07		0.3	Distant
09	BUL	e	15	26	35		0.2	Distant
09	CLK	eiP	21	43	15	cR	0.2	Distant
	BHA	eiP			40	cR	0.2	
	BUL	eiP			41	cR	0.3	
		e		44	14			
10	BUL	e	13	59	38		0.3	Distant
	CLK	e			45		0.3	
10	BUL	i	15	35	21	C	0.2	Distant
	BHA	e			46		0.1	
10	BUL	ePn	17	08	19		3.8	Makarikari Pan, Botswana
		ePg			27			
		eSn			54			
		eSg		09	02			
	BHA	ePn			10		0.8	
		iSn		10	15			
		eSg			51			
	CLK	eP			(00)			
		eS		11	54			
		eL		13	07			
10	CLK	ePn	17	12	41		7.	Mocambique-Tanganyika Border
		eSn		13	32			
		iSg			55			
	BHA	eP			39		0.7	
		eS		15	12			
		eL		16	18			
	BUL	eP		14	18		0.3	
		eS		16	18			
		iL		17	45			
10	BUL	eSn	20	42	47		0.4	Makarikari Pan
		iSg		43	00			
10	BUL	eSg	21	52	32		0.2	
10	BUL	eSg	23	29	26		0.2	Witwatersrand
11	BUL	eSg	12	42	26		0.2	Witwatersrand
11	BHA	eP	15	02	02		0.9	Distant
	BUL	eP			26		2.2	
11	BUL	iP	15	18	10	R	2.6	Distant
		i			21			
		ipP			40			
		iS		28	54			
	BHA	iP		18	20	C	0.3	
		e			31			
		ipP			53			
		eSKS		28	48			
11	BHA	e	15	35	38		0.3	Distant
	BUL	i			43	C	0.4	
11	BUL	eSg	17	52	53		0.2	W. Witwatersrand
12	BUL	i	00	08	15	R	0.2	Distant
	BHA	e			25		0.2	
12	BUL	i	02	19	59	cR	0.9	Distant
	BHA	i		20	12	R	0.8	
12	BHA	eP	05	32	12		0.1	Distant
	BUL	eP			39		0.3	



LIST OF RECORDED PHASES: 12 to 14 MAY 1967 - 6

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
12	BUL	iP	13	44	39	C	0.5	Distant	
	BHA	iP		45	14	R	0.3		
12	BHA	eL	14	35	53		0.3		
	BUL	eL		38	56		0.1		
12	BUL	i	15	49	08	C	0.3	Distant	
	BHA	e			18		0.1		
12	BUL	i	17	18	09	C	0.9	Distant	
12	BUL	e	18	20	54		0.2		
12	BUL	i	19	17	09	R	0.2	Distant?	
13	BUL	i	03	18	18	C	0.4	Distant	
	BHA	e			24		0.1		
13	BHA	e	05	38	23		0.1	Distant	
	BUL	ei			26	rC	0.6		
13	BUL	ePn	13	01	40		0.3	W. Witwatersrand	
		eSn		02	54				
		eSg		03	30				
13	BUL	eSn	13	05	52		0.5	Witwatersrand	
		eSg		06	26				
	BHA	eSg		09	26		0.1		
13	BUL	e	13	08	54		0.2	Distant	
	BHA	e			59		0.1		
14	BHA	eP	01	11	04		0.6	Central Lake Tanganyika?	
		eS		12	40				
		eL		13	42				
	BUL	eL		16	39		0.2		
14	BHA	eP	04	25	14		0.1	Distant	
	BUL	iP			50	C	0.3		
14	BHA	ePn	06	54	45		2.0	Kasempa area, Zambia	
		iSn		55	11				
		eSg			16				
	BUL	eSg		57	48		0.1		
	CLK	eSg		58	28		0.1		
14	BUL	eP	08	51	21		0.8	Distant	
		e			50				
	BHA	eP			32		0.3		
		e		52	02				
	CLK	eP		51	56		0.2		
		e		52	26				
14	BHA	eP	09	11	40		0.2	Distant	
	CLK	eP			49		0.1		
	BUL	eP		12	23		0.3		
14	BUL	i	12	43	04	C	0.2	Distant	
		i			15				
	BHA	e			13		0.1		
		e			26				
14	BUL	eSg	13	43	00		1.1	E. Witwatersrand	
	CLK	eSg		46	05		0.1		
	BHA	eL			09		0.1		
14	BUL	eSg	21	34	08		0.3	Witwatersrand	
14	BHA	eL	23	17	28		0.4		
	CLK	eL		18	50		0.2		
	BUL	eL		20	30		0.1		

LIST OF RECORDED PHASES: 14 to 16 MAY 1967 - 7

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
14	CLK	eP	23	58	28		0.1	Distant	
	BHA	iP		59	05	C	1.2		
		e			09				
	BUL	eP			10		0.3		
		e			15				
14	BUL	ePn	23	59	06		0.6	Witwatersrand	
		eSn	24	00	15				
		eSg			48				
	BHA	eL		03	49		0.1		
	CLK	eL		04	14		0.1		
15	BUL	eSg	00	41	52		0.2	Witwatersrand	
15	BHA	i	01	55	59	C	0.7	Distant	
15	CLK	e	02	46	17		0.1	Distant	
	BUL	i			23	R	0.3		
15	BHA	ePn	03	26	55		1.5	Kariba	
		ePg			59				
		eSn		27	19				
		eSg			25				
	BUL	ePg			20		0.6		
		eSn			50				
		eSg		28	05				
	CLK	eSg		29	32		0.2		
15	CLK	iP	08	21	54	R	0.6	Distant	
	BUL	iP		22	22	R	0.5		
15	BUL	iL	13	11	01		0.2		
15	BUL	eSg	15	29	16		0.6		
15	BUL	eL	16	57	01		0.2		
15	CLK	iP	19	00	44	C	0.3	Distant	
	BUL	iP		01	26	C	0.4		
16	BUL	i	06	37	00	C	0.4	Distant	
16	BUL	eSg	09	19	04		0.5		
16	BUL	i	13	11	03	C	0.3	Distant?	
		e		12	20				
16	BHA	e	13	16	56		0.2	Distant?	
	BUL	e			57		0.2		
16	BHA	e	16	33	54		0.2	Distant	
16	BUL	iPn	19	36	33		0.9	Witwatersrand	
		eSn		37	42				
		iSg		38	11				
	BHA	eSg		41	09		0.1		
	CLK	eSg			19		0.2		
16	BUL	iSg	19	46	00		0.3		
16	BUL	iPn	19	55	26	R	1.0	Witwatersrand	
		eSn		56	35				
		iSg		57	05				
	BHA	ePn		56	45		0.2		
		eSn		58	49				
		eSg	20	00	02				
	CLK	eSg		(30)			0.2		
16	BUL	i	23	29	54	R	0.3	Distant	
	BHA	e		30	04		0.1		

LIST OF RECORDED PHASES: 17 to 18 MAY 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
17	BUL	e	04	38	56		0.3	Distant	
17	BUL	i	05	44	32	R	0.2	Distant	
17	BUL	i	08	41	23	C	0.3	Distant	
17	BUL	iPn	09	14	23		0.7	O.F.S. Goldfields	
		eSn		15	49				
		eSg		16	33				
	BHA	eSg		19	30		0.1		
	CLK	eSg			55		0.1		
17	CLK	ePn	11	35	21			Niassa Province, Mocambique	
		eSg		36	02				
	BUL	eS		38	50		0.3		
		eL		39	55				
	BHA	eL			04		0.2		
17	BUL	eSn	13	07	03		0.3		
		iSg		08	01				
	BHA	eL		10	52		0.1		
17	BUL	e	13	15	54		0.2	Distant	
17	BUL	ePn	13	44	18		0.9		
		eSn		45	09				
		eSg			30				
17	BUL	e	14	27	59		0.4	Distant?	
17	BUL	iPn	16	40	52	C	1.0	Witwatersrand	
		eSn		42	00				
		iSg			33				
	BHA	iPn			07		0.2		
		eSn		44	20				
		eSg		45	38				
17	CLK	iP	17	57	33	R	0.3	Distant	
		eS		18	09(20)				
	BHA	iP		17	57	C	0.3		
		eS		18	08				
	BUL	iP		17	58	C	0.4		
		ePP		18	02				
		ePS			11				
17	BUL	eSg	18	09	13		0.2		
18	BHA	iPg	01	00	03			Kariba	
		iSn			26				
		eSg			31				
	BUL	ePn			(30)		1.1		
		ePg			39				
		eSn		01	12				
		eSg			28				
	CLK	eSg		02	42		0.4		
18	BUL	eSg	05	07	51		0.2		
18	BHA	eP	11	42	16		0.1	Distant	
	BUL	eP			45		0.3		
18	BUL	e	12	00	15		0.2	Distant	
	BHA	e			24		0.1		
18	BUL	iP	13	02	47	R	1.0	Distant	
		i		03	09				
	BHA	iP			21	R	0.6		
	CLK	eP			37		0.2		

LIST OF RECORDED PHASES: 19 to 20 MAY 1967 - 9

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
19	BUL	eSg	03	14	53		0.3		
19	BUL	iP'	05	27	58	cR	0.4	Distant	
		i		28	10				
		i			21				
	CLK	eP'			(00)		0.1		
		e			12				
		i			23				
	BHA	iP'		09		R	0.4		
		i			20				
		i			31				
19	BHA	ePn	06	49	03		1.5	Lake Mweru Swamp, Zambia	
		iSn		50	05				
		eSg			34				
	CLK	eSg		52	10		0.5		
	BUL	eL		53	37		0.2		
19	BHA	e	08	10	49		0.4	Distant	
		e		11	06				
	BUL	e		10	50		0.3		
		e		11	07				
19	BUL	ePn	12	20	15		0.8		
		eSn		21	40				
		eSg		22	27				
	BHA	eS		23	54		0.3		
		eL		25	22				
19	BUL	i	12	21	17	C	0.3	Distant	
	BHA	i		28		R	0.3		
19	BUL	eSg	13	19	18		0.2	Witwatersrand	
	BHA	eL		21	02		0.1		
19	BUL	ePn	14	40	28		0.7		
		eSn		41	03				
		eSg			18				
19	BUL	eSg	14	45	24		0.2		
19	CLK	ePn	15	21	38			N. Lake Malawi	
		eSn		22	39				
	BHA	ePn		21	58		2.4		
		eSn		23	15				
		eSg			53				
	BUL	ePn		22	57		0.7		
		eSn		24	56				
		eSg		26	02				
		eL			13				
19	BUL	iP	15	59	41	C	0.3		
		eL	16	11	56				
	BHA	eL		08	51				
19	BUL	eSg	19	36	22		0.3	Witwatersrand	
	BHA	eL		39	20		0.1		
20	BUL	eSg	02	52	54		0.3	Witwatersrand	
	BHA	eL		56	54		0.1		
20	BUL	e	03	10	01		0.2	Distant	
	BHA	e			02		0.1		
20	BHA	eP'	08	07	38		0.4	Distant	
	BUL	eP'			40		0.3		
	CLK	eP'			53		0.3		

LIST OF RECORDED PHASES: 20 to 21 MAY 1967 - 10

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
20	CLK	iP	08	58	05	C	0.3	Distant	
	BHA	eP			15		0.1		
	BUL	iP			43	C	0.6		
20	BUL	i	09	07	10	C	0.2	Distant	
20	BUL	i	13	04	53	C	0.3	Distant	
20	BUL	iP	13	13	49	C	1.1	Distant	
	BHA	iP			14 16	C	0.4		
	CLK	iP			30				
20	BUL	eSg	14	07	34		0.2		
20	BUL	e	15	02	46		0.2		
20	BHA	e	15	19	27		0.3	Distant	
	BUL	i			39	C	3.7		
	CLK	e			45				
20	BHA	eL	15	32	38		0.2		
20	BHA	eP	21	57	43		0.1	Distant	
	BUL	eP			58 20		0.2		
20	BHA	ePn	23	33	35		1.1	Katavi Swamp area, Tanzania	
		eSn			35 04				
		eSg			52				
	CLK	ePn			33 59				
		eSn			35 47				
		eSg			36 44				
	BUL	eL			38 45		0.2		
21	BHA	eP	07	37	37		0.1	Distant	
		e			38 00				
	BUL	eP			37 49		0.2		
		e			38 10				
CLK	eP			02					
	e			24					
21	BUL	i	12	35	55	C	0.2	Distant	
	BHA	e			36 02		0.1		
21	BHA	iPn	14	54	18		2.6	S. Lake Rukwa, Tanzania	
		eSn			55 34				
		eSg			56 17				
	CLK	iPn			54 21				
		iSn			55 43				
		eSg			56 27				
	BUL	iP			55 29		0.3		
iS				57 49					
iL				58 55					
21	CLK	iP	18	55	50			S. Sumatra	
		iS	19	04	28				
	i			05 23					
	BHA	iP	18	56	27	R	7.		
		ipP			57 09				
		isP			26				
		iS	19	05	38				
	BUL	i			06 14				
		i			23 39				
		iP'P'			27 25				
		iP	18	56	29	R	18.0		
		ipP			57 11				
		isP			28				
		iS	19	05	42				
i				06 15					
i			23 38						
iP'P'			27 23						

LIST OF RECORDED PHASES: 21 to 23 MAY 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
21	BUL	i	20	47	58	R	0.3	Distant	
22	BUL	i	03	38	15	C	0.3	Distant	
	BHA	e			22		0.1		
22	BUL	iL	13	23	36		0.3		
	BHA	eL			26 09		0.1		
22	BHA	eP	17	51	49		0.1	Distant	
	BUL	iP			52 18	C	0.3		
22	BUL	eP	20	19	43		0.4	Distant	
	BHA	eP			20 16		0.1		
	CLK	eP			34		0.2		
22	BUL	iSg	21	31	28		0.2		
23	BHA	e	01	41	17		0.1	Distant	
		e			32				
	BUL	e			23		0.1		
		e			38				
23	BHA	e	02	11	35		0.1	Distant	
	BUL	i			42	R	0.2		
23	CLK	iPn	07	11	58			Lake Rukwa area, Tanzania	
		eSn			13 14				
	BHA	iPn			12 00		9.		
		eSn			13 21				
	BUL	iPn			04	eR	2.3		
		iSn			15 15				
		eL			16 34				
23	BHA	i	08	46	01	R	0.3	Distant	
		e			15				
	BUL	i			01	R	0.2		
		e			16				
23	BHA	e	10	06	44		0.1	Distant	
	BUL	i			46	C	0.3		
23	BUL	i	12	05	37	R	0.2	Distant	
23	BUL	eL	13	07	52		0.2		
23	BHA	e	14	19	27		0.8	Distant	
	BUL	i			39	C	2.9		
	CLK	e			46				
23	BUL	ePn	14	44	28		0.3	Witwatersrand	
		eSn			45 39				
		eSg			46 11				
23	BUL	e	15	44	21		0.2	Distant	
23	BUL	eSg	15	51	56		0.4		
23	BUL	i	18	18	27	R	0.3	Distant	
23	BHA	iP	19	06	51		0.4	Mt. Hanang area, Tanzania	
		eL			10 40				
	CLK	eL			09 48		0.4		
	BUL	eL			13 01		0.2		

LIST OF RECORDED PHASES: 23 to 25 MAY 1967 - 12

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA	Epicentral region;	Remarks
			h	m	s		mm		
23	BUL	iP	19	27	05	C	1.7	S. Sandwich Is.	
		ipP			35				
		iS		34	33				
			eSKS		36	50			
	BHA	iP		27	38	cR	1.7		
		ipP		28	10				
		iS		35	36				
		iSKS		37	24				
	CLK	iP		27	55	C	1.4		
iS			36	12					
24	BUL	iP	00	56	15	R	0.2	Distant	
	BHA	eP			47		0.1		
24	BHA	ePn	07	24	22		1.1	Lake Rukwa area, Tanzania	
		eSn		25	40				
		eSg		26	17				
	CLK	eSg			18		0.8		
	BUL	eL		28	50		0.3		
24	BHA	eL	10	57	07		0.6		
	CLK	eL		58	25		0.2		
	BUL	eL	11	00	25		0.2		
24	CLK	iPn	17	19	25			Central Lake Malawi	
	BHA	ePn			59			Felt MM VI at Mzimba,	
		e		20	18			MM V at Mzuzu	
	BUL	ePn		20	46		24.		
		eSn		22	29				
	eSg		23	20					
24	BHA	eSn	20	55	35		1.0	S. Highlands, Tanzania	
		eSg		56	24				
	CLK	eSg		55	49		1.2		
BUL	eL		58	57		0.2			
24	CLK	eSg	21	06	05		0.4	S. Highlands, Tanzania	
	BHA	eSg			35		0.4		
	BUL	eL		09	16		0.1		
25	BUL	eSg	11	21	24		0.2		
25	BUL	eS	13	29	09		0.2		
		eL		31	09				
	BHA	eL			33		0.1		
25	CLK	eP	18	53	23		0.2	Distant	
	BUL	eP			49		0.2		
	BHA	eP			53		0.1		
25	BHA	eSn	22	36	05		0.5	Central Lake Tanganyika	
		eSg			49			area	
	CLK	eSg		37	55		0.2		
	BUL	eL		39	43		0.1		
25	BHA	ePn	23	43	51			Kasempa area, Zambia	
		ePg		44	00				
		eSn			28				
		eSg			39				
	BUL	eSg		47	06		0.2		
	CLK	eSg			56		0.2		

LIST OF RECORDED PHASES: 26 to 28 MAY 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
26	BHA	ePn	09	06	51			Busango Swamp area, Zambia	
	BUL	ePn		07	50		2.4		
		iSn		09	02				
		iSg			40				
		iL			45				
	CLK	ePn		08	21		2.1		
		iSn		09	53				
		iSg		10	52				
26	BUL	i	14	58	31	R	0.5	Distant	
	BHA	e			51		0.1		
26	BUL	i	15	19	41	C	1.1	Distant	
	CLK	e			49		0.4		
27	BUL	e(L)	01	54	34		0.3		
27	BUL	iSg	02	43	59		0.5		
27	BUL	iSg	04	42	38		0.4		
27	BUL	eSg	05	53	13		0.3		
27	BHA	e	06	39	48		0.2	Distant?	
	BUL	e		40	03		0.2		
27	BUL	iP	12	23	51	C	0.6	Distant	
27	BUL	eSg	13	09	17		0.2		
27	BUL	eSg	13	33	14		0.4		
27	BUL	eSg	15	30	34		0.3		
27	BHA	ePn	17	17	04		1.6	Kasempa area, Zambia	
		iPg			08				
		eSn			31				
		iSg			36				
	BUL	eL		20	07		0.2		
27	CLK	iP'	17	42	11	C	1.1	Distant	
		ipP'			21				
		ePP		44	35				
		iSKP		45	36				
	BHA	iP'		42	15	C	0.9		
		ipP'			25				
		iSKP		45	43				
	BUL	eP'		42	25		0.8		
		ipP'			35				
		iPP		45	20				
		iSKP			57				
27	CLK	iP	19	16	30	R	1.2	Distant	
		ipP			38				
	BHA	eiP			49	rC	0.7		
		epP			57				
	BUL	iP		17	14	R	1.5		
28	CLK	eP'	01	51	08		0.3	Distant	
	BHA	eP'			11		0.2		
	BUL	eP'			22		0.3		
28	BUL	iSg	02	52	42		0.4		
28	CLK	eP	04	19	44		0.5	Distant	
	BHA	eP			56		0.6		
	BUL	iP		20	22	C	0.7		



LIST OF RECORDED PHASES: 28 to 29 MAY 1967 - 14

Date	Stn	Phase	G M T			R C	DA mm	Epicentral region:	Remarks	
			h	m	s					
28	BHA	eP	11	58	11		2.2	Lake Kivu area, Congo		
		eS	12	00	22					
		iL		01	30					
	CLK	eP	11	58	49		1.2			
		eS	12	01	17					
		iSg		02	43					
	BUL	eP	11	59	31		0.6			
		eS	12	02	33					
		eL		04	33					
28	BHA	iP	12	23	21	C	7.6	N. Lake Albert		
		iS		26	17					
		iL		28	13					
	CLK	eP		23	38		4.3			
		i			41					
		iS		26	47					
	BUL	iL		28	52		2.5			
		iP		24	26	C				
		eS		28	22					
			iL		31	04				
	28	BUL	eP	15	16	37			0.4	Distant
		BHA	eP		17	22			0.1	
CLK		eP			30		0.2			
28	BUL	eL	18	55	27		0.4			
28	BUL	e	20	13	22		0.3	Distant		
	BHA	e			37		0.1			
29	BUL	e	11	28	40		0.3	Distant?		
		i		31	47					
29	BUL	iSg	13	30	29		0.4			
29	BUL	eSg	14	07	02		0.2			
29	BUL	eSg	14	35	58		0.5			
29	BUL	iP	19	07	14	R	0.3	Distant		
	BHA	eP			47		0.2			
29	BUL	iPn	20	25	28	C	3.4	Witwatersrand		
		iSn		26	38					
		iSg		27	10					
	BHA	iPn		26	44		0.6			
		iSn		28	53					
		iSg		30	04					
			iL		15					
	CLK	eSg			27		0.6			
	29	BUL	iP	21	19	57	C		0.5	Distant
		CLK	eP		20	35			0.2	
		BHA	iP			48	C		0.3	
29	CLK	iPn	23	10	07		3.0	Offshore Mossuril, N. Mocambique		
		iSn		11	04					
		iSg			33					
	BHA	iP			34		0.5			
		eL		14	58					
	BUL	eL		15	17		0.3			

LIST OF RECORDED PHASES: 30 to 31 MAY 1967 - 15

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
30	BUL	ei i	10	14	10 19	rC	0.8	Distant	
30	BUL	eSg	14	14	33		0.2		
30	BUL	ePn eSn eSg	14	37	27 38 36 39 08		0.7	Witwatersrand	
30	BUL	eSg	16	24	27		0.2		
31	BUL	i	08	04	54	C	0.4	Distant	
31	CLK	eP'	11	05	52		0.2	Distant	
	BUL	eP'			56		0.4		
	BHA	eP'		06	03		0.3		
31	BHA	e	11	51	42		0.1	Distant	
	BUL	e			47		0.3		
31	BUL	e i	12	25	50 26 08		0.3	Distant	
31	CLK	eP	16	22	36		0.2	Distant	
	BHA	eP			54		0.2		
	BUL	iP		23	21	R	0.6		

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MAY 1967

Date	G	M	T	Epicentre	Remarks	Mag
	h	m	s			CC
01	06	42	24	USCGS 53.9N 163.3W	Unimak Is.	4.0
01	13	15	19		Witwatersrand	
01	14	11	02		Tuwenzori Area	3.8
02	09	01	29	USCGS 36.5N 71.0E	Hindu Kush Region	4.9
02	17	10	05	USCGS 5.6S 147.2W	E. New Guinea Region	5.4
X 02	22	06	13	26.3S 27.4E	Witwatersrand.	3.2
X 03	06	08	25	6.4S 30.6E	Katavi Swamp Area, Tanzania.	3.1
03	14	36	00		N. Lake Tanganyika.	3.5
03	15	21	42		S. Mocambique Channel	(3.3)
03	16	39	00		Central Lake Tanganyika Area.	4.4
03	16	46	42		Central Lake Tanganyika. Area	3.8
03	18	41	47	USCGS 39.7N 21.5E	Greece.	4.8
03	19	07	34		Central Lake Tanganyika Area	3.2
04	05	09	05	USCGS 52.6N 169.1W	Fox Is. Aleutians.	4.1
X 04	07	14	57	6.6S 31.0E	Katavi Swamp, Tanzania	
04	08	17	32	USCGS 55.7S 27.9W	S. Sandwich Is. Region	5.8
X 04	12	20	14	5.7S 30.1E	Central Lake Tanganyika Area	3.7
04	13	31	09	USCGS 39.8N 21.5E	Greece	4.7
04	13	32	42	USCGS 6.0S 146.7E	East New Guinea Region	5.1
X 04	13	52	07	26.3S 27.3E	Witwatersrand	3.4
04	16	22	01	USCGS 6.0S 146.7E	East New Guinea Region	5.2
04	22	34	50	USCGS 30.6N 114.3W	Gulf of California	4.5
05	00	08	07	USCGS 29.2N 103.5E	Chinking Province, China	5.2
05	06	26	38	USCGS 39.7N 21.5E	Greece.	4.6
05	12	32	15	USCGS 49.4S 125.7E	South of Australia	4.9
05	13	49	20		Witwatersrand	(2.6)
05	14	02	37	USCGS 5.8S 146.5E	E. New Guinea Region	5.0
05	15	00	08	USCGS 10.5S 161.3E	Solomon Is.	5.4
05	17	38	05	USCGS 8.0S 107.2E	Java.	5.3
05	21	49	08		Central Lake Tanganyika Area.	3.4
05	23	10	27	USCGS 23.1S 69.3E	Mid-Indian Rise	4.9
X 06	02	17	34	16.5S 28.4E	Kariba.	2.0
X 06	04	09	11	14.7N 29.9E	Ft. Johnston Area, Malawi	2.8
06	04	48	37	USCGS 52.7N 168.1W	Fox Is. Aleutians	4.5
06	08	31	16	USCGS 55.6S 26.3W	S. Sandwich Is.	5.1
X 06	11	07	33	26.2S 27.6E	Witwatersrand	
06	18	29	36	USCGS 29.4S 179.3W	Kermadec Is.	4.0
X 06	20	01	10	26.4S 27.9E	Witwatersrand	2.3
07	05	32	22	USCGS 21.0S 68.8E	Mid-Indian Rise	
07	06	41	06	USCGS 52.2N 171.9W	Fox Is. Aleutians	4.5

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Date	G	M	T	Epicentre	Remarks	Mag
	h	m	s			CGS
07	07	40	16	USCGS 52.2N 171.8W	Fox Is Aleutians	4.3
07	10	16	56	USCGS 4.1S 152.8E	New Britain region	5.0
07	11	49	38		Witwatersrand	
X 07	12	49	26	16.5S 28.2E	Kariba	2.3
08	07	02	24		Witwatersrand	3.4
08	10	19	47		Witwatersrand	3.4
08	12	25	41		Witwatersrand	
X 08	13	58	29		5N 35E; E. Ecuatoria Province, Sudan	4.3
08	18	44	56	USCGS 33.2S 178.4W	S. of Kermadec Is.	5.3
08	18	48	05	USCGS 36.4N 70.2E	Hindu Kush region	4.8
08	20	36	01	USCGS 36.2N 71.0E	Afghanistan-USSR Border reg.	4.4
08	23	23	23	USCGS 10.4S 108.1E	S. of Java	
09	06	14	57	USCGS 44.2N 149.0E	Kurile Is.	5.3
X 09	07	38	14		21S 36E; Offshore S. Mocambique	3.0
09	12	36	37	USCGS 56.6N 152.6W	Kodiak Is. region	5.0
09	15	06	59	USCGS 56.6N 152.6W	Kodiak Is. region	4.8
09	21	30	08	USCGS 5.2N 127.5E	Phillipine Is.	5.5
10	15	23	31	USCGS 49.1S 121.6E	S. of Australia	3.8
X 10	17	07	32		20.2S 25.3E; Makarikari Pan, Botswana	3.0
X 10	11	11	27		41.4S 37.3E; Mocambique-Tanganyika Border	3.6
10	20	41	23		Makarikari Pan	
X 10	23	26	21	26.2S 27.9E	Witwatersrand	2.4
X 11	12	39	18	26.3S 27.8E	Witwatersrand	2.5
11	14	50	59	USCGS 39.4N 73.8E	Tadzhik-Sinkiang Border	5.6
11	15	05	17	USCGS 20.3S 68.5W	Chile-Bolivia Border reg.	6.1
X 11	17	49	06	26.5S 27.1E	West Witwatersrand.	2.4
12	01	59	32	USCGS 13.9S 170.0E	New Hebrides Is.	4.1
12	05	21	05	USCGS 39.5N 73.8E	Tadzhik-Sinkiang Border reg.	4.9
12	13	35	14	USCGS 57.7S 25.7W	S. Sandwich Is.	4.7
12	16	58	33	USCGS 52.9N 167.0W	Fox Is. Aleutians	4.9
12	19	04	01	USCGS 62.7S 167.7E	Balleny Is. Region	5.4
13	02	59	19	USCGS 11.7S 166.5E	Santa Cruz Is.	4.7
13	05	18	55	USCGS 56.5N 152.6W	Kodiak Is. region	5.3
X 13	12	59	56	26.8S 26.2E	West Witwatersrand	2.9
X 13	13	03	20	26.3S 27.8E	Witwatersrand	2.6
14	01	08	51		Central LakeTanganyika?	3.5
X 14	06	54	10	13.2S 26.5E	Kasempa area, Zambia	2.3
14	08	38	33	USCGS 20.6S 68.9W	Chile-Bolivia Border	5.2
14	09	00	55	USCGS 39.2N 73.9E	Tadzhik-Sinkiang Border	5.0
14	12	24	09	USCGS 10.5S 161.4E	Solomon Is.	5.4

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Date	F	M	T	Epicentre		Remarks	Mag
	h	m	s				OGS
X 14	13	39	55	26.3S	28.2E	Witwatersrand.	3.2
X 14	21	31	00	26.3S	28.0E	Witwatersrand	(2.6)
X 14	23	57	32	26.4S	27.1E	West Witwatersrand	2.9
X 15	00	38	41	26.3S	27.8E	Witwatersrand	2.5
15	02	27	36	USCGS	32.5N	141.4E S. of Honshu.	5.4
X 15	03	26	20	16.5S	28.5E	Kariba.	2.3
X 15	15	26	06	26.4S	27.9E	Witwatersrand.	3.0
X 15	16	53	45	26.4S	27.3E	Witwatersrand	2.4
15	18	50	00	USCGS	5.3N	96.6E Northern Sumatra.	5.0
16	06	18	24	USCGS	5.7S	146.4E East New Guinea Region	5.4
16	12	58	09	USCGS	13.5N	90.6W Near Coast of Guatemala.	4.8
16	16	14	23	USCGS	15.2S	173.5W Tonga Is.	5.2
16	19	24	59	USCGS	32.4N	141.3E S. of Honshu	5.3
X 16	19	35	02	26.3S	27.9E	Witwatersrand.	3.1
X 16	19	42	54	26.3S	28.0E	Witwatersrand	2.6
X 16	19	53	56	26.3S	27.9E	Witwatersrand.	3.2
16	23	11	08	USCGS	25.9S	177.6W S. Fiji Is.	
17	04	28	52	USCGS	38.7N	44.2E Turkey-Iran Border	4.6
17	05	31	44	USCGS	22.3S	69.2W Northern Chile	4.0
17	08	22	20	USCGS	15.1S	168.1E New Hebrides Is.	5.1
X 17	09	12	27	28.0E	26.3E	O.F.S. Goldfields	3.1
X 17	11	34	37	14.5S	27E	Niassa Province, Mocambique.	3.0
17	12	56	55	USCGS	9.7S	159.8E Solomon Is.	5.1
X 17	16	39	18	26.3S	27.3E	West Witwatersrand	3.2
17	17	50	40	USCGS	19.7N	38.7E Red Sea.	5.3
X 18	00	59	32	16.3S	28.7E	Kariba.	2.7
18	11	31	20	USCGS	40.6S	70.4E Tadzhik S.S.R.	4.9
18	12	53	20	USCGS	59.3S	25.1W S. Sandwich Is.	5.5
X 19	03	11	12	26.3S	27.6E	Witwatersrand	2.8
19	05	09	11	USCGS	34.9S	179.0W S. of Kermadec Is.	5.2
X 19	06	47	38	8.7S	29.4E	Lake Mweru Swamp, Zambia.	3.2
19	07	52	03	USCGS	13.2N	89.5W El Salvador	5.0
19	12	02	20	USCGS	30.3S	177.9W Kermadec Is. region	4.7
X 19	12	18	17	28.2S	26.5E	O.F.S. Goldfields.	3.5
19	14	42(30)				Witwatersrand.	2.3
X 19	15	20	14	10.0S	34.2E	N. Lake Malawi.	3.8
19	15	52	34	USCGS	14.5N	40.3E Ethiopia	5.1
X 19	19	33	12	26.3S	27.6E	Witwatersrand	3.0
X 20	02	49	46	26.3S	28.0E	Witwatersrand.	2.8
20	02	54	09	USCGS	19.8N	146.1E Mariana Is. Region	5.5

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Date	G M T h m s	Epicentre; Remarks	Mag CGS
20	07 48 52	USCGS 13.3N 90.4W Near Coast of Guatemala	4.6
20	08 17 20	USCGS 39.2W 72.9E Kiangia S.S.R.	5.1
20	08 47 34	USCGS 53.7N 165.2W Fox Is. Aleutians	4.5
20	12 52 07	USCGS 23.3S 69.3W Northern Chile.	4.5
20	13 02 09	USCGS 59.2S 65.7W Drake Passage	5.5
20	14 04 29	Witwatersrand	2.4
X	20 23 31 33	6.3S 31.1E Katavi Swamp area, Tanzania	3.5
21	07 18 13	USCGS 27.9N 111.3W Gulf of California	4.7
21	12 17 21	USCGS 5.7S 146.5E East New Guinea Region	5.1
X	21 14 52 31	8.4S 32.6E South Lake Rukwa, Tanzania	3.7
21	18 45 12	USCGS 1.0S 101.5E S. Sumatra	6.3
21	20 28 28	USCGS 55.2N 159.6W Alaska Peninsula	3.9
22	03 19 23	USCGS 14.9S 167.2E New Hebrides Is.	4.7
22	13 20 36	Witwatersrand	2.5
X	22 21 28 18	26.3S 27.8E Witwatersrand	2.3
23	01 22 22	USCGS 44.6N 150.2E Kurile IS. Region	4.3
23	01 52 39	USCGS 44.6N 150.5E Kurile Is. Region	4.9
23	07 10 15	USCGS 8.9S 33.1E Lake Rukwa area, Tanzania	(4.4)
23	08 34 36	USCGS 3.1S 101.5E Southern Sumatra	5.3
23	09 47 48	USCGS 11.7S 166.2E Santa Cruz Is.	4.3
23	11 53 00	USCGS 22.8S 68.0W Chile-Bolivia Border reg.	4.2
X	23 14 42 55	26.4S 27.3E Witwatersrand	2.7
23	15 25 26	USCGS 28.0S 176.7W Kermadec Is.	4.5
X	23 15 48 48	26.3S 27.9E Witwatersrand	2.8
23	18 05 51	USCGS 23.5S 68.1W N. Chile	4.3
X	23 19 03 44	4.2S 37.0E Mt. Hanang area, Tanzania	3.6
23	19 17 48	USCGS 56.2S 27.3W South Sandwich Is. region	5.9
24	00 46 57	USCGS 56.2S 27.3W South Sandwich Is.	4.6
X	24 07 22 36	8.7S 32.8E Lake Rukwa area Tanzania	3.4
X	24 17 18 28	11.9S 34.1E Central Lake Malawi	(5.1)
X	24 20 49 58	8.1S 34.6E S. Highlands, Tanzania	3.5
24	21 00(40)	S. Highlands, Tanzania	3.1
25	18 40 18	USCGS 3.0S 127.8E Ceram.	4.9
X	25 22 32 46	11.7S 30.3E Central Lake Tanganyika area.	3.0
X	25 23 43 02	12.6S 25.7E Kasempa area Zambia.	2.8
X	26 09 06 09	13.8S 25.6E Busango Swamp area, Zambia.	3.8
26	14 45 51	USCGS 39.6S 73.6W Coast of C. Chile	4.5
X	27 02 40 39	26.4S 28.2E Witwatersrand.	
X	27 04 39 30	26.3S 28.3E Witwatersrand	
27	12 42 54	USCGS 36.2N 71.5E Afghanistan-U.S.S.R. border	4.9

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Date	G h	M m	T s	Epicentre;		Remarks	M <sub>g</sub> CS
X 27	13	29	49	26.7S	26.8E	Witwatersrand	
27	17	16	27	Kasempa area Zambia.			2.3
27	17	22	59	USCGS 51.9N	176.1E	Rat Is. Aleutians	5.8
27	19	05	49	USCGS 36.1N	77.8E	Kashmir-Sinkiang Border	5.4
28	01	31	57	USCGS 52.1N	175.0E	Rat Is. Aleutians	5.2
X 28	11	55	30	2.8S	28.3E	Lake Kivu area, Congo.	4.3
28	12	19	32	USCGS 1.9N	31.3E	Uganda	5.1
28	15	09	42	USCGS 52.7S	10.4E	S.W. of Africa	5.3
29	11	09	54	USCGS 19.2S	176.3E	Fiji Is. region	5.1
29	18	57	56	USCGS 56.1S	27.4W	S. Sandwich Is. region	4.7
X 29	20	23	53	26.5S	27.2E	Witwatersrand	3.8
X 29	23	03	46	15.0S	40.7E	Offshore Mossuril, N. Mocambique	3.5
30	09	54	38	USCGS 50.1N	176.6W	Andreanof Is. Aleutians.	5.0
X 30	14	35	55	26.4S	27.3E	Witwatersrand	
X 30	16	21	26	26.0S	28.1E	Witwatersrand.	
31	10	46	55	USCGS 12.0S	166.2E	Santa Cruz Is.	4.7
31	16	12	44	USCGS 36.7N	70.8E	Hindu Kush region	4.5

Q: pushed 169 11 28  
 AAH VVWY

June

17 OCT 1967

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

The following stations contribute records for analysis and publication in this Bulletin:

**BROKEN HILL (BHA):**  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
 Litho. foundation: Dolomite and shales of the Middle Katanga System.  
 Authority: Zambia Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

**CHILEKA (CLK):**  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
 Litho. foundation: Charnockitic granulites of the Basement Complex.  
 Authority: Malawi Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

**KAROI (KRR):**  $16^{\circ} 51.1' S$ ;  $29^{\circ} 37.1' E$ ; Alt. 1380 m.  
 Litho. foundation: Granitic gneisses of the Zambesi type.  
 Authority: Rhodesia Meteorological Service.  
 Instrument: Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.

**BULAWAYO (BUL):**  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
 Litho. foundation: Hornblend schists of the Bulawayan System.  
 Authority: Rhodesia Meteorological Service.  
 Instruments: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
 WWSS Station: SP magnification 100,000.  
 IP magnification 1,500.

**CHIRENDEZI (CIR):**  $21^{\circ} 00.8' S$ ;  $31^{\circ} 34.8' E$ ; Alt. 430 m.  
 Litho. foundation: Gneisses or Charnockites of the Limpopo belt.  
 Authority: Rhodesia Meteorological Service.  
 Instrument: Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
 P. O. Box 562, Bulawayo, Rhodesia.



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Date	G	M	T	Epicentre; Remarks	Mag
	h	m	s		CGS
01	03	36	19	USCGS 53.7N 165.7W; Fox Is. Aleutians	5.7
01	05	57	12	USCGS 2.9N 99.0E; N. Sumatra	4.6
01	10	39	22	USCGS 36.9N 29.2E; Turkey	5.0
X 01	14	09	45	26.3S 27.9E; Witwatersrand	3.1
X 01	14	43	32	26.9S 26.7E; W. Witwatersrand	3.3
01	20	47	46	USCGS 6.8S 155.0E; Solomon Is.	5.6
X 01	20	58	41	26.1S 28.5E; Witwatersrand	2.5
01	21	40	32	USCGS 6.8S 154.7E; Solomon Is.	4.8
02	04	27	33	USCGS 41.0N 88.1E; S. Sinkiang Province, China	4.9
02	05	10	55	USCGS 43.6N 47.5E; E. Caucasus	5.0
02	06	31	28	USCGS 0.9N 28.4W; Central Mid-Atlantic Ridge	5.0
X 02	18	29	23	27.0S 26.9E; W. Witwatersrand	2.8
X 02	23	42	54	18.6S 34.2E; Manica Province, Mocambique	2.9
03	09	08	56	USCGS 58.4N 151.2W; Kodiak Is. Region.	5.5
03	13	08	07	USCGS 8.5S 74.4W; Peru-Brazil Border Region.	5.2
X 03	13	20	36	26.2S 27.9E; Witwatersrand	2.7
04	05	26	45	USCGS 51.4N 159.3E; Off E. Coast of Kamchatka	4.8
X 04	13	41	34	26.4S 27.4E; Witwatersrand	2.9
X 04	15	19	50	26.5S 27.4E; Witwatersrand	3.1
04	18	28	39	USCGS 15.5S 75.7W; Near Coast of Peru	4.7
05	01	21	20	USCGS 21.3S 174.5W; Tonga Is.	5.2
X 05	02	03	47	28.3S 26.4E; O.F.S. Goldfields	3.2
05	11	09	06	USCGS 19.7N 144.3E; Mariana Is.	4.9
05	15	35	31	Kariba	2.0
06	06	35	16	USCGS 6.2S 152.0E; New Britain Region	5.4
06	09	30	27	USCGS 10.8S 165.3E; Santa Cruz Is.	4.6
X 06	14	45	00	26.4S 27.1E; W Witwatersrand	2.4
06	23	39	28	USCGS 38.4S 73.3W; Near Coast of Central Chile	4.4
07	17	01	13	USCGS 49.4N 97.2E; USSR-Mongolia Border Region	5.0
08	07	01	55	USCGS 6.1N 125.8E; Mindanao, Phillipine Is.	5.4
X 08	10	43	52	28.2S 26.5E; O.F.S. Goldfields	3.8
08	12	01	57	USCGS 4.6N 127.1E; Talaud Is.	5.3
08	13	22	14	USCGS 21.4S 170.3E; Loyalty Is.	5.3
08	13	51	23	USCGS 5.3N 127.0E; Phillipine Is.	5.0
X 08	14	12	11	28.2S 26.4E; O.F.S. Goldfields	3.8
X 08	15	59	13	17.1S 27.0E; Kariba Area	2.3
08	16	09(40)		W. Witwatersrand	2.5
X 08	18	39	45	0.1S 30.8E; Lake George Area, Uganda	4.0
08	23	17	49	USCGS 26.6N 96.0E; Burma	4.4
X 09	03	45	49	28.3S 26.3E; O.F.S. Goldfields	3.4

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Date	G M T	Epicentre; Remarks	Mag
	h m s		CGS
X 09	10 39 44	26.4S 27.0E; W. Witwatersrand	2.8
09	11 21 58	USCGS 4.0N 126.0E; Talaud Is.	5.5
X 09	12 28 38	26.5S 28.0E; Witwatersrand	3.1
09	12 41 22	USCGS 52.4S 143.5E; W. of Macquarie Is.	5.1
X 09	18 16 11	26.4S 27.3E; W. Witwatersrand	2.7
09	19 24 07	USCGS 2.8N 125.7E; Talaud Is.	5.0
X 09	21 10 48	26.8S 28.9E; Witwatersrand	2.9
10	03 49 47	USCGS 52.7N 169.1W; Fox Is., Aleutians	4.4
10	05 26 44	USCGS 41.3S 73.6W; Near Coast of S. Chile	5.7
X 10	05 43 34	19.5S 22.4E; Okavango Swamp, Botswana	3.9
10	05 45 53	USCGS 3.6S 12.1W; N. of Ascension Is.	5.1
10	08 48 43	Okavango Swamp, Botswana	3.3
10	13 58 53	USCGS 19.3S 178.2W; Fiji Is. Region	5.1
10	13 58 53	USCGS 19.3S 178.2W; Fiji Is. Region	5.1
10	15 39 32	Kariba	2.1
X 10	15 52 22	23.6S 26.2E; S.E. Botswana	4.4
10	18 04 39	USCGS 16.4N 46.6W; N. Atlantic Ridge	4.9
X 10	19 52 49	7.2S 30.3E; Central Lake Tanganyika.	4.0
X 11	02 57 08	26.2S 30.1E; E. Transvaal	(2.6)
11	15 21 07	USCGS 10.8S 115.1E; S. of Bali Is.	5.1
X 11	16 26 09	18.9S 26.9E; Dett Area, Rhodesia	2.7
11	16 36 08	Niassa Province, Mocambique	2.4
12	00 05 07	USCGS 16.6N 46.6W; N. Atlantic Ridge	5.1
12	00 48 59	USCGS 21.1S 174.4W; Tonga Is.	5.1
X 12	01 19 44	20.2S 33.3E; S. Manica Province, Mocambique	2.5
12	01 59 28	USCGS 16.7N 46.6W; N. Atlantic Ridge	4.8
12	02 51 05	USCGS 38.3N 22.7E; Greece	4.8
12	03 07 39	USCGS 3.0S 100.6E; S. Sumatra	5.1
12	05 21 11	USCGS 44.9S 35.7E; Prince Edward Is. Region	5.6
12	09 24 06	USCGS 56.1S 27.5E; S. Sandwich Is. Region.	5.2
X 12	11 59 53	26.4S 27.8E; Witwatersrand	3.1
X 12	14 15 31	26.3S 27.7E; Witwatersrand	3.5
X 12	14 31 02	26.4S 26.9E; W. Witwatersrand	3.5
12	15 58 31	USCGS 2.0N 98.6E; N. Sumatra	
X 12	16 46 28	26.4S 26.9E; W. Witwatersrand	2.8
X 12	20 52 46	26.2S 28.0E; Witwatersrand	2.3
12	21 17 48	USCGS 3.1S 100.6E; S. Sumatra	5.4
12	23 22 45	USCGS 47.4N 154.3E; Kurile Is.	5.4
13	01 10 06	USCGS 3.0S 100.6E; S. Sumatra	5.0
X 13	14 36 24	26.4S 27.3E; Witwatersrand	(2.8)

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
13	15	39	29	USCGS 5.6S 148.1E; New Britain Region	5.4
13	22	28	47	USCGS 2.4N 126.8E; Molucca Passage	4.9
14	03	14	17	USCGS 14.9S 73.4W; Peru	5.6
14	05	06	16	USCGS 15.2S 173.6W; Tonga Is.	5.9
14	08	05	59	USCGS 47.5N 154.4E; Kurile Is.	5.3
14	08	13	02	USCGS 47.5N 154.5E; Kurile Is.	5.4
X 14	10	56	16	7.7S 31.1E; Fipa Plateau, Tanzania	3.4
X 14	17	46	22	26.4S 27.7E; Witwatersrand	3.1
15	14	09	43	USCGS 6.5S 154.5E; Solomon Is.	5.0
15	14	56	06	USCGS 34.1N 32.5E; Cyprus	5.0
15	17	33	57	USCGS 43.9S 16.1W; S. Atlantic Ridge	5.0
15	17	44	15	USCGS 43.9S 16.0W; S. Atlantic Ridge	5.0
15	18	41	58	USCGS 9.1N 40.4W; Central Mid-Atlantic Ridge	4.8
X 15	19	52	05	26.4S 27.3E; Witwatersrand	3.2
15	20	44	48	USCGS 5.4S 153.0E; New Ireland Region	5.0
16	00	03	05	Ruwenzori Area	3.9
16	05	44	02	USCGS 55.7S 146.8E; W. of Macquarie Is.	5.4
16	13	00	10	Witwatersrand	
X 16	14	51	35	30.4S 18.4E; Langeberg Mts., Cape Province	4.3
X 16	15	44	45	26.2S 27.7E; Witwatersrand	2.8
X 16	18	59	35	30.2S 27.6E; S. Lesotho	3.6
16	20	12	15	USCGS 19.4S 175.2W; Tonga Is.	5.0
16	21	47	25	USCGS 48.8S 108.5E; S.E. Indian Rise	
17	05	00	12	USCGS 58.3S 26.6W; S. Sandwich Is. Region	6.1
17	13	14	05	USCGS 23.1N 94.7E; Burma-India Border Region	4.5
X 17	13	42	23	26.4S 27.2E; W. Witwatersrand	2.7
17	17	43	55	USCGS 14.1N 90.0W; Guatemala	4.8
18	20	04	57	USCGS 3.9S 151.6E; New Ireland Region	4.9
X 19	14	48	18	17.2S 27.0E; Kariba Area	2.2
19	15	07	49	USCGS 28.0S 66.4W; Catamarca Province, Argentina	4.4
19	16	43	07	USCGS 0.6N 30.2E; Uganda	4.6
19	17	07	45	USCGS 52.7N 166.9W; Fox Is., Aleutians	5.7
X 19	17	54	26	20.2S 28.6E; Bulawayo Area, Rhodesia	2.5
19	22	09	03	USCGS 31.7S 69.1W; San Juan Province, Argentina	4.4
20	02	09	53	USCGS 52.9N 166.9W; Fox Is., Aleutian Is.	4.7
20	05	25	22	USCGS 52.8N 167.1W; Fox Is., Aleutian Is.	4.5
20	06	20	49	USCGS 52.7N 166.9W; Fox Is., Aleutian Is.	4.5
20	07	38	45	USCGS 52.8N 167.1W; Fox Is., Aleutian Is.	5.2
20	11	41	27	USCGS 52.9N 167.2W; Fox Is., Aleutian Is.	4.1
20	12	25	50	USCGS 52.8N 166.9W; Fox Is., Aleutian Is.	4.6

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Date	G h	M m	T s	Epicentre; Remarks	Mag QGS
X 20	14	32	58	14S 34E; Kirk Range, Malawi	2.3
X 20	22	03	56	26.5S 27.1E; W. Witwatersrand	2.8
X 21	01	12	31	12.2S 41.6E; Offshore N. Mocambique	3.4
X 21	03	58	08	19.5S 26.4E; Rhodesia-Botswana Border	2.8
X 21	13	56	48	26.2S 28.0E; Witwatersrand	2.8
21	15	45	28	USCGS 12.7N 123.1E; Luzon, Phillipine Is.	5.2
X 21	16	28	03	17.2S 27.0E; Kariba Area	2.5
21	16	51	06	USCGS 22.5N 144.0E; Volcano Is. Region	4.9
21	18	04	49	USCGS 64.8N 147.4W; Central Alaska	5.4
21	18	13	03	USCGS 64.8N 147.4W; Central Alaska	5.6
21	18	24	46	USCGS 64.8N 147.4W; Central Alaska	5.4
21	19	10	31	USCGS 23.5S 180.0E; S. of Fiji Is.	5.0
21	20	09	28	USCGS 25.2S 70.5W; Near Coast of N. Chile	5.7
22	02	29	36	USCGS 28.9S 68.5W; La Rosa Province, Argentina	4.6
X 22	09	24	12	22S 18E; Windhoek Area, S.W. Africa	4.2
X 22	14	37	46	26.3S 27.2E; W. Witwatersrand	2.9
22	15	36	39	USCGS 51.7N 176.8W; Andreanof Is., Aleutians	5.3
X 22	16	35	04	26.6S 27.3E; W. Witwatersrand	2.9
22	19	08	33	USCGS 1.3S 149.8E; New Ireland Region	5.0
22	21	35	14	USCGS 52.9N 166.7W; Fox Is., Aleutians	3.9
23	05	05	05	USCGS 5.8S 130.5E; Banda Sea	5.9
X 23	06	49	25	27.9S 26.2E; O.F.S. Goldfields	3.7
X 23	07	25	58	8.9S 39.4E; S. Coast, Tanganyika	4.3
23	10	06	54	USCGS 40.8N 33.6E; Turkey	4.8
23	14	38	35	USCGS 21.3S 179.3W; Fiji Is. Region	5.1
X 23	17	39	58	26.5S 27.3E; W. Witwatersrand	2.9
23	21	30	11	USCGS 19.2S 167.7E; New Hebrides Is. Region	5.3
X 24	11	01	04	15S 25E; Central Barotseland	2.5
X 24	14	10	21	26.3S 27.2E; W. Witwatersrand	2.7
X 24	14	51	55	8.3S 40.0E; Off S. Coast, Tanganyika	4.8
X 25	11	40	29	26.3S 28.0E; Witwatersrand	3.4
25	19	52	47	USCGS 52.9N 166.6W; Fox Is., Aleutians	4.5
26	03	37	56	USCGS 53.0N 166.6W; Fox Is., Aleutians	4.3
X 26	05	11	41	8.3S 32.7E; S. Lake Rukwa, Tanzania	3.3
26	20	47	04	USCGS 7.2S 108.8E; Java	4.8
26	21	27	43	USCGS 0.2S 123.0E; N. Celebes	4.9
27	00	46(00)		Witwatersrand	2.1
X 27	10	00	34	26.2S 28.0E; Witwatersrand	2.5
27	16	49	12	USCGS 53.0N 166.7W; Fox Is., Aleutians	4.3
27	21	32	35	USCGS 46.4S 95.8E; S.E. Indian Rise	

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
27	21	37	48	USCGS 46.4S 96.0E; S.E. Indian Rise	5.4
X 27	23	40	02	7.0S 30.1E; Central Lake Tanganyika	3.0
28	00	14	35	USCGS 9.5S 157.4E; Solomon Is.	5.4
X 28	01	14	45	18.1S 34.1E; N. Manica Province, Mocambique	2.5
28	01	10	04	USCGS 46.0N 151.5E; Kurile Is.	5.4
28	05	34	06	USCGS 14.4S 172.6W; Samoa Is.	4.8
28	13	27	(30)	Witwatersrand	2.4
28	13	47	56	Witwatersrand	2.2
28	14	12	(00)	Witwatersrand	2.6
X 28	14	14	11	26.3S 28.0E; Witwatersrand	2.7
X 28	16	11	11	17.2S 27.0E; Kariba Area	2.5
28	12	11	50	Witwatersrand	2.9
X 28	22	38	16	3.8S 36.5E; Masai Steppe, Tanzania	4.7
X 28	22	48	14	26.3S 27.9E; Witwatersrand	3.9
29	04	26	04	USCGS 8.7S 107.8E; Java	5.2
29	04	53	25	USCGS 51.7N 177.0W; Andreanof Is., Aleutians	4.6
29	08	22	48	USCGS 41.6N 44.0E; W. Caucasus	4.9
X 29	12	33	01	26.2S 28.0E; Witwatersrand	3.6
29	16	36	16	USCGS 7.2S 128.6E; Banda Sea	5.4
29	18	45	34	USCGS 21.5S 68.6W; Chile-Bolivia Border Region	4.4
X 30	00	31	15	26.2S 27.9E; Witwatersrand	2.4
X 30	02	08	05	26.3S 27.8E; Witwatersrand	3.3
X 30	05	18	26	26.3S 27.3E; Witwatersrand	2.5
30	05	38	43	W. Witwatersrand	2.9
X 30	15	47	00	26.2S 28.0E; Witwatersrand	2.3
X 30	16	28	03	26.3S 28.0E; Witwatersrand	3.0
X 30	17	51	00	14S 41E; Off Coast N. Mocambique	3.2
30	22	10	36	USCGS 22.4S 69.0W; N. Chile	4.4

LIST OF RECORDED PHASES: 01 to 02 JUN 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
01	BUL	eSg	02	18	31		0.3		
01	BHA	iP'	03	55	34	C	0.6	Distant	
		iSKP		59	13				
	CLK	iP'		55	40	C	0.7		
		iSKP		59	11				
	BUL	iP'		55	50	C	9.3		
		iSKP		59	26				
01	CLK	eP	06	07	42		0.3	Distant	
	BHA	iP		08	20	R	3.8		
		e		09	00				
	BUL	eiP		08	24	cR	0.8		
01	BHA	eiP	10	48	24	rC	0.3	Distant	
		e		49	42				
	CLK	eiP		48	35	rC	0.5		
		e		49	45				
	BUL	eiP			05	rC	0.6		
		e		50	47				
01	BHA	eP	13	05	49		0.2	Distant	
	BUL	iP		06	16	C	0.6		
01	BUL	eFn	14	11	16		0.8	Witwatersrand	
		eSn		12	22				
		iSg			53				
	BHA	eSg		15	52		0.2		
	CLK	eSg		16	01		0.2		
01	BUL	iPn	14	45	12	C	0.9	W. Witwatersrand	
		eSn		46	25				
		iSg		47	02				
	BHA	eSg		50	13		0.2		
	CLK	eSg			23		0.2		
01	BUL	eSg	20	01	49		0.2		
01	BUL	e	20	29	39		0.2	Distant?	
	CLK	e		30	13		0.1		
	BHA	e			33		0.1		
01	CLK	iP'	21	06	30	C	0.2	Distant	
	BUL	iP'			37	C	1.1		
		ipP'			46				
	BHA	eP'			42		0.5		
		epP'			51				
01	BUL	i	21	59	16	R	0.5	Distant	
	BHA	e			21		0.1		
02	CLK	eP	04	39	12		0.2	Distant	
	BHA	iP			31	C	0.3		
		epP			36				
	BUL	iP			52	C	0.3		
		ipP			58				
02	CLK	eP	05	21	00		0.4	Distant	
		ipP			08				
	BHA	eP			08		0.1		
	BUL	epP			37		1.1		
		ipP			46				

LIST OF RECORDED PHASES: 02 to 05 JUN 1967 - 2

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
02	BHA	e	06	41	23		0.5	Distant	
	BUL	e			33		0.5		
02	BUL	eSg	10	57	22		0.2		
02	BUL	eSg	18	33	49		0.3	W. Witwatersrand	
	CLK	eSg		36	42		0.2		
02	CLK	ePn	23	43	39		0.4	Manica Province, Mocambique	
		eSg		44	22				
	BUL	eSn		45	17		0.8		
		iSg			41				
	BHA	iSg		46	32		0.4		
03	BHA	eSn	04	45	44		0.6		
		iSg		46	20				
	BUL	eL		49	15		0.1		
03	BHA	eP'	09	28	25		0.5	Distant	
		iSKP		31	05				
	CLK	eP'		28	25		0.4		
		eSKP		31	06				
	BUL	eP'		28	32		0.5		
		i		31	39				
03	BUL	eSg	10	55	15		0.2		
03	BUL	e	13	21	33		0.3	Distant	
		e		22	11				
03	BUL	iSg	13	23	45		0.4	Witwatersrand	
04	BUL	eP	02	21	48		0.3	Distant	
	BHA	eP		22	12		0.1		
04	CLK	eP'	05	45	44		0.4	Distant	
	BHA	eiP'			50	cR	0.3		
	BUL	eP'			58		0.4		
		ePP		48	10				
		iSKP		49	21				
04	BUL	e	07	04	09		0.5	Distant	
04	BUL	eSg	13	44	48		0.5	Witwatersrand	
04	BUL	iSg	15	23	06		0.7	Witwatersrand	
04	BUL	e	18	42	13		0.3	Distant	
04	BUL	eSg	21	43	49		0.2		
05	BUL	eP'	01	40	36		0.5	Distant	
		i			56				
	BHA	eP'			45		0.3		
		e		41	04				
	CLK	e		40	53		0.3		
05	BUL	ePn	02	05	46		0.4	O.F.S. Goldfields	
		eSn		07	13				
		eSg		08	00				
		eL			07				
	BHA	eL		11	14		0.2		
05	BHA	e	11	27	08		0.2	Distant	
	BUL	i			10	R	0.8		
05	BUL	eSg	12	37	14		0.3		

LIST OF RECORDED PHASES: 05 to 08 JUN 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
05	BHA	ePn	15	36	16		0.6	Kariba	
		iPg			23				
		eSg			59				
	BUL	iPg			30		0.4		
		eSg		37	11				
06	BUL	i	06	53	59	C	0.5	Distant	
		i		54	10				
	BHA	ei			03	cR	0.4		
		e			14				
06	BUL	i	09	49	31	C	0.5	Distant	
	BHA	e			41		0.3		
06	BUL	iSg	11	44	13		0.3		
06	BUL	eSg	14	48	16		0.2		
06	BUL	i	23	52	11	C	0.3	Distant	
	BHA	e			28		0.3		
07	BUL	e	08	28	46		0.2	Distant	
07	BUL	i	12	21	32	R	0.5	Distant	
		i		22	05				
07	BHA	eP	17	13	58		0.1	Distant	
	BUL	iP		14	20	R	0.4		
08	BUL	e	00	31	30		0.2	Distant	
08	BUL	e	00	37	12		0.4	Distant	
		e			18				
	BHA	e			29		0.2		
		e			35				
08	CLK	eP	01	27	24		0.3	Distant	
		epP			43				
	BUL	eP			51		0.2		
		epP		28	10				
	BHA	eP		27	56		0.2		
		epP			15				
08	CLK	iSg	03	30	30		0.4		
	BUL	iSg		31	37		0.8		
08	BHA	e	07	15	16		0.3	Distant	
	BUL	i			17	C	0.4		
08	BUL	ePn	10	45	51		1.6	O.F.S. Goldfields	
		iSn		47	18				
		iSg		48	04				
		iL			12				
	BHA	eP		47	05		0.5		
		eS		49	29				
		iL		50	59				
	CLK	eP		47	16		0.6		
		eSg		51	16				
		eL			29				
08	CLK	iP	12	15	06	C	0.4	Distant	
	BHA	iP			34	C	0.4		
	BUL	eiP			34	cR	0.5		
08	BUL	e	13	07	12		0.2	Distant	



LIST OF RECORDED PHASES: 08 to 09 JUN 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
08	CLK	eP'	13	41	01		0.5	Distant	
		ePP		42	37				
	BUL	iP'		41	02	R	1.0		
		e			32				
		ePP		42	47				
	BHA	eIP'		41	12	rC	0.3		
		ePP		43	14				
08	BHA	i	14	04	56	C	0.2	Distant	
	BUL	i			57	C	0.5		
08	BUL	ePn	14	14	10		1.4	O.F.S. Goldfields	
		eSn		15	37				
		iSg		16	26				
	BHA	eP		15	25		0.5		
		eS		17	48				
		eL		19	19				
	CLK	eL			33		0.5		
08	BHA	ePn	16	00	02		1.0	Kariba area	
		ePg			09				
		eSn			39				
		eSg			50				
	BUL	iPg			16		0.6		
		eSg			59				
	CLK	eSg		03	13		0.2		
08	BUL	eSg	16	13	00		0.2		
08	BHA	eP	18	43	07		0.5	Lake George area, Uganda	
		eL		47	18				
	CLK	eP		43	30		0.5		
		iL		48	08				
	BUL	eP		44	18		0.3		
		eL		50	10				
08	CLK	eP	23	29	11		0.6	Distant	
		e			29				
	BHA	iP			37	C	0.8		
		e			55				
	BUL	iP			53	C	0.4		
09	BUL	ePn	03	47	48		0.7	O.F.S. Goldfields	
		eSn		49	15				
		iSg		50	00				
	BHA	eL		53	03		0.2		
	CLK	eL			15		0.2		
09	BUL	i	03	50	40	C	0.5	Distant	
09	BUL	e	06	55	25		0.3	Distant?	
09	BUL	eSg	07	17	15		0.2		
09	BUL	iSg	10	43	02		0.4		
09	CLK	eP	11	35	04		0.3	Distant	
	BHA	eP			32		0.3		
	BUL	eP			32		0.4		
09	BUL	eSg	12	18	53		0.3		
		eL		19	03				
09	BUL	iSg	12	31	53		0.7	W. Witwatersrand	
09	BUL	e	12	54	08		0.3	Distant	
		e			16				
	CLK	e			17		0.3		

LIST OF RECORDED PHASES: 09 to 10 JUN 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	BUL	iSg	15	01	28		0.6		
09	BUL	eP'	17	26	43		0.4	Distant	
	CLK	eP'			43		0.3		
	BHA	eP'			58		0.1		
09	BUL	eSg	18	19	28		0.3		
09	CLK	eP	19	37	02		0.2	Distant	
	BHA	eP			30		0.2		
	BUL	eP			30		0.4		
09	CLK	eP	19	47	15		0.2	Distant	
	BUL	eP			44		0.3		
	BHA	eP			48 03		0.2		
09	BUL	eSn	21	13	34		0.4	Witwatersrand	
		iSg			14 08				
10	BUL	e	04	09	21		0.4	Distant	
10	BUL	eiP	05	39	21	cR	2.1	Distant	
	BHA	eiP			40	cR	2.3		
	CLK	eP			59		0.2		
10	BUL	e	05	43	37		0.5	Distant	
		i			44 03				
	BHA	e			43 52		0.3		
		e			44 54				
10	BUL	ePn	05	44	59		8.	Okavango Swamp	
		iPg			45 18				
		eSn			46 00				
		iSg			29				
	BHA	ePn			45 26		2.5		
		iSn			46 48				
		iSg			47 30				
	CLK	ePn			46 30		0.7		
		iSn			48 40				
10	BHA	e	05	53	43		0.3	Distant	
		i			48				
		e			55 42				
	BUL	i			53 55	R	0.9		
		i			54 00				
		e			55 48				
10	BUL	ePg	08	50	28		1.6	Okavango Swamp	
		eSn			51 10				
		iSg			40				
	BHA	eSg			52 37		0.5		
10	BUL	eSg	09	38	49		0.6		
10	BUL	e	12	16	06		0.3	Distant?	
10	BUL	eSg	13	24	18		0.4		
10	BUL	i	14	17	02	C	0.9	Distant	
	CLK	e			02		0.3		
10	CLK	eP'	14	19	33		0.8	Distant	
	BUL	eP'			34		0.9		
	BHA	eP'			49		0.8		

LIST OF RECORDED PHASES: 10 to 12 JUN 1967 - 6

Date	Stn	Phase	G	M	T	P	DA	Epicentral region:	Remarks
			h	m	s	$\frac{P}{C}$	mm		
10	BHA	ePn	15	40	17		0.8	Kariba	
		ePg			22				
		eSn			52				
		eSg			59				
	BUL	iPg			30		0.5		
		eSg	41	10					
10	BUL	ePn	15	53	25		20.	SE Botswana	
		iSn		54	12				
		iS*			23				
		iSg			32				
	BHA	ePn			36		4.4		
		iSn		56	17				
	CLK	iSg		57	12				
		iPn		55	03		5.6		
		i			13				
		iSn		57	07				
		iSg		58	13				
		iL			18				
10	BHA	eP	18	16	50		0.6	Distant	
		ipP			56				
	BUL	eP			59		0.2		
	CLK	eP		17	22		0.2		
10	BHA	ePn	19	54	36		4.7	Central Lake Tanganyika	
		eSn		55	55				
		iSg		56	37				
		iL			41				
	CLK	ePn		55	06		1.2		
		iSn		56	46				
		eSg		57	42				
		iL			50				
	BUL	eS		58	05		0.7		
		eL		59	32				
11	BUL	eSg	03	00	16		0.3		
11	CLK	eP	15	33	01		0.4	Distant	
		epP			14				
	BUL	iP			30	R	0.5		
		epP			43				
	BHA	eP			35		0.1		
		epP			48				
11	BUL	ePn	16	26	40		7.	Dett area, Rhodesia	
		iP*			42				
		iPg			44				
		eSn		27	01				
	iS*			04					
	iSg			06					
	BHA	iSg		28	33		0.5		
CLK	eL		30	33		0.3			
11	CLK	iPn	16	36	33		5.7	Niassa Province, Mocambique	
		iSn			51				
	BUL	eSg		40	39		0.1		
11	BHA	eL	19	25	12		0.3		
	CLK	eL		26	19		0.3		
12	BHA	iP	00	17	16	R	0.7	Distant	
		i		20	41				
	BUL	eP		17	27		0.3		
		CLK	eP			49			0.2
		e		21	02				

LIST OF RECORDED PHASES: 12 to 12 JUN - 7

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
12	BUL	e	01	08	15		0.4	Distant	
		i			30				
	BHA	e			26		0.2		
		e			41				
12	BUL	eSn	01	21	41		0.6	S. Manica Province, Mocambique	
		eSg		22	03				
	CLK	eSg			06		0.4		
	BHA	eSg		23	32		0.2		
12	BHA	ei	02	11	38	rC	0.5	Distant	
		i			45				
	BUL	e			48		0.2		
		e			55				
12	BHA	eP	03	00	19		0.1	Distant	
	CLK	iP			34	C	0.4		
	BUL	eP			57		0.4		
12	BUL	e	03	19	09		0.3	Distant	
	BHA	e			10		0.3		
12	BUL	iP	05	26	29	C	7.0	Distant	
		ipP			32				
		e		31	09				
	CLK	eP		27	04		1.4		
		epP			07				
	BHA	iP			20		4.2		
		ipP			23				
12	BUL	eP	09	33	34		0.5	Distant	
		ipP			56				
	BHA	eP		34	07		0.3		
		epP			29				
12	BUL	eSg	12	03	01		0.3		
12	BUL	iPn	14	17	03	C	1.4	Witwatersrand	
		eSn		18	09				
		iSg			42				
	BHA	ePn			22		0.5		
		eSn		20	33				
		eSg		21	41				
	CLK	eL			56		0.3		
12	BUL	ePn	14	32	37		1.3	Witwatersrand	
		eSn		33	47				
		eSg		34	19				
	BHA	ePn		33	53		0.3		
		eSn		36	02				
		eSg		37	12				
	CLK	eL			41		0.5		
12	BHA	ei	16	09	42	rC	0.6	Distant	
		e		10	03				
	BUL	e			46		0.3		
12	BUL	eSn	16	49	17		0.5		
		eSg			43				
		eL			47				
12	BUL	eSg	20	55	54		0.2		
12	CLK	e	21	28(40)			0.2	Distant	
	BHA	e		29	10		0.5		
		e			18				
	BUL	e			12		0.6		
		e			19				

LIST OF RECORDED PHASES: 12 to 15 JUN 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
12	CLK	eP'	23	41	33		0.5	Distant	
		e		43	05				
	BHA	iP'		41	41	C	0.6		
		e		43	17				
	BUL	eP'		41	49		0.7		
		i		43	53				
13	BHA	iP'	01	21	34	C	0.4	Distant	
	BUL	eP'			35		0.6		
	CLK	eP'			48		0.2		
13	BUL	i	03	57	30	C	0.4	Distant	
13	BUL	eSg	14	39	35		0.4		
13	BUL	e	15	58	51		0.4	Distant?	
13	BHA	e	22	42	20		0.1	Distant	
	BUL	e			20		0.2		
14	BUL	i	03	27	34	R	0.9	Distant	
		i		28	02				
	BHA	e			41		0.1		
14	BUL	eP'	05	25	34		0.5	Distant	
		epP'			44				
		i		26	00				
	CLK	eP'		25	(40)		0.2		
	BHA	eP'			49		1.2		
		epP'		26	06				
		e			16				
14	BHA	e	08	24	59		0.3	Distant	
	BUL	e		25	15		0.3		
		e			57				
14	BHA	e	08	31	57		0.4	Distant	
	BUL	e		32	05		0.5		
		e		34	10				
14	BHA	ePn	10	58	00		1.2	Fipa Plateau, Tanzania	
		eSn		59	14				
		eSg			55				
	CLK	ePn		58	08		0.6		
		eSn		59	31				
		eSg	11	00	14				
	BUL	eL		02	49		0.2		
14	BUL	eSg	17	49	36		0.8		
15	BUL	iSg	14	13	33		0.5		
15	BUL	e	14	28	26		0.3	Distant	
15	BHA	i	15	04	45	C	0.4	Distant	
	BUL	e		05	26		0.2		
15	BUL	iP	17	42	01	C	0.8	Distant	
		ipP			08				
	BHA	eP			32		0.4		
		epP			38				
	CLK	eP		43	00		0.5		
15	BUL	eP	17	51	25		0.3	Distant	
		ipP			32				
	BHA	eP		51	58		0.1		
		epP		52	04				

LIST OF RECORDED PHASES: 15 to 17 JUN 1967 - 9

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
15	BUL	iP	17	52	20	C	0.5	Distant	
		e		53	57				
		e		55	46				
	BHA	eP		52	51	0.4			
e		54	52						
15	BHA	ei	18	53	23	rC	0.3	Distant	
15	BUL	ePn	19	53	38		1.1	Witwatersrand	
		eSn		54	47				
		iSg		55	19				
15	BUL	ePn	20	11	08		0.7	Witwatersrand	
		eSn		12	17				
		eSg			49				
15	BUL	e	21	03	35		0.2	Distant?	
	BHA	e			40		0.1		
15	BUL	eSg	22	43	24		0.7	Witwatersrand	
16	BHA	ePn	00	06	36		0.5	Ruwenzori area	
		eSg		10	48				
		iL			58				
	BUL	eL		14	(20)	0.2			
16	BUL	e	05	57	01		0.2	Distant	
	BHA	e			23		0.3		
16	BUL	e(Sg)	13	03	21		0.2		
16	BUL	ePn	14	54	47		1.2	Langeberg Mts., Cape Province	
		eSn		57	12				
		eSg		58	34				
		iL			42				
	BHA	eSg	15	01	11	0.5			
		eL			21				
	CLK	eSg		02	16	0.8			
	eL				28				
16	BUL	eSg	15	47	53		0.5	Witwatersrand	
16	BUL	ePn	19	01	59		0.9	S. Lesotho	
		eSn		03	42				
		iSg		04	42				
	BHA	eS		06	07	0.2			
		eL		07	50				
16	BUL	e	20	31	23		0.2	Distant	
	BHA	e			33		0.2		
16	BUL	eP	21	58	27		0.3	Distant	
		e		59	57				
	BHA	eP		58	52	0.2			
		e	22	00	51				
17	BHA	eSn	01	58	27		1.1		
		iSg			52				
	iL			59					
BUL	eL	02	00	52	0.2				

LIST OF RECORDED PHASES: 17 to 21 JUN 1967 - 10

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
17	BUL	iP	05	09	30	C	22.	S. Sandwich Is. region
		ipP		10	10			
		eS		16	52			
		iSKS		19	12			
		iP'P'		39	34			
	BHA	iP		10	03	C	15.	
		epP			44			
		iS		18	01			
		iSKS		19	48			
		iP'P'		39	36			
17	BUL	i	13	25	49	C	0.3	Distant
17	BUL	eSg	13	45	38		0.3	W. Witwatersrand
17	BUL	eP	16	51	39		0.4	Distant
	BHA	eP		52	11		0.2	
17	BHA	e	18	02	36		0.6	Distant
	BUL	e			37		0.4	
18	BUL	e	09	00	51		0.2	Distant
18	BUL	eSg	09	34	11		0.2	
		eL			19			
18	BUL	e(L)	16	50	40		0.2	
18	BUL	eSg	17	30	28		0.2	
18	BUL	ei	20	23	12	rC	0.8	Distant
	BHA	ei			15	rC	0.7	
19	BUL	iP	01	34	32	C	0.6	Distant
	BHA	eiP		35	05	cR	0.4	
20	BUL	i	06	40	29	C	1.0	Distant
20	BUL	i	07	55	21	R	0.6	Distant
20	BUL	e	07	58	23		4.2	Distant
		i			36			
20	BUL	i	12	01	00	C	0.4	Distant
		e			10			
20	BUL	ei	12	45	29	cR	0.5	Distant
		i			40			
20	CLK	iPn	14	33	25	C	3.7	Kirk Range, Malawi
		iSn			43			
		iSg			46			
	BUL	eSg		37	00		0.1	
20	BUL	eSg	14	38	38		0.2	
20	BUL	eSg	14	40	58		0.3	
20	BUL	eSg	22	07	13		0.4	
21	CLK	ePn	01	14	15		1.4	Offshore N. Mocambique
		eSn		15	31			
		eSg		16	08			
		iL			11			
	BHA	eL		19	15		0.2	
	BUL	eL		20	08		0.2	

LIST OF RECORDED PHASES: 19 to 20 JUN 1967 - 10A

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
19	BHA	eSg	14	42	21		0.4		
	BUL	eSg		43	07		0.2		
19	BHA	ePn	14	49	06		0.9	Kariba area	
		eSn			43				
		eSg			52				
	BUL	iPg			19		0.6		
		eSg		50	01				
19	BUL	iP	15	20	10	C	1.1	Distant	
		e			51				
	BHA	iP			23	C	0.6		
19	BHA	eP	16	46	36		1.6	Ruwenzori area	
		iL		51	04				
	BUL	eP		47	47		0.7		
		eL		53	54				
19	BHA	eP'	17	27	13		0.3	Distant	
		iSKP		30	10				
	BUL	iP'		27	21	C	5.6		
		eSKP		30	33				
19	BUL	iPg	17	54	29	C	14.	Bulawayo area, Rhodesia.	
		iSg			31			Felt to a distance of 100 Km	
	BHA	ePn		55	48		0.3	of Bulawayo	
		eSn		56	52				
		eSg		57	19				
19	BUL	e	18	18	49		0.5	Distant	
		i			55				
	BHA	e			53		0.3		
		i			59				
19	BUL	e	20	42	42		0.2	Distant?	
19	BUL	ei	22	21	31	rC	0.3	Distant	
	BHA	e			46		0.2		
20	BUL	e	02	29	31		0.2	Distant	
20	BUL	e	04	13	31		0.2	Distant	
20	BUL	iP'	05	44	59	C	1.3	Distant	
		ipP'		45	10				
		eSKP		48	22				



LIST OF RECORDED PHASES: 21 to 22 JUN 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks		
			h	m	s	$\bar{C}$	mm			
21	BUL	iPn	03	58	42	C	3.2	Rhodesia-Botswana Border		
		iP*			44					
		iPg			46					
		eSn		59	05					
		iS*			08					
		iSg			11					
		BHA	eSg	04	00	55				0.6
	CLK	eSg		02	42		0.4			
21	BUL	e	12	40	44		0.3	Distant		
21	BUL	ePn	13	58	21		0.4	Witwatersrand		
		eSg			59	58				
21	BUL	eSg	15	20	07		0.2			
21	BUL	eP'	15	58	54		0.5	Distant		
		CLK			59	00				
21	BHA	ePn	16	28	52		2.4	Kariba area		
		iPg			57					
		eSn			29					
		eSg			38					
		BUL	ePn			55				0.9
			iPg		29	05				
			eSg			47				
	CLK	eSg		31	56		0.2			
21	CLK	e	17	08	25		0.3	Distant		
	BUL	e		09	45		0.3			
21	BUL	eP'	18	24	08		0.4	Distant		
		epP'			13					
21	BHA	eP'	18	32	17		0.3	Distant		
		eSKP			35	42				
		BUL	eP'			32			27	0.4
			eSKP			35			58	
21	BUL	e	18	44	04		0.4	Distant		
21	BUL	e	19	23	04		0.5	Distant		
21	BUL	e	19	28	37		0.5	Distant		
		e			50					
21	CLK	iP'	19	31	06	C	0.7	Distant		
	BUL	eiP'			07	rC	1.9			
	BHA	eP'			25		0.8			
21	BUL	eSg	20	14	52		0.2			
21	BUL	iP	20	22	25	C	2.3	Distant		
		ipP			40					
		e			26	17				
		BHA	eP			22			43	0.3
			e			23			24	
			CLK	eP					00	0.4
22	BUL	e	02	42	09		0.3	Distant		
		e			36					
22	PUL	eSn	09	28	26		3.0	Windhoek area, S.W. Africa		
		eS*			29	04				
		iSg			28					
		iL			34					
		BHA	eL			30			51	1.3
			eL			33			14	
			CLK	eL						0.3

LIST OF RECORDED PHASES: 22 to 23 JUN 1967 - 12

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
22	BUL	i	11	17	51	C	0.5	Distant	
22	BUL	eSn eSg	14	40	26 58		0.6	Witwatersrand	
22	CLK	eP'	15	55	55		0.7	Distant	
	BHA	eP'		56	00		0.3		
	BUL	eP'			03		0.6		
22	BUL	eSn eSg	16	37	50 38 25		0.5		
22	BUL	e i	19	27	22 27		0.5	Distant	
22	BUL	i	21	54	49	R	0.6	Distant	
23	BUL	e	00	44	54		0.2	Distant	
	BHA	e		45	03		0.5		
23	BUL	eP'	01	01	38		0.3	Distant	
	CLK	eP'			41		0.2		
	BHA	eP'			46		0.6		
23	CLK	eP	05	18	14		0.7	Distant	
	BUL	iP e			38 22 40	C	0.7		
	BHA	eP		18	44		0.3		
23	BUL	ePn eSn eSg iL	06	51	21 52 48 53 32 37		1.6	O.F.S. Goldfields	
	BHA	eP eS eL		52 55	38 00 56 32		0.4		
	CLK	eSg			46		0.4		
23	CLK	ePn eSn eSg iL	07	27	53 29 16 30 02 08		8.	S. Coast, Tanganyika	
	BHA	eP eS eL		28 30	47 52 32 15		0.8		
	BUL	ePn eSn eSg iL		29 32	30 16 33 50 34 00		1.2		
23	BUL	e(L)	10	14	25		0.2		
23	BHA	eP	10	16	29		0.2	Distant	
	CLK	eP			37		0.2		
	BUL	eP		17	07		0.3		
23	BUL	eSg	12	00	22		0.3		
23	CLK	eP'	14	56	38		0.2	Distant	
	BUL	eP'			39		1.0		
	BHA	eP'			50		0.5		
23	CLK	eP'	14	59	07		0.6	Distant	
	BUL	eP'			07		1.0		
	BHA	eiP'			24	rC	1.4		
23	BUL	eSg	17	43	14		0.3		

LIST OF RECORDED PHASES: 23 to 26 JUN 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
23	BUL	eP'	21	49	07		0.6	Distant	
		epP'			19				
	BHA	eP'			16		0.3		
		epP'			27				
	CLK	e_'			16		0.2		
24	BUL	e	01	15	15		0.3	Distant?	
24	BHA	ePn	11	02	03		1.2	Central Barotseland	
		eSn			45				
		eSg			03 01				
	BUL	eSg			04 16		0.2		
24	CLK	eP'	13	49	08		0.3	Distant	
	BUL	eiP'			09	rC	0.6		
	BHA	eP'			24		0.5		
24	BUL	eSg	14	13	33		0.3	W. Witwatersrand	
24	CLK	ePn	14	54	01		24.	Off S. Coast, Tanganyika	
		i			06				
		eSn			55 34				
		iSg			56 17				
		iL			23				
	BHA	ePn			54 55		2.4		
		e			55 11				
		eSn			57 07				
		iSg			58 25				
		iL			37				
	BUL	ePn			55 38		3.0		
		i			50				
		eSn			58 34				
		eSg			15 00 04				
		iL			17				
25	BUL	ePn	11	41	59		1.6	Witwatersrand	
		eSn			43 05				
		iSg			36				
	CLK	eSg			46 43		0.3		
25	BUL	i	20	12	20	R	0.6	Distant	
		i			32				
25	BUL	e	22	09	56		0.4	Distant	
25	BUL	eSg	23	30	11		0.2		
25	BUL	e(L)	23	36	54		0.2		
	CLK	e(L)			37 14		0.2		
	BHA	e(L)			37 55		0.2		
26	BUL	e	03	57	30		0.5	Distant	
		e			42				
26	BHA	eSn	05	14	46		1.7	Lake Rukwa, Tanzania	
		iSg			15 26				
	CLK	eSg			32		0.4		
	BUL	eL			18 18		0.2		
26	BUL	e	16	19	38		0.4	Distant	
	CLK	e			45		0.4		
26	CLK	eP	20	58	31		0.3	Distant	
	BUL	eP			59 04		0.4		
	BHA	eP			07		0.3		
26	BHA	e	21	40	42		0.2	Distant	
	BUL	e			42		0.6		

LIST OF RECORDED PHASES: 27 to 28 JUN 1967 - 14

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
27	BUL	eSg	00	49	16		0.1	Witwatersrand	
27	BUL	eSg	10	03	39		0.3	Witwatersrand	
27	BUL	e	17	08	46		0.4	Distant	
27	BUL	e	17	27	33		0.2	Distant?	
27	BUL	e	18	15	05		0.2	Distant	
27	CLK	eP'	21	42	31		0.3	Distant	
	BUL	iP			41	C	0.5		
	BHA	eP		43	08		0.2		
27	CLK	eiP	21	47	46	cR	0.4	Distant	
		epP		48	01				
	BUL	iP		47	55	C	1.0		
		ipP		48	10				
	BHA	eP			22		0.4		
		ipP			37				
27	BUL	e	22	53	56		0.2	Distant?	
		e		54	03				
27	BHA	eSn	23	43	12		0.4	Central Lake Tanganyika	
		eSg			52				
		iL		44	00				
	CLK	eSn			03		0.2		
		eSg		45	00				
28	BUL	e	00	33	30		0.3	Distant?	
	BHA	e			35		0.1		
28	CLK	ePn	01	15	23		0.8	N. Manica Province,	
		eSn			51			Mocambique	
		iSg			58				
	BUL	iSg		17	32		0.6		
	BHA	eL		18	18		0.1		
28	CLK	eP'	01	28	51		0.2	Distant	
	BHA	eiP'			58	cR	0.3		
	BUL	eiP'		29	05	cR	0.4		
28	BUL	e	02	34	27		0.3	Distant	
28	BUL	e	05	53	28		0.2	Distant	
	BHA	i			35	C	0.5		
28	BUL	eSg	13	30	42		0.2	Witwatersrand	
28	BUL	eSg	13	50	54		0.2	Witwatersrand	
28	BUL	eSg	14	15	05		0.3	Witwatersrand	
28	BUL	eSg	14	17	22		0.3	Witwatersrand	
28	BHA	ePn	16	11	59		1.6	Kariba area	
		iSn		12	38				
		iSg			45				
	BUL	ePn			04		0.9		
		iPg			10				
		eSn			44				
		eSg			54				
	CLK	eSg		15	03		0.2		
28	BUL	iSg	21	15	05		0.3	Witwatersrand	

LIST OF RECORDED PHASES: 28 to 30 JUN 1967 - 15

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
28	CLK	ePn	22	41	05		5.0	Masai Steppe, Tanzania	
		eSn		43	10				
		iL		44	31				
	BHA	ePn		41	22		6.		
		eSg		44	57				
	BUL	eP		42	(30)		1.3		
	eL		47	40					
28	BUL	ePn	22	49	45		4.3	Witwatersrand	
		eSn		50	52				
		iSg		51	22				
	BHA	ePn			03		0.8		
		eSn		53	08				
	CLK	eSg		54	20		1.0		
29	CLK	eP	03	08	45		0.5	Distant	
	BHA	eiP			56	cR	0.5		
	BUL	iP		09	22	C	0.6		
29	CLK	eP	04	37	20		0.2	Distant	
	BUL	iP			53	R	0.5		
	BHA	eP			57		0.3		
29	CLK	eP'	05	12	44		0.2	Distant	
	BHA	eP'			46		0.2		
	BUL	eP'			49		0.2		
29	CLK	e	08	32	32		0.2	Distant	
	BUL	i		33	12	C	0.3		
29	BUL	ePn	12	34	31		2.8	Witwatersrand	
		eSn		35	39				
		iSg		36	09				
	BHA	ePn		35	48		0.4		
		eSn		37	53				
	CLK	eSg		39	04		0.6		
29	BUL	e	15	54	24		0.2		
29	CLK	iP	16	49	10	C	0.8	Distant	
	BUL	iP			35	C	0.8		
		e		50	34				
	BHA	iP		49	40	C	0.3		
29	BUL	ei	18	58	19	rC	0.4	Distant	
		i			51				
30	BUL	eSg	00	34	35		0.2	Witwatersrand	
30	BUL	ePn	02	09	37		1.3	Witwatersrand	
		eSn		10	43				
		iSg		11	16				
	BHA	ePn		10	55		0.3		
		eSn		12	50				
	CLK	ePn		11	02		0.2		
	eSg		14	28					
30	BUL	eSg	05	21	27		0.2	Witwatersrand	
30	BUL	iSg	05	42	03		0.4	Witwatersrand	
30	BUL	eSg	15	50	00		0.2	Witwatersrand	

LIST OF RECORDED PHASES: 30 to 30 JUN 1967 - 16

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA	Epicentral region:	Remarks
			h	m	s		mm		
30	BUL	ePn	16	29	32		0.8	Witwatersrand	
		eSn		30	44				
		iSg		31	12				
30	CLK	iSg	17	54	03		1.3	Off Coast, N. Mocambique	
		iL			07				
	BHA	eSg		57	00		0.2		
	BUL	eL			56		0.2		
30	BUL	e	22	23	19		0.2	Distant	
		e			46				



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SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

EPICENTRES ONLY PLO. V W

The following stations contribute records for analysis and publication in this Bulletin:

BROKEN HILL (BHA): 14° 26.8' S; 28° 28.1' E; Alt. 1206 m.  
 Litho. foundation: Dolomite and shales of the Middle Katanga System.  
 Authority: Zambia Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

CHILWKA (CLK): 15° 40.8' S; 34° 58.6' E; Alt. 781 m.  
 Litho. foundation: Charnockitic granulites of the Basement Complex.  
 Authority: Malawi Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.

KAROI (KRR): 16° 51.1' S; 29° 37.1' E; Alt. 1380 m.  
 Litho. foundation: Granitic gneisses of the Zambesi type.  
 Authority: Rhodesia Meteorological Service.  
 Instrument: Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.

BULAWAYO (BUL): 20° 08.6' S; 28° 36.8' E; Alt. 1341 m.  
 Litho. foundation: Hornblend schists of the Bulawayan System.  
 Authority: Rhodesia Meteorological Service.  
 Instruments: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
 WSSS Station: SP magnification 100,000.  
 LP magnification 1,500.

CHIREDDZI (CIR): 21° 00.8' S; 31° 34.8' E; Alt. 430 m.  
 Litho. foundation: Gneisses or Charnockites of the Limpopo belt.  
 Authority: Rhodesia Meteorological Service.  
 Instrument: Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
 P. O. Box 562, Bulawayo, Rhodesia.

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
01	06	42	34	USCGS 0.8S 98.8E; S. Sumatra	4.9
01	07	28	58	USCGS 0.8S 98.7E; S. Sumatra	5.5
01	09	16	44	USCGS 56.2S 27.3W; S. Sandwich Is. Region	5.0
X 01	13	34	42	14S 41E; Offshore N. Mocambique	3.1
X 01	14	09	10	15.0S 33.3E; Tete Province, Mocambique	2.3
01	21	22	10	USCGS 54.ON 161.0W; Alaska Peninsula	4.5
X 01	23	05	24	7S 28E; Tanganika Province, Congo	3.0
01	23	10	07	USCGS 54.4N 158.0W; S. of Alaska	6.2
02	02	36	20	USCGS 54.5N 158.0W; S. of Alaska	4.7
02	07	03	53	USCGS 8.7N 93.8E; Nicobar Is. Region	5.7
02	07	38	15	USCGS 33.ON 141.6E; Off E. Coast of Honshu, Japan	5.0
02	08	32	39	USCGS 33.2N 75.6E; E. Kashmir	4.8
02	10	09	13	USCGS 54.7N 157.7W; S. of Alaska	4.8
X 02	13	06	25	8.6N 93.8E; Nicobar Is. Region	4.7
02	14	09	38	USCGS 8.5N 93.8E; Nicobar Is. Region	5.2
02	14	19	14	USCGS 8.5N 93.8E; Nicobar Is. Region	4.9
X 02	16	12	00	8.5N 93.8E; Nicobar Is. Region	4.7
X 02	16	29	30	26.0S 27.7E; Witwatersrand	2.2
X 02	18	24	(10)	14S 19E; Angola	3.0
02	18	36	19	USCGS 8.6N 93.8E; Nicobar Is. Region	4.5
X 03	00	09	49	19S 33E; Central Manica Province, Mocambique	2.2
03	01	52	54	Broken Hill Area, Zambia	2.0
03	02	58	53	USCGS 54.7N 157.7W; S. of Alaska	4.2
03	03	42	18	USCGS 12.3N 143.9E; S. of Mariana Is.	5.0
03	06	54	43	USCGS 54.6N 157.7W; S. of Alaska	4.6
03	09	39	39	USCGS 54.6N 158.0W; S. of Alaska	4.2
03	11	03	45	USCGS 21.9S 179.8E; S. of Fiji Is.	
03	12	43	57	USCGS 22 8S 69.0W; N. Chile	4.8
X 03	14	16	20	26.4S 28 0E; Witwatersrand	2.8
X 03	14	55	49	26.4S 27.6E; Witwatersrand	2.7
X 03	15	41	18	26.2S 30.9E; Forbes Reef Area, Swaziland	2.9
03	21	48	51	USCGS 7.4S 13.4W; Ascension Is. Region	4.8
04	02	20	46	USCGS 59.ON 153.7W; S. Alaska	
X 04	03	55	26	26.4S 27.3E; Witwatersrand	2.4
X 04	04	00	06	26.2S 27.5E; Witwatersrand	2.6
X 04	04	24	55	26.1S 27.3E; Witwatersrand	3.6
X 04	04	27	14	26.3S 27.8E; Witwatersrand	3.3
X 04	04	35	44	3S 37E; Mt. Kilimanjaro Area, Tanzania	4.3
04	06	20	23	Witwatersrand	2.4
04	10	54	10	Witwatersrand	2.5



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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
04	14	16	52	USCGS 38.1S 73.4W; Near Coast of Central Chile	5.4
04	23	42	14	USCGS 43.2N 142.5E; Hokkaido, Japan Region	5.6
05	00	53	14	USCGS 36.8N 21.3E; S. Greece	4.8
05	04	03	07	USCGS 54.5N 157.9W; S. of Alaska	4.8
X 05	16	00	53	2.3S 28.9E; S. Lake Kivu	4.1
06	05	06	13	USCGS 62.4N 147.4W; Central Alaska	5.1
06	05	21	25	USCGS 56.1S 27.3W; S. Sandwich Is. Region	5.0
06	08	21	50	USCGS 36.7N 21.4E; S. Greece	4.5
06	13	42	23	USCGS 52.6N 168.2W; Fox Is., Aleutians	5.9
06	16	14	25	USCGS 52.8N 168.1W; Fox Is., Aleutians	4.1
06	18	58	40	USCGS 13.4N 50.8E; E. Gulf of Aden	4.9
06	19	19	48	USCGS 8.1N 38.5W; Central Mid-Atlantic Ridge	4.9
X 06	19	33	04	13.1S 34.5E; Lake Malawi	3.3
X 06	19	58	49	26.4S 27.3E; Witwatersrand	3.1
X 06	23	26	45	26.5S 28.4E; Witwatersrand	3.0
07	01	09	59	USCGS 13.5N 50.8E; E. Gulf of Aden	4.8
07	09	42	08	USCGS 20.3S 177.7W; Fiji Is. Region	4.6
X 07	15	06	05	23.9S 31.0E; Phalaborwa Area, Transvaal	2.7
X 07	16	07	41	17.1S 26.9E; Kariba Area	2.6
07	19	25	19	USCGS 9.8S 160.0E; Solomon Is.	4.6
X 07	22	10	04	18.4S 34.0E; Manica Province, Mocambique	3.5
07	22	56	31	USCGS 27.8N 92.2E; India-China Border Region	4.9
08	00	58	55	USCGS 15.4S 167.5E; New Hebrides Is.	5.2
X 08	12	19	03	26.5S 27.8E; Witwatersrand	3.4
X 08	16	39	59	3S 36E; Mt. Hanang Area, Tanzania	4.2
X 08	21	20	41	28.2S 27.0E; O.F.S. Goldfields	3.0
X 09	04	14	34	26.6S 27.7E; Witwatersrand	2.9
X 09	08	39	50	8.4S 31.3E; S. Fipa Plateau, Tanzania	3.7
09	09	54	(30)	Witwatersrand	2.9
10	12	01	31	USCGS 5.9S 113.1E; Java Sea	5.4
X 10	13	09	49	27.0S 26.2E; W. Witwatersrand	2.8
10	19	18	15	USCGS 4.8N 127.1E; Talaud Is.	5.2
10	20	52	00	Lake Kivu Area, Congo?	3.6
X 11	03	21	27	26.3S 27.7E; Witwatersrand	2.3
11	04	17	02	USCGS 7.0S 155.8E; Solomon Is.	4.8
11	14	52	58	USCGS 20.9S 68.8W; Chile-Bolivia Border Region	4.7
X 11	16	41	33	26.4S 27.6E; Witwatersrand	2.4
12	01	47	31	USCGS 51.8N 175.0W; Andreanof Is., Aleutians	4.5
12	10	32	02	USCGS 54.9N 161.1W; Alaska Peninsula	5.0
X 12	16	11	03	17.0S 27.2E; Kariba Area	2.2

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
X 12	16	21	09	5.8S 29.0E; Central Lake Tanganyika Area, Congo	4.2
12	21	14	53	USCGS 16.1S 178.3E; Fiji Is.	5.3
12	21	52	36	USCGS 55.6S 30.2W; S. Sandwich Is. Region	5.3
X 12	22	36	22	30S 20E; Bushman Land, Cape Province	3.7
X 13	00	17	02	5.7S 29.0E; Central Lake Tanganyika Area, Congo	4.3
X 13	00	26	04	26.4S 27.2E; W. Witwatersrand	3.0
X 13	01	17	58	8.9S 27.6E; Mitumba Range, Congo	3.2
13	02	10	20	USCGS 35.5N 0.1W; Algeria	5.0
13	02	52	37	USCGS 5.3S 35.1E; Central Tanzania	4.6
13	10	04	19	USCGS 20.4S 169.3E; New Hebrides Is.	5.0
13	14	20	39	USCGS 15.2S 74.9W; Near Coast of Peru	5.2
X 14	02	35	20	5.5S 28.7E; Central Lake Tanganyika Area, Congo	3.7
14	02	47	53	USCGS 11.4S 166.2E; Santa Cruz Is.	5.2
X 14	04	11	16	11S 33E; Upper Luanga Valley, Zambia	3.4
14	09	06	22	USCGS 8.8S 124.1E; Timor	5.3
X 14	09	54	52	26.5S 27.7E; Witwatersrand	3.2
14	13	53	23	USCGS 54.0N 164.3W; Unimak Is. Region	4.7
X 14	17	13	48	26.3S 28.0E; Witwatersrand	2.3
14	18	35	47	USCGS 16.4S 66.8E; Mid-Indian Rise	5.2
15	03	26	57	USCGS 49.8N 78.1E; E. Kazakh, SSR	5.4
X 15	13	47	49	26.4S 27.3E; W. Witwatersrand	3.1
15	14	40	35	USCGS 6.8N 126.3E; Mindanao, Phillipine Is.	5.3
X 15	20	28	34	8.3S 30.0E; S. Lake Tanganyika Area	3.4
16	09	42	41	USCGS 31.6S 70.0W; Chile-Argentina Border Region	4.7
16	13	34	30	USCGS 0.8S 132.6E; W. New Guinea Region	5.2
X 16	16	51	16	15.6S 51.6E; Tete Province, Mocambique	2.6
X 17	03	38	06	26.0S 28.8E; E. Witwatersrand	3.5
17	11	28	13	USCGS 51.1N 169.3W; Fox Is., Aleutians	5.0
X 17	16	16	50	26.4S 27.2E; W. Witwatersrand	2.9
X 17	16	48	03	16S 22E; S.E. Angola	2.8
17	18	45	03	USCGS 42.7S 83.4W; W. Chile Rise	4.9
18	16	14	39	USCGS 54.6N 158.2W; S. of Alaska	4.2
X 18	21	19	19	26.4S 27.8E; Witwatersrand	2.9
19	09	11	05	USCGS 21.3S 66.6W; S. Bolivia	4.8
19	20	40	50	USCGS 20.2S 67.1E; Mid-Indian Rise	4.8
20	01	39	45	USCGS 46.9S 33.9E; Prince Edward Is. Region	5.0
X 20	08	43	11	26.4S 27.2E; W. Witwatersrand	2.9
20	11	40	41	USCGS 6.3S 147.0E; E. New Guinea Region	5.1
20	13	11	35	USCGS 28.1S 66.9W; Catamarca Province, Argentina	5.3
X 20	14	20	10	26.2S 28.1E; Witwatersrand	2.3

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
20	14	26	14	USCGS 51.4N 178.3E; Rat Is., Aleutians	5.3
20	15	36	20	USCGS 7.7N 134.9E; W. Caroline Is.	5.8
X 20	16	04	57	17.1S 26.9E; Kariba Area	2.7
X 20	16	20	04	26.3S 27.9E; Witwatersrand	2.4
X 20	18	41	09	26.2S 28.3E; Witwatersrand	3.0
21	07	02	08	USCGS 4.8S 101.4E; S. Sumatra	5.0
21	14	04	04	Witwatersrand	2.7
21	19	28	08	USCGS 19.2S 168.6E; New Hebrides Is.	4.5
22	03	58	03	USCGS 33.5S 179.0W; S. of Kermadec Is.	5.0
22	07	49	36	USCGS 59.7S 26.2W; S. Sandwich Is. Region	5.4
22	11	08	22	USCGS 8.1S 117.7E; Sumbawa Is. Region	4.9
22	13	47	54	USCGS 31.6S 69.5W; San Juan Province, Argentina	4.9
22	16	56	53	USCGS 40.7N 30.8E; Turkey	(7.2)
22	17	48	06	USCGS 40.6N 30.7E; Turkey	5.0
22	18	09	56	USCGS 40.8N 30.4E; Turkey	5.0
22	23	41	59	USCGS 40.6N 30.7E; Turkey	4.7
23	03	08	44	USCGS 15.7S 167.1E; New Hebrides Is.	4.9
23	04	03	39	USCGS 40.6N 30.6E; Turkey	4.5
23	13	48	06	USCGS 56.2S 158.3E; Macquarie Is. Region	5.1
X 24	03	13	19	1.3S 28.7E; Lake Kivu Area	4.7
24	07	39	32	USCGS 8.3S 121.3E; Flores Is. Region	5.7
X 24	08	42	23	26.3S 27.7E; Witwatersrand	3.0
X 24	16	03	16	3.3S 27.6E; Kivu Province, Congo	4.9
X 24	23	01	26	26.4S 27.9E; Witwatersrand	3.5
25	07	19	01	USCGS 22.5S 66.0W; Jujuy Province, Argentina	4.3
25	13	00	39	USCGS 28.9N 54.5E; S. Iran	4.5
X 25	18	14	04	26.3S 28.0E; Witwatersrand	2.3
X 26	00	19	21	20.1S 32.1E; Bikita Area, Rhodesia	2.7
26	06	31	11	USCGS 31.8S 178.7W; Kermadec Is.	5.1
26	08	14	56	USCGS 22.0S 170.1E; Loyalty Is. Region	5.0
26	18	53	01	USCGS 39.5N 40.4E; Turkey	5.6
X 26	21	46	47	26.2S 27.7E; Witwatersrand	2.3
27	00	08	40	USCGS 6.8S 155.4E; Solomon Is.	5.2
X 27	05	39	36	26.4S 27.2E; Witwatersrand	3.3
27	11	35	34	USCGS 35.1S 54.0E; S. Indian Ocean	5.0
X 27	12	22	54	26.3S 28.0E; Witwatersrand	2.3
X 27	14	42	50	26.2S 28.0E; Witwatersrand	3.1
X 27	16	45	04	26.4S 27.8E; Witwatersrand	2.3
28	09	47	19	USCGS 49.7S 117.0E; S. of Australia	5.0
X 28	14	13	27	26.4S 27.7E; Witwatersrand	2.7

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Date	G M T h m s	Epicentre; Remarks	Mag CGS
28	14 25 50	USCGS 20.7S 178.5W; Fiji Is. Region	4.7
28	17 27 36	USCGS 2.1N 98.0E; N. Sumatra	5.1
28	18 32 40	USCGS 15.2S 178.5W; Fiji Is. Region	4.3
X 28	19 18 38	26.2S 27.6E; Witwatersrand	2.7
28	20 06 54	USCGS 8.4S 116.9E; Sumbawa Is. Region	5.4
28	23 39 00	USCGS 5.2S 145.0E; E. New Guinea Region	5.0
X 29	00 49 27	26.5S 27.2E; W. Witwatersrand	2.8
29	05 20 05	USCGS 6.6S 155.2E; Solomon Is.	5.0
29	10 24 25	USCGS 6.8N 73.0W; N. Colombia	6.0
X 29	13 37 44	26.0S 28.1E; Witwatersrand	3.1
29	14 19 04	USCGS 7.0S 155.8E; Solomon Is.	4.6
30	01 31 02	USCGS 40.7N 30.4E; Turkey	5.6
30	03 37 23	USCGS 22.0N 143.8E; Volcano Is. Region	5.1
X 30	03 53 55	26.3S 27.9E; Witwatersrand	2.4
X 30	05 36 28	11.1S 41.5E; Offshore N. Mocambique	3.7
30	08 19 28	USCGS 60.1S 28.5W; S. Sandwich Is. Region	5.2
30	10 49 33	USCGS 56.2S 146.9E; W. of Macquarie Is.	5.1
30	13 35 14	USCGS 5.3S 153.5E; New Ireland Region	5.2
30	15 21 15	USCGS 10.6S 166.1E; Santa Cruz Is.	4.6
X 30	17 23 12	26.4S 27.3E; W. Witwatersrand	2.7
30	17 24 43	USCGS 17.8S 178.8W; Fiji Is. Region	5.1
X 30	20 15 55	13S 25E; N.W. Zambia	2.5
X 30	21 04 59	11.1S 27.2E; Jadotville Area, Congo	3.2
30	22 21 43	USCGS 56.3S 26.9W; S. Sandwich Is. Region	5.3

LIST OF RECORDED PHASES: 01 to 02 JUL 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
01	BUL	e	06	53	57		0.2	Distant	
01	CLK	eP	07	39	32		0.4	Distant	
	BHA	epP			40				
	BHA	iP		40	12	R	0.8		
	BUL	ipP			20				
	BUL	iP			15	R	0.6		
		epP			23				
01	BHA	eP'	09	26	35		0.2	Distant	
	BUL	eP'			36		0.3		
	CLK	eP'			51		0.2		
01	CLK	iSg	13	37	45		0.9	Offshore N. Mocambique	
		iL			50				
	BHA	eL		40	56		0.2		
	BUL	eL		41	36		0.1		
01	CLK	iPn	14	09	39	C	2.3	Tete Province, Mocambique	
		iSg			59				
	BHA	iSg		11	39		0.3		
	BUL	eSg		12	37		0.2		
01	BUL	e	14	40	12		0.2	Distant?	
01	BUL	i	21	41	48	C	0.7	Distant	
		i		42	01				
01	BHA	eP	23	07	08		0.4	Tanganika Province, Congo	
		eS		08	21				
		eL		09	08				
	CLK	eL		10	54		0.2		
01	BHA	eP'	23	29	26		0.6	Distant	
		ipP'			45				
		eSKP		32	27				
	CLK	eP'		29	28		0.7		
		ipP'			44				
		iSKP		32	28				
	BUL	iP'		29	43	C	11.8		
		ipP'			54				
		eSKP		33	11				
02	BUL	e	02	55	56		0.8	Distant	
02	CLK	eP	07	14	17		2.8	Distant	
		ipP			21			Andaman Is. region?	
		eS		22	52				
	BHA	eP		14	54		6.2		
		ipP			58				
		iS		23	58				
	BUL	eP		15	02		4.0		
		ipP			08				
		eS		24	30				
02	BUL	e	07	57	02		0.2	Distant	
		e			17				
02	CLK	e	08	43	02		0.2	Distant?	
	BUL	e			46		0.2		
02	BUL	e	09	01	09		0.3	Distant	
		i			15				
02	BUL	e	10	28	49		0.3	Distant?	
		e			59				

LIST OF RECORDED PHASES: 02 to 03 JUL 1967 - 2

Date	Stn	Phase	G M T			P C	DA mm	Epicentral region:	Remarks
			h	m	s				
02	CLK	eP	13	16	51		0.3	Distant	
	BHA	eP		17	21		0.5	Aftershock	
		ipP			29				
	BUL	eP			31		0.2		
		epP			38				
02	CLK	eP	14	20	08		0.3	Distant	
		epP			13			Aftershock	
	BHA	eiP			40	rC	0.7		
		ipP			48				
	BUL	eP			48		0.3		
		ipP			58				
02	BHA	ipP'	14	30	17	C	0.3	Distant	
		epP'			25				
	CLK	eP'			22		0.2		
	BUL	eP'			26		0.2		
		epP'			35				
02	BHA	i	16	23	02	C	0.3	Distant	
	BUL	e			11		0.2		
02	BUL	e	16	32	27		0.2		
02	BHA	eSn	18	27	44		0.3	Angola	
		iSg		28	31				
	BUL	eL		29	48		0.2		
02	BHA	i	18	47	22	C	0.4	Distant	
		e			32				
	BUL	e			31		0.2		
		e			42				
02	BUL	eiP	23	42	22	cR	0.5	Distant	
	BHA	eP		43	12		0.2		
		e		44	05				
03	CLK	iSg	00	11	32		0.7	Central Manica Province, Mocambique	
	BUL	eSn			44		0.4		
		eSg		12	05				
	BHA	eL		13	09		0.1		
03	BHA	ePn	01	53	17		2.5	Broken Hill area, Zambia	
		eSg			33				
	BUL	eSg		55	53		0.1		
03	BUL	e	03	18	27		0.6	Distant	
03	BUL	e	04	01	04		0.2	Distant?	
03	BUL	e	07	14	18		0.4	Distant	
03	BUL	e	09	59	13		0.4	Distant	
								Aftershock	
03	BUL	ei	11	24	13	cR	0.3	Distant	
03	BUL	e	12	56	43		0.5	Distant	
		i			50				
		e		57	19				
03	BUL	iSg	14	19	32		0.4	Witwatersrand	
03	BUL	eSg	14	59	03		0.4	Witwatersrand	
03	BUL	eSg	15	44	32		0.5	Forbes Reef area, Swaziland	
03	BUL	eSg	16	42	49		0.2		

LIST OF RECORDED PHASES: 03 to 06 JUL 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
03	BUL	eP	17	41	11		0.2	Distant	
	CLK	eP		42	09		0.2		
03	BUL	eiP	21	56	45	rC	0.5	Distant	
	CLK	iP		57	29	C	0.3		
		e		59	33				
04	BUL	e	02	40	26		0.2	Distant	
04	BUL	eSg	03	58	40		0.2	Witwatersrand	
04	BUL	iSg	04	03	12		0.3	Witwatersrand	
04	BUL	eiPn	04	26	26	rC	2.1	Witwatersrand	
		eSn		27					
		iSg		28	03				
	CLK	ePn		27	52		0.5		
		eSg		31	15				
04	BUL	iSg	04	30	27		1.1	Witwatersrand	
	CLK	eSg		33	36		0.3		
04	CLK	eP	04	38	43		2.3	Mt. Kilimanjaro area,	
		eS		40	56			Tanzania	
		iL		42	21				
	BUL	eP		40	03		0.5		
		eL		45	37				
04	BUL	eSg	06	23	37		0.2		
04	BUL	eSg	10	57	23		0.2		
04	BUL	iP	14	29	35		1.2	Distant	
		eSKS		40	37				
	CLK	iP		30	11		0.6		
05	BUL	eP	00	00	49		0.5	Distant	
		e		02	55				
	CLK	eP		01	25		0.2		
05	CLK	eP	01	02	35		0.3	Distant	
	BUL	eP			58		0.4		
05	BUL	i	04	22	42	R	1.9	Distant	
05	BUL	eSg	14	26	57		0.2		
05	BUL	eP	16	05	(00)		0.4		
		eL		10	16				
	CLK	eL		08	22		0.7		
05	BUL	e	20	08	12		0.2	Distant	
06	BUL	e	05	25	34		0.2	Distant	
06	BUL	i	05	30	40		0.5	Distant	
		e		31	11				
06	BUL	e	08	31	34		0.2	Distant	
06	CLK	e	14	01	50		0.4	Distant	
		e		04	34				
	BUL	i		02	00	C	6.2		
		i			15				
		i		05	18				
06	CLK	e	16	33	54		0.2	Distant	
	BUL	e			59		0.3		
06	CLK	eP	19	05	11		0.3	Distant	
		eP		06	10		0.3		

LIST OF RECORDED PHASES: 06 to 08 JUL 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
06	BUL	eP	19	31	09		0.4	Distant	
	CLK	eP			41		0.3		
06	CLK	iPn	19	33	44		4.	Lake Malawi	
		i <sup>m</sup>			55				
		iSn		34	12				
		iSg			19				
	BUL	eSn		36	48		0.5		
		iL		37	43				
06	BUL	ePn	20	00	21		0.7	Witwatersrand	
		eSn		01	30				
		eSg		02	02				
06	BUL	iSg	23	29	56		0.6	Witwatersrand	
07	BUL	i	01	17	30	C	0.2	Distant	
07	CLK	eP	10	03	02		0.2	Distant	
	BUL	eP			02		0.3		
07	BUL	ePn	13	07	30		0.7	Phalaborwa area, Transvaal	
		eSg		08	27				
07	BHA	ePn	16	08	29		1.8	Kariba Area	
		ePg			34				
		eSn		09	04				
		iSg			15				
	BUL	ePn		08	32		1.7		
		iPg			42				
		eSg		09	23				
	CLK	eSg		11	35		0.2		
07	BUL	eiP	19	44	14	cR	0.3	Distant	
	BHA	eP			19		0.2		
07	CLK	ePn	22	18	47		3.6	Manica Province, Mocambique	
		iSn		19	19				
		iSg			28				
	BUL	ePn			23		4.3		
		eSn		20	17				
		iSg			47				
	BHA	ePn		19	42		1.8		
		eSn		20	54				
		iL		21	36				
07	BUL	e	22	36	46		0.2	Distant	
	BHA	e		37	21		0.1		
07	CLK	eP	23	07	48		0.4	Distant	
	BHA	eiP		08	10	rC	0.4		
	BUL	iP			28	C	0.3		
08	CLK	iP'	01	17	42	C	1.1	Distant	
	BUL	iP'			43	C	2.8		
		ePP		19	30				
	BHA	iP'		17	50	C	1.6		
		ePP		20	00				
		iSKP		21	03				
08	BUL	ePn	12	20	38		1.2	W. Witwatersrand	
		eSn		21	48				
		iSg		22	21				
	BHA	ePn		21	54		0.3		
		eSn		24	02				
		eSg		25	19				
	CLK	eSg			31		0.3		



LIST OF RECORDED PHASES: 08 to 12 JUL 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
08	CLK	ePn	16	42	54		2.0	Mt. Hanang Area, Tanzania
		eSn		44	58			
		eSg		46	16			
		iL			28			
	BUL	iP		44	10		0.5	
		i			22			
		eL		49	26			
08	BUL	eSg	21	24	49		0.3	O.F.S Goldfields
09	BUL	eSn	04	17	19		0.5	Witwatersrand
		iSg			49			
09	BHA	ePn	08	41	27		2.8	S.Fipa Plateau, Tanzania
		iSn		42	38			
		iSg		43	13			
	BUL	eL		46	04		0.3	
09	BUL	eSg	09	57	44		0.4	
09	BUL	e(Sn)	12	19	40		0.3	
		eSg		20	36			
		eL			40			
09	BUL	iP	17	00	45	C	0.3	
	BHA	iP		01	18	C	0.2	
10	BHA	iPn	05	15	43		5.2	
		iSg		16	06			
	BUL	eSg		18	45		0.2	
10	CLK	iP	12	12	25	R	0.8	Sumatra
	BUL	iP			55	R	2.4	
		eS		22	28			
	BHA	iP		12	58	R	2.5	
		iS		22	30			
10	BUL	e	12	14	59		0.9	Distant
		e		16	00			
	BHA	e		15	01		0.9	
10	BUL	eSg	13	13	27		0.3	
10	CLK	eP	19	31	17		0.3	Distant
	BHA	iP			44	R	0.3	
	BUL	iP			45	R	0.9	
10	BHA	ePn	20	55	05		0.3	Lake Kivu Area, Congo?
		eSn		57	20			
		eSg		58	41			
	BUL	eL	21	01	(50)		0.1	
11	BUL	eSg	03	24	38		0.2	
11	BUL	i	04	35	47	C	2.1	Distant
		i		36	00			
	BHA	i		35	52	C	0.5	
		i		36	05			
11	BUL	e	15	05	46		0.4	Distant
		i			52			
11	BUL	eSg	16	44	48		0.2	
12	BHA	ePn	01	42	10		1.4	
		iSg			35			
	BUL	eSg		44	37		0.2	
12	BUL	e	02	07	00		0.3	Distant

LIST OF RECORDED PHASES: 12 to 13 JUL 1967 - 6

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
12	BUL	i i	10	51	36 55	R	0.7	Distant	
12	BHA	ePn iPg eSn iSg	16	11	50 55 12 27 32		1.4	Kariba area	
	BUL	iPg eSg			04 46		0.6		
12	BHA	iPn iSn iSg	16	23	14 24 46 25 37		4.5	Central Lake Tanganyika area, Congo	
	CLK	ePn eSn eSg iL			23 52 25 55 26 56 27 02		1.6		
	BUL	ePn eSn iL			24 27 26 56 28 34		0.8		
12	BUL	eP e	21	33	09 38		0.3	Distant	
	BHA	eP e			59 34 51		0.3		
12	BUL	eP e	22	02	09 17		0.4	Distant	
	BHA	eP			42		0.1		
12	BUL	ePn eSn eSg	22	39(20)			0.5	Bushman Land, Cape Province	
	BHA	eL			41 30 42 46 45 20		0.2		
	CLK	eL			47 00		0.2		
13	BHA	ePn iSn iSg	00	19	09 20 42 21 32		7.7	Central Lake Tanganyika area, Congo	
	CLK	e eSn iSg			20 00 21 50 22 58		1.9		
	BUL	eP eS iL			20 21 22 49 24 28		1.2		
13	BUL	iSg	00	29	20		0.6		
13	BHA	iSn iSg	01	20	20 47		1.4	Mitumba Range, Congo	
	CLK	eSg			23 02		0.3		
	PUL	e			42		0.2		
13	BHA	eP	02	20	05		0.2	Distant	
	BUL	eiP			40	cR	0.4		
	CLK	eP			21 03		0.2		
13	BHA	ePn i iSn iSg	02	55	16 29 57 15 58 30		12.	S. of Lake Victoria	
	CLK	e i iSn iSg			55 33 46 57 23 58 34		14.4		
	BUL	ePn iL			56 21 03 01 07		2.8		

LIST OF RECORDED PHASES: 13 to 15 JUL 1967 - 7

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
13	BUL	iP	10	23	15	R	0.4	Distant	
		ipP			26				
	BHA	eP			23		0.2		
		epP			35				
13	BUL	i	14	34	06	C	0.3	Distant	
		e			22				
14	BHA	ePn	02	37	27		1.3	Central Lake Tanganyika area, Congo	
		eSn		39	00				
		iSg			51				
	CLK	ePn		38	07		0.4		
		eSn		40	10				
		iSg		41	15				
		iL			26				
	BUL	eL		42	56		0.3		
14	BUL	eiP'	03	06	51	rC	0.5	Distant	
		epP'		07	10				
	BHA	eiP'		06	58	rC	0.4		
		epP'		07	18				
		iSKP		10	17				
	CLK	eP'		07	15		0.3		
14	CLK	i	04	12	51		1.4	Upper Luanga Valley, Zambia	
		eSn		13	40				
		eSg		14	05				
	BHA	ePn		12	50		1.4		
		eSn		13	58				
		eSg		14	34				
		BUL	eSn		15	31			0.5
		eSg		16	33				
14	BHA	eL	07	32	50		0.8	S. of Lake Victoria?	
	CLK	eL			51		0.6		
	BUL	eL		35	31		0.2		
14	CLK	eP	09	19	04		0.3	Distant	
	BUL	eP			33		0.3		
		e			40				
		e			55				
	BHA	eP			37		0.2		
14	BUL	ePn	09	56	27		1.3	Witwatersrand	
		eSn		57	33				
		iSg		58	04				
	BHA	eSg	10	01	02		0.2		
	CLK	eSg			05		0.2		
14	BUL	i	14	12	58	C	3.1	Distant	
		e		13	20				
14	BHA	e	16	09	10		0.2	Distant?	
	BUL	e			24		0.1		
14	BUL	eSg	17	16	57		0.2		
14	CLK	iP	18	41	58	C	0.4	Distant	
	BHA	iP		42	54	C	0.8		
	BUL	iP			56	C	0.3		
14	BUL	eP	23	39	53		0.3	Distant	
	BHA	eP		40	29		0.1		
15	CLK	i	03	38	45	C	0.4	Distant	
	BHA	i			56	C	0.5		
	BUL	i		39	22	C	0.6		

LIST OF RECORDED PHASES: 15 to 17 JUL 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
15	BUL	eSg	12	03	10		0.2		
15	BUL	ePn	13	49	22		0.7	Witwatersrand	
		eSn		50	32				
		eSg		51	03				
	BHA	eSg		53	34		0.2		
15	BHA	e	14	54	12		0.2	Distant	
	BUL	e			14		0.2		
15	BUL	i	18	24	48	C	0.6	Distant	
		i		25	05				
15	BHA	iPn	20	30	04		2.8	S. Lake Tanganyika area	
		iSn		31	10				
		iL			48				
	CLK	ePn		30	39		0.5		
		eSn		32	09				
		eL		33	07				
	BUL	eP		31	20		0.3		
		eS		33	24				
		eL		34	42				
16	BUL	e	09	55	16		0.4	Distant	
		e		56	02				
	BHA	ei		55	31	cP	0.3		
		e		56	20				
16	BUL	eSg	13	47	50		0.2		
16	CLK	eP	13	48	02		0.3	Distant	
		ePP		51	56				
	BUL	eP		48	33		0.4		
		iPP		52	44				
	BHA	eP		48	37		0.3		
		ePP		52	51				
16	CLK	ePg	16	52	16		1.4	Tete Province, Mocambique	
		iSn			46				
		iSg			58				
	BHA	ePg			19		1.4		
		eSg		53	02				
	BUL	eSn			40		0.4		
		iSg		54	09				
17	BUL	ePn	03	39	33		2.3	E. Witwatersrand	
		eSn		40	38				
		iSg		41	08				
		iL			13				
	BHA	eP		40	50		0.5		
		eL		44	09				
	CLK	eL			13		0.5		
17	BUL	i	11	47	50	R	0.3	Distant	
17	BUL	ePn	16	48	23		0.5		
		eSn		49	32				
		eSg		50	06				
17	BHA	ePn	16	49	39		0.4	SE Angola	
		eSn		50	53				
		eSg		51	24				
	BUL	eSg			54		0.2		
17	BUL	i	18	58	07	C	0.3	Distant	
	BHA	e			25		0.2		

LIST OF RECORDED PHASES: 18 to 20 JUL 1967 - 9

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
18	BHA	eL	14	26	29		0.2		
	BUL	eL			38		0.2		
18	BUL	e	16	34	18		0.3	Distant	
18	BUL	iSg	21	22	29		0.5	Witwatersrand	
19	BUL	e	00	50	33		0.2	Distant	
	BHA	e		51	05		0.1		
19	BUL	i	01	00	32	C	0.3	Distant	
19	BUL	i	09	16	15	R	0.3	Distant	
19	BUL	i	09	23	27	C	0.8	Distant	
19	CLK	eP'	13	02	19		0.4	Distant	
	BUL	eiP'			21	rC	0.4		
	BHA	eP'			35		0.3		
19	CLK	eP	20	47	05		0.3	Distant	
	BUL	eiP			50	cR	0.4		
	BHA	eiP		48	00	cR	0.3		
20	BUL	eP	01	45	25		0.4	Distant	
	CLK	eP		46	02		0.3		
	BHA	eP			15		0.2		
20	BUL	eSg	08	46	26		0.4	Witwatersrand	
20	BUL	e	11	59	15		0.5	Distant	
	BHA	e			19		0.4		
20	BUL	eP	13	23	55		7.5	Distant	
		ipP		24	35			S. CHILE	
		iS		34	15				
	BHA	eP		24	09		1.3		
		ipP			50				
		eS		34	44				
	CLK	eP		24	34		0.7		
		epP		25	12				
		iS		35	36				
20	BUL	eSg	14	23	14		0.2	Witwatersrand	
20	CLK	eiP'	14	45	29	cR	0.6	Distant	
		iSKP		48	56				
	BHA	iP'		45	32	R	0.3		
		iSKP		49	02				
	BUL	eP'		45	37		0.4		
		ePP		48	38				
		eSKP		49	15				
20	CLK	eP	15	50	34		0.6		
		iL		54	20				
	BUL	eP		50	49				
		iL		54	53				
	BHA	e		55	13		0.4		
20	BHA	ePn	16	05	45		2.1	Kariba Area	
		iPg			51				
		eSn		06	22				
		iSg			31				
	BUL	ePn		05	50		1.3		
		iPg			59				
		eSg		06	42				
	CLK	eSg		08	54		0.3		

LIST OF RECORDED PHASES: 20 to 22 JUL 1967 - 10

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
20	BUL	eSg	17	23	15		0.2	Witwatersrand	
20	BUL	iSg	18	44	18		0.7	Witwatersrand	
20	BUL	e	19	18	07		0.6	Distant	
20	CLK	e	23	33	09		0.2	Distant	
	BHA	i			24	R	6.2		
21	BHA	eL	00	25	00		0.3		
	CLK	eL			54		0.3		
21	CLK	eP	07	12	52		0.3	Distant	
		epP			13 00				
	BUL	eP			28		0.5		
		epP			38				
	BHA	eP			28		0.4		
		epP			38				
21	BUL	eSg	11	17	22		0.6		
21	BUL	eSg	14	07	16		0.4	Witwatersrand	
21	BUL	ei	19	47	03	cR	0.5	Distant	
22	BUL	e	04	16	51		0.5	Distant	
	BHA	e			17 01		0.6		
22	BUL	e	05	47	23		0.2	Distant	
		e			35				
22	BUL	i	07	59	08	C	0.7	Distant	
22	BUL	i	11	21	04	C	0.3	Distant	
	BHA	e			08		0.2		
22	BUL	iSg	12	56	35		0.7		
22	BUL	iP	14	00	25	R	0.9	Distant	
		e			53				
	BHA	iP			40	R	0.9		
		e			01 17				
22	BUL	i	14	01	06	R	0.8	Distant	
		e			36				
	BHA	i			21	R	0.7		
		i			54				
22	BHA	eP	17	06	26		2.4	Distant	
		iS			14 23			TURKEY	
		eL			26 24				
	CLK	iP			06 34	R	3.8		
		iS			14 35				
		eL			27(30)				
	BUL	eiP			07 05	rC	4.0		
		eS			15 31				
		eL			29 10				
22	BHA	eP	17	57	35		0.2	Distant	
	CLK	eP			44		0.6	Turkey aftershock	
	BUL	eP			58 05		0.3		
22	BHA	eP	18	19	25		0.2	Distant	
		ePcP			20 25			Turkey aftershock	
	CLK	eP			19 34		0.4		
	BUL	eP			20 04		0.4		
		ePcP			50				
22	BUL	e	20	50	39		0.2	Distant	

LIST OF RECORDED PHASES: 22 to 26 JUL 1961 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks	
22	CLK	eP	23	51	37		0.2	Distant		
	BUL	P		52	09		0.2	Turkey aftershock		
23	BUL	e	03	27	44		0.4			
	BHA	e			52		0.2			
23	CLK	iP	04	13	18	C	0.2	Distant		
	PUL	iP			49	C	0.2			
23	BUL	iP	06	05	03	R	0.3	Distant		
23	BUL	e	14	01	20		0.1	Distant ?		
24	BHA	eP	03	16	22		4.7			
		eS		18	50			Lake Kivu Area		
		iL		20	10					
	CLK	eP		16	56		2.0			
		eS		19	39					
		iL		21	26					
	BUL	eP		17	37		1.4			
		iL		23	02					
	24	CLK	iP	07	51	43	R	0.6	Distant	
			ipP		52	27				
BUL		iP		52	10	R	1.4			
		ipP			55					
BHA		iP			13	R	0.4			
	epP			59						
24	BUL	iSg	08	45	35		0.5	Witwatersrand		
24	BHA	iPn	16	05	55		13.2	Kivu Province, Congo		
		iSn		07	50					
		iSg		08	56					
	CLK	ePn		06	35		3.6			
		iSn		09	04					
		iSg		10	32					
		iL			44					
	BUL	eP		07	09		2.7			
		eS		10	00					
		iL		11	58					
24	BUL	ePn	23	02	56		1.9	Witwatersrand		
		eSn		03	59					
		iSg		04	32					
	BHA	eSn		06	30		0.3			
		iSg		07	36					
	CLK	iSg			41		0.4			
	25	BUL	iP	07	31	18	C	1.3	Distant	
BHA		iP			29	C	0.4			
CLK		iP			54	C	0.3			
25	CLK	eP	13	09	18		0.4	Distant		
	BHA	eP			31		0.2			
	BUL	eP		10	08		0.2			
25	BUL	eSg	18	17	13		0.2	Witwatersrand		
26	BUL	ePn	00	20	11		1.3	Bikita area, Rhodesia		
		iSn			44					
		iSg		21	00					
	BHA	ePn		20	59		0.4			
		eSn		22	12					
		eL			53					
	CLK	eSn		21	32		0.8			
		iL			56					

LIST OF RECORDED PHASES: 26 to 28 JUL 1967 - 12

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral Region:	Remarks
26	BUL	e	06	07	29		0.3	Distant	
26	BUL	iP'	06	50	03	C	1.7	Distant	
	CLK	eP'			04		0.3		
	BHA	eP'			12		0.8		
		eSKP		54	01				
26	BUL	e	08	33	52		0.3	Distant ?	
		e		34	05				
26	BHA	eP	19	02	29		0.5	Distant	
		ipP			35			Turkey	
	CLK	iP		02	32	C	1.1		
		eS		10	27				
	BUL	eP		03	07		1.3		
		eS		11	45				
26	BUL	eSg	21	49	53		0.2	Witwatersrand	
27	BUL	e	00	27	28		0.4	Distant	
		i			43				
	BHA	e			32		0.2		
		e			47				
27	BUL	ePn	05	41	09		1.1	Witwatersrand	
		iSn		42	19				
		iSg			50				
27	CLK	iP	11	41	02	C	1.7	Distant	
	BUL	iP			12	C	0.6		
	BHA	iP			47	C	0.5		
27	BUL	eSg	12	26	01		0.2	Witwatersrand	
27	BUL	e	13	19	38		0.2	Distant	
27	BUL	ePn	14	44	17		0.8	Witwatersrand	
		eSn		45	29				
		eSg			56				
27	BUL	eSg	16	48	15		0.2	Witwatersrand	
27	BUL	i	17	00	17	R	0.4	Distant	
		e			45				
		e			57				
	BHA	e			31		0.2		
		e			04				
		e			15				
28	CLK	iP	09	58	50	R	0.3	Distant	
		ipP			58				
	BUL	iP			53	R	0.4		
		ipP		59	01				
	BHA	eP			16		0.3		
		epP			24				
28	BUL	eSg	14	16	42		0.3	Witwatersrand	
28	BUL	e	14	46	33		0.3	Distant	
	BHA	e			48		0.3		
		e			56				
28	CLK	eP	17	38	17		0.6	Distant	
		ipP			25				
	BHA	iP			51	C	3.3		
		ipP		39	02				
	BUL	eiP		38	55	rC	1.2		
		ipP		39	06				



## LIST OF RECORDED PHASES. 28 to 30 JUL 1967 - 13

Date	Stn	Phase	G	M	T	P	DA	Epicentral region	Remarks
			h	m	s	C	mm		
28	BUL	e	18	51	18		0.2	Distant	
	BHA	i			20	C	0.2		
28	BUL	eSn	19	21	12		0.4	Witwatersrand	
		eS*			26				
		iSg			41				
28	CLK	eP	20	18	59		0.4	Distant	
	BUL	iP		19	27	C	1.4		
		ipP		20	00				
	BHA	iP		19	31	C	0.8		
		ipP		20	04				
28	BUL	i	23	57	30	C	0.3	Distant	
29	BUL	ePn	00	51	01		0.4	West Witwatersrand	
		eSn		52	12				
		iSg			44				
		iL		53	14				
29	BUL	ei	05	38	15	rC	0.7	Distant	
29	BHA	e	10	38	06		0.4	Distant ?	
		i		42	20				
	BUL	e		38	10		0.6		
		i		42	22				
	CLK	e		43	07		0.5		
		i			51				
29	CLK	e	10	53	49		0.2	Distant	
	BUL	e		54	04		0.5		
		i			45				
		i		55	04				
	BHA	e		54	05		0.3		
		i		55	06				
29	BUL	ePn	13	39	13		0.8	Witwatersrand	
		iSg		40	48				
29	BUL	i	14	37	50	C	1.0	Distant	
		i		38	03				
	BHA	e		37	53		0.2		
30	BHA	e	00	13	(50)		0.3	Distant ?	
	BUL	e		14	02		0.3		
30	BHA	iP	01	40	33	R	0.4	Distant	
		iPcP		41	35				
	CLK	iP		40	43	R	0.8		
	BUL	iP		41	13	R	0.9		
		ePcP			55				
30	BUL	e	03	56	01		0.2	Distant	
30	BUL	eSg	03	57	06		0.2	Witwatersrand	
30	CLK	iPn	05	38	19		2.2	Offshore N. Mocambique	
		iSn		39	39				
		iSg		40	23				
	BHA	iPn		39	29	C	0.4		
		eSn		41	46				
		eSg		43	13				
	BUL	iPn		40	00		0.3		
		eSg		44	13				

August 1967



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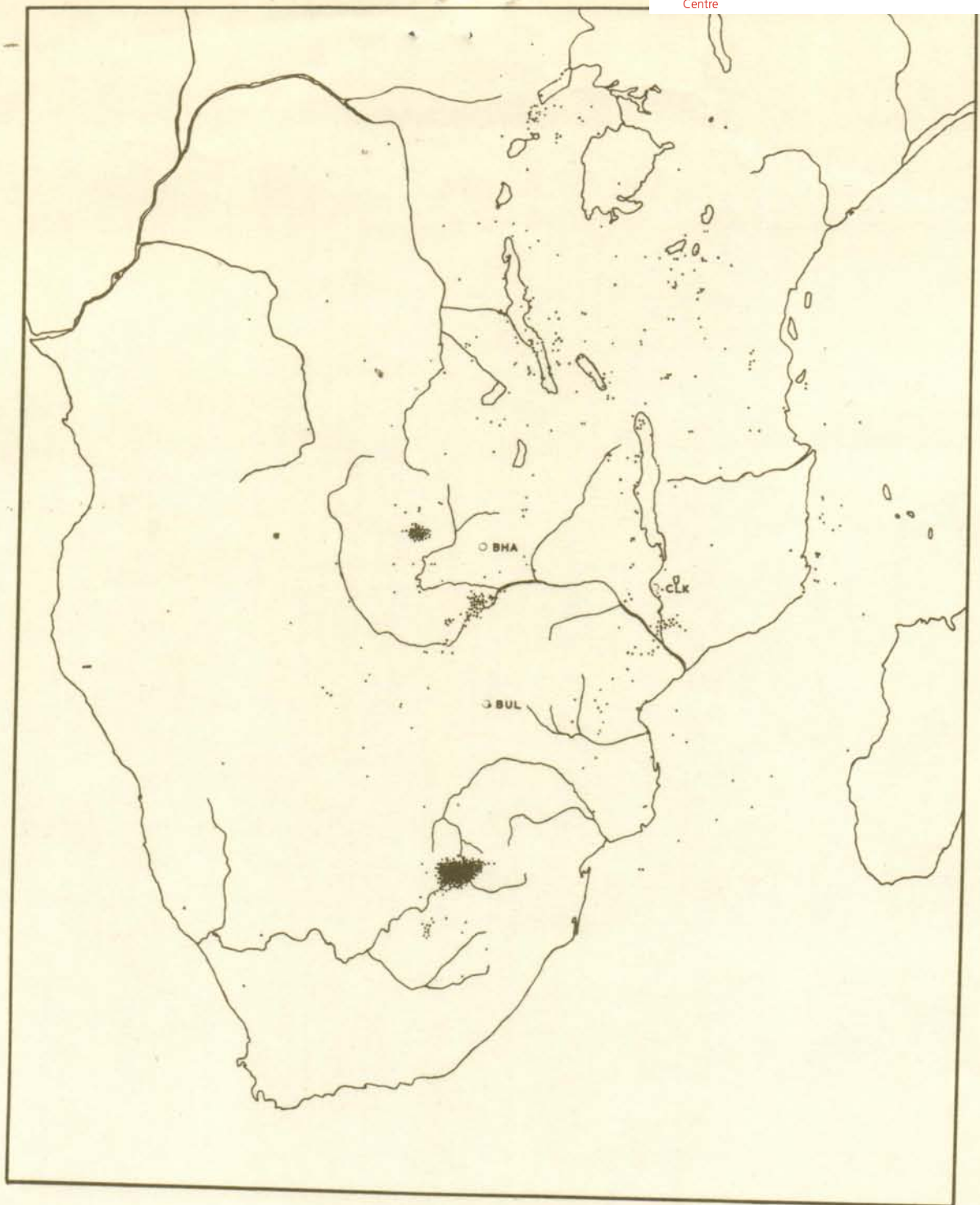
20 DEC 1967

SEISMOLOGICAL BULLETIN FOR MALAWI, RHODESIA AND ZAMBIA

The following stations contribute records for analysis and publication in this Bulletin:

- BROKEN HILL (BHA):**  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
Litho. foundation: Dolomite and shales of the Middle Katanga System.  
Authority: Zambia Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.
- CHILEKA (CLK):**  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
Litho. foundation: Charnockitic granulites of the Basement Complex.  
Authority: Malawi Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.
- KAROI (KRR):**  $16^{\circ} 51.1' S$ ;  $29^{\circ} 37.1' E$ ; Alt. 1380 m.  
Litho. foundation: Granitic gneisses of the Zambesi type.  
Authority: Rhodesia Meteorological Service.  
Instrument: Vertical Willmore one-second seismograph.  
Nominal magnification 20,000.
- BULAWAYO (BUL):**  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
Litho. foundation: Hornblend schists of the Bulawayan System.  
Authority: Rhodesia Meteorological Service.  
Instruments: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.  
WWSS Station: SP magnification 100,000.  
LP magnification 1,500.
- CHIREDDZI (CIR):**  $21^{\circ} 00.8' S$ ;  $31^{\circ} 34.8' E$ ; Alt. 430 m.  
Litho. foundation: Gneisses or Charnockites of the Limpopo belt.  
Authority: Rhodesia Meteorological Service.  
Instrument: Vertical Willmore one-second seismograph.  
Nominal magnification 20,000.

Analysis Centre: Goetz Observatory, Meteorological Service,  
P. O. Box 562, Bulawayo, Rhodesia.



EPICENTRES OF LOCAL EARTHQUAKES RECORDED  
AT BULAWAYO BROKEN HILL AND CHILEKA  
JULY 1966 TO JUNE 1967

EARTHQUAKES OF C.G.S. MAGNITUDE 5.0 OR GREATER:					
DATE	G. M. T.	LAT.	LONG.	MAG.	
66 SEP 18	04 27 46	3.8 S	33.8 E	5.1	
66 OCT 05	08 34 41	0.1 N	30.0 E	5.4	
66 OCT 30	05 05 36	3.7 S	30.0 E	5.4	
66 OCT 30	05 09 (20)	3.7 S	30.0 E	5.2	
67 JAN 02	19 47 51	9.9 S	28.6 E	5.6	
67 JAN 25	03 00 02	23.5 S	39.4 E	5.0	
67 APR 20	02 50 56	16.7 S	28.2 E	5.5	
67 MAY 24	17 18 28	11.9 S	34.1 E	(5.1)	
67 MAY 28	12 19 32	1.9 N	31.3 E	5.1	

AUG 1967

Date	G	M	T	Epicentre; Remarks	Mag
	h	m	s		CGS
01	01	13	43	USCGS 13.0 S 76.8;W Near Coast of Peru.	5.5
01	22	44	23	USGGS 23.6S 68.1W;Northern Chile	4.4
02	00	44	41	USCGS 44.6N 146.4E; Kurile Is.	5.0
X 02	12	06	07	26.2S 27.3E ; Witwatersrand	2.3
X 02	13	54	58	26.5S 27.6E ;Witwatersrand	2.4
02	14	06	18	USCGS 71.2N 8.5W Jan Mayan Is. Region	5.3
X 02	14	17	24	26.4S 27.2E ;West Witwatersrand	2.7
02	18	17	32	USCGS 4.6S 103.3E ; S. Sumatra	5.1
02	22	41	12	USCGS 22.3S 68.7W; Northern Chile	4.5
03	00	08	13	USCGS 20.9S 174.3W; Tonga Is.	4.4
X 03	14	57	03	26.5S 27.2E; West Witwatersrand	2.7
03	21	37	27	USCGS 53.0N 166.7W; Fox Is. Aleutians.	4.6
X 03	21	50	48	19.9S 32.5E; Chipinga Area Rhodesia.	3.2
03	23	17	08	USCGS 53.8N 170.1W ; Fox Is. Aleutians	4.9
04	03	54	16	USCGS 56.1S 27.3W; S. Sandwich Is. region	4.6
04	06	01	10	USCGS 7.4N 36.3W; Central Mid- Atlantic Ridge	5.0
X 04	10	03	55	11.1S 33.3E; Nyika Escarpment, Malawi	3.0
X 04	19	35	18	26.5S 27.2E; West Witwatersrand	2.8
06	17	10	24	USCGS 8.8S 112.5E; Java	5.2
06	22	46	08	USCGS 52.7N 168.4W; Fox Is. Aleutians	4.3
07	05	49	53	USCGS 36.5N 71.2E; Afganistan-U.S.S.R. Border	5.0
07	11	14	42	USCGS 58.7N 154.6W; Alaska Peninsula	5.1
07	17	07	20	USCGS 29.4S 177.4W; Kermadec Is. Region	4.8
07	19	23	24	USCGS 51.8N 173.9W; Andreanof Is. Aleutians	4.1
X 08	03	26(00)		7S 37E ; S. Tanzania	3.7
08	09	48	04	USCGS 6.2S 105.7E ; Sunda Strait	4.8
X 08	16	07	21	26.2S 28.0E ; Witwatersrand	2.9
X 08	18	04	52	26.8S 26.8E ; West Witwatersrand	3.2
X 08	18	32	57	26.3S 27.7E Witwatersrand	2.3
09	08	20	04	USCGS 6.4S 130.4E; Banda Sea	5.7
X 09	14	02	35	26.2S 28.1E; Witwatersrand	3.1
X 09	17	14	03	17.3S 35.4E Zambesi-Shire confluence	2.5
09	20	47	40	USCGS 52.0S 15.7E; S. W. of Afrika	5.0
09	22	49	12	USCGS 52.0S 28.4E; S. of Africa.	4.8
X 09	23	10	29	31.3S 23.3E; Victoria West Area, Cape Province	3.6
10	02	09	08	Chileka Area, Malawi.	2.2
X 10	04	01	47	12.1S 26.0E; W. Copperbelt, Zambia	3.4
10	11	21	22	USCGS 45.4N 150.3E; Kurile Is.	5.7
X 10	14	28	10	26.5S 27.7E; Witwatersrand	2.9
10	19	55	05	USCGS 27.9S 66.7W ; Catamarca Province, Argentina	4.8

AUG 1967.

Date	G	M	T	Epicentre; Remarks	Mag
	h	m	s		CGS
X 11	03	15	25	14.8S 23.3E; Luena Flats, Barotseland	4.2
X 11	07	28	15	26.2S 28.0E Witwatersrand	3.0
X 11	13	45	49	26.3S 27.2E; West Witwatersrand	2.8
X 11	14	51	53	26.1S 28.2E; Witwatersrand	2.6
11	18	54	29	USCGS 22.1N 144.0E; Volcano Is. Region	5.3
12	04	30	39	USCGS 38.5N 141.9E; Near E. coast of Honshu	5.4
12	09	39	44	USCGS 24.7S 177.5W; S. of Fiji Is.	5.8
X 12	11	31	30	21.1S 33.1E; S. Manica Province, Mocambique	3.1
12	12	30	56	USCGS 14.9S 166.7E; New Hebrides Is.	5.2
X 12	12	59	56	26.2S 27.2E; West Witwatersrand	2.9
12	15	28	(10)	Witwatersrand	
12	18	39	(20)	Witwatersrand	
X 12	22	26	57	26.3S 27.8E; Witwatersrand	3.8
12	22	54	39	USCGS 37.0N 71.4E; Afghanistan-U.S.S.R. Border	5.1
X 13	04	35	02	26.1S 27.8E; Witwatersrand.	3.4
X 13	07	53	45	12.1S 27.4E; W. Copperbelt, Zambia	2.8
X 13	14	35	35	26.4S 28.0E; Witwatersrand	2.8
13	16	33	04	USCGS 50.9S 29.1E; S. of Africa	5.4
13	16	44	22	USCGS 43.5N 126.9W; Off Coast of Oregon	5.0
13	16	54	46	USCGS 4.3S 152.5E; New Britain Region	5.0
13	20	06	51	USCGS 35.3N 135.3E; S. Honshu, Japan	6.0
X 13	21	45	11	8.0S 29.8E; Marungu Mts. Congo	3.3
13	22	07	47	USCGS 43.2N 0.5W; Pyrenees	5.3
13	22	15	10	USCGS 4.4S 152.5E; New Britain Region	5.3
13	23	44	11	USCGS 7.0S 12.6W; Ascension Is. Region	5.0
14	02	31	33	USCGS 8.5S 110.9E; Java	
14	06	41	46	USCGS 5.4N., 96.6E; N. Sumatra	
X 14	14	45	07	11.3S 34.4E; Central Lake Malawi	3.8
X 14	18	54	27	6.9S 27.9E; Luvua Valley, Congo	3.8
15	07	40	29	USCGS 36.3N 70.2E; Hindu Kush Region	4.7
15	09	21	02	USCGS 31.1N 93.7E; Tibet	5.7
X 15	14	37	43	16.6S 28.3E; Kariba	3.3
15	16	57	00	USCGS 55.5S 29.5W; S. Sandwich Is. Region	4.9
X 16	00	24	04	14S 26E; Busango Swamp Area, Zambia	2.3
X 16	07	56	54	26.0S 27.5E; Witwatersrand	
16	13	43	48	Busango Swamp, Zambia	2.3
X 16	14	31	55	26.2S 27.9E; Witwatersrand	3.5
X 16	16	01	17	26.2S 27.4E; Witwatersrand	2.9
16	17	42	56	USCGS 56.2S 26.9W; S. Sandwich Is. Region	5.4
X 16	18	19	59	16.4S 28.3E; Kariba	2.2

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Date	G M T			Epicentre; Remarks	Mag CGS
	h	m	s		
X 16	23	19	06	15.7S 34.6E; Kirk Range Area, Malawi	2.6
X 17	00	00	52	26.5S 27.3E; Witwatersrand	3.1
X 17	02	38	12	20.1S 32.3E; Chipinga Area, Rhodesia	2.1
X 17	03	46	07	16.7S 28.1E; Kariba	2.5
17	12	49	09	USCGS 0.8S 21.1W; Central Mid-Atlantic Ridge	4.5
17	20	28	34	USCGS 60.3S 27.0W; S. Sandwich Is. Region	5.2
X 17	23	50	21	12.9S 34.6E; S. Lake Malawi	3.8
X 18	12	38	15	26.3S 27.8E; Witwatersrand	3.1
18	20	47(00)		Sagara Swamp Area, Tanzania	3.8
X 19	09	47	29	0.3N 29.4E; Ruwenzori Area, Congo	4.7
X 19	13	24	45	13S 28E; Copperbelt, Zambia	2.3
X 19	15	38	37	7.3S 29.9E; S. Lake Tanganyika Area	3.6
19	15	28	09	USCGS 10.4N 126.0E; Philippine Is. Region	5.6
19	15	41	53	USCGS 12.4S 166.6E; Santa Cruz Is.	5.4
X 20	01	28	36	7.1S 30.2E; S. Lake Tanganyika	3.2
20	02	02	05	USCGS 45.3N 80.1E; Kazakh-Sinkiang Border region	5.1
20	15	03	36	USCGS 25.2S 69.0W; N. Chile	5.6
20	17	19	35	USCGS 37.1N 95.7 E; Tsinghai Province, China	4.5
X 20	22	19	55	14.5S 27.0E; Lukanga Swamp Area, Zambia	2.4
21	02	40(40)		S. Lake Tanganyika Area?	3.1
21	07	33	01	USCGS 3.6N 95.8E; Off W. Coast of N. Sumatra	5.9
X 21	15	14	24	26.5S 27.3E; Witwatersrand	3.0
X 21	16	21	52	7.3S 30.8E; N. Fipa Plateau, Tanzania	3.3
21	21	37	05	USCGS 1.9S 151.9E; New Ireland Region	4.9
X 22	02	33	10	19.4S 23.6E; Okavango Swamp, Botswana	4.1
X 22	10	29	14	8.9S 30.9E; S. Lake Tanganyika	3.1
22	13	02	07	USCGS 60.8S 24.6W; S. Sandwich Is. Region	6.1
22	13	17	03	USCGS 60.9S 23.2W; S. Sandwich Is. Region	5.9
X 22	15	05	18	28S 26E; O.F.S. Goldfields	3.1
22	17	14	41	USCGS 60.8S 23.2W; S. Sandwich Is. Region	4.9
23	04	19	33	USCGS 54.4S 22.4W; S. Sandwich Is. Region	4.5
X 23	12	41	02	29.7S 30.0E; Drakensberg Area, Natal	3.8
X 23	13	21	08	16.9S 28.0E; Kariba	2.9
23	14	16	40	USCGS 60.7S 24.1W; S. Sandwich Is. Region	5.1
X 23	14	40	26	9.2S 35.3E; Udzungwa Range, Tanzania	3.4
24	01	17	10	USCGS 35.3N 88.0E; Tibet	4.5
24	03	21	18	USCGS 43.6N 147.5E; Kurile Is.	5.4
X 24	10	43	22	17.1S 40.6E; N. Mocambique Channel	5.2
X 24	12	33	26	26.2S 27.7E; Witwatersrand	3.3
24	13	34	11	USCGS 22.3S 178.1W; S. of Fiji Is.	4.6

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Date	G	M	T	Epicentre: Remarks	Mag
	h	m	s		CGS
X 24	15	11	58	26.5S 27.1E; West Witwatersrand	3.0
X 24	22	58	38	28.2S 26.7E; O.F.S. Goldfields	3.4
X 24	23	14	44	10.4S 27.1E; Koni Mts. Area Congo	5.0
X 25	00	39	49	26.3S 27.6E; Witwatersrand	2.7
X 25	01	41	22	26.4S 27.6E; Witwatersrand	2.4
25	09	45	43	USCGS 57.3S 25.6W; S. Sandwich Is. Region	5.3
25	12	26	49	USCGS 35.4N 49.1E; Western Iran	4.8
25	17	17	56	USCGS 54.0N 164.8W; Unimak Is. Region	4.3
26	00	36	42	USCGS 12.2N 140.7E; West Caroline Is.	6.1
X 26	10	27	42	27.7S 26.5E; O.F.S. Goldfields	3.4
26	15	25	20	USCGS 20.2S 67.1E; Mid-Indian Rise	5.0
X 26	16	43	01	13.1S 35.1E; S. Lake Malawi Area	2.8
26	18	19	58	USCGS 15.4S 172.7W; Samoa Is. Region	5.0
X 27	00	52	41	26.3S 27.4E; Witwatersrand	3.0
27	01	55	16	USCGS 5.7S 106.6E; Java	
27	02	17	57	USCGS 52.4N 168.7W; Fox Is., Aleutians	3.9
X 27	07	57	54	7.3S 30.7E; S. Lake Tanganyika Area	3.8
27	13	08	56	USCGS 12.3N 86.2W; Nicaragua	5.2
27	13	34	53	USCGS 50.2N 130.0W; Vancouver Is. Region	5.1
X 27	14	01	55	26.2S 27.8E; Witwatersrand	3.6
27	14	16	56	USCGS 0.5N 126.1E; Molucca Passage	5.4
27	18	29	07	USCGS 50.2N 129.7W; Vancouver Is. Region	4.1
28	00	50	51	USCGS 10.0S 71.2W; Peru-Brazil Border Region	4.7
28	03	39	04	USCGS 38.4N 24.0E; Aegean Sea	4.2
X 28	14	02	52	26.3S 27.6E; Witwatersrand	
28	13	49	42	USCGS 50.3N 130.1 W; Vancouver Is. Region	4.6
28	15	07	12	USCGS 50.4N 129.5W; Vancouver Is. Region	4.5
28	15	25	52	USCGS 50.4N 129.9W; Vancouver Is. Region	5.2
28	16	20	07	USCGS 50.4N 129.8W; Vancouver Is. Region	5.1
28	17	36	49	USCGS 9.0S 116.6E; Sumbawa Is. Region	4.4
28	21	05	52	USCGS 36.5N 80.1E; S. Sinkiang Prov. China	4.7
28	21	15	36	USCGS 31.5N 6.1W; Morocco	4.6
X 29	01	57	43	26.5S 26.7E; West Witwatersrand	2.5
X 29	18	19	39	26.4S 27.9E; Witwatersrand	2.6
30	04	22	01	USCGS 31.7N 100.3E; Szechwan Province, China	6.1
X 30	04	49	42	26.4S 27.8E; Witwatersrand	
30	04	57	43	USCGS 31.7N 100.3E; Szechwan Province, China	4.9
X 30	10	44	56	16.6S 28.2E; Kariba	2.0
30	11	00	50	USCGS 31.6N 100.3E; Szechwan Province, China	5.1
X 30	12	00	03	26.1S 27.7E; Witwatersrand	2.5

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Date	G	M	T	Epicentre; Remarks	Mag
	h	m	s		CGS
30	11	55	51	USCGS 30.4S 178.6W ; Kermadec Is. Region	4.8
X 30	12	26	26	26.3S 27.5E; Witwatersrand	3.1
30	13	33	26	USCGS 45.4N 151.5E ; Kurile Is.	5.5
30	17	28	09	USCGS 22.8S 63.8E; Salta Province Argentina	4.1
31	10	47	30	USCGS 18.7S 169.1E; New Hebrides Is.	4.9
X 31	14	26	04	26.2S 27.5E ; Witwatersrand	3.7
X 31	14	37	34	26.5S 27.9E; Witwatersrand	3.1
31	18	53	25	USCGS 17.5S 175.2W ; Tonga Is.	5.4
*19	01	34	43	USCGS 36.9N 71.5E; Afganistan-U.S.S.R. Border	4.9



LIST OF RECORDED PHASES: 01 to 04 AUG 1967 - 1

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region;	Remarks
01	BUL	i e	01	27	21 34	C	0.3	Distant	
01	BUL	iL	01	35	34		0.3		
01	BUL	i e	22	57	59 58 34	C	0.4	Distant	
02	CLK	i	01	03	09	C	0.5	Distant	
	BUL	ei e		04 03	15 23 05 05	rC	0.6		
02	BUL	eSg	12	09	18		0.2	Witwatersrand	
02	BUL	eSg	13	58	16		0.2	Witwatersrand	
02	BUL	eSg	13	59	34		0.2	Witwatersrand	
02	CLK	eP'	14	19	22		0.3	Distant	
	BUL	eP' ipP'			38 43		0.4		
02	BUL	eSg	14	20	37		0.3	W. Witwatersrand	
02	BUL	i e	18	28	59 29 11	C	1.0	Distant	
02	BUL	e i	22	53	57 54 07		0.5	Distant	
03	BUL	e	00	27	26		0.2	Distant?	
03	BUL	eSg	15	00	19		0.3	W. Witwatersrand	
03	BUL	e i	15	08	18 24		0.4	Distant	
03	BUL	ePn iPg iSn iSg	21	51	44 54 52 26 40		3.8	Chipinga area, Rhodesia	
	CLK	ePn eSn iSg			01 54 53 16		3.0		
03	BUL	i	21	57	02	C	1.4	Distant	
03	CLK	e	23	36	03		0.2	Distant	
	BUL	e			18		0.3		
04	BUL	i e	04	03	30 04 02	C	0.4	Distant	
	CLK	i			19	C	0.3		
04	BHA	e	06	12	10		0.3	Distant?	
	PUL	e			33		0.2		
	CLK	e			49		0.2		
04	BUL	i	07	10	22	C	0.4	Distant	
	BHA	e			56		0.3		
04	CLK	ePn ePg eSn iSg	10	05	08 20 06 00 25		1.6	Nyika Escarpment, Malawi	
	BHA	ePn eSn eSg			05 21 06 27 56		0.6		
	BUL	iSg	09	05			0.3		

LIST OF RECORDED PHASES: 04. to 09 AUG 1967 - 2

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
04	BUL	eSg	19	38	35		0.4	W. Witwatersrand	
05	BUL	iSg	07	40	36		0.5		
05	BUL	eSg	12	13	16		0.2	Witwatersrand	
06	CLK	eP	17	22	08		0.2	Distant	
	BUL	iP			40	C	0.3		
06	BUL	i	23	05	42		0.2	Distant	
		i			56				
06	BUL	iP	23	19	41	C	0.3	Distant	
	BHA	eP			42		0.1		
	CLK	eP		20	40		0.2		
07	CLK	iP	05	59	55	C	0.8	Distant	
	BUL	iP	06	00	42	C	0.7		
07	CLK	e	11	33	56		0.2	Distant	
	BUL	e		34	06		0.3		
07	BUL	ei	17	26	05	cP	0.4	Distant	
	BHA	e			15		0.2		
		e		29	39				
07	BUL	i	19	42	53	R	0.3	Distant	
		e		43	08				
08	CLK	iSg	03	30	27		1.3	S. Tanzania	
		iL			35				
	BHA	eSg		31	25		0.6		
		iL			33				
	BUL	eL		33	46		0.2		
08	BHA	e	09	59	43		0.2	Distant	
	BUL	e			45		0.3		
08	BUL	ePn	16	08	50		0.6	Witwatersrand	
		iSg		10	28				
08	BUL	iPn	18	06	31		0.9	W. Witwatersrand	
		iSn		07	46				
		iSg		08	21				
	BHA	ePn		07	47		0.2		
		eSn		09	58				
		eSg		11	20				
	CLK	eSg			27		0.2		
08	BUL	eSg	18	36	09		0.2	Witwatersrand	
09	BUL	iSg	02	10	24		0.5		
09	CLK	eP	08	33	12		0.4	Distant	
	BUL	eP			35		0.4		
		e		36	34				
	BHA	eP		33	40		0.3		
09	BUL	ePn	14	04	03		0.9	Witwatersrand	
		iSg		05	40				
09	BHA	e	15	00	11		0.2	Distant	
	BUL	e			19		0.5		
		i			24				
09	CLK	iPn	17	14	31		2.4	Zambesi-Shire confluence	
		iSg			54				
	BUL	iSg	17	35			0.3		

LIST OF RECORDED PHASES: 09 to 11 AUG 1967 - 3

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks	
09	BUL	iP	20	54	15	C	0.4	Distant	
		i		55	17				
	CLK	eP		54	57		0.2		
		i		56	27				
	BHA	iP		55	02	C	0.2		
		e		56	30				
09	BUL	eiP	22	55	35	cR	0.7	Distant	
		ipP			50				
	CLK	eP		56	17		0.3		
		epP			33				
	BHA	eiP			23	cR	0.7		
		ipP			40				
09	BUL	ePn	23	13	20		0.4	Victoria West area, Cape Province	
		iSn		15	27				
		iSg		16	41				
	BHA	eL		19	36		0.2		
	CLK	eL		20	16		0.2		
10	CLK	iP	02	09	15		8.	Chileka area, Malawi	
		iS			20				
	BUL	eSg		12	52		0.1		
10	BHA	iPn	04	02	39		8.	W. Copperbelt, Zambia	
		iPg			48				
		iSn		03	16				
	BUL	ePn			46		0.5		
		iSn		05	15				
		iL		06	07				
	CLK	ePn		03	58		1.2		
		iSn		05	35				
		eSg		06	27				
		eL			35				
	10	CLK	eP'	11	40	08		0.3	Distant
			ePP		41	25			
	BHA	iP'		40	15	C	0.4		
		ePP		41	51				
	BUL	iP'			23	C	0.4		
		iPP		42	16				
10	BUL	iSg	14	31	22		0.4	Witwatersrand	
10	BUL	eSg	15	50	08		0.2	Witwatersrand	
10	BUL	i	20	07	25	C	0.6	Distant	
		e		08	16				
	BHA	e		07	39		0.2		
11	BHA	iPn	03	16	41	R	12.	Iuena Flats, Barotseland	
		iSn		17	36				
	BUL	iPn			12	C	6.3		
		iSn		18	31				
		iSg		19	11				
	CLK	ePn		18	05		1.7		
		iSn		20	05				
		eSg		21	21				
11	BUL	ePn	07	29	45		0.8	Witwatersrand	
		eSn		30	54				
		eSg		31	23				
11	BUL	ePn	13	47	20		0.5	Witwatersrand	
		eSn		48	31				
		iSg		49	02				

LIST OF RECORDED PHASES: 11 to 13 AUG 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
11	BUL	eSg	14	54	55		0.3	Witwatersrand	
11	BUL	e	19	13	04		0.5	Distant	
	BHA	e			13		0.1		
		e			04				
		e			13				
12	BUL	i	04	49	23	R	0.3	Distant	
12	CLK	iP'	09	58	38	R	0.8	Distant	
		ipP'		59	19				
		e	10	00	59				
		eSKP		01	48				
	BUL	eiP'	09	58	38	cR	2.2		
		ipP'		59	19				
		ePKS	10	01	59				
	BHA	eP'	09	58	43		2.4		
		iSKP	10	02	04				
		iPKS			21				
12	BUL	iPn	11	32	36		2.5	S. Manica Province, Mocambique	
		iPg			50				
		eSn		33	27				
		iSg			43				
	CLK	ePn		32	54		0.9		
		eSn		33	55				
		eSg		34	21				
	BHA	ePn		33	29		0.7		
		eSn		34	55				
		iSg		35	40				
12	BHA	i	12	48	53	R	0.3	Distant?	
	BUL	e		50	00		0.4		
12	BUL	ePn	13	01	27		0.5	Witwatersrand	
		eSn		02	06				
		eSg		03	08				
12	BUL	eSg	13	32	40		0.1		
12	BUL	eSg	15	31	09		0.2		
12	BUL	eSg	15	36	05		0.2		
12	BUL	eSg	18	42	46		0.2		
12	BUL	iPn	22	28	29	R	3.8	Witwatersrand	
		iSn		29	36				
		iSg		30	08				
	BHA	iPn		29	45	C	0.7		
		iSn		31	52				
		iSg		33	04				
	CLK	iSg			12		0.9		
12	CLK	eiP	23	04	52	cR	0.4	Distant	
		iPcP		05	31				
	BHA	eP			10		0.3		
		ePcP			40				
	BUL	iP			37	C	1.0		
		iPcP		06	02				
13	BUL	ePn	04	36	30		1.5	Witwatersrand	
		eSn		37	32				
		eSg		38	04				
	CLK	eSg		41	21		0.4		

LIST OF RECORDED PHASES: 13 to 13 AUG 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks		
			h	m	s	C	mm			
13	BHA	ePn	07	54	23		5.	W. Copperbelt, Zambia		
		iPg			29					
		iSg			58					
	BUL	eSn	57	14	0.2					
		eSg	58	05	0.3					
CLK	eSn	57	15							
	iSg	58	07							
13	BUL	eSg	14	38	48		0.4	W. Lowveld region		
13	BUL	iP	16	39	14	C	1.9	Distant		
		ipP			29					
		eSKS			49				43	
	CLK	iP	39	57	1.4					
		BHA	iP	40	04	2.5				
ipP	18									
13	BHA	eP'	17	03	55		0.2	Distant		
	CLK	eP'			04				09	0.2
	BUL	eP'			09				0.2	
13	BUL	e	17	13	42		0.2	Distant?		
	BHA	e			44				0.2	
13	CLK	eP'	20	24	36		0.5	Distant		
		ePP			25				01	
		e			26				18	
	BHA	eiP'	24	46	rC	0.4				
		ePP	25	37						
		iSKS	30	55						
		iSKS	31	56						
	BUL	iP'	24	50	R	2.2				
		iPP	25	55						
		iSKS	31	04						
		iSKS	32	14						
13	BUL	e	20	27	50		0.5	Distant		
	BHA	e			56				0.2	
13	BUL	iP'	20	35	37	C	1.9	Distant		
		eSKP			39				31	
		BHA			iP'				35	40
	CLK	iPP	50							
		eSKP	39	43						
		iP'	35	54	R	0.4				
		iPP	36	10						
eSKP	40	04								
13	BHA	ePn	21	46	46		1.2	Marungu Mts., Congo		
		iSn			47				58	
		iSg			48				31	
	CLK	eSn	59	0.4						
		eSg	49	46						
BUL	eL	51	24	0.2						
13	BHA	iP	22	18	18	C	1.2	Distant		
		CLK			iP				42	C
	BUL	iP			51				C	2.5
		e			19				17	
13	BUL	e	22	33	59		0.2	Distant		
		e			34				15	
	BHA	e	07	0.2						
		e		25						
13	BUL	eSg	23	09	05		0.3			

LIST OF RECORDED PHASES: 13 to 15 AUG 1967 - 6

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
13	BHA	iP	23	51	53	G	0.4	Distant	
		e		53	41				
	BUL	iP		52	01	G	1.3		
		e		53	35				
	CLK	iP		52	13	G	1.0		
		i		54	38				
14	CLK	e	02	43	09		0.2	Distant	
		e			25				
	BUL	i			41	G	0.5		
		e			58				
	BHA	e		45	05		0.2		
		e		43	46				
		e		44	03				
14	BHA	i	06	53	00	G	7.	Distant	
		i			07				
	BUL	i			05	G	1.1		
		i			12				
14	CLK	ePn	14	46	14		5.	Central Lake Malawi	
		eSn		47	02				
		iSg			24				
	BHA	ePn		46	47		4.5		
		eSn		47	57				
		iS*		48	12				
		iSg			36				
	BUL	eP		47	35		0.9		
		eS		49	25				
		iL		50	33				
14	BHA	ePn	18	56	16		3.0	Luvua Valley, Congo	
		iSn		57	35				
		iSg		58	21				
	BUL	ePn		57	34		0.3		
		eSn		59	52				
		eSg	19	01	16				
		eL			27				
	CLK	eSn	18	59	02		0.8		
	eSg	19	00	10					
15	CLK	iP	07	50	28	G	0.3	Distant	
	BUL	iP		51	13	G	0.3		
15	CLK	eiP	09	32	31	rC	1.0	Distant	
	BHA	eP			57		0.9		
	BUL	eiP		33	13	rC	0.6		
15	BHA	ePn	14	38	17		15.	Kariba	
		iPg			21				
		iSg			46				
	BUL	ePn			35		7.6		
		iPg			44				
		iSn		39	15				
		iSg			25				
	CLK	ePn		39	18		2.3		
		iSn		40	25				
		iL		41	04				
15	BUL	iP	17	06	35	G	0.3	Distant	
	BHA	eP		07	22		0.1		
15	BHA	iL	19	16	56		0.4		

LIST OF RECORDED PHASES: 16 to 17AUG 1967 - 7

Date	Stn	Phase	G M T			$\frac{R}{C}$	DA mm	Epicentral region; Remarks
			H	M	S			
16	BHA	ePn	00	24	41		2.0	Busango Swamp Area
		iPg			45			
		iSn	25	09				
		iSg			14			
	BUL	eL	27	37		0.1		
16	BUL	eL	07	59	57		0.3	
16	BHA	ePn	13	44	26		1.9	Busango Swamp
		iPg			30			
		eSn			55			
		iSg	45	01				
16	BUL	eSg	13	59	14		0.2	
16	BUL	ePn	14	33	24		2.4	Witwatersrand
		iSn			34	32		
		iSg			35	02		
	BHA	eL			38	03	0.4	
	CLK	eSg				05	0.3	
16	BUL	eSn	16	03	53		0.6	Witwatersrand
		iSg			04	25		
16	BUL	iP	17	52	13	R	1.2	Distant
		i			45			
		iP			46	R		
	BHA	iP			53	02	0.6	
	CLK	eP						
16	BHA	ePn	18	20	32		1.8	Kariba
		iSg			59			
		BUL	ePg	21	04			
	eSg			47				
16	BHA	iP	19	29	17	R	9.7	Distant
		ipP			37			
	CLK	iP			38	R	1.9	
		ipP			57			
	BUL	iP	30	20		R		4.3
		ipP			39			
16	CLK	iP	23	19	13		14.	Kiri Range Area, Malawi
		iS			17			
		BHA	eSg	22	14			
	BUL	eSg			47		0.2	
17	BUL	iSg	00	04	10		0.6	
17	BUL	eP	00	59	45		0.2	Distant
		CLK	eP	01	00	39		
17	BUL	ePn	02	39	04		0.6	Chipinga Area, Rhodesia
		iSn			39			
		iSg			54			
	CLK	eSg	40	43		0.2		
	BHA	eL	41	50		0.1		
17	BHA	ePn	03	46	44		3.2	Kariba
		iPg			48			
		iSn	47	11				
			iSg			16		
	BUL	iPg			09		1.2	
			eSg			50		
	CLK	eSg	49	27		0.3		
17	BUL	e	12	58	19		0.2	Distant?

LIST OF RECORDED PHASES: 17 to 19 AUG 1967- 8

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region; Remarks	
17	BUL	eP	20	37	54		0.7	Distant	
		ipP		38	11				
	BHA	eP			36		0.4		
	CLK	eP			52		0.2		
17	BUL	iP	23	32	50	C	1.0	Distant	
		ipP			59				
		i		33	17				
	BHA	eP			02		0.3		
		epP			11				
	e			36					
17	CLK	iPn	23	51	03	R	19.	C. Lake Malawi	
		iPg			10				
		iSn			33				
		iSg			42				
	BHA	ePn			52		6.		
		iSn		52	58				
		iL		53	35				
	BUL	iPn		52	31		1.4		
		iSn		54	08				
		iL		55	09				
18	BHA	eL	02	36	26		0.6		
	CLK	iL		38	38		0.4		
	BUL	eL		40	30		0.2		
18	CLK	eL	08	40	01		0.4		
	BHA	iL			51		0.5		
	BUL	eL		43	13		0.2		
18	BUL	ePn	12	39	45		0.8	Witwatersrand	
		eSn		40	58				
		iSg		41	24				
18	BUL	eSg	12	44	00		0.3	Witwatersrand	
18	BUL	eSg	15	19	26		0.2	Witwatersrand	
18	BHA	iSg	20	51	55		1.0	Sagana Swamp Area, Tanzania	
	CLK	eL		52	19		0.4		
	BUL	eL		54	49		0.2		
19	CLK	eiP	01	44	57	rC	0.2	Distant	
		BHA	iP		14	R	0.4		
		e			28				
	BUL	iP		42		C	0.6		
19	BUL	ePn	03	17	17		0.4	Witwatersrand	
		eSn		18	43				
		eSg		19	24				
		eL			30				
19	BHA	eP	09	50	54		3.5	Ruwenzori Area, Congo	
		iL		55	19				
	CLK	eP		51	23		3.1		
		eS		54	21				
		iL		56	16				
	BUL	eP		52	06		0.8		
		iL		58	14				
19	BHA	ePn	13	25	17		3.0	Copper Belt, Zambia	
		iSg			44				
	BUL	eSg		28	43		0.1		



LIST OF RECORDED PHASES: 19 to 21 AUG 1967-9

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	$\frac{C}{\bar{C}}$	mm	
19	BHA	ePn	15	40	23		1.8	S. Lake Tanganyika Area
		iSn		41	40			
		i		42	25			
	CLK	e		43	39		0.5	
	BUL	eL		45	16		0.3	
19	CLK	iP	15	41	19	C	0.4	Distant
		i			49			
	e		45	05				
	BUL	eiP		41	49	cR	0.6	
	e		45	57				
BHA	e			45		0.3		
19	CLK	eP'	16	00	43		0.3	Distant
		iP'			49	C	0.9	
	i		01	24				
	BHA	iP'		00	55		0.6	
	iSKP		04	12				
20	BHA	ePn	01	30	25		0.7	S. Lake Tanganyika
		iSn		31	46			
		iL		32	33			
	CLK	eSg		33	38		0.3	
	BUL	eL			45		0.2	
BUL	eSg		35	11				
BUL	eL			24				
20	CLK	iP	02	13	34	C	0.6	Distant
		ipP			45			
	BHA	eP			48		0.5	
	e			55				
	BUL	iP		14	14	C	1.2	
BUL	i			20				
BUL	ipP			25				
20	BUL	i	13	05	59	C	0.3	Distant
20	BUL	eiP	15	16	17	cR	7.2	Distant
		ipP			24			
	BHA	iP			30	C	1.3	
BHA	ipP			37				
20	BHA	iP	17	31	50	C	0.4	Distant
		epP			55			
	BUL	iP		32	09	C	0.5	
BUL	epP			14				
20	BHA	iP	22	20	16		3.0	
		iS			30			
	BUL	eSg		22	53		0.3	
BUL	eL			57				
21	BHA	iSg	02	43	45		1.0	S. Lake Tanganyika Area?
		iL			52			
	BUL	eL		46	31		0.2	

LIST OF RECORDED PHASES: 21 to 22 AUG 1967 - 10

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
21	CLK	eiP	07	43	27	cR	2.3	Distant
		ipP			41			
		iS		51	58			
	BHA	eP'P'	08	12	36			19.0
		iP	07	44	05	R		
		ipP			16			
	BUL	iS		53	06			4.1
		iP'P'	08	12	19			
		iP	07	44	10	R		
		ipP			22			
21	BUL	iS		53	20			
		iP'P'	08	12	15			
21	BUL	eSg	10	25	26		0.2	
21	BHA	iL	13	16	03		0.7	Ruwenzori Area?
	BUL	eL		19	04		0.2	
21	BUL	iSg	15	17	41		0.6	Witwatersrand
21	BHA	ePn	16	23	(40)		0.8	N. Fipa Plateau
		i		25	00			
	KRR	iL			47			0.3
		eSn		25	44			
	CLK	eL		26	47			0.4
		eSg		(30)				
	BUL	eL		28	38		0.2	
	21	BUL	i	21	55	57	C	0.4
KRR					58	C	0.3	
BHA			e		56	01		0.2
22	BUL	ePn	02	34	21		14.	Okavango Swamp
		ipg			34			
		iSn		35	11			
		iSg			37			
	KRR	ePn		34	42		8.2	
		iSn		35	50			
		iSg		36	23			
	BHA	iPn		34	50		5.8	
		iSn		36	02			
		iL			44			
	CLK	ePn		35	52		2.2	
iSn			37	53				
iL			39	07				
22	BUL	i	09	08	58	R	0.3	Distant
		i		12	32			
		KRR	e		09	12		
22	BHA	e		13	49			
		ePn	10	30	42		1.3	
22	BHA	eSn		31	45			
		iL		32	23			
		iL		33	16		0.3	
	KRR	iL			27		0.3	
	BUL	eL		35	16		0.2	

LIST OF RECORDED PHASES: 22 to 23 AUG 1967 - 11

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks		
22	BUL	iP	13	11	33	R	5.6	S. Sandwich Is. Region		
		iS		19	20					
		iSKS		21	34					
		iP'P'		41	46					
	KRR	iP		11	58	R	9.8			
		iS		20	06					
		iP'P'		41	47					
	BHA	iP		12	09	R	2.7			
		iS		20	28					
		eSKS		22	10					
	eP'P'		41	44						
CLK	iP		12	22	R	1.3				
	iP'P'		41	42						
22	BUL	iP	13	26	29	R	2.8	S. Sandwich Is. Region		
	KRR	iP			53	R	8.2			
		eP'P'		56	47					
	BHA	iP		27	05	R	1.9			
		ipP			16					
		eP'P'		56	40					
	CLK	eP		27	19		0.7			
22	BUL	e	15	08	54		0.3			
		eSg		09	41					
	KRR	eL		11	23		0.2			
22	BUL	eiP	17	24	07	rC	0.3	S. Sandwich Is. Region		
		epP			17					
	KRR	iP			30	R	0.7			
		ipP			40					
	BHA	eP			42		0.2			
23	BUL	iP	04	28	36	C	0.4	S. Sandwich Is. Region		
		KRR	iP		29	01	C		0.4	
	BHA	eP			12		0.1			
23	BUL	eP	06	13	00		0.2	S. Sandwich Is. Region		
		KRR	iP			25	R		0.5	
23	BUL	eSg	07	11	20		0.3			
23	BUL	iP	11	28	22	R	0.3	Distant		
		ipP			31					
	KRR	eP		29	00		0.2			
23	BUL	ePn	12	43	20		1.2	Drakensberg Area Natal		
		iSn		45	06					
		eSg			58					
		iL		46	03					
		KRR	ePn		44	05			0.6	
		eSn		46	21					
		iSg		47	37					
	BHA	eL		48	54		0.3			
	23	KRR	ePn	13	21	36			8.5	Kariba
			iPn			42				
iSg					57					
BHA		iPn			48		5.7			
		iSn			55					
		eSn			18					
		iSg			26					
BUL	ePn			57		4.5				
	iPg		22	07						
	eSn			35						
	iSg			47						
CLK	iL		24	42		0.5				

LIST OF RECORDED PHASES: 23 to 24 AUG 1967 - 12

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
23	BHA	eL	13	59	49		0.3	
	CLK	eL	14	00	46		0.3	
	KRR	eL			46		0.3	
23	BUL	eP	14	26	08		0.3	S. Sandwich Is. Region
	KRR	eiP			32	cR		
		ipP			45			
23	CLK	e	14	42	50		0.5	Udzungwa Range, Tanzania
		eSg		43	43			
	BHA	eSg		44	52		0.8	
		eL			58			
	KRR	iSg		45	08		0.6	
		iL			16			
	BUL	eSg		46	49		0.3	
	eL		47	00				
24	BHA	e	01	28	49		0.1	Distant
	KRR	e			55		0.2	
	BUL	e			09		0.2	
24	BUL	ei	01	31	19	rC	0.6	Distant
	KRR	i			30	C	0.4	
	BHA	i			31	C	0.3	
24	KRR	i	03	40	05	C	0.3	Distant
		i			29			
	BUL	i			11	C	0.3	
		i			31			
24	CLK	iPn	10	44	47	C	100.	N. Mocambique Channel
	KRR	iPn		45	54	C	21.	
		iSn		47	47			
		iSg		48	49			
	BUL	eiPn		46	08	cR	12.	
		i			14			
		iSn		48	15			
		iSg		49	25			
	BHA	iPn		46	13	R	27.	
		i			22			
	iSn		48	19				
	iSg		49	31				
24	BUL	ePn	12	34	56		0.7	Witwatersrand
		eSn		35	02			
		iSg			34			
	KRR	ePn			43		0.5	
		eSn		37	30			
	iSg		38	28				
24	BUL	eP'	13	52	49		0.8	Distant
		iSKP		55	37			
	KRR	eP'		52	52		0.6	
		iSKP		55	45			
	CLK	eSKP			37		0.4	
BHA	eSKP			53		0.3		
24	BUL	ePn	15	13	32		0.5	Witwatersrand
		iSg		15	15			
	KRR	iSg		17	02		0.3	

LIST OF RECORDED PHASES: 24 to 26 AUG 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
24	BUL	ePn	23	00	36		0.8	O.F.S. Goldfields	
		eSn		02	01				
	iSg			17					
	KRR	ePn		01	23		0.4		
		eSn		03	24				
		eSg		04	32				
BHA	eL		05	57		0.2			
CLK	eL		06	10		0.2			
24	BHA	iPn	23	15	48	C		Koni Mts. Area, Congo	
		iP*			55				
	KRR	iPn		16	22	C	26.		
		iP*			31				
		iSn		17	35				
		iSg		18	11				
	CLK	iPn		16	57		19.		
		iSn		18	39				
		iSg		19	32				
	BUL	ePn		17	03		10.3		
iSn			18	48					
	iL		19	54					
25	BUL	eSg	00	42	57		0.3	Witwatersrand	
		KRR		44	44		0.2		
25	BUL	eSg	01	44	31		0.2		
25	CLK	eSg	04	50	12		0.5		
		eL			21				
	BHA	iL			38		0.6		
	KRR	eL		51	35		0.2		
25	CLK	eP	05	14	35		0.2	Distant	
		BUL			58		0.3		
	KRR		15	04		0.3			
	BHA	eP			21		0.2		
25	BUL	iP	09	55	05	R	0.3	Distant	
		ipP			17				
	KRR	eP			28		0.3		
		ipP			41				
CLK	eP		56	08		0.2			
25	CLK	eP	12	36	03		0.3	Distant	
		BUL			45	cR	0.2		
25	BUL	eSg	16	29	23		0.2		
		KRR		31	09		0.2		
25	BUL	i	17	37	30	C	0.6	Distant	
26	CLK	eP	00	54	(30)		0.3	Distant	
		epP		55	27				
	KRR	eP			18		0.6		
		ipP		56	09				
	BHA	eiP		55	21	rC	0.6		
		epP		56	14				
BUL	eiP		55	22	rC	0.3			
	epP		56	15					
26	BUL	eP'	01	05	59		0.2	Distant	
		ePKS		09	59				
	KRR	eP'		06	05		0.2		
	BHA	eP'			08		0.3		
		ePKS		10	03				
	CLK	eP'		06	22		0.3		

LIST OF RECORDED PHASES: 26 to 27 AUG 1967 - 14

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
26	BUL	ePn	10	29	37		0.7	O.F.S. Goldfields	
		eSn		31	00				
		iSg			5				
	KRR	iL			49				
		eP		30	22		0.4		
		eS		32	24				
CLK	iL		33	36					
	eL		35	46		0.2			
26	CLK	eP	15	31	34		0.2	Distant	
	KRR	eP		32	16		0.4		
	BUL	iP			21	C	0.3		
	BHA	e			29		0.2		
26	CLK	iPn	16	43	41		4.5	S. Lake Malawi Area	
		iSn		44	09				
		iSg			16				
	BHA	eSn		45	47		0.5		
		iSg		46	24				
	KRR	eSg			12		0.4		
	BUL	eSg		47	39		0.2		
26	BUL	eP'	18	39	22		0.2	Distant	
		epP'			36				
	KRR	eP'			25		0.4		
		epP'			41				
	BHA	eP'			30		0.5		
		ipP'			42				
CLK	epP'			38		0.2			
26	BUL	e	22	04	27		0.3	Distant	
		e			42				
27	BUL	ePn	00	54	13		0.5	Witwatersrand	
		eSn		55	23				
		iSg			52				
	KRR	ePn		55	00		0.5		
		eSn		56	42				
		eSg		57	41				
BHA	eL		58	56		0.1			
27	CLK	iP	02	06	14	R	0.3	Distant	
		iP			44	R	0.7		
	BUL	iP			49	R	0.6		
		i		07	36				
BHA	iP		06	51	R	0.3			
27	BUL	e	02	37	32		0.2	Distant	
27	KRR	eP	05	00	23		0.2	Distant	
	BUL	eP			44		0.3		
27	BHA	ePn	07	59	41		3.3	S. Lake Tanganyika Area	
		iSn	08	00	59				
		iL		01	46				
	CLK	ePn		00	06		1.4		
		iSn		01	46				
		iL		02	46				
	KRR	ePn		00	11		1.1		
		iSn		01	52				
		iSg		02	50				
	BUL	eS		03	10		0.4		
		eL		04	39				

LIST OF RECORDED PHASES: 27 to 28 AUG 1967 - 15

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	$\bar{C}$	mm		
27	CLK	iP	11	23	02	C	0.2	Distant	
	KRR	eP			32		0.2		
	BUL	iP			1.6	C	0.2		
27	BHA	iP'	13	27	20	C	1.6	Distant	
	BUL	iP'			20	C	1.7		
	KRR	iP'			22	C	3.8		
	CLK	iP'			33	C	1.0		
27	BUL	eSg	13	46	14		0.3		
27	CLK	eP'	13	54	23		0.2	Distant	
	KRR	eP'			24		0.3		
	BHA	eP'			24		0.1		
	BUL	iP'			29	R	1.0		
27	BUL	ePn	14	03	27		2.5	Wabersrand	
		eSn		04	34				
		iSg		05	06				
	KRR	ePn		04	13		0.9		
		eSn		05	51				
		iSg		06	49				
		iL			55				
	BHA	ePn		04	43		0.3		
		eSn		06	49				
		eSg		08	00				
	CLK	eSg			11		0.4		
		eL			18				
27	CLK	eP	14	29	58		0.2	Distant	
	KRR	iP		30	21	C	0.2		
	BUL	iP			25	C	0.4		
	BHA	eP			26		0.2		
27	BUL	e	18	48	42		0.2	Distant	
28	BUL	ei	01	09	14	rC	0.5	Distant	
		i		11	24				
	BHA	e		09	20		0.2		
	KRR	e			22		0.2		
28	BHA	eL	01	31	23		0.3		
	CLK	eL		32	12		0.2		
	KRR	eL			13		0.2		
28	KRR	i	03	48	37	C	0.3	Distant	
	BUL	e			59		0.1		
28	BHA	eL	10	17	22		0.6	Ruwenzori Area	
	CLK	eL		18	07		0.5		
	KRR	eL		18	26		0.6		
	BUL	eL		20	12		0.3		
28	BUL	eSg	13	15	21		0.2		
	KRR	eL		16	51		0.2		
28	BUL	eSg	14	06	02		0.2		
28	BUL	e	14	09	22		0.3	Distant	
28	BUL	e	15	26	50		0.2	Distant	
28	BHA	eP'	15	45	18		0.1	Distant	
	KRR	eP'			19		0.2		
	CLK	eP'			22		0.2		
	BUL	eiP'			27	cR	1.4		

LIST OF RECORDED PHASES: 28 to 30 AUG 1967 - 16

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
28	KRR	e	16	39	32		0.2	Distant	
	BUL	i			42	C	0.7		
28	CLK	eP	17	48	55		0.2	Distant	
	KRR	iP		49	21	C	0.4		
	BUL	iP			24	C	0.4		
	BHA	iP			28	C	0.3		
28	KRR	e	21	17	11		0.2	Distant	
		e			19				
	BHA	e			12		0.1		
	BUL	e			30		0.3		
		e			37				
28	BHA	eP	21	25	16		0.1	Distant	
	KRR	eiP			34	rC	0.3		
	BUL	iP			50	C	0.3		
29	BUL	e	00	57	06		0.1	Distant?	
	KRR	e			31		0.2		
29	BUL	eSg	02	01	05		0.2	Witwatersrand	
	KRR	eL		02	53		0.2		
29	CLK	iP	07	40	19	R	0.5	Distant	
		ipP			28				
	KRR	eP			42		0.4		
	BUL	iP			45	R	0.4		
		ipP			53				
	BHA	eP			49		0.3		
29	BUL	e	10	21	36		0.1	Distant	
	KRR	e			37		0.2		
29	BUL	eSg	13	21	51		0.2		
	KRR	e(L)		22	21		0.2		
29	BUL	eSg	18	22	49		0.2		
	KRR	eL		24	51		0.2		
30	CLK	iP	04	15	31	C	0.3	Distant	
	KRR	eP			55		0.2		
	BUL	eiP		16	09	rC	0.2		
30	CLK	iP	04	34	05	R	19.8	China	
		iPP		36	51				
		eSKS		44	03				
	BHA	iP		34	27	R	15.6		
		iSKS		44	48				
	KRR	iP		34	30	R	16.3		
		eSKS		44	44				
	BUL	iP		31	43	R	16.7		
		iPP		37	38				
		iS		45	20				
30	BUL	ePn	04	51	14		0.9	Witwatersrand	
		iS*		52	32				
		iSg			53				
	KRR	eSg		54	33		0.6		
		iL			41				
30	CLK	eiP	05	09	42	rC	0.6	China	
		ipP			46				
	BHA	eiP		10	05	rC	0.5		
		ipP			09				
	KRR	iP			07	C	0.4		
	BUL	eiP			21	rC	0.5		
		ipP			25				



LIST OF RECORDED PHASES: 30 to 31 AUG 1967 - 17

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
30	BHA	eP	05	44	29		0.2	China	
	KRR	eP			31		0.1		
	BUL	eP			45		0.2		
30	KRR	ePn	10	45	21		3.6	Kariba	
		iPg			23				
		iSn			37				
	BHA	iSg			40				
		ePg			38		0.6		
	BUL	ePg	40	05					
30	BUL	ePg			03		0.3		
		eSg			46				
	CLK	eiP	11	20	48	rC	2.8	China	
	BHA	eiP		21	10	rC	1.8		
	KRR	eiP			13	rC	1.0		
	BUL	eiP			27	rC	2.2		
30	CLK	ipP			32				
		eiP	11	23	53	rC	0.4	China	
	BHA	eiP		24	15	rC	0.4		
	KRR	eP			18		0.3		
30	BUL	eiP			32	rC	0.3		
	BUL	eSg	12	03	08		0.2	Witwatersrand	
30	KRR	eSg		04	56		0.2		
	BUL	iP'	12	14	30	R	0.9	Distant	
30	CLK	eP'			31		0.2		
		iP'			35	R	1.3		
	KRR	eP'			41		0.5		
	BHA	eP'							
30	BUL	ePn	12	29	56		0.6	Witwatersrand	
		eSn		31	04				
		iSg			35				
	KRR	ePn		30	43		0.4		
	BUL	iL		33	17				
30	CLK	iP'	13	52	16	C	0.3	Distant	
		iPP		53	37				
	BHA	iP'		52	22	C	0.4		
	KRR	ePP		53	59				
		eP'		52	03		0.5		
	BUL	ePP		54	00				
		iP'		52	29	C	0.5		
30	BUL	i	17	39	47	R	0.7	Distant	
	KRR	i			58	R	0.4		
	BHA	e			58		0.2		
31	CLK	eP	01	48	56		0.2	Distant	
	BUL	eP		49	48		0.2		
	BHA	eP			52		0.2		
31	BUL	e	11	06	05		0.2	Distant	
	KRR	e			11		0.2		
31	BUL	iPn	14	27	35	R	2.8	Witwatersrand	
		iSn		28	41				
		iS*			56				
		iSg		29	12				
		KRR	iPn		28	25		1.7	
	BHA	eSn		30	06				
		iSg			57				
		ePn		28	51		0.5		
	CLK	eSn		30	57				
		eSg		32	08				
BUL	iL			28		0.7			

LIST OF RECORDED PHASES: 31 to 31 AUG 1967 - 18

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
31	BUL	ePn	14	39	07		0.7	Witwatersrand	
		eSn		40	17				
		iSg			49				
	KRR	eSg	42	39			0.3		
31	BUL	eP'	19	12	18		0.4	Distant	
		eSKP		15	22				
	BHA	iP'		12	21	C	0.4		
		eSKP		15	37				
		ePKS			52				
	KRR	iSKP			33	R	0.5		
		iPKS			43				
31	KRR	eP	19	26	18		0.2	Distant	
		epP			25				
	BUL	eP			20		0.5		
		ipP			27				

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RHODESIA METEOROLOGICAL SERVICES

SEISMOLOGICAL BULLETIN

The following stations contribute records for analysis and publication in this Bulletin:

- KABWE (BHA):  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
(Broken Hill)  
Litho. foundation: Dolomite and Shales of the Middle Katanga System.  
Authority: Zambia Meteorological Service.  
Instrument: Three component Willmore one-second seismograph.  
Nominal magnification 20,000.
- CHILEKA (CLK):  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
Litho. foundation: Charnockitic granulites of the Basement Complex.  
Authority: Malawi Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.
- KAROI (KRR):  $16^{\circ} 51.1' S$ ;  $29^{\circ} 37.1' E$ ; Alt. 1380 m.  
Litho. foundation: Granitic gneisses of the Zambesi type.  
Authority: Rhodesia Meteorological Services.  
Instrument: Vertical Willmore one-second seismograph.  
Nominal magnification 20,000.
- BULAWAYO (BUL):  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
Litho. foundation: Hornblend schists of the Bulawayan System.  
Authority: Rhodesia Meteorological Services.  
Instruments: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.  
WWSSS Station: SP magnification 100,000  
IP magnification 1,500

Analysis Centre: Goetz Observatory, Meteorological Service,  
P.O. Box 562, Bulawayo, Rhodesia.

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
01	03	31	11	USCGS 5.6S 147.2E; E. New Guinea region	5.6
01	12	27(30)		19S 36E; offshore Central Mocambique	2.9
01	14	53	55	USCGS 44.1S 82.2W; West Chile Rise	5.2
01	20	34	27	26.4S 27.8E; Witwatersrand	2.9
01	21	02	58	26.3E 27.2E; Witwatersrand	3.1
01	22	42	02	USCGS 44.9N 147.0E; Kurile Is.	5.4
02	00	23	57	26.4S 27.2E; Witwatersrand	3.3
02	01	24	22	USCGS 33.7S 178.8W; S. of Kermadec Is.	4.7
03	01	23	20	USCGS 7.8S 147.1E; E. New Guinea region	5.4
03	09	09	18	USCGS 61.4S 55.7W; S. Shetland Is.	4.9
03	21	07	31	USCGS 10.6S 79.8W; off Coast of Peru	6.5
03	23	33	58	26.4S 27.2E; Witwatersrand	2.7
04	03	51	59	USCGS 31.4S 179.4W; Kermadec Is.	5.5
04	13	00	11	USCGS 4.7S 153.2E; New Ireland region	4.6
04	18	01	33	USCGS 8.8S 157.7E; Solomon Is.	5.2
04	22	06	13	USCGS 28.3S 63.1W; Santiago del Estero Province, Argentina	4.6
05	04	29(02)		Sandoa Area, Congo	3.5
05	19	41	29	10.8S 41.7E; offshore N. Mocambique	3.6
05	20	21	30	10.8S 41.7E; offshore N. Mocambique	3.4
06	01	43	32	USCGS 24.1N 91.7E; India-E. Pakistan border	5.0
06	03	19	12	USCGS 46.7N 154.0E; Kurile Is. region	4.8
06	04	59	25	USCGS 35.0N 23.0E; Crete	4.8
06	07	06	28	8.1S 29.9E; Marungu Mts., Congo	3.6
06	07	30	11	USCGS 14.7N 93.6E; Andaman Is. region	5.6
06	09	03	30	10.1S 41.4E; offshore N. Mocambique	4.5
06	09	25	34	USCGS 52.4N 168.6W; Fox Is., Aleutians	4.2
06	17	24	40	USCGS 52.6N 168.5W; Fox Is., Aleutians	4.8
06	19	44	08	USCGS 5.2S 151.7E; New Britain region	5.1
06	20	48	44	USCGS 15.0S 167.5E; New Hebrides Is.	4.1
07	01	59	58	USCGS 31.3N 114.3W; Gulf of California	4.7
07	07	12	37	USCGS 2.7N 124.3E; Celebes Sea	5.8
07	09	34	12	USCGS 30.5S 177.6W; Kermadec Is. region	4.7
07	11	08	13	USCGS 31.3S 179.6E; Kermadec Is.	5.1
07	15	54	37	USCGS 53.0N 166.9W; Fox Is., Aleutians	4.1
08	00	26	03	USCGS 36.9N 71.5E; Afghanistan-USSR border reg.	5.0
08	08	06	56	USCGS 34.2S 71.4W; nr. Coast of Central Chile	4.8
08	08	59	59	USCGS 23.4S 70.7W; nr. Coast of N. Chile	5.5
08	10	44	23	26.3S 28.0E; Witwatersrand	2.5
08	12	32	38	16.7E 28.8E; Kariba	2.2

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
08	20	18	(50)	Central Mocambique Channel	3.2
08	22	37	39	USCGS 12.2N 140.8E; W. Caroline Is.	5.2
09	03	15	43	USCGS 53.4N 167.5W; Fox Is., Aleutians	4.1
09	08	37	50	USCGS 18.0N 145.5E; Mariana Is.	5.2
09	10	06	44	USCGS 27.7S 63.1W; Santiago del Estero Province, Argentina	5.8
09	12	37	08	28.2S 26.6E; O.F.S. Goldfields	4.0
09	22	36	(00)	4.0N 33.0E; N. Uganda	4.2
09	23	43	04	USCGS 54.8N 162.7W; Alaska Peninsula	4.6
10	15	51	42	USCGS 13.2N 89.5W; El Salvador	3.8
10	21	20	07	7.9S. 34.6E; S. Highlands, Tanzania	3.4
11	02	10	10	26.2S 27.7E; Witwatersrand	2.9
11	04	37	16	USCGS 21.4S 169.7E; Loyalty Is. region	5.0
11	06	12	02	USCGS 27.5N 66.4E; W. Pakistan	4.6
11	07	00	29	USCGS 36.5N 2.8E; Algeria	4.6
11	10	14	30	USCGS 21.3S 173.3E; New Hebrides Is. region	4.8
11	12	53	35	USCGS 45.0N 99.3E; Mongolia	4.8
11	14	38	00	26.3S 27.2E; Witwatersrand	
11	16	57	(00)	W. Witwatersrand	2.6
11	18	09	04	26.2S 27.2E; Witwatersrand	2.8
11	19	57	(20)	Witwatersrand	2.6
12	00	23	28	USCGS 22.8S 10.5W; S. Atlantic Ridge	4.9
12	01	24	39	26.3S 27.8E; Witwatersrand	2.8
12	02	43	33	USCGS 44.6N 149.8E; Kurile Is.	5.1
12	11	11	31	USCGS 5.0S 11.5W; Ascension Is. region	4.9
12	21	49	48	USCGS 5.5S 151.7E; New Britain region	5.2
13	18	41	15	USCGS 52.7N 172.5E; Near Is., Aleutian Is.	5.7
13	19	57	48	USCGS 56.0S 27.4W; S. Sandwich Is. region	5.3
14	00	41	41	USCGS 32.9S 178.4W; S. of Kermadec Is.	-
14	06	57	46	26.9S 26.7E; Witwatersrand	3.3
14	08	35	37	26.4S 28.0E; Witwatersrand	3.0
14	12	27	23	13S 41E; off shore N. Mocambique	3.6
14	14	49	42	28.4N 57.1E; S. Iran	4.7
14	15	35	17	USCGS 15.4S 167.5E; New Hebrides Is.,	4.9
14	20	32	39	USCGS 23.5S 70.2W; Near Coast of N. Chile	4.8
15	00	02	03	USCGS 32.0S 78.8E; Mid-Indian Rise.	(4.8)
15	00	28	40	USCGS 35.6N 140.4E; Nr. E. Coast of Honshu, Japan	5.2
15	06	30	00	USCGS 6.3S 103.1E; S.W. of Sumatra	4.8
15	10	32	49	USCGS 27.4N 91.8E; Bhutan	5.8
15	17	01	31	3.3S 36.1E; Ngorongoro Escarpment, Tanzania	4.2

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Date	G	M	T	Epicentre; Remarks	Mag
	h	m	s		CGS
15	17	40	17	USCGS 0.0 124.3E; Molucca Sea	-
15	17	52	02	USCGS 31.6S 69.4W; San Juan Prov. Argentina	4.7
15	22	18	26	<del>26.2S</del> 28.0E; Witwatersrand	3.4
16	03	40	55	USCGS 2.0S 128.9E; Ceram Sea	5.4
16	04	03	58	USCGS 50.0N 77.8E; E. Kazakh, SSR	5.3
16	05	41	27	Uganda	4.4
16	07	55	21	15.8S 35.4E; Mlanje Escarpment, Malawi	4.2
16	08	31	58	USCGS 52 ON 176.4W; Andreanof Is., Aleutians	5.4
16	12	50	00	<del>26.1S</del> 28.1E; Witwatersrand	2.8
16	15	11	15	USCGS 15.7S 167.3E; New Hebrides Is.	4.6
16	18	34	00	<del>26.3S</del> 28.1E; Witwatersrand	3.2
16	19	12	14	USCGS 10.1S 161.2E; Solomon Is.	5.3
16	20	13	41	<del>26.8S</del> 26.5E; Witwatersrand	2.9
16	22	51	17	<del>26.2S</del> 27.8E; Witwatersrand	2.5
16	23	12	39	USCGS 56.5S 24.4W; S. Sandwich Is. region	4.5
17	07	56	23	USCGS 17.2N 94.1W; Chiapas, Mexico	5.2
17	08	27	39	<del>26.2S</del> 27.3E; Witwatersrand	2.7
17	16	49	02	USCGS 31.2N 114.4W; Gulf of California	4.3
17	19	41	46	<del>26.4S</del> 27.3E; Witwatersrand	2.9
18	08	26	37	USCGS 35.9N 70.4E; Hindu Kush region	4.8
18	15	27	29	<del>26.4S</del> 27.3E; Witwatersrand	3.3
18	15	33	07	USCGS 5.9S 146.6E; E. New Guinea region	5.5
18	19	13	53	USCGS 20.7S 178.4W; Fiji Is. region	4.0
19	00	45	31	USCGS 24.7S 177.3W; South of Fiji Is.	4.7
19	10	56	09	USCGS 43.0N 145.2E; Hokkaido, Japan region	5.9
19	11	22	08	17.8S 35.2E; Zambesi-Shire Confluence, Mocamb.	2.5
19	12	45	35	USCGS 57.8S 23.4W; S. Sandwich Is. region	5.7
19	13	48	10	<del>26.0S</del> 27.6E; Witwatersrand	2.3
19	19	01	47	USCGS 1.6S 100.5E; S. Sumatra	5.0
19	19	28	45	USCGS 36.3S 52.2E; Atlantic-Indian Rise	5.4
20	00	20	29	<del>26.5S</del> 27.1E; Witwatersrand	2.3
20	00	32	44	USCGS 36.0N 139.9E; Honshu, Japan	4.9
20	00	42	42	<del>26.3S</del> 28.2E; Witwatersrand	2.3
20	09	39	15	USCGS 49.8S 163.4E; Auckland Is. region	6.1
20	10	37	20	USCGS 20.8S 169.8E; New Hebrides Is.	5.9
20	13	21	52	<del>26.1S</del> 27.8E; Witwatersrand	2.3
20	16	41	09	<del>26.4S</del> 26.9E; W. Witwatersrand	2.4
20	18	38	25	USCGS 28.6S 175.9W; Kermadec Is.	5.0
20	19	46	43	USCGS 34.1S 14.6W; Tristan da Cunha region	5.2
20	21	40	40	USCGS 57.3S 24.1W; S. Sandwich Is. region	(4.7)
21	03	31	33	USCGS 6.1S 146.8E; E. New Guinea region	4.5

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Date	G h	M m	T s	Epicentre	Remarks	Mag CGS
21	15	44	23	29.2S 26.7E;	O.F.S. Goldfields	3.0
21	16	20	21	16.6E 28.6E;	Kariba	2.2
21	16	37	33	26.1S 27.3E;	Witwatersrand	2.8
21	17	39(30)		57.5S 24.0W;	S. Sandwich Is. region	(4.8)
21	17	45(50)		57.5S 24.0W;	S. Sandwich Is. region	(4.5)
21	17	55(50)		57.5S 24.0W;	S. Sandwich Is. region	(4.5)
21	20	40	32	USCGS 57.7S 23.6W;	S. Sandwich Is. region	5.2
22	01	22	44	8.1S 29.0E;	Marungu Mts., Congo	4.3
22	01	41	19	27.5S 27.3E;	W. Witwatersrand	2.6
22	02	56	04	26.3S 27.9E;	Witwatersrand	2.8
22	05	03	58	USCGS 50.0N 77.6E;	E. Kazakh, SSR	5.3
22	08	08	04	USCGS 0.7S 20.1W;	Cent. Mid-Atlantic Ridge	5.3
22	10	18	00	USCGS 44.5N 149.4E;	Kurile Is.	5.6
22	12	34	52	USCGS 44.4N 149.4E;	Kurile Is.	4.8
22	20	48	27	USCGS 4.6S 153.0E;	New Ireland region	5.0
22	22	11	48	USCGS 36.2N 71.4E;	Afghanistan-USSR border reg.	4.7
23	06	56	44	USCGS 21.8S 179.7W;	Fiji Is. region	5.4
23	13	36	23	26.6S 26.8E;	Witwatersrand	3.0
23	21	58	06	USCGS 40.4S 16.7W;	S. Atlantic ridge	4.8
23	22	43	17	USCGS 29.6S 179.3W;	Kermadec Is	4.5
24	00	57	10	USCGS 4.6N 128.6E;	N. of Halmahera	5.3
24	01	10	15	USCGS 29.6S 177.8W;	Kermadec Is. region	4.6
24	07	39	20	26.3S 28.1E;	Witwatersrand	3.5
24	07	43	36	USCGS 6.3S 146.9E;	E. New Guinea region	5.1
24	20	21(00)			N. Lake Tanganyika area	3.8
25	04	38	26	USCGS 15.1S 173.4W;	Tonga Is.	5.0
25	14	36	23	26.4S 27.2E;	Witwatersrand	3.3
25	17	03	54	USCGS 3.2N 125.5E;	Talau Is.	5.3
26	04	50(50)			Witwatersrand	2.4
26	06	47	12	USCGS 46.9N 150.6E;	Kurile Is.	4.7
26	11	11	24	USCGS 33.6S 70.5W;	Chile-Argentina border reg.	5.8
26	12	42	44	26.5S 27.2E;	Witwatersrand	2.4
26	16	11	24	USCGS 30.0S 71.5W;	Nr. Coast of Central Chile	(6.1)
26	17	05	55	USCGS 7.1S 155.8E;	Solomon Is.	5.7
26	21	19	34	26.5S 27.3E;	Witwatersrand	2.9
27	07	24	30	USCGS 34.4N 26.6E;	Crete	4.7
27	09	32	39	USCGS 11.4S 166.3E;	Santa Cruz Is.	4.5
27	14	33	19	26.3S 27.3E;	Witwatersrand	2.9
27	14	34	36	26.2S 27.4E;	Witwatersrand	2.9
27	15	55	24	26.3S 27.6E;	Witwatersrand	2.4

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
28	02	54	11	13.9S 26.0E; Busango Swamp, Zambia	2.8
28	03	00	31	USCGS 52.2N 171.0W; Fox Is. Aleutians	5.1
28	04	56	56	USCGS 6.6S 153.4E; New Britain region	5.9
28	13	58	25	26.3S 28.0E; Witwatersrand	2.6
28	14	48	12	26.4S 27.3E; Witwatersrand	3.3
28	15	44	56	USCGS 59.5N 147.1W; Gulf of Alaska	5.6
28	15	48	07	26.3S 27.6E; Witwatersrand	2.7
28	18	12	39	26.4S 27.3E; Witwatersrand	3.6
28	19	07	37	12.6S 34.4E; Lake Malawi	3.1
29	04	04	32	26.4S 28.2E; Witwatersrand	3.3
29	05	18	49	USCGS 12.3N 91.2W; off Coast of Cent. America	5.2
29	09	37	12	11.2S 31.6E; W. Muchinga Mts., Zambia	3.0
29	17	29	40	USCGS 31.8S 57.3E; Atlantic-Indian Rise	5.0
29	19	16	38	6.9S 27.4E; Tanganika Province, Congo -	3.4
30	00	24	13	9.8S 35.2E; Livingstone Mts., Tanzania	2.9
30	11	33	31	13.2S 41.2E; offshore N. Mocambique	3.7
30	21	32	53	USCGS 49.3S 116.5E; S. of Australia	-



LIST OF RECORDED PHASES: 01 to 03 SEP 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
01	BUL	e	03	49	30		0.5	Distant
	KRR	e			31		0.2	
01	CLK	iSg	12	29	55		0.6	Offshore Central Mocambique
	KRR	iL		30	55		1.0	
	BUL	eL		31	22		0.4	
01	BUL	i	15	06	51	C	0.3	Distant
		i			57			
	KRR	i		07	06	C	0.3	
		i			12			
	BHA	e			11		0.2	
01	BUL	e	19	58	19		0.2	Distant?
01	BUL	iSg	20	37	40		0.5	Witwatersrand
	KRR	eSg		39	32		0.2	
01	BUL	ePn	21	04	31		0.4	Witwatersrand
		eSn		05	40			
		eSg		06	13			
	KRR	ePn		05	19		0.4	
		eSg		08	01			
01	CLK	eP'	23	00	31		0.2	Distant
		ePP		01	38			
	BHA	iP'		00	38	C	0.4	
	KRR	eP'		00	40		0.5	
		ePP		02	11			
	BUL	iP'		00	45	C	0.6	
		epP'		01	18			
		ePP		02	27			
02	BUL	ePn	00	25	30		1.2	W. Witwatersrand
		eSn		26	40			
		eS*			52			
		eSg		27	12			
	KRR	ePn		26	17		0.6	
		eSn		28	02			
		iSg		29	01			
	BHA	ePn		26	46		0.2	
		eSn		28	56			
		eSg		30	10			
	CLK	eSg			29		0.2	
02	BUL	e	01	43	00		0.2	Distant
	KRR	e			06		0.2	
	BHA	e			12		0.2	
		e			19			
02	BUL	eSg	23	42	08		0.3	
03	BUL	e	01	41	42		0.4	Distant
		i		42	35			
	CLK	e		42	03		0.2	
	KRR	e			34		0.3	
03	BUL	iP	09	20	28	C	1.1	Distant
	KRR	eP			47		0.3	
03	BUL	i	21	21	29	C	0.6	Distant
	BHA	e		(40)			0.2	
	KRR	e		(50)			0.4	
	CLK	e		22	04		0.2	

LIST OF RECORDED PHASES: 03 to 05 SEP 1967 - 2

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
03	BUL	eP	21	25	44		1.2	Distant	
		eS		31	13				
	BHA	eP		25	55		0.8		
		eS		32	22				
	KRR	eP		26	00		1.6		
	CLK	eP			33		0.4		
03	KRR	e	21	37	00		0.2	Distant	
	CLK	e			05		0.2		
		e			14				
	BUL	e			26		0.4		
03	BUL	eSg	23	36	13		0.3	Witwatersrand	
03	BUL	eSg	23	55	05		0.3		
	KRR	e(Sg)			33		0.2		
04	BUL	e	03	28	23		0.2	Distant?	
	KRR	e			23		0.2		
04	BUL	iP'	04	10	26	R	2.4	Distant	
		ipP'			35				
	CLK	iP'			28	C	0.4		
		ePP		12	05				
	KRR	iP'		10	31	R	4.7		
		ipP'			40				
04	KRR	e	04	20	18		0.2	Distant	
	CLK	e			21		0.2		
	BUL	e			25		0.2		
04	BUL	e	13	18	56		0.2	Distant	
04	BHA	e	16	35	33		0.2	Distant	
		e			38				
	BUL	e			50		0.2		
		e			55				
04	BUL	e(L)	18	20	31		0.3		
04	BUL	iP	22	17	34	C	1.4	Distant	
	BHA	iP			47	C	0.6		
	CLK	iP		18	11	C	0.2		
05	BHA	eSn	04	32	13		1.2	Sandoa Area, Congo	
		eSg			54				
	BUL	eS		33	59		0.3		
		iL		35	24				
05	BUL	eSg	06	12	56		1.2	Witwatersrand	
		iL			59				
05	CLK	iP	19	43	28		1.2	Offshore N. Mocambique	
		eS		44	53				
	BHA	iP			35		0.4		
		eS		46	54				
		eL		48	24				
	BUL	eP		45	08		0.2		
05	CLK	iPn	20	23	29		0.8	Offshore N. Mocambique	
		eSn		24	55				
		eSg		25	38				
	BHA	eP		24	35		0.3		
		eS		26	54				
		eL		28	21				
	BUL	eP		25	10		0.2		

LIST OF RECORDED PHASES: 06 to 07 SEP 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
06	CLK	eP	01	54	33		0.3	Distant	
		ipP			41				
	BHA	iP		55	00	C	1.1		
		ipP			10				
	BUL	eP			17		0.3		
		epP			26				
06	CLK	eP	02	49	18		0.2	Distant	
	BHA	iP			52	C	0.3		
	BUL	eP		50	04		0.2		
06	BUL	e(L)	03	38	18		0.2		
06	CLK	eP	05	08	31		0.4	Distant	
	BUL	eP			57		0.4		
06	BHA	ePn	07	08	04		2.5	Marungu Mts., Congo	
		iSn		09	11				
		eSg			47				
	CLK	ePn		08	36		0.6		
		iSn		10	10				
		iL		11	09				
	BUL	eP		09	17		0.4		
		eS		11	19				
		iL		12	43				
06	CLK	iP	07	40	51	R	2.3	Distant	
		i(PoP)			58				
		ipP		41	03				
	BHA	iP			25	R	3.3		
		i(PoP)			32				
		epP			36				
	BUL	iP			37	R	2.5		
		i(PoP)			44				
		ipP			48				
06	CLK	eiPn	09	05	30		4.8	Offshore N. Mocambique	
		iSn		06	58				
		eSg		07	41				
	BHA	iPn		06	38		2.8		
		iSn		08	57				
	BUL	eiPn		07	11	cR	1.6		
		eSg		11	32				
06	BUL	e	09	45	08		0.3	Distant	
06	BHA	e	15	12	13		0.2	Distant	
	BUL	i			25	C	0.3		
06	BHA	e	17	44	05		0.2	Distant	
	BUL	i			15	C	0.8		
		i			29				
06	BUL	ei	22	02	49	cR	1.5	Distant	
		i		03	05				
	BHA	ei		02	53	cR	0.6		
		e		03	09				
06	BUL	i	21	07	32	R	0.4	Distant	
	BHA	e			39		0.2		
06	BHA	iL	22	44	25		0.6	Ruwenzori Area	
	CLK	eL		45	(10)		0.5		
	BUL	eL		47	16		0.2		
07	BUL	ei	02	19	37	rC	0.3	Distant	
	CLK	i		46		C	0.4		

LIST OF RECORDED PHASES: 07 to 09 SEP 1967 - 4

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks		
07	CLK	iP	07	25	05	R	1.3	Celebes. Sea Region			
		iPP		28	39						
		iSKS		35	10						
		iS			34						
	KRR	iP		25	29	R	2.3				
		ePP		29	19						
	BUL	iP		25	35	R	4.0				
		ePP		29	31						
		iSKS		35	44						
	BHA	iP		25	35	R	2.0				
iSKS			35	44							
07	BUL	e	09	53	07		0.6	Distant			
		i				17					
	KRR	e				13			0.5		
07	BUL	e	11	26	18	R	1.0	Distant			
		i				28			53		
	KRR	i				26			22	R	1.1
07	KRR	e	11	36	10		0.2	Distant			
		BUL				e			10	0.2	
07	KRR	e	14	04	34		0.3	Distant			
		BUL				i			38	R	0.4
		CLK				e			44	0.2	
07	BUL	i	16	14	11	C	0.4	Distant			
08	KRR	eP	00	36	41		0.2	Distant			
		BUL				eP			37	03	0.2
08	BUL	i	08	19	39	C	0.8	Distant			
		i				57					
		KRR				i			53	C	0.6
08	KRR	i	09	12	58	C	0.8	Distant			
		BUL				i			13	09	C
08	BUL	eSg	10	47	34		0.2				
08	KRR	ePn	12	32	53		4.7	Kariba			
		iPg				56					
		iSn				33			04		
	BUL	iPg	40	0.7							
08	BUL	iSg		34	24						
		CLK	eSn	20	21	31		0.8			
08	KRR	eSg	22	22	05		0.5				
		BUL				eSg		49			
		BUL				iSg		23	22	0.3	
09	KRR	eP	22	56	08		0.2	Distant			
		ePP				57			02		
		BUL				eP			56	18	0.2
09	BUL	ePP		57	23						
		KRR	e	03	34	41		0.2	Distant		
09	BUL	i		44		C	0.2				
		KRR	eP	04	02	26		0.1	Distant		
09	KRR	eiP		50		rC	0.2				

LIST OF RECORDED PHASES: 09 to 11 SEP 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	KRR	i	08	56	12	C	0.4	Distant	
	BUL	i			15	C	0.4		
09	BUL	iP	10	18	08	R	20.	Distant	
		iPP		20	09			S. Sandwich Is. region	
		iScS		27	35				
		iSKS		31	19				
		iPKKP		36	29				
		iP'P'		47	04				
		iP'P'			14				
	KRR	iP		18	20	R	23.2		
		iPP		20	26				
		eScS		27	56				
		iPKKP		36	25				
		iP'P'		46	54				
	CLK	iP		18	45	R	8.1		
		iPP		19	53				
		iScS		28	27				
		ePKKP		36	12				
		eP'P'		46	43				
09	BUL	iPn	12	39	08		2.4	O.F.S. Goldfields	
		eSn		40	33				
		iSg		41	21				
	KRR	eiPn		39	52		1.3		
		eSn		41	55				
		iSg		43	03				
		iL			10				
	CLK	eSg		44	31		0.7		
		eL			41				
09	CLK	eP	22	40(20)			0.6	N. Uganda	
		eL		45	58				
	KRR	eP		40	40		0.5		
		iL		46	39				
	BUL	eP		41	14		0.3		
		eL		48	15				
10	BUL	e	00	02	31		0.2	Distant	
10	BUL	e	13	08	56		0.2	Distant	
10	BUL	e	16	10	27		0.2	Distant	
		e			42				
	KRR	e			29		0.2		
		e			45				
10	BHA	ePn	21	22	15		0.8	S. Highlands, Tanzania	
		eSn		23	50				
		eSg		24	38				
		iL			43				
	CLK	iSg			06		0.8		
	KRR	eL		25	32		0.3		
	BUL	eL		27	14		0.2		
11	BUL	eSg	02	13	18		0.3	Witwatersrand	
	KRR	eL		15	03		0.2		
11	KRR	e	03	10	00		0.2	Distant	
	BUL	e			03		0.2		
11	BUL	ei	04	56	16	cR	0.3	Distant	
		e			28				
	KRR	e			19		0.2		
		e			31				

LIST OF RECORDED PHASES: 11 to 13 SEP 1967 - 6

Date	Stn	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	C	mm		
11	CLK	eP	06	21	13		0.3	Distant	
	KRR	eiP			43	cR	0.4		
	BUL	eP		22	04		0.3		
11	KRR	i	07	10	26	C	0.3	Distant	
	BUL	i			45	C	0.4		
11	BUL	e	08	06	17		0.2	Distant	
11	BUL	e	10	33	33		0.2	Distant	
11	BHA	i	13	06	20	C	0.4	Distant	
		i			26				
	KRR	e			28		0.3		
	BUL	e			38		0.3		
11	BUL	eSn	14	40	39		0.5	Witwatersrand	
		eSg		41	10				
11	BUL	eSg	16	00	36		0.2		
11	BUL	eSg	18	12	19		0.3	Witwatersrand	
	KRR	eSg		14	00		0.2		
11	BUL	eSg	20	00	34		0.3		
11	BHA	eiP	20	05	16	cR	0.2	Distant	
	BUL	eP		06	03		0.1		
12	BUL	eP	00	30	31		0.7	Distant	
		ipP			34				
	BHA	eP			34		0.4		
	KRR	eP			45		0.7		
	CLK	eP		31	28		0.4		
		ipP			31				
12	BUL	iSg	01	27	50		0.4	Witwatersrand	
	KRR	eSg		29	31		0.2		
12	KRR	e	03	02	27		0.2	Distant	
	BHA	e			28		0.2		
		e			42				
	BUL	e			34		0.2		
		e			49				
12	BHA	eP	11	19	09		0.2	Distant	
	BUL	iP			20	R	1.0		
	KRR	iP			22	R	1.2		
	CLK	eP			58		0.3		
12	BUL	e	22	08	32		0.3	Distant	
		i			35				
	KRR	e			33		0.2		
	BHA	e			37		0.3		
13	KRR	e	00	15	44		0.2	Distant	
	BHA	e			46		0.1		
	BUL	e			57		0.2		
13	KRR	e	01	38	26		0.2	Distant	
	BUL	e			37		0.1		
	BHA	e			39		0.1		

1  
LIST OF RECORDED PHASES: 13 to 14 SEP 1967 - 7

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA mm	Epicentral region; Remarks		
13	CLK	eP'	19	00	25		0.3	Distant		
		ePP		02	34					
	BHA	eP'		00	28		0.4			
		iSKP		03	52					
	KRR	iP'		00	30	C	0.4			
		ePP		02	52					
	BUL	iSKP		03	55					
		eP'		00	34		0.3			
		ePP		03	22					
		eSKP		04	07					
13	BUL	iP	20	07	03	C	1.8	S. Sandwich Is. Region		
		ipP			34					
		iS		14	33					
		eSKS		16	49					
	KRR	eP'P'		37	20					
		iP		07	35	C	2.1			
		ipP		08	05					
		iS		15	24					
	BHA	iP'P'		37	23					
		iP		07	36	C	1.1			
		ipP		08	07					
		iS		15	35					
	CLK	eSKS		17	24					
		iP'P'		37	12					
		iP		07	53	C	0.8			
			ipP		08	25				
	13	BUL	e	20	49	02			0.3	Distant
			e			14				
	KRR	e			22		0.2			
14	BUL	e	01	00	31		0.1	Distant		
	BHA	e			42		0.2			
	KRR	e			46		0.2			
14	BUL	iPn	06	59	25		0.5	Witwatersrand		
		eSn	07	00	38					
		iSg		01	15					
	KRR	ePn		00	22		0.4			
		eSg		03	13					
14	BUL	ePn	08	37	11		0.5	Witwatersrand		
		eSn		38	19					
		iSg			49					
	KRR	eSg		40	40		0.3			
14	CLK	ePn	12	28	57		2.7	Offshore N Mocambique		
		eSn		30	05					
		eSg			38					
	KRR	eL		33	37		0.3			
	BHA	eSg			40		0.3			
		iL			45					
	BUL	eSg		34	28		0.3			
14	CLK	eP	14	58	27		0.2	Distant		
	BHA	eP		59	00		0.1			
	KRR	eP			02		0.4			
	BUL	eP			16		0.3			
14	BUL	eSg	15	13	18		0.2			
	KRR	iSg			21		0.2			

LIST OF RECORDED PHASES: 14 to 15 SEP 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
14	CLK	iP'	15	54	01	C	0.3	Distant	
	BUL	iP'			05	C	0.5		
	KRR	iP'			06	C	0.7		
		eSKP		57	21				
	BHA	iP'			13	C	0.3		
		iSKP		57	25				
14	BUL	eP	20	45	36		0.3	Distant	
		ipP			58				
	BHA	eP			49		0.1		
		epP		46	04				
	KRR	eP			02		0.1		
15	CLK	eiP	00	10	02	rC	0.8	Distant	
	BUL	eiP			27	rC	0.4		
	KRR	eP			41		0.3		
		i		12	15				
	BHA	eiP		10	48	rC	0.4		
15	CLK	eP	00	22	21		0.2	Distant	
	KRR	eP			46		0.2		
	BUL	iP			50	R	0.2		
	BHA	iP			53	R	0.2		
15	CLK	eP'	00	47	07		0.2	Distant	
		ePP			52				
	KRR	eP'			17		0.2		
		ePP		48	22				
	BHA	eP'		47	17		0.2		
		ePP		48	22				
	BUL	eP'		47	22		0.3		
		iPP		48	42				
15	BUL	i	05	41	29	C	0.2	Distant	
15	BUL	i	06	41	30	R	0.3	Distant	
15	CLK	iP	10	43	56	C	2.1	Tibet	
		ipP		44	01				
		eS		53	08				
	BHA	iP		44	21	C	3.3		
		ipP			26				
		iS		53	52				
	KRR	iP		44	24	C	2.8		
		ipP			29				
	BUL	iP		44	39	C	1.5		
		ipP			44				
		eS		54	27				
15	BUL	eSg	14	04	02		0.2		
15	CLK	ePn	17	04	26		2.2	Ngorongoro Escarpment, Tanzania	
		eSn		06	34				
		iSg		07	52				
		iL			59				
	BHA	ePn		04	40		3.3		
		eSn		06	59				
		iSg		08	18				
	KRR	eP		04	59		0.7		
		eL		09	18				
	BUL	eL		10	58		0.3		



LIST OF RECORDED PHASES: 15 to 16 SEP 1967 - 9

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
15	KRR	i	17	53	30	C	0.3	Distant
	BHA	i			35	C	0.3	
		i			54			
	BUL	e			35		0.3	
15	BUL	eP	18	04	32		0.4	Distant
		ipP			05 02			
	KRR	eP			04 46		0.2	
		epP			05 16			
	BHA	iP			04 47	C	0.2	
		ipP			05 17			
15	KRR	e	20	56	28		0.2	Distant
	BUL	e			31		0.2	
15	BUL	ePn	22	19	55		1.6	Witwatersrand
		iSg			21 31			
	KRR	ePn			20 43		0.7	
		eSg			23 17			
	BHA	eSg			24 32		0.2	
16	KRR	e	03	54	31		0.2	Distant
	BUL	e			34		0.2	
	BHA	e			37		0.2	
16	BHA	iP	04	15	56	C	0.5	Distant
	KRR	iP			16 05	C	0.9	
	BUL	iP			22	C	0.6	
16	BHA	eP	05	45	04		1.3	Uganda
		iL			49 44			
	KRR	eP			45(30)		1.0	
		eL			50 34			
	BUL	eP			46 12		0.5	
		eL			52 29			
16	CLK	iP	07	55	23	R		Mlanje Escarpment, Malawi
	KRR	eiPn			56 43	cR	6.8	Felt MM V at Mimoso;
		iSn			57 43			MM III at Bvumbwe, Chichiri
		iSg			58 10			and Chileka
	BHA	iPn			56 59		10.0	
		iSn			58 12			
		iSg			43			
	BUL	ePn			57 11		6.7	
		iSn			58 33			
		iSg			59 12			
16	CLK	iP'	08	51	12	R	0.8	Distant
		eSKP			54 38			
	BHA	eP'			51 17		0.4	
		eSKP			54 45			
	KRR	eP'			51 20		1.2	
		eSKP			54 50			
	BUL	eP'			51 23		0.5	
16	BUL	e	10	25	14		0.2	Distant
		e			36			
	KRR	e			16		0.2	
		e			38			
16	BUL	eiP	10	28	00	rC	0.8	Distant
		ipP			06			
	KRR	eiP			02	rC	0.5	
	CLK	eP			39		0.2	

LIST OF RECORDED PHASES: 16 to 18 SEP 1967 - 10

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region:	Remarks
16	BUL	e	11	42	14		0.2	Distant	
	KRR	e			21		0.2		
16	BUL	ePn	12	51	28		0.5	Witwatersrand	
		eSg		53	06				
	KRR	eSg		54	48		0.2		
16	BUL	e	14	19	56		0.2	Distant	
	BHA	e		20	07		0.1		
	KRR	e			08		0.2		
16	CLK	iP'	15	30	06	R	0.2	Distant	
	BUL	iP'			12	R	0.6		
	KRR	iP'			13	R	0.6		
	BHA	iP'			19	R	0.3		
		iSKP		33	41				
16	BUL	ePn	18	35	29		0.8	Witwatersrand	
		eSn		36	36				
		eSg		37	07				
	KRR	ePn		36	15		0.4		
		eSg		38	49				
	BHA	eSg		40	05		0.2		
	CLK	eSg			14		0.2		
16	BUL	ei	19	31	10	cR	0.3	Distant	
		i			27				
	KRR	e			11		0.2		
		e			28				
	BHA	e			15		0.2		
	e			32					
16	BUL	eSg	20	17	15		0.3	Witwatersrand	
	KRR	eSg		18	59		0.2		
16	BUL	eSg	22	54	22		0.2	Witwatersrand	
	KRR	eSg		56	07		0.1		
16	BUL	eP	23	21	56		0.2	Distant	
	KRR	eP		22	20		0.2		
	BHA	eP			31		0.2		
17	BHA	eiP'	08	15	19	cR	0.3	Distant	
	KRR	eiP'			21	cR	0.4		
	BUL	eP'			21		0.3		
	CLK	eP'			33		0.3		
17	BUL	ePn	08	29	08		0.3	Witwatersrand	
		eSg		30	51				
	KRR	eSg		32	37		0.2		
17	KRR	e	17	08	36		0.3	Distant	
	BUL	e			38		0.2		
	CLK	e			47		0.2		
17	BUL	eSg	19	45	03		0.4	Witwatersrand	
	KRR	eSg		46	45		0.2		
17	KRR	e	21	41	36		0.2	Distant	
	BUL	e			49		0.2		
	BHA	e			(50)		0.1		
18	BUL	eP	00	35	39		0.2	Distant	
	KRR	eP			54		0.2		
	BHA	eP		36	09		0.1		

LIST OF RECORDED PHASES: 18 to 19 SEP 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
<u>Corrigenda:</u>									
06	BUL	ei	20	02	49	cR	1.5	Distant	
18	KRR	e	07	15	04		0.2	Distant	
	BUL	e			06		0.2		
18	KRR	e	08	37	14		0.2	Distant	
		e			36				
	BUL	e			29		0.1		
		e			57				
18	BUL	ePn	15	29	04		1.2	Witwatersrand	
		iSn		30	12				
		iSg			43				
	KRR	ePn		29	47		0.4		
		eSn		31	31				
		eSg		32	29				
	BHA	eSg		33	41		0.2		
18	KRR	ei	15	51	42	cR	0.7	Distant	
		i			54				
	BUL	ei			43	cR	1.6		
	BHA	ei			46	cR	0.6		
		i			57				
18	BUL	eP	19	32	02		0.2	Distant	
	KRR	eP			06		0.2		
	BHA	eP			31		0.2		
19	BUL	i	01	04	23	R	0.3	Distant	
	KRR	e			26		0.3		
19	CLK	eP	11	14	15		0.3	Distant	
	BHA	eP			46		0.6		
	KRR	eP			50		0.3		
		e		16	13				
	BUL	eP		14	56		0.8		
19	CLK	ePn	11	22	42		1.5	Zambesi - Shire confluence,	
		iSg		23	11			Mocambique	
	BUL	eSn		24	51		0.3		
		eSg		25	34				
	KRR	eSg		24	58		0.6		
19	BUL	iP	12	54	52	R	4.7	Distant	
		ipP		55	02				
	KRR	iP			15	R	6.5		
		ipP			25				
	BHA	iP			26	R	5.1		
		ipP			37				
	CLK	iP			36	R	1.3		
		ipP			47				
19	BUL	eSg	13	51	10		0.2	Witwatersrand?	
	KRR	eSg		52	56		0.1		
19	BUL	eSg	14	39	39		0.2		
19	BHA	eP	19	13	05		0.7	Distant	
		ipP			18				
	BUL	eP			07		0.6		
		ipP			21				
	KRR	eP			12		0.6		

LIST OF RECORDED PHASES: 19 to 21 SEP 1967 - 12

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
19	CLK	iP	19	34	08	C	2.6	Distant	
		e			35				
	BUL	iP			16	C	0.6		
		epP			33				
	KRR	iP			32	C	2.0		
	BHA	iP			56	C	2.6		
		ipP			35 15				
20	BUL	eSg	00	23	48		0.1	Witwatersrand	
20	BUL	eSg	00	45	49		0.2	Witwatersrand	
	KRR	eSg		47	30		0.1		
20	KRR	e	00	51	17		0.1	Distant?	
	BUL	ei			23	cR	0.3		
20	CLK	eP	09	53	(00)		0.3	Distant	
		ePP			57 08				
	BUL	eP			53 00		0.4		
		ePP			57 03				
		ePKKP	10	09	24				
	KRR	eP			53 17		0.5		
		ePP			57 25				
		ePKKP	10	09	16				
	BHA	eP	09	53	21		0.2		
		ePP			57 43				
20	CLK	iP'	10	55	59	C	0.8	Distant	
	BUL	iP'			56 05	C	2.4		
	KRR	iP'			08	C	2.5		
	BHA	eP'			13		0.6		
20	BUL	eSg	13	24	56		0.2	Witwatersrand	
20	BUL	eSg	16	44	28		0.2	Witwatersrand	
	<del>KRR</del>	eSg			46 12		0.1		
20	BUL	e	18	57	24		0.2	Distant	
	KRR	e			31		0.2		
	BHA	e			36		0.2		
20	BUL	eP	19	54	19		0.7	Distant	
	KRR	eP			42		0.5		
	BHA	eP			49		0.2		
20	BUL	eP	21	49	58		0.2	Distant	
		ipP			50 09				
	KRR	eP			22		0.3		
		epP			32				
	BHA	iP			34	C	0.3		
		ipP			43				
20	BUL	iP	21	52	02	C	0.3	Distant	
		ipP			11				
	KRR	iP			26	C	0.3		
		ipP			35				
	BHA	eP			36		0.3		
		epP			41				
21	KRR	e	03	50	08		0.1	Distant	
	BUL	e			08		0.1		
21	CLK	iP	08	18	18	R	0.5	Distant	
	KRR	iP			19 03	R	0.5		
	BUL	eP			15		0.3		

LIST OF RECORDED PHASES: 21 to 22 SEP 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
21	BHA	iP	13	20	52	C	0.3		
	BUL	eP		21	07		0.2		
21	BUL	eSg	15	48	36		0.3	Witwatersrand	
	KRR	eSg		50	23		0.2		
21	KRR	iPn	16	20	41		4.6	Kariba	
		iPg			43				
		iSg			55				
	BHA	ePn			57		1.3		
		iPg		21	00				
		iSg			28				
	BUL	ePn			15		0.6		
		ePg			24				
		eSg		22	09				
21	BUL	eSn	16	40	16		0.4	Witwatersrand	
		iSg			48				
	KRR	eSg		42	34		0.2		
21	BUL	eP	17	48	46		0.2	Distant	
	KRR	iP		49	10	C	0.3		
	BHA	iP			21	C	0.3		
21	BUL	eP	17	55	08		0.2	Distant	
	KRR	eP			33		0.2		
	BHA	eP			44		0.2		
21	BUL	eP	18	05	04		0.2	Distant	
	KRR	eP			29		0.2		
	BHA	eP			42		0.2		
21	BUL	iP	20	49	49	R	0.3	Distant	
		eP			59				
	KRR	eP		50	14		0.2		
	BHA	eP			24		0.2		
22	BHA	iPn	01	24	15	C	11.2	Marungu Mts., Congo	
		iSn		25	21				
		iSg			56				
	KRR	ePn		24	46		4.1		
		iSn		26	15				
		iSg		27	05				
	CLK	ePn		24	54		4.0		
		eSn		26	26				
		iSg		27	18				
	BUL	ePn		25	29		2.2		
		eSn		27	30				
		iL		28	51				
22	BUL	eSg	01	44	36		0.2	Witwatersrand	
22	BUL	eSg	02	59	15		0.4	Witwatersrand	
	KRR	eSg	03	01	02		0.2		
22	CLK	eiP	05	15	45	cR	0.4	Distant	
	BHA	iP			56	C	0.4		
	KRR	eiP		16	04	cR	0.7		
	BUL	eiP			22	cR	0.5		

LIST OF RECORDED PHASES: 22 to 24 SEP 1967 - 14.

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
22	BHA	eP	08	16	58		0.5	Distant	
	BUL	eP		17	08		1.3		
	KRR	eP			09		0.6		
	CLK	iP			45	C	1.4		
22	CLK	eP'	10	36	43		0.2	Distant	
		ePP		37	58				
	BHA	eP'		36	50		0.4		
		ePP		38	39				
	KRR	eP'		36	51		0.7		
		ipP'		37	09				
		oPP		38	37				
	BUL	eP'		36	57		0.8		
	ipP'		37	15					
	ePP		38	51					
22	CLK	e	12	53	40		0.2	Distant	
	KRR	e			58		0.2		
	BUL	e		54	04		0.2		
22	BUL	i	21	07	12	R	0.5	Distant	
	KRR	e			13		0.3		
	BHA	e			15		0.2		
22	CLK	eiP	22	21	58	cR	0.3	Distant	
	BHA	eP		22	15		0.1		
	KRR	eP			23		0.3		
	BUL	eiP			43	cR	0.4		
23	CLK	e	03	43	50		0.2	Distant	
	BUL	e			52		0.1		
	KRR	e		44	00		0.2		
23	CLK	eP'	07	14	46		0.2	Distant	
	BUL	iP'			46	C	0.5		
	KRR	eP'			51		0.8		
	BHA	eP'			55		0.3		
23	CLK	iP'	07	17	15	C	0.8	Distant	
	BUL	iP'			16	C	7.7		
	KRR	iP'			23	C	5.5		
	BHA	iP'			32	C	3.8		
23	CLK	eP'	08	00	19		0.2	Distant	
	BUL	iP'			21	R	1.8		
	KRR	eP'			28		1.4		
23	BUL	ePn	13	23	02		0.4	Witwatersrand	
		oSg		24	26				
	KRR	eSg		26	07		0.2		
23	BUL	eP	18	38	49		0.2	Distant	
	KRR	eP		39	13		0.3		
	BHA	iP			17	C	0.2		
23	BUL	eP	22	06	08		0.4	Distant	
	KRR	eP			30		0.6		
	BHA	eP			37		0.3		
23	BUL	ei	23	01	34	rC	0.4	Distant	
	KRR	e			38		0.2		
	BHA	e			44		0.2		
24	KRR	e	01	10	53		0.2	Distant	
	BHA	e			58		0.2		
	BUL	e			58		0.2		

LIST OF RECORDED PHASES: 24 to 26 SEP 1967 - 15

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
24	BUL	e	01	29	05		0.2	Distant	
	KRR	e			09		0.2		
	BHA	i			15	C	0.2		
24	BUL	iPn	07	40	51		1.7	Witwatersrand	
		iSn		41	56				
		iSg		42	29				
	KRR	ePn		41	33		0.6		
		eSg		43	03				
	BHA	ePn		42	08		0.4		
24	KRR	e	08	07	09		0.4	Distant	
	BUL	i			10	C	0.6		
		i			23				
24	BHA	e			13		0.2		
	BHA	ePn	20	23	22		1.0		
		eSn		25	43				
		eSg		26	26				
	KRR	ePn		24	03		0.5		
		eSg		27	49				
	BUL	eP		24	43		0.3		
24		eI		29	26				
	BUL	eP	22	38	33		0.3	Distant	
	KRR	eP			45		0.2		
	BHA	eP		39	08		0.1		
25	KRR	e	04	57	46		0.2	Distant	
	BUL	e			49		0.2		
	BHA	ei			55	C	0.3		
		i			58	16			
25	BUL	ePn	14	37	56		1.2	Witwatersrand	
		eSn		39	05				
		eS*			16				
		iSg			37				
	KRR	eSg		41	24		0.4		
25	KRR	e	17	17	11		0.2	Distant	
	BUL	e			17		0.2		
26	BUL	eSg	04	54	04		0.2		
26	BUL	e	05	22	20		0.2	Distant	
	KRR	e			21		0.2		
26	KRR	e	07	05	52		0.3	Distant	
	BUL	e			58		0.2		
26	BUL	eSg	11	15	00		0.4	Witwatersrand	
	KRR	eSg		16	45		0.2		
26	BUL	iP	11	23	58	C	3.3	Distant	
		ipP		24	23				
		iPP		27	19				
	KRR	eP		24	12		4.4		
		ipP			36				
		ePP		27	40				
	BHA	iP		24	15	C	2.3		
		i			28				
26		ipP			38				
	BUL	eSg	12	45	59		0.2		

LIST OF RECORDED PHASES: 26 to 28001 1967 - 16

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks	
			h	m	s	C	mm		
26	BUL	ip'	16	24	11	C	3.6	Distant	
		ipP'			28				
		eSKP		27	39				
			ipPKP		34	57			
	KRR	ip'		24	23	C	5.1		
		ipP'			40				
		eSKP		28	00				
	BHA	ip'		24	26	C	2.6		
		ipP'			43				
		eSKP		28	02				
CLK	ep'		24	31		0.4			
	eSKP		28	10					
26	CLK	ep	17	24	00		0.3	Distant	
	KRR	ip			40	C	1.2		
	BUL	ip			41	C	6.5		
	BHA	eiP			45	cR	1.8		
26	BUL	ePn	21	21	07		0.5	Witwatersrand	
		eSn		22	17				
		iSg			50				
	KRR	eSg		24	37		0.2		
27	KRR	e	05	53	59		0.2	Distant	
	BUL	ei		54	09	rC	0.2		
	BHA	ei			09	rC	6.2		
27	KRR	e	07	33	33		0.2	Distant	
	BUL	i			57	C	0.2		
27	BUL	ip'	09	51	35	R	0.3	Distant	
		ep'			38		0.2		
		ep'			41		0.2		
		ep'			42		0.2		
27	BUL	ePn	14	34	50		0.6	Witwatersrand	
		eSg		36	31				
		KRR	eSg		38	19			0.2
27	BUL	eSg	14	37	46		0.6	Witwatersrand	
	KRR	eSg		39	25		0.2		
27	BUL	eSg	15	58	32		0.2	Witwatersrand	
27	BHA	ep	17	19	26		0.6	Distant	
		ipP'			36				
	KRR	eiP			35	cR	1.8		
	BUL	ip			38	C	4.0		
	CLK	ip			54	C	3.0		
28	BHA	ePn	02	54	51		4.0	Busango Swamp, Zambia.	
		iSg		55	23				
		KRR	ePn		55	19			1.3
			eSn		56	06			
			eSg			28			
	BUL	ePn		55	50		0.4		
		eSn		57	03				
		eSg			40				
	CLK	eSg		53	50		0.2		
	28	CLK	ep	03	05	18		0.2	Distant
BHA		ep			19		0.3		
KRR		ep			26		0.4		
		epP			32				
BUL		ep			44		0.4		
	ipP			56					



LIST OF RECORDED PHASES: 28 to 29 SEP 1967 - 17

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
28	CLK	i	03	12	44	C	0.3	Distant	
	KRR	i		13	00	C	1.1		
	BUL	i			04	C	1.3		
	BHA	i			05	C	0.8		
28	BHA	eP'	03	19	50		0.2	Distant	
		eSKP		23	39				
	KRR	eP'		19	51		0.2		
		eSKP		23	39				
	CLK	eP'		20	00		0.2		
	BUL	eP'			01		0.8		
28	BUL	eiP'	05	15	44	rC	2.5	Distant	
	CLK	eP'			44		0.3		
	KRR	iP'			45	C	1.2		
	BHA	eiP'			48	rC	1.5		
28	BUL	eSg	11	14	19		0.2	Distant	
28	BUL	eSg	13	31	06		0.4	Witwatersrand	
28	BUL	eSg	14	01	33		0.3	Witwatersrand	
28	BUL	iPn	14	49	44		1.1	Witwatersrand	
		eSn		50	53				
		iSg		51	25				
	KRR	ePn		50	31		0.6		
		eSn		52	13				
		eSg		53	14				
		BHA	ePn		51	00			0.2
28	BHA	e	15	01	47		0.2	Distant?	
	BUL	e		02	19		0.3		
	KRR	e			36		0.1		
28	BUL	eSg	15	51	14		0.3	Witwatersrand	
	KRR	eSg		53	00		0.2		
28	BHA	eP	16	04	15		0.2	Distant	
	KRR	eP			42		0.2		
	BUL	eP		05	29		0.2		
28	BUL	iPn	18	14	12		1.8	Witwatersrand	
		eSn		15	20				
		eS*			36				
		eSg			53				
	KRR	ePn		14	58		1.1		
		eSn		16	41				
		iSg		17	42				
	BHA	ePn		15	28		0.3		
		eSn		17	35				
		eSg		18	51				
	28	CLK	ePn	19	08	23			2.5
		iPg			30				
		iSg		09	08				
BHA		iSn		10	09		1.3		
		eSg			43				
KRR		eSg			41		0.7		
BUL		ePn		09	50		0.4		
		eSn		11	25				
	eSg		12	19					
29	BUL	ePn	04	06	02		1.4	Witwatersrand	
		iSg		07	40				
	KRR	eSg		09	18		0.3		

LIST OF RECORDED PHASES: 29 to 30 SEP 1967 - 18

Date	Sta	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	C	mm		
29	BHA	e	05	37	42		0.3	Distant	
	BUL	e			42		0.3		
	KRR	ei			44	cR	0.6		
29	BHA	ePn	09	38	20		2.3	W. Muchinga Mts., Zambia	
		eSn		39	06				
		iSg			32				
	CLK	eSn			30		1.4		
		iSg			55				
	KRR	eSn			43		0.7		
		eSg	40	10					
BUL	eSg	42	02						
29	CLK	iP	17	35	13	C	1.7	Distant	
		i			26				
	BUL	eP			30		0.5		
		ipP			37				
		i			42				
	KRR	e			39		0.2		
BHA	iP			59	C	0.4			
	ipP	36	06						
29	BHA	ePn	19	18	25		1.2	Tanganika Province, Congo	
		iSn		19	44				
		iL		20	29				
	KRR	ePn		19	00		0.4		
		eSn		20	46				
		eL		21	49				
	CLK	ePn		19	18		0.3		
		eSn		21	16				
		eSg		22	23				
	BUL	eP		19	42		0.2		
		eS		21	58				
	eL		23	27					
30	CLK	ePn	00	25	41		0.6	Livingstone Mts., Tanzania	
		eSn		26	41				
		eSg		27	10				
	BHA	eP		26	15		0.3		
		eL		28	34				
	KRR	eP		26	17		0.2		
		eSg		28	29				
BUL	eL		30	46		0.1			
30	BHA	eP	07	58	36		0.2	Distant	
	KRR	eP			57		0.2		
	BUL	eP		59	22		0.2		
30	CLK	ePn	11	35	04		3.5	Offshore N. Mocambique	
		eSn		36	11				
		eL			51				
	KRR	eP			18		0.4		
		eL		39	42				
	BHA	eS		38	36		0.4		
		eL		40	00				
BUL	eP		36	43		0.3			
	eL		40	45					
30	BUL	eSg	14	11	16		0.2		
30	CLK	eP	21	44	20		0.2	Distant	
	BUL	iP			25	C	0.3		
	KRR	eP			36		0.2		
	BHA	iP		45	04	C	0.2		
30	BUL	eSg	22	33	22		0.2		

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RHODESIA METEOROLOGICAL SERVICES

SEISMOLOGICAL BULLETIN

The following stations contribute records for analysis and publication in this Bulletin:

KABWE (BHA):  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
(Broken Hill)  
Litho. foundation: Dolomite and Shales of the Middle Katanga System.  
Authority: Zambia Meteorological Service.  
Instrument: Three component Willmore one-second seismograph.  
Nominal magnification 20,000.

CHILEKA (CLK):  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
Litho. foundation: Charnockitic granulites of the Basement Complex.  
Authority: Malawi Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.

KAROI (KRR):  $16^{\circ} 51.1' S$ ;  $29^{\circ} 37.1' E$ ; Alt. 1380 m.  
Litho. foundation: Granitic gneisses of the Zambesi type.  
Authority: Rhodesia Meteorological Services.  
Instrument: Vertical Willmore one-second seismograph.  
Nominal magnification 20,000.

BULAWAYO (BUL):  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
Litho. foundation: Hornblend schists of the Bulawayan System.  
Authority: Rhodesia Meteorological Services.  
Instruments: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.  
WWSSS Station: SP magnification 100,000  
IP magnification 1,500

Analysis Centre: Goetz Observatory, Meteorological Service,  
P.O. Box 562, Bulawayo, Rhodesia.

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Date	G h	M m	T s	Epicentre; Remarks	Mag CGS
01	03	31	11	USCGS 5.6S 147.2E; E. New Guinea region	5.6
X 01	12	27(30)		19S 36E; offshore Central Mocambique	2.9
01	14	53	55	USCGS 44.1S 82.2W; West Chile Rise	5.2
X 01	20	34	27	26.4S 27.8E; Witwatersrand	2.9
X 01	21	02	58	26.38 27.2E; Witwatersrand	3.1
01	22	42	02	USCGS 44.9N 147.0E; Kurile Is.	5.4
X 02	00	23	57	26.4S 27.2E; Witwatersrand	3.3
02	01	24	22	USCGS 33.7S 178.8W; S. of Kermadec Is.	4.7
03	01	23	20	USCGS 7.8S 147.1E; E. New Guinea region	5.4
03	09	09	18	USCGS 61.4S 55.7W; S. Shetland Is.	4.9
03	21	07	31	USCGS 10.6S 79.8W; off Coast of Peru	6.5
X 03	23	33	58	26.4S 27.2E; Witwatersrand	2.7
04	03	51	59	USCGS 31.4S 179.4W; Kermadec Is.	5.5
04	13	00	11	USCGS 4.7S 153.2E; New Ireland region	4.6
04	18	01	33	USCGS 8.8S 157.7E; Solomon Is.	5.2
04	22	06	13	USCGS 28.3S 63.1W; Santiago del Estero Province, Argentina	4.6
05	04	29(02)		Sandoa Area, Congo	3.5
X 05	19	41	29	10.8S 41.7E; offshore N. Mocambique	3.6
X 05	20	21	30	10.8S 41.7E; offshore N. Mocambique	3.4
06	01	43	32	USCGS 24.1N 91.7E; India-E. Pakistan border	5.0
06	03	19	12	USCGS 46.7N 154.0E; Kurile Is. region	4.8
06	04	59	25	USCGS 35.0N 23.0E; Crete	4.8
X 06	07	06	28	8.1S 29.9E; Marungu Mts., Congo	3.6
06	07	30	11	USCGS 14.7N 93.6E; Andaman Is. region	5.6
X 06	09	03	30	10.1S 41.4E; offshore N. Mocambique	4.5
06	09	25	34	USCGS 52.4N 168.6W; Fox Is., Aleutians	4.2
06	17	24	40	USCGS 52.6N 168.5W; Fox Is., Aleutians	4.8
06	19	44	08	USCGS 5.2S 151.7E; New Britain region	5.1
06	20	48	44	USCGS 15.0S 167.5E; New Hebrides Is.	4.1
07	01	59	58	USCGS 31.3N 114.3W; Gulf of California	4.7
07	07	12	37	USCGS 2.7N 124.3E; Celebes Sea	5.8
07	09	34	12	USCGS 30.5S 177.6W; Kermadec Is. region	4.7
07	11	08	13	USCGS 31.3S 179.6E; Kermadec Is.	5.1
07	15	54	37	USCGS 53.0N 166.9W; Fox Is., Aleutians	4.1
08	00	26	03	USCGS 36.9N 71.5E; Afghanistan-USSR border reg.	5.0
08	08	06	56	USCGS 34.2S 71.4W; nr. Coast of Central Chile	4.8
08	08	59	59	USCGS 23.4S 70.7W; nr. Coast of N. Chile	5.5
X 08	10	44	23	26.3S 28.0E; Witwatersrand	2.5
X 08	12	32	38	16.7E 28.8E; Kariba	2.2

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
08	20	18(50)		Central Mocambique Channel.	3.2
08	22	37	39	USCGS 12.2N 140.8E; W. Caroline Is.	5.2
09	03	15	43	USCGS 53.4N 167.5W; Fox Is., Aleutians	4.1
09	08	37	50	USCGS 18.0N 145.5E; Mariana Is.	5.2
09	10	06	44	USCGS 27.7S 63.1W; Santiago del Estero Province, Argentina	5.8
X	09	12	37	08 28.2S 26.6E; O.F.S. Goldfields	4.0
X	09	22	36(00)	4.0N 33.0E; N. Uganda	4.2
09	23	43	04	USCGS 54.8N 162.7W; Alaska Peninsula	4.6
10	15	51	42	USCGS 13.2N 89.5W; El Salvador	3.8
X	10	21	20	07 7.9S. 34.6E; S. Highlands, Tanzania	3.4
X	11	02	10	10 26.2S 27.7E; Witwatersrand	2.9
11	04	37	16	USCGS 21.4S 169.7E; Loyalty Is. region	5.0
11	06	12	02	USCGS 27.5N 66.4E; W. Pakistan	4.6
11	07	00	29	USCGS 36.5N 2.8E; Algeria	4.6
11	10	14	30	USCGS 21.3S 173.3E. New Hebrides Is. region	4.8
11	12	53	35	USCGS 45.0N 99.3E; Mongolia	4.8
X	11	14	38	00 26.3S 27.2E. Witwatersrand	
11	16	57(00)		W. Witwatersrand	2.6
X	11	18	09	04 26.2S 27.2E . Witwatersrand	2.8
11	19	57(20)		Witwatersrand	2.6
12	00	23	28	USCGS 22.8S 10.5W; S. Atlantic Ridge	4.9
X	12	01	24	39 26.3S 27.8E ; Witwatersrand	2.8
12	02	43	33	USCGS 44.6N 149.8E; Kurile Is.	5.1
12	11	11	31	USCGS 5.0S 11.5W; Ascension Is. region	4.9
12	21	49	48	USCGS 5.5S 151.7E ; New Britain region	5.2
13	18	41	15	USCGS 52.7N 172.5E ; Near Is., Aleutian Is.	5.7
13	19	57	48	USCGS 56.0S 27.4W; S. Sandwich Is. region	5.3
14	00	41	41	USCGS 32.9S 178.4W; S. of Kermadec Is.	-
X	14	06	57	46 26.9S 26.7E; Witwatersrand	3.3
X	14	08	35	37 26.4S 28.0E ; Witwatersrand	3.0
X	14	12	27	23 13S 41E; off shore N. Mocambique	3.6
X	14	14	49	42 28.4N 57.1E; S. Iran	4.7
14	15	35	17	USCGS 15.4S 167.5E; New Hebrides Is.,	4.9
14	20	32	39	USCGS 23.5S 70.2W; Near Coast of N. Chile	4.8
15	00	02	03	Uscgs 32.0S 78.8E; Mid-Indian Rise.	(4.8)
15	00	28	40	USCGS 35.6N 140.4E; Nr. E. Coast of Honshu, Japan	5.2
15	06	30	00	USCGS 6.3S 103.1E; S.W. of Sumatra.	4.8
15	10	32	49	USCGS 27.4N 91.8E. Bhutan	5.8
X	15	17	01	31 3.3S 36.1E; Ngorongoro Escarpment, Tanzania	4.2

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Date	G M T h m s	Epicentre; Remarks	Mag CGS
15	17 40 17	USCGS 0.0 124.3E; Molucca Sea	-
15	17 52 02	USCGS 31.6S 69.4W; San Juan Prov. Argentina	4.7
X 15	22 18 26	26.2S 28.0E; Witwatersrand	3.4
16	03 40 55	USCGS 2.0S 128.9E; Ceram Sea	5.4
16	04 03 58	USCGS 50.0N 77.8E; E. Kazakh, SSR	5.3
16	05 41 27	Uganda	4.4
X 16	07 55 21	15.8S 35.4E; Mlanje Escarpment, Malawi	4.2
16	08 31 58	USCGS 52.0N 176.4W; Andreanof Is., Aleutians	5.4
X 16	12 50 00	26.1S 28.1E; Witwatersrand	2.8
16	15 11 15	USCGS 15.7S 167.3E; New Hebrides Is.	4.6
X 16	18 34 00	26.3S 28.1E; Witwatersrand	3.2
16	19 12 14	USCGS 10.1S 161.2E; Solomon Is.	5.3
X 16	20 13 41	26.8S 26.5E; Witwatersrand	2.9
X 16	22 51 17	26.2S 27.8E; Witwatersrand	2.5
16	23 12 39	USCGS 56.5S 24.4W; S. Sandwich Is. region	4.5
17	07 56 23	USCGS 17.2N 94.1W; Chiapas, Mexico	5.2
X 17	08 27 39	26.2S 27.3E; Witwatersrand	2.7
17	16 49 02	USCGS 31.2N 114.4W; Gulf of California	4.3
X 17	19 41 46	26.4S 27.3E; Witwatersrand	2.9
18	08 26 37	USCGS 35.9N 70.4E; Hindu Kush region	4.8
X 18	15 27 29	26.4S 27.3E; Witwatersrand	3.3
18	15 33 07	USCGS 5.9S 146.6E; E. New Guinea region	5.5
18	19 13 53	USCGS 20.7S 178.4W; Fiji Is. region	4.0
19	00 45 31	USCGS 24.7S 177.3W; South of Fiji Is.	4.7
19	10 56 09	USCGS 43.0N 145.2E; Hokkaido, Japan region	5.9
X 19	11 22 08	17.8S 35.2E; Zambesi-Shire Confluence, Mocamb.	2.5
19	12 45 35	USCGS 57.8S 23.4W; S. Sandwich Is. region	5.7
X 19	13 48 10	26.0S 27.6E; Witwatersrand	2.3
19	19 01 47	USCGS 1.6S 100.5E; S. Sumatra	5.0
19	19 28 45	USCGS 36.3S 52.2E; Atlantic-Indian Rise	5.4
X 20	00 20 29	26.5S 27.1E; Witwatersrand	2.3
20	00 32 44	USCGS 36.0N 139.9E; Honshu, Japan	4.9
X 20	00 42 42	26.3S 28.2E; Witwatersrand	2.3
20	09 39 15	USCGS 49.8S 163.4E; Auckland Is. region	6.1
20	10 37 20	USCGS 20.8S 169.8E; New Hebrides Is.	5.9
X 20	13 21 52	26.1S 27.8E; Witwatersrand	2.3
X 20	16 41 09	26.4S 26.9E; W. Witwatersrand	2.4
20	18 38 25	USCGS 28.6S 175.9W; Kermadec Is.	5.0
20	19 46 43	USCGS 34.1S 14.6W; Tristan da Cunha region	5.2
20	21 40 40	USCGS 57.3S 24.1W; S. Sandwich Is. region	(4.7)
21	03 31 33	USCGS 6.1S 146.8E; E. New Guinea region	4.5

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Date	G h	M m	T s	Epicentre	Remarks	Mag CGS
X 21	15	44	23	29.2S 26.7E;	O.F.S. Goldfields	3.0
X 21	16	20	21	16.6S 28.6E;	Kariba	2.2
X 21	16	37	33	26.4S 27.3E;	Witwatersrand	2.8
X 21	17	39(30)		57.5S 24.0W;	S. Sandwich Is. region	(4.8)
X 21	17	45(50)		57.5S 24.0W;	S. Sandwich Is. region	(4.5)
X 21	17	55(50)		57.5S 24.0W;	S. Sandwich Is. region	(4.5)
	20	40	32	USCGS 57.7S 23.6W;	S. Sandwich Is. region	5.2
X 22	01	22	44	8.1S 29.0E;	Marungu Mts., Congo	4.3
X 22	01	41	19	27.5S 27.3E;	W. Witwatersrand	2.6
X 22	02	56	04	26.3S 27.9E;	Witwatersrand	2.8
	05	03	58	USCGS 50.0N 77.6E;	E. Kazakh, SSR	5.3
	08	08	04	USCGS 0.7S 20.1W;	Cent. Mid-Atlantic Ridge	5.3
	10	18	00	USCGS 44.5N 149.4E;	Kurile Is.	5.6
	12	34	52	USCGS 44.4N 149.4E;	Kurile Is.	4.8
	20	48	27	USCGS 4.6S 153.0E;	New Ireland region	5.0
	22	11	48	USCGS 36.2N 71.4E;	Afghanistan-USSR border reg.	4.7
	23	06	56	USCGS 21.8S 179.7W;	Fiji Is. region	5.4
X 23	13	36	23	26.6S 26.8E;	Witwatersrand	3.0
	23	21	58	USCGS 40.4S 16.7W;	S. Atlantic ridge	4.8
	23	22	43	USCGS 29.6S 179.3W;	Kermadec Is	4.5
	24	00	57	USCGS 4 6N 128.6E;	N. of Halmahera	5.3
	24	01	10	USCGS 29.6S 177.8W;	Kermadec Is. region	4.6
X 24	07	39	20	26.3S 28.1E;	Witwatersrand	3.5
	24	07	48	USCGS 6.3S 146.9E;	E. New Guinea region	5.1
	24	20	21(00)		N. Lake Tanganyika area	3.8
	25	04	30	USCGS 15.1S 173.4W;	Tonga Is.	5.0
X 25	14	36	23	26.4S 27.2E;	Witwatersrand	3.3
	25	17	03	USCGS 3.2N 125.5E;	Talau Is.	5.3
	26	04	50(50)		Witwatersrand	2.4
	26	06	47	USCGS 46.9N 150.6E;	Kurile Is.	4.7
	26	11	11	USCGS 33.6S 70.5W;	Chile-Argentina border reg.	5.8
X 26	12	42	44	26.5S 27.2E;	Witwatersrand	2.4
	26	16	11	USCGS 30.0S 71.5W;	Nr. Coast of Central Chile	(6.1)
	26	17	05	USCGS 7.1S 155.8E;	Solomon Is.	5.7
X 26	21	19	34	26.5S 27.3E;	Witwatersrand	2.9
	27	07	24	USCGS 34.4N 26.6E;	Crete	4.7
	27	09	32	USCGS 11.4S 166.3E;	Santa Cruz Is.	4.5
X 27	14	33	19	26.3S 27.3E;	Witwatersrand	2.9
X 27	14	34	36	26.2S 27.4E;	Witwatersrand	2.9
X 27	15	55	24	26 3S 27.6E;	Witwatersrand	2.4

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
X 28	02	54	11	13.9S 26.0E; Busango Swamp, Zambia	2.8
28	03	00	31	USCGS 52.2N 171.0W; Fox Is. Aleutians	5.1
28	04	56	56	USCGS 6.6S 153.4E; New Britain region	5.9
X 28	13	58	25	26.3S 28.0E; Witwatersrand	2.6
X 28	14	48	12	26.4S 27.3E; Witwatersrand	3.3
28	15	44	56	USCGS 59.5N 147.1W; Gulf of Alaska	5.6
X 28	15	48	07	26.3S 27.6E; Witwatersrand	2.7
X 28	18	12	39	26.4S 27.3E; Witwatersrand	3.6
X 28	19	07	37	12.6S 34.4E; Lake Malawi	3.1
X 29	04	04	32	26.4S 28.2E; Witwatersrand	3.3
29	05	18	49	USCGS 12.3N 91.2W; off Coast of Cent. America	5.2
X 29	09	37	12	11.2S 31.6E; W. Muchinga Mts., Zambia	3.0
29	17	29	40	USCGS 31.8S 57.3E; Atlantic-Indian Rise	5.0
X 29	19	16	38	6.9S 27.4E; Tanganika Province, Congo	3.4
X 30	00	24	13	9.8S 35.2E; Livingstone Mts., Tanzania	2.9
X 30	11	33	31	13.2S 41.2E; offshore N. Mocambique	3.7
30	21	32	53	USCGS 49.3S 116.5E; S. of Australia	-



LIST OF RECORDED PHASES: 01 to 03 SEP 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
01	BUL	e	03	49	30		0.5	Distant	
	KRR	e			31		0.2		
01	CLK	iSg	12	29	55		0.6	Offshore Central Mocambique	
	KRR	iL		30	55		1.0		
	BUL	eL		31	22		0.4		
01	BUL	i	15	06	51	C	0.3	Distant	
		i			57				
	KRR	i		07	06	C	0.3		
		i			12				
	BHA	e			11		0.2		
01	BUL	e	19	58	19		0.2	Distant?	
01	BUL	iSg	20	37	40		0.5	Witwatersrand	
	KRR	eSg		39	32		0.2		
01	BUL	ePn	21	04	31		0.4	Witwatersrand	
		eSn		05	40				
		eSg		06	13				
	KRR	ePn		05	19		0.4		
		eSg		08	01				
01	CLK	eP'	23	00	31		0.2	Distant	
		ePP		01	38				
	BHA	iP'		00	38	C	0.4		
	KRR	eP'		00	40		0.5		
		ePP		02	11				
	BUL	iP'		00	45	C	0.6		
		epP'		01	18				
		ePP		02	27				
02	BUL	ePn	00	25	30		1.2	W. Witwatersrand	
		eSn		26	40				
		eS*			52				
		eSg		27	12				
	KRR	ePn		26	17		0.6		
		eSn		28	02				
		iSg		29	01				
	BHA	ePn		26	46		0.2		
		eSn		28	56				
		eSg		30	10				
	CLK	eSg			29		0.2		
02	BUL	e	01	43	00		0.2	Distant	
	KRR	e			06		0.2		
	BHA	e			12		0.2		
		e			19				
02	BUL	eSg	23	42	08		0.3		
03	BUL	e	01	41	42		0.4	Distant	
		i		42	35				
	CLK	e		42	03		0.2		
	KRR	e			34		0.3		
03	BUL	iP	09	20	28	C	1.1	Distant	
	KRR	eP			47		0.3		
03	BUL	i	21	21	29	C	0.6	Distant	
	BHA	e		(40)			0.2		
	KRR	e		(50)			0.4		
	CLK	e		22	04		0.2		

LIST OF RECORDED PHASES: 03 to 05 SEP 1967 - 2

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
03	BUL	eP	21	25	44		1.2	Distant	
		eS		31	13				
	BHA	eP		25	55		0.8		
		eS		32	22				
	KRR	eP		26	00		1.6		
	CLK	eP			33		0.4		
03	KRR	e	21	37	00		0.2	Distant	
	CLK	e			05		0.2		
		e			14				
	BUL	e			26		0.4		
03	BUL	eSg	23	36	13		0.3	Witwatersrand	
03	BUL	eSg	23	55	05		0.3		
	KRR	e(Sg)			33		0.2		
04	BUL	e	03	28	23		0.2	Distant?	
	KRR	e			23		0.2		
04	BUL	iP'	04	10	26	R	2.4	Distant	
		ipP'			35				
	CLK	iP'			28	C	0.4		
		ePP		12	05				
	KRR	iP'		10	31	R	4.7		
		ipP'			40				
04	KRR	e	04	20	18		0.2	Distant	
	CLK	e			21		0.2		
	BUL	e			25		0.2		
04	BUL	e	13	18	56		0.2	Distant	
04	BHA	e	16	35	33		0.2	Distant	
		e			38				
	BUL	e			50		0.2		
		e			55				
04	BUL	e(L)	18	20	31		0.3		
04	BUL	iP	22	17	34	C	1.4	Distant	
	BHA	iP			47	C	0.6		
	CLK	iP		18	11	C	0.2		
05	BHA	eSn	04	32	13		1.2	Sandoa Area, Congo	
		eSg			54				
	BUL	eS		33	59		0.3		
		iL		35	24				
05	BUL	eSg	06	12	56		1.2	Witwatersrand	
		iL			59				
05	CLK	iP	19	43	28		1.2	Offshore N. Mocambique	
		eS		44	53				
	BHA	iP			35		0.4		
		eS		46	54				
		eL		48	24				
	BUL	eP		45	08		0.2		
05	CLK	iPn	20	23	29		0.8	Offshore N. Mocambique	
		eSn		24	55				
		eSg		25	38				
	BHA	eP		24	35		0.3		
		eS		26	54				
		eL		28	21				
	BUL	eP		25	10		0.2		

LIST OF RECORDED PHASES: 06 to 07 SEP 1967 - 3

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
06	CLK	eP	01	54	33		0.3	Distant	
		ipP			41				
	BHA	iP		55	00	C	1.1		
		ipP			10				
	BUL	eP			17		0.3		
		epP			26				
06	CLK	eP	02	49	18		0.2	Distant	
	BHA	iP			52	C	0.3		
	BUL	eP		50	04		0.2		
06	BUL	e(L)	03	38	18		0.2		
06	CLK	eP	05	08	31		0.4	Distant	
	BUL	eP			57		0.4		
06	BHA	ePn	07	08	04		2.5	Marungu Mts., Congo	
		iSn		09	11				
		eSg			47				
	CLK	ePn		08	36		0.6		
		iSn		10	10				
		iL		11	09				
	BUL	eP		09	17		0.4		
		eS		11	19				
		iL		12	43				
	06	CLK	iP	07	40	51	R		2.3
		i(PcP)			58				
		ipP		41	03				
BHA		iP			25	R	3.3		
		i(PcP)			32				
		epP			36				
BUL		iP			37	R	2.5		
		i(PcP)			44				
	ipP			48					
06	CLK	eiPn	09	05	30		4.8	Offshore N. Mocambique	
		iSn		06	58				
		eSg		07	41				
	BHA	iPn		06	38		2.8		
		iSn		08	57				
	BUL	eiPn		07	11	cR	1.6		
	eSg		11	32					
06	BUL	e	09	45	08		0.3	Distant	
06	BHA	e	15	12	13		0.2	Distant	
	BUL	i			25	C	0.3		
06	BHA	e	17	44	05		0.2	Distant	
	BUL	i			15	C	0.8		
		i			29				
06	BUL	ei	22	02	49	cR	1.5	Distant	
		i		03	05				
	BHA	ei		02	53	cR	0.6		
		e		03	09				
06	BUL	i	21	07	32	R	0.4	Distant	
	BHA	e			39		0.2		
06	BHA	iL	22	44	25		0.6	Ruwenzori Area	
	CLK	eL		45	(10)		0.5		
	BUL	eL		47	16		0.2		
07	BUL	ei	02	19	37	rC	0.3	Distant	
	CLK	i			46	C	0.4		

LIST OF RECORDED PHASES: 07 to 09 SEP 1967 - 4

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
07	CLK	iP	07	25	05	R	1.3	Celebes. Sea Region	
		iPP		28	39				
		iSKS		35	10				
		iS			34				
	KRR	iP		25	29	R	2.3		
		ePP		29	19				
	BUL	iP		25	35	R	4.0		
		ePP		29	31				
		iSKS		35	44				
	BHA	iP		25	35	R	2.0		
iSKS			35	44					
07	BUL	e	09	53	07		0.6	Distant	
		i			17				
	KRR	e			13				0.5
07	BUL	e			21				
		i	11	26	18	R	1.0	Distant	
	KRR	i		28	53	R			1.1
	e		26	22					
07	KRR	e		28	59				
		e	11	36	10		0.2	Distant	
07	BUL	e			10		0.2		
	KRR	e	14	04	34		0.3	Distant	
	BUL	i			38	R	0.4		
07	CLK	e			44		0.2		
		i	16	14	11	C	0.4	Distant	
	BUL	i	00	36	41		0.2	Distant	
08	KRR	eP					0.2		
	BUL	eP		37	03		0.2		
08	BUL	i	08	19	39	C	0.8	Distant	
		i			57				
	KRR	i			53	C			0.6
08	BUL	i		20	11				
		i	09	12	58	C	0.8	Distant	
08	KRR	i		13	09	C	0.4		
		eSg	10	47	34		0.2		
08	KRR	ePn	12	32	53		4.7	Kariba	
		iPg			56				
		iSn		33	04				
	BUL	iPg			40		0.7		
08	CLK	iSg		34	24				
		eSn	20	21	31		0.8		
	eSg		22	05					
	KRR	eSg			49		0.5		
	BUL	iSg		23	22		0.3		
09	KRR	eP	22	56	08		0.2	Distant	
		ePP		57	02				
	BUL	eP		56	18				0.2
09	KRR	ePP		57	23				
		e	03	34	41		0.2	Distant	
09	BUL	i			44	C	0.2		
	BUL	cP	04	02	26		0.1	Distant	
09	KRR	eip			50	R	0.2		

LIST OF RECORDED PHASES: 09 to 11 SEP 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	KRR	i	08	56	12	C	0.4	Distant	
	BUL	i			15	C	0.4		
09	BUL	iP	10	18	08	R	20.	Distant	
		iPP		20	09			S. Sandwich Is. region	
		iScS		27	35				
		iSKS		31	19				
		iLAKP		36	29				
		iP'P'		47	04				
		iP'P'			14				
	KRR	iP		18	20	R	23.2		
		iPP		20	26				
		eScS		27	56				
		iPKKP		36	25				
		iP'P'		46	54				
	CLK	iP		18	45	R	8.1		
		iPP		19	53				
		iScS		28	27				
		ePKKP		36	12				
		eP'P'		46	43				
09	BUL	iPn	12	39	08		2.4	O.F.S. Goldfields	
		eSn		40	33				
		iSg		41	21				
	KRR	eiPn		39	52		1.3		
		eSn		41	55				
		iSg		43	03				
		iL			10				
	CLK	eSg		44	31		0.7		
		eL			41				
09	CLK	eP	22	40	(20)		0.6	N. Uganda	
		eL		45	58				
	KRR	eP		40	40		0.5		
		iL		46	39				
	BUL	eP		41	14		0.3		
		eL		48	15				
10	BUL	e	00	02	31		0.2	Distant	
10	BUL	e	13	08	56		0.2	Distant	
10	BUL	e	16	10	27		0.2	Distant	
		e			42				
	KRR	e			29		0.2		
		e			45				
10	BHA	ePn	21	22	15		0.8	S. Highlands, Tanzania	
		eSn		23	50				
		eSg		24	38				
		iL			43				
	CLK	iSg			06		0.8		
	KRR	eL		25	32		0.3		
	BUL	eL		27	14		0.2		
11	BUL	eSg	02	13	18		0.3	Witwatersrand	
	KRR	eL		15	03		0.2		
11	KRR	e	03	10	00		0.2	Distant	
	BUL	e			03		0.2		
11	BUL	ei	04	56	16	cR	0.3	Distant	
		e			28				
	KRR	e			19		0.2		
		e			31				

LIST OF RECORDED PHASES: 11 to 13 SEP 1967 - 6

Date	Stn	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	C	mm		
11	CLK	eP	06	21	13		0.3	Distant	
	KRR	eiP			43	cR	0.4		
	BUL	eP	22	04			0.3		
11	KRR	i	07	10	26	C	0.3	Distant	
	BUL	i			45	C	0.4		
11	BUL	e	08	06	17		0.2	Distant	
11	BUL	e	10	33	33		0.2	Distant	
11	BHA	i	13	06	20	C	0.4	Distant	
		i			26				
	KRR	e			28		0.3		
	BUL	e			38		0.3		
11	BUL	eSn	14	40	39		0.5	Witwatersrand	
		eSg			41 10				
11	BUL	eSg	16	00	36		0.2		
11	BUL	eSg	18	12	19		0.3	Witwatersrand	
	KRR	eSg			14 00		0.2		
11	BUL	eSg	20	00	34		0.3		
11	BHA	eiP	20	05	16	cR	0.2	Distant	
	BUL	eP			06 03		0.1		
12	BUL	eP	00	30	31		0.7	Distant	
		ipP			34				
	BHA	eP			34		0.4		
	KRR	eP			45		0.7		
	CLK	eP			31 28		0.4		
		ipP			31				
12	BUL	iSg	01	27	50		0.4	Witwatersrand	
	KRR	eSg			29 31		0.2		
12	KRR	e	03	02	27		0.2	Distant	
	BHA	e			28		0.2		
		e			42				
	BUL	e			34		0.2		
		e			49				
12	BHA	eP	11	19	09		0.2	Distant	
	BUL	iP			20	R	1.0		
	KRR	iP			22	R	1.2		
	CLK	eP			58		0.3		
12	BUL	e	22	08	32		0.3	Distant	
		i			35				
	KRR	e			33		0.2		
	BHA	e			37		0.3		
13	KRR	e	00	15	44		0.2	Distant	
	BHA	e			46		0.1		
	BUL	e			57		0.2		
13	KRR	e	01	38	26		0.2	Distant	
	BUL	e			37		0.1		
	BHA	e			39		0.1		

LIST OF RECORDED PHASES: 13 to 14 SEP 1967 - 7

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA mm	Epicentral region; Remarks
13	CLK	eP'	19	00	25		0.3	Distant
		ePP		02	34			
	BHA	eP'		00	28		0.4	
		iSKP		03	52			
	KRR	iP'		00	30	C	0.4	
		ePP		02	52			
		iSKP		03	55			
	BUL	eP'		00	34		0.3	
		ePP		03	22			
eSKP			04	07				
13	BUL	iP	20	07	03	C	1.8	S. Sandwich Is. Region
		ipP			34			
		iS		14	33			
		eSKS		16	49			
		eP'P'		37	20			
	KRR	iP		07	35	C	2.1	
		ipP		08	05			
		iS		15	24			
	BHA	iP'P'		37	23			
		iP		07	36	C	1.1	
		ipP		08	07			
		iS		15	35			
	CLK	eSKS		17	24			
		iP'P'		37	12			
		iP		07	53	C	0.8	
	BUL	ipP		08	25			
		e	20	49	02		0.3	Distant
	KRR	e			14			
e				22		0.2		
14	BUL	e	01	00	31		0.1	Distant
	BHA	e			42		0.2	
	KRR	e			46		0.2	
14	BUL	iPn	06	59	25		0.5	Witwatersrand
		eSn	07	00	38			
		iSg		01	15			
	KRR	ePn		00	22		0.4	
		eSg		03	13			
14	BUL	ePn	08	37	11		0.5	Witwatersrand
		eSn		38	19			
		iSg			49			
	KRR	eSg		40	40		0.3	
14	CLK	ePn	12	28	57		2.7	Offshore N Mocambique
		eSn		30	05			
		eSg			38			
	KRR	eL		33	37		0.3	
	BHA	eSg			40		0.3	
		iL			45			
	BUL	eSg		34	28		0.3	
	14	CLK	eP	14	58	27		0.2
BHA		eP		59	00		0.1	
KRR		eP			02		0.4	
BUL		eP			16		0.3	
14	BUL	eSg	15	13	18		0.2	
	KRR	iSg			21		0.2	

LIST OF RECORDED PHASES: 14 to 15 SEP 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
14	CLK	iP'	15	54	01	C	0.3	Distant	
	BUL	iP'			05	C	0.5		
	KRR	iP'			06	C	0.7		
	BHA	eSKP		57	21				
		iP'			13	C	0.3		
		iSKP	57	25					
14	BUL	eP	20	45	36		0.3	Distant	
		ipP			58				
	BHA	eP			49		0.1		
	KRR	epP	46	04			0.1		
15	CLK	eiP	00	10	02	rC	0.8	Distant	
	BUL	eiP			27	rC	0.4		
	KRR	eP			41		0.3		
		i	12	15					
	BHA	eiP	10	48		rC	0.4		
15	CLK	eP	00	22	21		0.2	Distant	
	KRR	eP			46		0.2		
	BUL	iP			50	R	0.2		
	BHA	iP			53	R	0.2		
15	CLK	eP'	00	47	07		0.2	Distant	
		ePP			52				
	KRR	eP'			17		0.2		
		ePP	48	22					
	BHA	eP'	47	17			0.2		
		ePP	48	22					
	BUL	eP'	47	22			0.3		
	iPP	48	42						
15	BUL	i	05	41	29	C	0.2	Distant	
15	BUL	i	06	41	30	R	0.3	Distant	
15	CLK	iP	10	43	56	C	2.1	Tibet	
		ipP		44	01				
		eS		53	08				
	BHA	iP		44	21	C	3.3		
		ipP			26				
		iS		53	52				
	KRR	iP		44	24	C	2.8		
		ipP			29				
	BUL	iP		44	39	C	1.5		
		ipP			44				
	eS		54	27					
15	BUL	eSg	14	04	02		0.2		
15	CLK	ePn	17	04	26		2.2	Ngorongoro Escarpment, Tanzania	
		eSn		06	34				
		iSg		07	52				
		iL			59				
	BHA	ePn		04	40		3.3		
		eSn		06	59				
		iSg		08	18				
	KRR	eP		04	59		0.7		
		eL		09	18				
	BUL	eL		10	58		0.3		



LIST OF RECORDED PHASES: 15 to 16 SEP 1967 - 9

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
15	KRR	i	17	53	30	C	0.3	Distant
	BHA	i			35	C	0.3	
		i			54			
	BUL	e			35		0.3	
15	BUL	eP	18	04	32		0.4	Distant
		ipP			05 02			
	KRR	eP			04 46		0.2	
		epP			05 16			
	BHA	iP			04 47	C	0.2	
		ipP			05 17			
15	KRR	e	20	56	28		0.2	Distant
	BUL	e			31		0.2	
15	BUL	ePn	22	19	55		1.6	Witwatersrand
		iSg			21 31			
	KRR	ePn			20 43		0.7	
		eSg			23 17			
	BHA	eSg			24 32		0.2	
16	KRR	e	03	54	31		0.2	Distant
	BUL	e			34		0.2	
	BHA	e			37		0.2	
16	BHA	iP	04	15	56	C	0.5	Distant
	KRR	iP			16 05	C	0.9	
	BUL	iP			22	C	0.6	
16	BHA	eP	05	45	04		1.3	Uganda
		iL			49 44			
	KRR	eP			45(30)		1.0	
		eL			50 34			
	BUL	eP			46 12		0.5	
		eL			52 29			
16	CLK	iP	07	55	23	R		Mlanje Escarpment, Malawi Felt MM V at Mimoso; MM III at Bvumbwe, Chichiri and Chileka
	KRR	eiPn			56 43	cR	6.8	
		iSn			57 43			
		iSg			58 10			
	BHA	iPn			56 59		10.0	
		iSn			58 12			
		iSg			43			
	BUL	ePn			57 11		6.7	
	iSn			58 33				
		iSg			59 12			
16	CLK	iP'	08	51	12	R	0.8	Distant
		eSKP			54 38			
	BHA	eP'			51 17		0.4	
		eSKP			54 45			
	KRR	eP'			51 20		1.2	
	eSKP			54 50				
BUL	eP'			51 23		0.5		
16	BUL	e	10	25	14		0.2	Distant
		e			36			
	KRR	e			16		0.2	
		e			38			
16	BUL	eiP	10	28	00	rC	0.8	Distant
		ipP			06			
	KRR	eiP			02	rC	0.5	
	CLK	eP			39		0.2	

LIST OF RECORDED PHASES: 16 to 18 SEP 1967 - 10

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
16	BUL	e	11	42	14		0.2	Distant	
	KRR	e			21		0.2		
16	BUL	ePn	12	51	28		0.5	Witwatersrand	
		eSg		53	06				
	KRR	eSg		54	48		0.2		
16	BUL	e	14	19	56		0.2	Distant	
	BHA	e		20	07		0.1		
	KRR	e			08		0.2		
16	CLK	iP'	15	30	06	R	0.2	Distant	
	BUL	iP'			12	R	0.6		
	KRR	iP'			13	R	0.6		
	BHA	iP'			19	R	0.3		
		iSKP		33	41				
16	BUL	ePn	18	35	29		0.8	Witwatersrand	
		eSn		36	36				
		eSg		37	07				
	KRR	ePn		36	15		0.4		
		eSg		38	49				
	BHA	eSg		40	05		0.2		
	CLK	eSg			14		0.2		
16	BUL	ei	19	31	10	cR	0.3	Distant	
		i			27				
	KRR	e			11		0.2		
		e			28				
	BHA	e			15		0.2		
		e			32				
16	BUL	eSg	20	17	15		0.3	Witwatersrand	
	KRR	eSg		18	59		0.2		
16	BUL	eSg	22	54	22		0.2	Witwatersrand	
	KRR	eSg		56	07		0.1		
16	BUL	eP	23	21	56		0.2	Distant	
	KRR	eP		22	20		0.2		
	BHA	eP			31		0.2		
17	BHA	eiP'	08	15	19	cR	0.3	Distant	
	KRR	eiP <sup>A</sup>			21	cR	0.4		
	BUL	eP'			21		0.3		
	CLK	eP'			33		0.3		
17	BUL	ePn	08	29	08		0.3	Witwatersrand	
		eSg		30	51				
	KRR	eSg		32	37		0.2		
17	KRR	e	17	08	36		0.3	Distant	
	BUL	e			38		0.2		
	CLK	e			47		0.2		
17	BUL	eSg	19	45	03		0.4	Witwatersrand	
	KRR	eSg		46	45		0.2		
17	KRR	e	21	41	36		0.2	Distant	
	BUL	e			49		0.2		
	BHA	e			(50)		0.1		
18	BUL	eP	00	35	39		0.2	Distant	
	KRR	eP			54		0.2		
	BHA	eP		36	09		0.1		

LIST OF RECORDED PHASES: 18 to 19 SEP 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
<u>Corrigenda:</u>									
06	BUL	ei	20	02	49	cR	1.5	Distant	
18	KRR	e	07	15	04		0.2	Distant	
	BUL	e			06		0.2		
18	KRR	e	08	37	14		0.2	Distant	
		e			36				
	BUL	e			29		0.1		
		e			57				
18	BUL	ePn	15	29	04		1.2	Witwatersrand	
		iSn			30 12				
		iSg			43				
	KRR	ePn			29 47		0.4		
		eSn			31 31				
		eSg			32 29				
	BHA	eSg			33 41		0.2		
18	KRR	ei	15	51	42	cR	0.7	Distant	
		i			54				
	BUL	ei			43	cR	1.6		
	BHA	ei			46	cR	0.6		
		i			57				
18	BUL	eP	19	32	02		0.2	Distant	
	KRR	eP			06		0.2		
	BHA	eP			31		0.2		
19	BUL	i	01	04	23	R	0.3	Distant	
	KRR	e			26		0.3		
19	CLK	eP	11	14	15		0.3	Distant	
	BHA	eP			46		0.6		
	KRR	eP			50		0.3		
		c			16 13				
	BUL	eP			14 56		0.8		
19	CLK	ePn	11	22	42		1.5	Zambesi - Shire confluence, Mocambique	
		iSg			23 11				
	BUL	eSn			24 51		0.3		
		eSg			25 34				
	KRR	eSg			24 58		0.6		
19	BUL	iP	12	54	52	R	4.7	Distant	
		ipP			55 02				
	KRR	iP			15	R	6.5		
		ipP			25				
	BHA	iP			26	R	5.1		
		ipP			37				
	CLK	iP			36	R	1.3		
		ipP			47				
19	BUL	eSg	13	51	10		0.2	Witwatersrand?	
	KRR	eSg			52 56		0.1		
19	BUL	eSg	14	39	39		0.2		
19	BHA	eP	19	13	05		0.7	Distant	
		ipP			18				
	BUL	eP			07		0.6		
		ipP			21				
	KRR	eP			12		0.6		

LIST OF RECORDED PHASES: 19 to 21 SEP 1967 - 12

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
19	CLK	iP	19	34	08	C	2.6	Distant	
		e			35				
	BUL	iP			16	C	0.6		
		epP			33				
	KRR	iP			32	C	2.0		
	BHA	iP			56	C	2.6		
		ipP		35	15				
20	BUL	eSg	00	23	48		0.1	Witwatersrand	
20	BUL	eSg	00	45	49		0.2	Witwatersrand	
	KRR	eSg		47	30		0.1		
20	KRR	e	00	51	17		0.1	Distant?	
	BUL	ei			23	cR	0.3		
20	CLK	eP	09	53	(00)		0.3	Distant	
		ePP		57	08				
	BUL	eP		53	00		0.4		
		ePP		57	03				
		ePKKP	10	09	24				
	KRR	eP		53	17		0.5		
		ePP		57	25				
		ePKKP	10	09	16				
	BHA	eP	09	53	21		0.2		
		ePP		57	43				
20	CLK	iP'	10	55	59	C	0.8	Distant	
	BUL	iP'		56	05	C	2.4		
	KRR	iP'			08	C	2.5		
	BHA	eP'			13		0.6		
20	BUL	eSg	13	24	56		0.2	Witwatersrand	
20	BUL	eSg	16	44	28		0.2	Witwatersrand	
	<del>KRR</del>	eSg		46	12		0.1		
20	BUL	e	18	57	24		0.2	Distant	
	KRR	e			31		0.2		
	BHA	e			36		0.2		
20	BUL	eP	19	54	19		0.7	Distant	
	KRR	eP			42		0.5		
	BHA	eP			49		0.2		
20	BUL	eP	21	49	58		0.2	Distant	
		ipP		50	09				
	KRR	eP			22		0.3		
		epP			32				
	BHA	iP			34	C	0.3		
		ipP			43				
20	BUL	iP	21	52	02	C	0.3	Distant	
		ipP			11				
	KRR	iP			26	C	0.3		
		ipP			35				
	BHA	eP			36		0.3		
		epP			41				
21	KRR	e	03	50	08		0.1	Distant	
	BUL	e			08		0.1		
21	CLK	iP	08	18	18	R	0.5	Distant	
	KRR	iP		19	03	R	0.5		
	BUL	eP			15		0.3		

LIST OF RECORDED PHASES: 21 to 22 SEP 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
21	BHA	iP	13	20	52	C	0.3		
	BUL	eP		21	07		0.2		
21	BUL	eSg	15	48	36		0.3	Witwatersrand	
	KRR	eSg		50	23		0.2		
21	KRR	iPn	16	20	41		4.6	Kariba	
		iPg			43				
		iSg			55				
	BHA	ePn			57		1.3		
		iPg		21	00				
		iSg			28				
	BUL	ePn			15		0.6		
		ePg			24				
		eSg		22	09				
21	BUL	eSn	16	40	16		0.4	Witwatersrand	
		iSg			48				
	KRR	eSg		42	34		0.2		
21	BUL	eP	17	48	46		0.2	Distant	
	KRR	iP		49	10	C	0.3		
	BHA	iP			21	C	0.3		
21	BUL	eP	17	55	08		0.2	Distant	
	KRR	eP			33		0.2		
	BHA	eP			44		0.2		
21	BUL	eP	18	05	04		0.2	Distant	
	KRR	eP			29		0.2		
	BHA	eP			42		0.2		
21	BUL	iP	20	49	49	R	0.3	Distant	
		epP			59				
	KRR	eP		50	14		0.2		
	BHA	eP			24		0.2		
22	BHA	iPn	01	24	15	C	11.2	Marungu Mts., Congo	
		iSn		25	21				
		iSg			56				
	KRR	ePn		24	46		4.1		
		iSn		26	15				
		iSg		27	05				
	CLK	ePn		24	54		4.0		
		eSn		26	26				
		iSg		27	18				
	BUL	ePn		25	29		2.2		
		eSn		27	30				
		iL		28	51				
22	BUL	eSg	01	44	36		0.2	Witwatersrand	
22	BUL	eSg	02	59	15		0.4	Witwatersrand	
	KRR	eSg	03	01	02		0.2		
22	CLK	eiP	05	15	45	cR	0.4	Distant	
	BHA	iP			56	C	0.4		
	KRR	eiP		16	04	cR	0.7		
	BUL	eiP			22	cR	0.5		

LIST OF RECORDED PHASES: 22 to 24 SEP 1967 - 14.

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
22	BHA	eP	08	16	58		0.5	Distant	
	BUL	eP		17	08		1.3		
	KRR	eP			09		0.6		
	CLK	iP			45	C	1.4		
22	CLK	eP'	10	36	43		0.2	Distant	
		ePP		37	58				
	BHA	eP'		36	50		0.4		
		ePP		38	39				
	KRR	eP'		36	51		0.7		
		ipP'		37	09				
		ePP		38	37				
	BUL	eP'		36	57		0.8		
	ipP'		37	15					
		ePP		38	51				
22	CLK	e	12	53	40		0.2	Distant	
	KRR	e			58		0.2		
	BUL	e		54	04		0.2		
22	BUL	i	21	07	12	R	0.5	Distant	
	KRR	e			13		0.3		
	BHA	e			15		0.2		
22	CLK	eiP	22	21	58	cR	0.3	Distant	
	BHA	eP		22	15		0.1		
	KRR	eP			23		0.3		
	BUL	eiP			43	cR	0.4		
23	CLK	e	03	43	50		0.2	Distant	
	BUL	e			52		0.1		
	KRR	e		44	00		0.2		
23	CLK	eP'	07	14	46		0.2	Distant	
	BUL	iP'			46	C	0.5		
	KRR	eP'			51		0.8		
	BHA	eP'			55		0.3		
23	CLK	iP'	07	17	15	C	0.8	Distant	
	BUL	iP'			16	C	7.7		
	KRR	iP'			23	C	5.5		
	BHA	iP'			32	C	3.8		
23	CLK	eP'	08	00	19		0.2	Distant	
	BUL	iP'			21	R	1.8		
	KRR	eP'			28		1.4		
23	BUL	ePn	13	23	02		0.4	Witwatersrend	
		eSg		24	26				
	KRR	eSg		26	07		0.2		
23	BUL	eP	18	38	49		0.2	Distant	
	KRR	eP		39	13		0.3		
	BHA	iP			17	C	0.2		
23	BUL	eP	22	06	08		0.4	Distant	
	KRR	eP			30		0.6		
	BHA	eP			37		0.3		
23	BUL	ei	23	01	34	rC	0.4	Distant	
	KRR	e			38		0.2		
	BHA	e			44		0.2		
24	KRR	e	01	10	53		0.2	Distant	
	BHA	e			58		0.2		
	BUL	e			58		0.2		

LIST OF RECORDED PHASES: 24 to 26 SEP 1967 - 15

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
24	BUL	e	01	29	05		0.2	Distant	
	KRR	e			09		0.2		
	BHA	i			15	C	0.2		
24	BUL	iPn	07	40	51		1.7	Witwatersrand	
		iSn		41	56				
		iSg		42	29				
	KRR	ePn		41	33		0.6		
		eSg		43	03				
	BHA	ePn		42	08		0.4		
24	KRR	e	08	07	09		0.4	Distant	
	BUL	i			10	C	0.6		
		i			23				
	BHA	e			13		0.2		
24	BHA	ePn	20	23	22		1.0		
		eSn		25	43				
		eSg		26	26				
	KRR	ePn		24	03		0.5		
		eSg		27	49				
	BUL	eP		24	43		0.3		
		eI		29	26				
24	BUL	eP	22	38	33		0.3	Distant	
	KRR	eP			45		0.2		
	BHA	eP		39	08		0.1		
25	KRR	e	04	57	46		0.2	Distant	
	BUL	e			49		0.2		
	BHA	ei			55	cR	0.3		
		i			58	16			
25	BUL	ePn	14	37	56		1.2	Witwatersrand	
		eSn		39	05				
		eS*			16				
		iSg			37				
	KRR	eSg		41	24		0.4		
25	KRR	e	17	17	11		0.2	Distant	
	BUL	e			17		0.2		
26	BUL	eSg	04	54	04		0.2		
26	BUL	e	05	22	20		0.2	Distant	
	KRR	e			21		0.2		
26	KRR	e	07	05	52		0.3	Distant	
	BUL	e			58		0.2		
26	BUL	eSg	11	15	00		0.4	Witwatersrand	
	KRR	eSg		16	45		0.2		
26	BUL	iP	11	23	58	C	3.3	Distant	
		ipP		24	23				
		iPP		27	19				
	KRR	eP		24	12		4.4		
		ipP			36				
		ePP		27	40				
	BHA	iP		24	15	C	2.3		
		i			28				
	ipP			38					
26	BUL	eSg	12	45	59		0.2		

SEP  
LIST OF RECORDED PHASES: 26 to 28 OCT 1967 - 16

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA	Epicentral region; Remarks	
			h	m	s		mm		
26	BUL	ipP'	16	24	11	C	3.6	Distant	
		ipP'			28				
		eSKP		27	39				
			ipWKP		34	57			
	KRP	ipP'		24	23	C	5.1		
		ipP'			40				
		eSKP		28	00				
	BHA	ipP'		24	26	C	2.6		
		ipP'			43				
eSKP			28	02					
CLK	eP'		24	31		0.4			
	eSKP		28	10					
26	CLK	eP	17	24	00		0.3	Distant	
	KRR	ip			40	C	1.2		
	BUL	ip			41	C	6.5		
	BHA	eiP			45	cR	1.8		
26	BUL	ePn	21	21	07		0.5	Witwatersrand	
		eSn		22	17				
		iSg			50				
	KRR	eSg		24	37		0.2		
27	KRR	e	05	53	59		0.2	Distant	
	BUL	ei		54	09	rC	0.2		
	BHA	ei			09	rC	6.2		
27	KRR	e	07	33	33		0.2	Distant	
	BUL	i			57	C	0.2		
27	BUL	ipP'	09	51	35	R	0.3	Distant	
		KRR			38		0.2		
		CLK			41		0.2		
		BHA			42		0.2		
27	BUL	ePn	14	34	50		0.6	Witwatersrand	
		eSg		36	31				
		KRR	eSg		38	19			0.2
27	BUL	eSg	14	37	46		0.6	Witwatersrand	
		KRR	eSg		39	25		0.2	
27	BUL	eSg	15	58	32		0.2	Witwatersrand	
27	BHA	eP	17	19	26		0.6	Distant	
		ipP			36				
	KRR	eiP			35	cR	1.8		
	BUL	ip			38	C	4.0		
	CLK	ip			54	C	3.0		
28	BHA	ePn	02	54	51		4.0	Busango Swamp, Zambia.	
		iSg		55	23				
		KRR	ePn		55	19			1.3
			eSn		56	06			
			eSg			28			
	BUL	ePn		55	50		0.4		
		eSn		57	03				
		eSg			40				
CLK	eSg		58	50		0.2			
28	CLK	eP	03	05	18		0.2	Distant	
	BHA	eP			19		0.3		
	KRR	eP			26		0.4		
		eiP			32				
	BUL	eP			44		0.4		
		ipP			56				



LIST O. RECORDED PHASES: 28 to 29 SEP 1967 - 17

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epical region:	Remarks
28	CLK	i	03	12	44	C	0.3		Distant
	KRR	i		13	00	C	1.1		
	BUL	i			04	C	1.3		
	BHA	i			05	C	0.8		
28	BHA	eP'	03	19	50		0.2		Distant
		eSKP		23	39				
	KRR	eP'		19	51		0.2		
		eSKP		23	39				
	CLK	eP'		20	00		0.2		
	BUL	eP'			01		0.8		
28	BUL	eiP'	05	15	44	rC	2.5		Distant
	CLK	eP'			44		0.3		
	KRR	iP'			45	C	1.2		
	BHA	*eiP'			48	rC	1.5		
28	BUL	eSg	11	14	19		0.2		Distant
28	BUL	eSg	13	31	06		0.4		Witwatersrand
28	BUL	eSg	14	01	33		0.3		Witwatersrand
28	BUL	iPn	14	49	44		1.1		Witwatersrand
		eSn		50	53				
		iSg		51	25				
	KRR	ePn		50	31		0.6		
		eSn		52	13				
		eSg		53	14				
	BHA	ePn		51	00		0.2		
28	BHA	e	15	01	47		0.2		Distant?
	BUL	e		02	19		0.3		
	KRR	e			36		0.1		
28	BUL	eSg	15	51	14		0.3		Witwatersrand
	KRR	eSg		53	00		0.2		
28	BHA	eP	16	04	15		0.2		Distant
	KRR	eP			42		0.2		
	BUL	eP		05	29		0.2		
28	BUL	iPn	18	14	12		1.8		Witwatersrand
		eSn		15	20				
		eS*			36				
		eSg			53				
	KRR	ePn		14	58		1.1		
		eSn		16	41				
		iSg		17	42				
	BHA	ePn		15	28		0.3		
		eSn		17	35				
		eSg		18	51				
28	CLK	ePn	19	08	23		2.5		Lake Malawi
		iPg			30				
		iSg		09	08				
	BHA	iSn		10	09		1.3		
		eSg			43				
	KRR	eSg			41		0.7		
	BUL	ePn		09	50		0.4		
		eSn		11	25				
	eSg		12	19					
29	BUL	ePn	04	06	02		1.4		Witwatersrand
		iSg		07	40				
	KRR	eSg		09	18		0.3		

LIST OF RECORDED PHASES: 29 to 30 SEP 1967 - 18

Date	Sta	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	C	mm		
29	BHA	e	05	37	42		0.3	Distant	
	BUL	e			42		0.3		
	KRR	ei			44	cR	0.6		
29	BHA	ePn	09	38	20		2.3	W. Muchinga Mts., Zambia	
		eSn		39	06				
		iSg			32				
	CLK	eSn			30		1.4		
		iSg			55				
	KRR	eSn			43		0.7		
		eSg	40	10					
BUL	eSg	42	02						
29	CLK	iP	17	35	13	C	1.7	Distant	
		i			26				
	BUL	eP			30		0.5		
		ipP			37				
		i			42				
	KRR	e			39		0.2		
BHA	ipP			59	C	0.4			
			36	06					
29	BHA	ePn	19	18	25		1.2	Tanganika Province, Congo	
		iSn		19	44				
		iL		20	29				
	KRR	ePn		19	00		0.4		
		eSn		20	46				
		eL		21	49				
	CLK	ePn		19	18		0.3		
		eSn		21	16				
		eSg		22	23				
	BUL	eP		19	42		0.2		
	eS		21	58					
	eL		23	27					
30	CLK	ePn	00	25	41		0.6	Livingstone Mts., Tanzania	
		eSn		26	41				
		eSg		27	10				
	BHA	eP		26	15		0.3		
		eL		28	34				
	KRR	eP		26	17		0.2		
		eSg		28	29				
BUL	eL		30	46		0.1			
30	BHA	eP	07	58	36		0.2	Distant	
	KRR	eP			57		0.2		
	BUL	eP		59	22		0.2		
30	CLK	ePn	11	35	04		3.5	Offshore N. Mocambique	
		eSn		36	11				
		eL			51				
	KRR	eP			18		0.4		
		eL		39	42				
	BHA	eS		38	36		0.4		
		eL		40	00				
	BUL	eP		36	43		0.3		
	eL		40	45					
30	BUL	eSg	14	11	16		0.2		
30	CLK	eP	21	44	20		0.2	Distant	
	BUL	iP			25	C	0.3		
	KRR	eP			36		0.2		
	BHA	iP		45	04	C	0.2		
30	BUL	eSg	22	33	22		0.2		

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RHODESIA METEOROLOGICAL SERVICESSEISMOLOGICAL BULLETIN

The following stations contribute records for analysis and publication in this Bulletin:

- KABWE (BHA): 14° 26.8' S; 28° 28.1' E; Alt. 1206 m.  
(Broken Hill)  
Litho. foundation: Dolomite and Shales of the Middle Katanga System.  
Authority: Zambia Meteorological Service.  
Instrument: Three component Willmore one-second seismograph.  
Nominal magnification 20,000.
- CHILEKA (CLK): 15° 40.8' S; 34° 58.6' E; Alt. 781 m.  
Litho. foundation: Charnockitic granulites of the Basement Complex.  
Authority: Malawi Meteorological Service.  
Instrument: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.
- KAROI (KRR): 16° 51.1' S; 29° 37.1' E; Alt. 1380 m.  
Litho. foundation: Granitic gneisses of the Zambesi type.  
Authority: Rhodesia Meteorological Services.  
Instrument: Vertical Willmore one-second seismograph.  
Nominal magnification 20,000.
- BULAWAYO (BUL): 20° 08.6' S; 28° 36.8' E; Alt. 1341 m.  
Litho. foundation: Hornblend schists of the Bulawayan System.  
Authority: Rhodesia Meteorological Services.  
Instruments: Three-component Willmore one-second seismograph.  
Nominal magnification 20,000.
- WWSSS Station: SP magnification 100,000  
IP magnification 1,500

Analysis Centre: Goetz Observatory, Meteorological Service,  
P.O. Box 562, Bulawayo, Rhodesia.

OCT 1967

Date	G	M	T	Epicentre:	Remarks	Mag
	h	m	s			CGS
01	00	04	(30)	Witwatersrand		2.3
01	00	15	(10)	Witwatersrand		2.4
02	00	12	53	USCGS 21.0S 178.8W;	Fiji Is. region	5.2
02	14	54	08	USCGS 6.7S 153.4E;	New Britain region	5.3
02	17	24	13	USCGS 6.6S 105.2E;	Sunda Strait	5.5
02	18	25	03	16.4S 28.5E;	Kariba	2.5
03	04	54	47	USCGS 1.0S 149.5E;	New Ireland region	4.6
03	15	53	32	W. Witwatersrand		2.6
03	17	08	13	20.5S 35.5E;	offshore Central Mocambique	2.9
03	18	16	03	USCGS 10.9N 85.9W;	Costa Rica	5.8
04	01	11	(00)	Witwatersrand		2.5
04	06	02	16	USCGS 10.7N 86.0W;	off Coast of Costa Rica	5.3
04	17	21	21	USCGS 5.7S 153.9E;	New Ireland region	
04	21	25	08	USCGS 5.8S 153.8E;	New Ireland region	
05	04	07	42	USCGS 5.8S 154.0E;	Solomon Is.	4.6
05	09	41	31	USCGS 14.5S 75.4W;	Near Coast of Peru	5.6
05	12	00	51	USCGS 37.8N 20.7E;	Ionian Sea	
05	14	39	57	26.5S 27.2E;	Witwatersrand	3.1
05	15	55	03	USCGS 45.4N 150.7E;	Kurile Is	5.3
05	17	39	55	USCGS 8.5S 107.1E;	Java	4.6
05	18	27	38	USCGS 22.0S 177.0W;	S of Fiji Is.	4.9
05	19	48	30	USCGS 6.2S 154.9E;	Solomon Is.	4.8
06	01	37	50	26.4S 27.9E;	Witwatersrand	3.9
06	03	59	51	USCGS 10.3S 66.4E;	Mid-Indian Rise	5.1
06	13	48	30	Witwatersrand		2.6
06	15	21	45	26.5S 27.7E;	Witwatersrand	3.7
06	16	17	46	26.5S 28.0E;	Witwatersrand	2.4
07	01	14	04	USCGS 29.6S 71.1W;	Near Coast of Cent. Chile	5.3
07	08	28	01	USCGS 49.2N 156.3E;	Kurile Is.	5.3
07	10	38	02	Witwatersrand		3.1
07	10	33	08	USCGS 17.3S 178.9W;	Fiji Is. region	4.9
07	12	54	28	26.3S 27.9E;	Witwatersrand	3.2
07	12	26	14	Witwatersrand		2.9
08	14	01	35	26.5S 27.4E;	Witwatersrand	2.7
08	16	59	34	USCGS 9.5S 148.8E;	E. New Guinea region	5.5
08	18	08	18	USCGS 5.6S 154.0E;	Solomon Is.	5.1
09	04	55	10	USCGS 60.9S 36.1W;	Scotia Sea	5.2
09	05	11	09	Witwatersrand		3.0
09	06	21	52	13.0S 22.0E;	N. Barotseland Zambia	3.3
09	10	34	49	26.7S 26.1E;	W. Witwatersrand	2.9

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
09	13	27	57	USCGS 5.7S 154.0E; Solomon Is.	4.9
09	14	10	57	USCGS 54.0N 155.1E; Kamchatka	5.2
09	15	59	56	28.1S 26.3E; O.F.S. Goldfields	3.1
09	17	16	14	11.7S 43.3E; Comoro Is.	4.3
09	17	21	49	USCGS 21.1S 179.3W; Fiji Is. region	6.3
09	18	33	08	USCGS 21.3S 179.3W; Fiji Is. region	5.1
09	19	33	36	26.4S 27.4E; Witwatersrand	3.1
09	23	21	51	13.9S 35.2E; S. Lake Malawi	3.9
10	05	15	13	USCGS 5.6S 153.9E; New Ireland region	4.7
10	06	26	46	USCGS 18.1S 171.8E; New Hebrides Is. region	5.2
10	10	29	41	26.2S 27.8E; Witwatersrand	2.6
10	23	00	30	14.8S 26.6E; Kafue Hook Area, Zambia	2.5
11	04	01	14	12.0S 43.3E; Comoro Is.	3.6
11	07	48	45	USCGS 36.1N 27.2E; Dodecanese Is.	4.7
11	13	14	21	USCGS 5.6S 153.8E; New Ireland region	4.5
11	15	16	38	17.1S 27.0E; Kariba Area	2.2
11	20	28	10	USCGS 10.3S 71.2W; Peru-Brazil Border region	
12	01	22	12	USCGS 5.6S 153.3E; New Ireland region	
12	06	35	07	USCGS 21.1S 179.2W; Fiji Is. region	5.6
12	12	53	47	USCGS 52.2N 152.5E; N.W. of Kurile Is.	5.5
12	18	31	37	USCGS 7.1S 129.8E; Banda Sea	6.2
13	06	11	00	N. Lake Tanganyika Area	3.8
13	23	46	46	N. Lake Tanganyika Area	3.3
14	16	08	12	USCGS 15.9S 167.2E; New Hebrides Is.	5.1
14	23	29	20	3.0S 38.5E; Yatta Escarpment, Kenya	5.7
15	04	29	42	3.1S 29.4E; N. Lake Tanganyika Area	3.6
15	06	36	40	USCGS 14.7N 56.4E; Arabian Sea	5.1
15	08	00	50	USCGS 11.9N 86.0W; Near Coast of Nicaragua	6.2
15	17	38	43	USCGS 52.1N 169.5W; Fox Is. Aleutians	4.5
16	00	14	24	9.7S 20.6E; N.F. Angola	3.5
16	13	27	36	USCGS 49.3N 129.1W; Vancouver Is. region	5.2
16	20	16	56	USCGS 17.3S 66.6E; Macarene Is. region	5.2
17	05	03	58	USCGS 49.8N 78.1E; Eastern Kazakh SSR	5.7
17	06	41	03	19.5S 23.1E; Okavango Swamp	3.4
17	11	12	01	17.5S 27.3E; Kariba	2.2
17	14	08	58	USCGS 21.2S 179.1W; Fiji Is. region	4.8
17	21	05	23	USCGS 17.2N 121.8E; Luzon, Philippine Is.	5.4
18	00	55	07	USCGS 23.4N 94.9E; Burma-India Border region	4.8
18	01	11	45	USCGS 79.8N 2.4E; Greenland Sea	5.7
18	06	38	55	USCGS 22.0S 69.2W; Northern Chile	4.7
18	14	57	50	26.3S 27.1E; Witwatersrand	2.8

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Date	G h	M m	T s	Epicentre; Remarks	MAG CGS
18	16	23	26	USCGS 25.1S 71.5E; Mid-Indian Rise	5.7
18	22	06	24	USCGS 33.9S 179.6W; S. of Kermadec Is.	5.4
18	23	35	11	USCGS 13.9S 166.5E; New Hebrides Is.	5.0
19	02	33	28	26.3S 28.0E; Witwatersrand	3.2
19	04	08	04	5.4S 29.0E; N. Lake Tanganyika Area	3.4
19	08	23	26	W. Witwatersrand	3.3
19	10	40	13	4.9S 35.1E; Mt. Hanang Area, Tanzania	5.4
19	14	45(20)		Witwatersrand	2.8
19	14	57	24	USCGS 58.6S 24.8W; S. Sandwich Is. region	5.3
19	15	39	10	USCGS 58.7S 25.0W; S. Sandwich Is. region	5.1
19	19	20	58	USCGS 58.7S 24.9W; S. Sandwich Is. region	5.4
20	01	02	44	USCGS 58.6S 25.0W; S. Sandwich Is. region	5.6
20	03	04	41	23.0S 33.0E; S. Mocambique	2.7
20	10	06	06	USCGS 24.2S 67.1W; Chile-Argentina Border reg.	4.0
20	10	41	40	17.4S 35.4E; Shire-Zambesi Confluence	2.6
20	15	12	28	26.3S 26.9E; Witwatersrand	2.7
20	15	25	31	USCGS 58.5S 25.3W; S. Sandwich Is. region	4.6
20	15	56	33	USCGS 20.6S 178.1W; Fiji Is. region	5.0
20	19	28	22	USCGS 33.7S 71.3W; Near Coast of Cent. Chile	4.6
21	02	35	12	USCGS 27.7S 71.8W; Near Coast of N. Chile	5.4
21	04	59	58	USCGS 73.4N 54.8E; Novaya Zemlya	5.9
21	11	00	36	USCGS 31.6N 99.9E; Szechwan Province, China	5.2
21	14	58	44	26.2S 26.9E; Witwatersrand	2.3
21	18	39	40	USCGS 24.8S 177.3W; S. of Fiji Is.	4.8
22	00	52	11	USCGS 22.3S 65.7W; Jujuy Province Argentina	5.2
22	10	07	45	18.7S 34.3E; Gorongosa Escarpment, Mocambique	3.1
23	01	09(10)		N. Lake Malawi Area	2.7
23	03	39	48	26.5S 27.8E; Witwatersrand	3.7
23	05	39	21	USCGS 1.2N 123.8E; N. Celebes	4.8
23	08	27	06	USCGS 28.9N 139.1E; Bonin Is. region	5.3
23	10	51	56	USCGS 23.9S 66.6W; Jujuy Province Argentina	4.5
23	11	13	31	11.5S 34.9E; Cent. Lake Malawi Area	4.6
23	23	44	43	9.7S 33.9E; N. Lake Malawi	3.1
24	00	19	19	12.5S 34.5E; Central Lake Malawi	3.1
24	03	13	27	USCGS 31.3S 179.7W; Kermadec Is.	5.4
24	10	51	15	USCGS 3.1S 101.5E; S. Sumatra	5.5
24	19	42	12	USCGS 59.8S 26.3W; S. Sandwich Is. region	5.0
24	22	18	02	Witwatersrand	2.3
25	00	59	23	USCGS 24.5N 122.2E; Taiwan region	6.0
25	06	47	31	USCGS 31.7S 58.3E; Atlantic-Indian Rise	

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
25	09	10	19	USCGS 9.4S 112.9E; South of Java	5.2
25	15	54	56	S. Lake Tanganyika Area	3.0
25	23	06	27	10.0S 25.3E; S. Manika Plateau, Congo	3.0
26	00	22	22	USCGS 24.5N 122.2E; Taiwan region	5.6
26	04	55	38	USCGS 37.3N 29.1E; Turkey	5.1
26	05	10	02	USCGS 2.3N 121.7E; Celebes Sea	5.0
26	08	09	15	10.0S 35.8E; S. Tanzania	3.1
26	11	30	55	16.2S 36.0E; Mlanje Area, Mocambique	2.8
26	12	42	30	16.6S 28.4E; Kariba	3.9
26	17	22	05	USCGS 0.2S 125.2E; Molucca Sea	5.6
26	20	19	44	USCGS 17.4N 46.4W; N. Atlantic Ridge	4.7
27	00	34	45	USCGS 32.3S 69.4W; Mendoza Prov. Argentina	4.8
27	08	05	14	USCGS 34.3N 46.2E; W. Iran	5.0
27	12	58	51	USCGS 46.9S 10.4W; S. Atlantic Ridge	4.5
27	14	54	17	28.2S 26.6E; O.F.S. Goldfields	2.7
27	20	04	08	8.4S 26.6E; Lake Upemba Area, Congo	3.7
27	21	16	19	1 S 27E; Kivu Province, Congo	4.4
28	00	02	21	USCGS 16.2S 66.9E; Mid-Indian Rise	4.6
28	13	14	52	Witwatersrand	2.4
28	18	42	14	USCGS 24.9N 45.9W; N. Atlantic Ridge	5.1
29	01	27	50	8.5S 29.5E; Mweru Swamp, Zambia	3.6
29	02	59	20	USCGS 24.0S 179.9E; S. of Fiji Is.	4.4
29	12	37	22	USCGS 60.8S 23.1W; S. Sandwich Is. region	5.3
29	22	11	44	26.2S 28.1E; Witwatersrand	3.5
30	06	03	58	USCGS 49.8N 78.1E; Eastern Kazakh, SSR	5.5
30	06	39	39	8.8S 34.1E; S. Highlands, Tanzania	4.0
30	15	42	27	26.3S 27.5E; Witwatersrand	2.8
30	19	55	37	2N 32E; Lake Albert Area, Uganda	4.2
30	21	22	38	2N 32E; Lake Albert Area, Uganda	4.2
30	21	37(50)		Lake Albert Area, Uganda	3.9
31	04	55(00)		8S 32E; Lake Kulkwa, Tanzania	3.1
31	13	54	03	2N 32E; Lake Albert Area, Uganda	4.7
31	14	04(10)		Lake Albert Area, Uganda	3.9
31	21	08	07	USCGS 37.8N 14.6E; Sicily	4.8
31	22	29(20)		Lake Albert Area, Uganda	3.6

LIST OF RECORDED PHASES: 01 to 04 OCT 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	$\bar{C}$	mm	
01	BUL	eSg	00	07	31		0.2	
01	BUL	eSg	00	18	34		0.2	
01	BUL	eSg	03	22	32		0.2	
01	BHA	eSn	09	18	15		0.4	
		iSg		19	34			
	KRR	eL		20	58		0.2	
01	BUL	eSg	22	39	29		0.2	
02	CLK	eP'	00	31	00		0.5	Distant
		iSKP		33	31			
	BUL	iP'		31	00	C	0.6	
		iSKP		33	31			
	KRR	iP'		31	04	C	1.5	
		iSKP		33	37			
	BHA	eP'		31	10		0.6	
		iSKP		33	46			
02	BUL	eSg	10	37	57		0.2	
02	BUL	e	15	12	58		0.4	Distant
		i		13	07			
	KRR	e			06		0.2	
02	CLK	i	17	35	19	C	0.3	Distant
	KRR	e			49		0.2	
	BUL	ei			55	rC	0.4	
02	KRR	iPn	18	25	24	C	5.2	Kariba
		iPg			26			
		iSn			39			
		iSg			42			
	BUL	ePn			58		1.6	
		iPg		26	07			
		iSn			37			
		iS*			48			
		iSg			53			
02	BUL	eSg	22	31	42		0.2	
03	BUL	e	05	13	35		0.2	Distant
03	BUL	eSg	05	19	06		0.2	
03	BUL	eSg	11	19	42		0.5	
03	BUL	e	15	37	24		0.2	Distant
03	BUL	eSg	15	57	20		0.2	
03	CLK	eP	17	09	26		1.2	Offshore Central Mocambique
		i		10	43			
	BUL	eP		09	50		0.4	
		e		11	28			
03	BHA	eiP'	18	34	41	rC	2.5	Distant
	BUL	iP'			48	C	1.2	
	CLK	eiP'			55	rC	3.6	
04	BUL	eSg	01	14	09		0.3	
04	BUL	eP*	06	21	00		0.2	Distant
	BHA	eP'			01		0.5	
	CLK	eP'			07		0.6	



LIST OF RECORDED PHASES: 04 to 06 OCT 1967 - 2

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
04.	CLK	eP'	17	39	55		0.4	Distant	
	BUL	eiP*	40	08		cR	3.3		
		ipP'		10					
		iPKKP	50	24					
	BHA	iP'	40	12		R	1.7		
		iPP	41	56					
		ePKKP	50	09					
04	BUL	eSg	23	29	59		0.2		
04	BUL	i	23	33	17	R	0.2	Distant	
	BHA	e		20			0.2		
05	BUL	eP	04	26	28		1.2	Distant	
		ipP		38					
	BHA	eP		32			0.5		
		ipP		42					
05	BUL	e	05	06	51		0.2	Distant?	
05	BUL	e	09	55	07		0.3	Distant	
		e		16					
05	BHA	iL	12	10	04		0.4		
	BUL	iL		45			0.5		
05	BUL	ePn	14	40	44		0.8	Witwatersrand	
		iSn		41	43				
		iSg		42	13				
05	BHA	i	16	13	54	R	0.3	Distant	
	BUL	i	14	05		R	0.2		
05	BUL	e	17	51	47		0.3	Distant	
	BHA	ei		50		cR	0.3		
		i		52	07				
05	BUL	e	18	49	33		0.2	Distant?	
	BHA	e		51			0.2		
05	BUL	e	20	07	19		0.3	Distant	
		e		33					
	BHA	e		23			0.2		
06	BUL	ePn	01	39	21		0.6	Witwatersrand	
		eSg		40	57				
06	BUL	e	03	14	16		0.2	Distant	
06	CLK	eP	04	06	05		0.8	Distant	
		ipP		09					
	BHA	eP	07	08			0.3		
		ipP		11					
	BUL	eP		12			0.6		
		ipP		15					
06	BUL	e	07	42	27		0.3	Distant	
06	BUL	eSg	13	51	44		0.2		
06	BUL	iPn	15	23	19		3.4	Witwatersrand	
		iSn		24	28				
		iSg		59					
	BHA	ePn		34			0.3		
		eSn		26	43				
		eSg		27	55				
	CLK	eSg		28	04		0.4		
06	BUL	eSg	16	20	56		0.2		

LIST OF RECORDED PHASES: 07 to 09 OCT 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
07	BUL	iP'	01	26	53	R	1.5	Distant	
		ipP'		27	16				
	BHA	eiP'			07	rC	0.8		
		ipP'			30				
	CLK	eP'			11		0.3		
		epP'			33				
07	BHA	i	08	47	00	C	0.3	Distant	
		e			14				
	BUL	e			07		0.2		
		e			20				
07	BUL	ePn	10	40	22		0.5	Witwatersrand	
		eSn		41	29				
		iSg			58				
07	BUL	i	10	51	25	R	0.4	Distant?	
		i		54	04				
	BHA	e		52	57		0.6		
		e		53	56				
07	BUL	ePn	12	55	59		1.1	Witwatersrand	
		eSn		57	05				
		iSg			38				
	BHA	eSg	13	00	33		0.2		
07	BUL	eSg	15	29	26		0.4		
08	BUL	eSg	14	04	53		0.3		
08	BUL	e	17	18	15		0.2	Distant	
	BHA	e			20		0.2		
08	BUL	i	18	27	05	C	1.3	Distant	
		i			17				
	BHA	i			09	C	0.7		
		i			21				
09	BUL	eiP	05	05	18	rC	0.5	Distant	
	BHA	eP			50		0.2		
09	BUL	eSg	05	14	17		0.3		
09	BHA	ePn	06	23	22		1.4	N. Barotseland, Zambia	
		iSn		24	27				
		iSg			59				
	BUL	ePn			06		0.3		
		eSn		25	45				
		iL		26	45				
09	BUL	eSg	10	38	21		0.3		
09	CLK	eP'	13	46	40		0.3	Distant	
		epP'			46				
	BUL	iP'			47	R	1.4		
		ipP'			55				
	BHA	eiP'			50	cR	0.6		
		ipP'			58				
09	BUL	eP'	14	29	16		0.5	Distant	
		eSKP		32	01				
	BHA	eSKP			05		0.3		
09	BUL	eSg	16	04	04		0.4		
09	CLK	iPn	17	18	23	R	7.7	Comoro Is.	
		iSn		19	58				
		iSg		20	41				
	BHA	ePn		19	42		1.3		
		iSn		22	19				
		eSg		23	43				
	BUL	eP		20	05		0.6		

LIST OF RECORDED PHASES: 09 to 11 OCT 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	CLK	eP'	17	39	48		21.2	Distant	
		iSKP		42	14				
		iPKKP		48	04				
	BUL	ePKIKP		39	32		17.7		
		iP'			50				
		iSKP		42	12				
	BHA	iPKKP		48	07		19.5		
		eiPKIKP		39	44	cR			
		iP'		40	01				
iSKP			42	30					
		iPKKP		48	34				
09	BUL	eP	18	15	38		1.3	Distant	
	BHA	eiP		16	00	cR	0.7		
	CLK	eP			09		0.5		
09	BUL	eP'	18	51	12		0.6	Distant	
		iSKP		53	40				
	BHA	eP'		51	22		0.5		
		iSKP		53	56				
09	BUL	e	18	57	37		0.4	Distant	
	BHA	e			58		0.3		
09	BUL	ePn	19	35	08		0.9	Witwatersrand	
		eSn		36	17				
		eS*			32				
		iSg			48				
09	BUL	e	21	00	42		0.2	Distant	
09	CLK	iPn	23	22	24	R	35.	S. Lake Malawi	
		iSn			44				
	BHA	ePn		23	27		4.8		
		iSn		24	35				
		iSg		25	11				
	BUL	ePn		23	58		1.9		
		iSn		25	26				
		iSg		26	19				
10	BUL	iP'	05	34	00	C	0.7	Distant	
		ipP'			11				
	CLK	eP'			01		0.2		
		epP'			12				
	BHA	eP'			03		0.3		
		epP'			14				
10	BUL	ei	06	45	46	rC	0.3	Distant	
	BHA	e			55		0.2		
10	BUL	eSg	16	32	52		0.2	Witwatersrand	
10	BHA	ePn	23	00	59		4.7	Kafue Hook area, Zambia	
		iSg		01	21				
	BUL	ePn			52		0.3		
		eSn		02	52				
CLK	eL		03	25		0.2			
	eL		04	45					
11	CLK	ePn	04	03	18		1.0	Comoro Is.	
		eSn		04	50				
		eSg		05	36				
	BHA	eP		04	(40)		0.3		
		eS		07	14				
		eL		08	53				
	BUL	eP		05	01		0.2		
	eL		09	35					

LIST OF RECORDED PHASES: 11 to 14 OCT 1967 - 5

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region	Remarks
11	BUL	eSg	07	20	00		0.3		
11	BUL	e	07	58	23		0.2	Distant	
11	BUL	i	13	33	07	C	0.4	Distant	
11	BHA	ePn	15	17	26		0.8	Kariba area	
		ePg			31				
		eSn			03				
		eSg			11				
	BUL	ePn			17		0.6		
		iPg			39				
		iSg			18				
11	BUL	e	16	37	44		0.2	Distant	
11	BUL	i	20	40	35	C	0.7	Distant	
		i			42				
	BHA	i			40	C	0.3		
12	BUL	i	01	40	52	R	0.3	Distant	
12	CLK	eP'	06	53	08		1.5	Distant	
		eSKP			55				
	BUL	eP'			53		2.2		
		eSKP			55				
	BHA	eP'			53		3.5		
		iSKP			55				
12	CLK	iP'	13	11	41	R	0.5	Distant	
		i			13				
	BHA	iP'			11	R	0.9		
		e			13				
	BUL	eiP'			11	R	1.0		
		i			13				
12	CLK	iP	18	44	47	C	2.6	Distant	
		iSKS			55				
	BUL	iP			45	C	2.5		
		iPP			49				
		iSKS			55				
	BHA	iP			45	C	1.3		
		iPP			49				
		iSKS			55				
12	BHA	iP'	19	01	43	C	0.4	Distant	
		epP'			02				
	BUL	iP'			01	C	0.5		
	CLK	iP'			02	C	0.4		
13	CLK	ePn	06	14	02		0.5	N. Lake Tanganyika area	
		eSg			17				
		iL			46				
	BHA	iL			16		0.8		
13	BHA	eP	23	49	07		0.4	N. Lake Tanganyika area	
		eS			50				
		iL			51				
	KRR	eL			52		0.2		
	CLK	eL			53		0.2		
14	BUL	e	16	27	18		0.2	Distant	
	KRR	e			19		0.2		
	BHA	e			25		0.1		
14	BHA	eL	22	20	24		0.2		
	CLK	eL			21		0.2		
	KRR	eL			42		0.2		

LIST OF RECORDED PHASES: 14 to 16 OCT 1967- 6

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
14	CLK	eiP	23	32	29	rC	48.	Yatta Escarpment, Kenya.
		iS		34	48			
		iSgSg		36	08			
	BHA	iP		32	56	C	30.	
		eS		35	32			
		iSgSg		37	(10)			
	KRR	iP		33	13	R	26.	
		iSgSg		37	44			
	BUL	iP		33	54		20.0	
iS			37	19				
iSgSg			39	32				
15	BHA	eSg	00	28	43		0.3	S. Lake Tanganyika.
	CLK	eSg		29	55		0.2	
	KRR	eSg		30	02		0.2	
15	CLK	ePn	04	32	51		0.3	N. Lake Tanganyika Area.
		eSg		36	31			
		eL			42			
	BHA	eSg		35	25		0.4	
		eL			33			
	KRR	eSg		36	38		0.3	
15	CLK	eP	06	43	46		0.4	Distant
	BHA	eP		44	13		0.3	
	KRR	iP			21	C	0.5	
	BUL	iP			46	C	0.8	
15	BHA	eP'	08	19	17		3.5	Distant.
		iP'			18	C	3.3	
	KRR	iP'			18	C	7.0	
		ipP'			21			
	CLK	iSKP		22	41			
		eiP'		19	27	cR	3.8	
		ipP'			30			
15	CLK	eP'	08	29	25		0.6	Distant.
	KRR	iP'			44	C	0.5	
		BUL	iP'			47	C	
	BHA	ipP'			51			
		eSKP		33	34			
		ePKS			44			
		iP'		29	49	C	1.7	
	BHA	ipP'			54			
eSKP			33	37				
15	KRR	e	17	58	08		0.1	Distant.
	BUL	i			18	C	1.9	
16	BHA	ePn	00	16	32		0.7	N.E. Angola.
		eSn		18	07			
		eSg			57			
		iL		19	06			
	KRR	eP		17	02		0.4	
		eS		18	57			
		eL		20	14			
	BUL	eP		17	25		0.3	
		iL		21	11			
	CLK	eL		22	20		0.2	
16	BUL	eSg	12	33	41		0.2	
	KRR	eSg			56		0.2	

LIST OF RECORDED PHASES: 16 to 17 OCT 1967 - 7.

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
16	BHA	e	13	47	06		0.2	Distant.
		eP'			14			
	CLK	e			08		0.3	
		eP'			16			
	KRR	eP'			10		0.3	
	BUL	eiP'			19	cR	0.8	
16	CLK	eP	17	11	03		0.2	Distant.
	KRR	eP			25		0.5	
	BUL	ciP			30	cR	0.4	
		i			45			
		i		12	09			
	BHA	iP		11	31	C	0.3	
		i		12	10			
16	CLK	eP	20	23	04		0.6	Distant.
		epP			09			
	KRR	eP			52		0.9	
		ipP			59			
	BUL	eP			58		0.7	
		epP		24	02			
	BHA	eP			04		1.1	
		epP			09			
17	CLK	iP	05	15	44	C	0.5	Distant.
	BHA	iP			56	C	0.6	
	KRR	iP		16	05	C	1.0	
	BUL	iP			22	C	0.5	
17	BUL	ePn	06	42	20		2.7	Okavanga Swamp.
		ePg			38			
		iSn		43	15			
		iSg			40			
	KRR	ePn		42	39		1.2	
		iSn		43	50			
		iSg		44	31			
	BHA	iSg			45		1.0	
	CLK	eL		47	16		0.4	
17	KRR	ePn	11	12	40		2.2	Kariba.
		iPg			43			
		iSn		13	05			
		iSg			13			
	BUL	iPg		12	55		0.8	
		eSn		13	21			
		iSg			32			
	BHA	iSg			45		0.7	
17	CLK	eP'	14	26	58		0.4	Distant
		eSKP		29	25			
	BUL	iP'		27	00	C	0.4	
		iSKP		29	29			
	KRR	iP'		27	05	C	1.2	
		iSKP		29	36			
	BHA	eP'		27	11		0.4	
	iSKP		29	43				
17	KRR	e	21	18	49		0.1	Distant
	BHA	e			52		0.2	
		e		19	04			
	BUL	e			00		0.2	
		e			11			

LIST OF RECORDED PHASES: 18 to 18OCT 1967- 8

Date	Stn	Phase	G M T			R	DA	Epicentral region; Remarks
			h	m	s			
18	CLK	eP	01	06	16		0.3	Distant
	BHA	iP			45	C	0.4	
	KRR	eP			46		0.4	
	BUL	eP	07	01			0.3	
18	BHA	eiP'	01	25	04	cR	0.3	Distant
		epP'			16			
		iSKP		28	53			
	CLK	ep'		25	11		0.2	
	KRR	ep'			29		0.2	
		eSKP		29	14			
	BUL	ep'			30		0.3	
	epP'			42				
18	BUL	e	06	51	41		0.3	Distant
		i			50			
	KRR	e		52	02		0.2	
18	BHA	e	14	49	26		0.6	Distant
	KRR	ei			35	cR	1.8	
	BUL	i			38	C	3.0	
	CLK	i			42	C	2.1	
18	BUL	iSg	15	01	05		0.4	Witwatersrand
	KRR	eSg		02	52		0.2	
18	CLK	eP	16	30	19		0.2	Distant
		ipP			22			
	BUL	eP			58		0.3	
		epP		31	04			
	KRR	eP		30	59		0.3	
		ipP		31	05			
	BHA	eP			15		0.4	
	ipP			21				
18	BUL	eSg	17	41	08		0.3	Witwatersrand
	KRR	eSg		42	55		0.2	
18	BUL	ip'	22	25	12	C	0.5	Distant
		ipP'			32			
		eSKP		28	48			
		ePKS		29	02			
		ePKKP		35	22			
	CLK	ip'		25	15	C	0.5	
		ipP'			38			
	KRR	ip'		25	17	rC	0.8	
		ipP'			37			
		eSKP		28	49			
		ePKS		29	06			
		ePKKP		35	12			
	BHA	eiP'		25	22	rC	0.6	
		epP'			41			
		eSKP		28	55			
18	CLK	eiP'	23	54	00	cR	0.4	Distant
		ipP'			05			
		iSKP		57	27			
	BUL	eiP'		54	06	cR	0.6	
		ipP'			10			
		iSKP		57	33			
	KRR	eiP'		54	08	cR	0.8	
		ipP'			13			
		eSKP		57	35			
	BHA	eiP'		54	12	cR	0.5	
		ipP'			17			
		iSKP		57	41			

LIST OF RECORDED PHASES: 19 to 20 OCT 1967- 9

Date	Stn	Phase	G h	M m	T s	$\frac{R}{C}$	DA mm	Epicentral region; Remarks
19	BUL	ePn	02	34	57		0.7	Witwatersrand
		eSn		36	03			
		eS*			17			
		eSg			36			
	KRR	ePn		35	44		0.4	
		eS*		37	52			
		eSg		38	15			
	BHA	eSg		39	31		0.2	
CLK	eSg			42		0.2		
19	BHA	ePn	04	10	11		0.6	N. Lake Tanganyika Area
		eSn		11	44			
		eSg		12	42			
	KRR	ePn		10	44		0.3	
		eSn		12	44			
		eL		13	57			
	CLK	ePn		10	46		0.3	
		eL		14	(10)			
	BUL	eL		15	47		0.2	
	19	BUL	ePn	08	25	07		
eSn				26	22			
eSg					58			
KRR		ePn		25	53		0.3	
		eSn		27	42			
		eSg		28	41			
19	CLK	iPn	10	42	48	C	27.	Mt. Hanang Area, Tanzania
		iSg		45	57			
	BHA	ePn		42	57		25.	
		iSn		45	10			
		iSg		46	16			
	KRR	ePn		43	19		24.	
		eSn		45	57			
		iSg		47	06			
	BUL	ePn		44	02		10.4	
		eSn		47	24			
		iSg		48	52			
	19	BUL	iSg	14	48	30		
KRR		eSg		50	12		0.2	
19	BUL	eP	15	06	47		0.4	Distant
	KRR	eP		07	11		0.3	
	BHA	eP			22		0.3	
19	BUL	eP	15	48	34		0.4	Distant
		iP			58	C	0.7	
	BHA	eP		49	08		0.4	
	CLK	eP			24		0.3	
19	BUL	eP	19	30	22		0.2	
	KRR	eP			46		0.3	
	BHA	eP			57		0.3	
20	BUL	iP	01	12	10	C	1.7	Distant
		iP			35	C	3.5	
		eP'P'		42	30			
	BHA	eP		12	45		1.4	
		iP'P'		42	26			
	CLK	iP		13	01	C	0.7	
		eP'P'		42	20			



LIST OF RECORDED PHASES: 20 to 21 OCT 1967- 10

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
20	KRR	ePn	03	06	19		0.4	S. Mocambique.
		eSn		07	27			
		iSg		08	05			
	BUL	iSg		06	45		0.7	
	CIK	eSg		08	04		0.3	
20	BUL	e	10	18	31		0.2	Distant
	KRR	e			43		0.2	
20	CIK	iPn	10	42	08		3.3	Shire-Zambezi confluence
		iSn			28			
		iSg			31			
	KRR	eSg		44	23		0.4	
	BUL	eSg		45	09		0.3	
20	BUL	eSg	15	15	40		0.3	Witwatersrand
	KRR	eSg		17	22		0.2	
20	BUL	e	15	34	56		0.3	Distant
	KRR	e		35	20		0.3	
20	CIK	eP'	16	14	45		0.3	Distant
		eSKP		17	20			
	BUL	iP'		14	46	C	0.4	
		iSKP		17	21			
	KRR	eP'		14	50		0.3	
		eSKP		17	28			
	BHA	eP'		14	56		0.3	
		iSKP		17	36			
		iPKS			44			
20	BUL	e	19	41	01		0.2	Distant
	KRR	e			15		0.2	
	BHA	e			16		0.1	
21	CIK	e	02	17	57		0.2	Distant
		BHA	e		18	19		
	KRR	e			22		0.2	
	BUL	i			36	C	0.3	
21	BUL	iP	02	48	12	C	1.1	Distant
		eSKS		59	04			
	KRR	eP		48	23		1.5	
		iPP		52	06			
	BHA	eP		48	25		0.7	
	ePP		52	05				
	CIK	eP		48	49		0.3	
21	BHA	iP	05	12	57	C	2.4	Distant
	CIK	iP			59	C	4.8	
		ePP		16	36			
	KRR	iP		13	08	C	2.2	
		ePP		16	48			
	BUL	iP		13	23	C	3.0	
21	CIK	eP	11	12	38		0.5	Distant
		BHA	iP			57	C	
	KRR	iP		13	00	C	0.4	
	BUL	iP			14	C	0.7	
21	BUL	eSg	15	01	59		0.2	Witwatersrand
	KRR	eSg		03	45		0.1	
21	BUL	eP'	18	58	37		0.2	Distant
		KRR	eP'			42		
		eSKP		19	01	55		

LIST OF RECORDED PHASES: 22 to 23 OCT 1967- 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
22	BUL	iP	01	04	26	C	3.1	Distant
		ipP			34			
		ePP		07	48			
	BHA	iP	04	36		C	1.7	
		ePP		08	05			
	KRR	iP	04	37		C	1.8	
		ePP		08	06			
	CLK	iP	05	02		C	0.6	
22	CLK	ePn	10	03	32		2.2	Gorongosa escarpment, Mocambique
		iPg			38			
		eSn		09	11			
		iSg			16			
	KRR	ePn		08	57		3.0	
		iPg		09	13			
		eS*		10	02			
		iSg			15			
	BUL	eP*		09	18		1.9	
		eSn		10	06			
		iSg			36			
	BHA	eSn			44		0.5	
		eSg		11	25			
23	CLK	eSg	01	12	14		0.5	N. Lake Malawi Area
	KRR	eSg		13	14		0.2	
	BUL	e		14	(50)		0.1	
23	BUL	iPn	03	41	23		1.7	Witwatersrand
		iSg		43	05			
	KRR	ePn		42	09		1.6	
		eSn		43	54			
		iSg		44	49			
	CLK	ePn		42	50		0.6	
	eSg		46	20				
23	KRR	e	05	52	35		0.2	Distant
	BUL	e			39		0.3	
23	CLK	e	08	44	45		0.4	Distant
		e		45	30			
	KRR	i		44	55	R	1.3	
		e		46	07			
	BUL	i		44	58	R	0.7	
		e		46	16			
23	BUL	e	11	04	20		0.3	Distant
	KRR	e			32		0.3	
23	CLK	iPn	11	14	36		50.	Central Lake Malawi Area
		iT			57			
		iSn		15	21			
		iSg			42			
	BHA	ePn			14			
		iSn		16	(30)			
	KRR	iPn		15	20		15.	
		iSn		16	39			
		iSg		17	19			
	BUL	ePn		16	00		5.8	
		iSn		17	48			
		iSg		18	52			
23	BHA	ePn	23	46	31		1.2	N. Lake Malawi
		eSn		47	48			
		iSg		48	24			
	CLK	eSn		47	17		0.6	
		iSg			53			
	KRR	e		48	57		0.3	
BUL	e		50	41		0.2		

LIST OF RECORDED PHASES: 24 to 25 OCT 1967 - 12

Date	Stn	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	$\bar{C}$	mm		
24	CLK	ePn	00	20	06		3.4	Central Lake Malawi	
		ePg			15				
		eSn			40				
		iSg			53				
	BHA	eSn	21	56			1.7		
		iSg	22	31					
	KRR	eSn	21	56			0.8		
eSg		22	31						
BUL	eSg	24	00			0.2			
24	BUL	iP'	03	31	51	R	2.6	Distant	
	CLK	eiP'			52	rC	0.4		
	KRR	iP'			56	R	3.0		
	BHA	eP'	32	02			0.5		
24	BUL	eSg	06	50	58		0.3		
24	KRR	e	11	02	32		0.6	Distant	
		e			50				
	BHA	i			38	R	1.2		
		e			56				
BUL	i			39	R	0.7			
		e			55				
24	BUL	e(L)	19	51	56		0.2		
	KRR	e(L)		52	07		0.2		
	BHA	e(L)		(20)			0.1		
24	BUL	eL	22	21	02		0.2		
25	CLK	eP	01	12	33		2.3	Distant	
		iSKS		23	07				
		iS			36				
		ePKKP		29	38				
	BHA	eP	12	57			0.8		
		iSKS	23	35					
		iS	24	03					
		iPKKP	29	24					
	KRR	eP	12	57			0.7		
		ePKKP	29	25					
	BUL	eP	13	07			1.0		
		eSKS	23	46					
ePKKP		29	16						
25	CLK	eP	06	53	08		0.3	Distant	
	BUL	iP			30	R	0.5		
		ipP			38				
	KRR	eP			39		0.2		
	BHA	eP			59		0.2		
25	KRR	e	09	22	30		0.3	Distant	
		e			43				
	BUL	e			33		0.3		
		e			48				
	BHA	e			37		0.2		
	e			51					
25	BHA	ePn	15	56	35		0.6	S. Lake Tanganyika area	
		iSn		57	50				
		iSg		58	25				
	KRR	eSg	59	31			0.2		
		iL		40					
BUL	eL	16	01	17		0.1			

LIST OF RECORDED PHASES: 25 to 26 OCT 1967- 13

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks	
25	BHA	ePn	23	07	47		1.2	S. Manika Plateau, Congo.	
		iSn		08	44				
		eSg		09	12				
	KRR	ePn		08	23		0.4		
		iSn		09	16				
	CLK	eSg		10	(30)				
	CLK	eS		10	57		0.3		
		eL		12	13				
26	CLK	eiP	00	35	34	cR	0.5	Distant	
	KRR	e P			56		0.3		
	BHA	eiP			57	cR	0.3		
	BUL	eiP		36	07	cR	0.4		
26	BHA	e	05	04	42		0.2	Distant	
	CLK	e			52		0.3		
	KRR	e			59		0.4		
	BUL	i		05	24	R	0.4		
26	BUL	i	05	23	13	C	0.4	Distant	
26	CLK	ePn	08	10	37		0.8	S. Tanzania	
		eSn		11	28				
		iSg		12	06				
	KRR	e		11	50		0.4		
		eL		13	57				
	BHA	eS		12	44		0.4		
		iL		13	50				
26	CLK	iPg	11	31	18		11.5	Mlanje Area, Mocambique.	
		iSg			32				
	KRR	ePn		32	25		0.4		
		eSg		34	03				
	BHA	eSg			44		0.3		
BUL	eSg			53		0.3			
26	BUL	eSg	12	13	25		0.2		
26	KRR	iP	12	42	51	C	70.	Kariba. Felt MM III at Kariba	
		iS		43	05				
	BHA	ePn			05				
	BUL	eiPn			23	rC	18.		
		iPg			34				
			iS*		44	10			
	CLK	ePn			03		5.7		
		iSn		45	12				
		iSg			44				
	26	KRR	i	17	33	36	C		0.4
BHA		e			46		0.2		
BUL		e			47		0.2		
26	CLK	iP'	17	35	02	C	0.7	Distant	
		iP'			26	C	0.5		
			iSKP		39	14			
	BUL	eiP'		35	30	cR	1.0		
		ipP'			38				
	BHA	eiP'			31	cR	0.6		
		eSKP		39	24				
26	BHA	e	20	31	54		0.3	Distant	
		i		32	01				
	KRR	e			04		0.2		

LIST OF RECORDED PHASES: 27 to 28 OCT 1967 - 14

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
27	BUL	e	00	47	24		0.2	Distant
	KRR	e			38		0.2	
	BHA	ei			40	cR	0.3	
27	KRR	e	01	20	52		0.2	Distant
	BHA	e		21	03		0.1	
27	BUL	eSg	07	01	09		0.2	
27	BUL	e(L)	08	15	02		0.2	
27	BUL	eP	13	06	36		0.4	Distant
	KRR	eP		07	01		0.3	
	BHA	eP			12		0.5	
	CLK	eP			34		0.2	
27	BUL	eSg	14	58	30		0.2	Witwatersrand
27	BHA	iPn	20	05	40		2.5	Lake Upemba area, Congo
		eSn		06	46			
		iSg		07	21			
	KRR	ePn		06	15		1.2	
		eSn		07	46			
		eL		08	44			
	CLK	eP		06	41		0.6	
		iL		09	46			
	BUL	iL		10	18		0.4	
	27	BHA	ePn	21	19	26		
iSn				21	56			
iSg				23	03			
iL					14			
KRR		ePn		20	02		1.5	
		eSn		22	54			
		iSg		24	19			
CLK		ePn		20	07		1.1	
		eSn		22	58			
BUL		eSgSg		24	28			
	eP		20	45		0.6		
		iSgSg		26	01			
28	CLK	eP	00	08	34		0.2	Distant
		eP		09	18		0.3	
		ipP			25			
	BUL	eP			25		0.3	
	BHA	iP			29	C	0.3	
28	BUL	eSg	13	18	04		0.2	
28	BUL	iSg	18	46	33		0.4	Witwatersrand
	KRR	eSg		48	16		0.2	
28	BHA	e	18	54	35		0.2	Distant
	KRR	ei			47	cR	0.3	
	BUL	e			49		0.2	
28	BHA	eL	23	20	01		0.2	
	KRR	eL		21	08		0.2	

## LIST OF RECORDED PHASES: 29 to 30 OCT 1967 - 15

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
29	BHA	ePn	01	29	18	-	3.2	Mweru Swamp, Zambia	
		iSn		30	21				
		iSg			53				
	KRR	iPn		29	50	-	2.1		
		iSn		31	15				
		iSg		32	04				
	CLK	ePn		29	57	-	0.8		
		eSn		31	29				
		iSg		32	21				
	BUL	ePn		30	33	-	0.4		
eSn			32	32					
eL			33	49					
29	KRR	e	03	20	04	-	0.3	Distant	
	BHA	e			14	-	0.3		
29	BUL	eP	12	46	46	-	2.0	Distant	
	KRR	eP		47	10	-	2.3		
	BHA	eP			21	-	0.6		
	CLK	eP			37	-	0.6		
29	KRR	eP	19	13	35	-	0.2	Distant	
	BHA	eP			35	-	0.2		
	BUL	eP			50	-	0.2		
29	BUL	ePn	22	13	15	-	1.2	Witwatersrand	
		eSn		14	22				
		iSg			52				
	KRR	ePn			02	-	0.8		
		eSn		15	45				
		eSg		16	39				
	BHA	eP		14	30	-	0.3		
		eL		17	52				
	CLK	eL		18	00	-	0.3		
	30	CLK	eP	06	15	44	-		0.4
BHA		iP			56	C	0.3		
KRR		iP		16	04	C	0.7		
BUL		eP			22	-	0.4		
30	CLK	ePn	06	41	18	-	3.3	S. Highlands, Tanzania.	
		iSn		42	31				
		iSg		43	08				
	BHA	ePn		41	34	-	2.8		
		iSn		42	56				
		iSg		43	41				
	KRR	ePn		41	49	-	1.9		
		eSn		43	21				
		eSg		44	13				
	BUL	ePn		42	34	-	1.3		
		eSn		44	52				
		iSg		45	56				
	30	BUL	eSg	15	45	37	-		0.3
KRR		eSg		47	25	-	0.2		
30	BHA	eL	19	09	06	-	0.3		
	CLK	eL			(20)	-	0.2		
	KRR	eL		10	02	-	0.2		

LIST OF RECORDED PHASES: 30 to 31 OCT 1967 - 16

Date	STN	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
30	BHA	eP	19	59	28	-	1.0	Lake Albert area, Uganda
		eL	20	04	20			
	CLK	eP	19	59	46	-	0.7	
		eL	20	04	51			
	KRR	eP	19	59	57	-	0.6	
		eL	20	05	22			
BUL	iP	00	34		C	0.4		
	eL	07	18					
30	BHA	eP	21	26	31	-	1.0	Lake Albert area, Uganda
		iL		31	25			
	CLK	eP	26	50		-	0.7	
		eL	31	57				
	KRR	eP	26	59		-	0.5	
		eL	32	26				
BUL	eiP	27	36		cR	0.3		
	eL	34	28					
30	BHA	eL	21	46	31	-	0.4	Lake Albert area, Uganda
	CLK	eL		47	02	-	0.3	
	KRR	eL			29	-	0.3	
	BUL	eL		49(20)		-	0.2	
31	BHA	eSn	04	58	01	-	0.8	Lake Rukwa, Tanzania
		iSg			40			
	KRR	eSn			40	-	0.3	
		eSg		59	32			
	CLK	eSg			08	-	0.3	
BUL	eL	05	01	30	-	0.2		
31	BHA	eP	13	54	55	-	3.7	Lake Albert area, Uganda
		eS		57	51			
		iSgSg		59	42			
	CLK	eP		55	13	-	2.2	
		eS		58	20			
	KRR	iSgSg	14	00	21			
		eP	13	55	23	-	1.4	
		eS		58	42			
BUL	eSgSg	14	00	46				
	eP	13	55	59	-	0.6		
eL	14	02	37					
31	BHA	eL	14	12	42	-	0.4	Lake Albert area, Uganda
	CLK	eL		13	18	-	0.3	
	KRR	eL			43	-	0.3	
31	BUL	eSg	15	42	54	-	0.2	
31	BHA	eP	21	17	28	-	0.4	Distant
		eP		46		-		
	CLK	eP		51		-	0.3	
	BUL	eP	18	04		-	0.4	
		e		56				
31	BHA	eL	22	38	00	-	0.2	Lake Albert area, Uganda
	CLK	eL		42		-	0.2	
	KRR	eL		39(00)		-	0.2	

PJD  
V. W.

October

26 JAN 1968

RHODESIA METEOROLOGICAL SERVICES

SEISMOLOGICAL BULLETIN

The following stations contribute records for analysis and publication in this Bulletin:

- KABWE (BHA):**  $14^{\circ} 26.8' S$ ;  $28^{\circ} 28.1' E$ ; Alt. 1206 m.  
 (Broken Hill)  
**Litho. foundation:** Dolomite and Shales of the Middle Katanga System.  
**Authority:** Zambia Meteorological Service.  
**Instrument:** Three component Willmore one-second seismograph.  
 Nominal magnification 20,000.
- CHILEKA (CLK):**  $15^{\circ} 40.8' S$ ;  $34^{\circ} 58.6' E$ ; Alt. 781 m.  
**Litho. foundation:** Charnockitic granulites of the Basement Complex.  
**Authority:** Malawi Meteorological Service.  
**Instrument:** Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.
- KAROI (KRR):**  $16^{\circ} 51.1' S$ ;  $29^{\circ} 37.1' E$ ; Alt. 1380 m.  
**Litho. foundation:** Granitic gneisses of the Zambesi type.  
**Authority:** Rhodesia Meteorological Services.  
**Instrument:** Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.
- BULAWAYO (BUL):**  $20^{\circ} 08.6' S$ ;  $28^{\circ} 36.8' E$ ; Alt. 1341 m.  
**Litho. foundation:** Hornblend schists of the Bulawayan System.  
**Authority:** Rhodesia Meteorological Services.  
**Instruments:** Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
**WWSSS Station:** SP magnification 100,000  
 IP magnification 1,500

**Analysis Centre:** Goetz Observatory, Meteorological Service,  
 P.O. Box 562, Bulawayo, Rhodesia.



OCT 1967

Date	G h	M m	T s	Epicentre:	Remarks	Mag CGS
01	00	04	(30)	Witwatersrand		2.3
01	00	15	(10)	Witwatersrand		2.4
02	00	12	53	USCGS 21.0S 178.8W;	Fiji Is. region	5.2
02	14	54	08	USCGS 6.7S 153.4E;	New Britain region	5.3
02	17	24	13	USCGS 6.6S 105.2E;	Sunda Strait	5.5
X 02	18	25	03	16.4S 28.5E;	Kariba	2.5
03	04	54	47	USCGS 1.0S 149.5E;	New Ireland region	4.6
03	15	53	32	W. Witwatersrand		2.6
X 03	17	08	13	20.5S 35.5E;	offshore Central Mocambique	2.9
03	18	16	03	USCGS 10.9N 85.9W;	Costa Rica	5.8
04	01	11	(00)	Witwatersrand		2.5
04	06	02	16	USCGS 10.7N 86.0W;	off Coast of Costa Rica	5.3
04	17	21	21	USCGS 5.7S 153.9E;	New Ireland region	
04	21	25	08	USCGS 5.8S 153.8E;	New Ireland region	
05	04	07	42	USCGS 5.8S 154.0E;	Solomon Is.	4.6
05	09	41	31	USCGS 14.5S 75.4W;	Near Coast of Peru	5.6
05	12	00	51	USCGS 37.8N 20.7E;	Ionian Sea	
X 05	14	39	57	26.5S 27.2E;	Witwatersrand	3.1
05	15	55	03	USCGS 45.4N 150.7E;	Kurile Is	5.3
05	17	39	55	USCGS 8.5S 107.1E;	Java	4.6
05	18	27	38	USCGS 22.0S 177.0W;	S of Fiji Is.	4.9
05	19	48	30	USCGS 6.2S 154.9E;	Solomon Is.	4.8
X 06	01	37	50	26.4S 27.9E;	Witwatersrand	3.9
06	03	59	51	USCGS 10.3S 66.4E;	Mid-Indian Rise	5.1
06	13	48	30	Witwatersrand		2.6
X 06	15	21	45	26.5S 27.7E;	Witwatersrand	3.7
X 06	16	17	46	26.5S 28.0E;	Witwatersrand	2.4
07	01	14	04	USCGS 29.6S 71.1W;	Near Coast of Cent. Chile	5.3
07	08	28	01	USCGS 49.2N 156.3E;	Kurile Is.	5.3
07	10	38	02	Witwatersrand		3.1
07	10	33	08	USCGS 17.3S 178.9W;	Fiji Is. region	4.9
X 07	12	54	28	26.3S 27.9E;	Witwatersrand	3.2
07	12	26	14	Witwatersrand		2.9
X 08	14	01	35	26.5S 27.4E;	Witwatersrand	2.7
08	16	59	34	USCGS 9.5S 148.8E;	E. New Guinea region	5.5
08	18	08	18	USCGS 5.6S 154.0E;	Solomon Is.	5.1
09	04	55	10	USCGS 60.9S 36.1W;	Scotia Sea	5.2
09	05	11	09	Witwatersrand		3.0
X 09	06	21	52	13.0S 22.0E;	N. Barotseland Zambia	3.3
X 09	10	34	49	26.7S 26.1E;	W. Witwatersrand	2.9

OCT 1967.

Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
09	13	27	57	USCGS 5.7S 154.0E; Solomon Is.	4.9
09	14	10	57	USCGS 54.0N 155.1E; Kamchatka	5.2
X 09	15	59	56	28.1S 26.3E; O.F.S. Goldfields	3.1
X 09	17	16	14	11.7S 43.3E; Comoro Is.	4.3
09	17	21	49	USCGS 21.1S 179.3W; Fiji Is. region	6.3
09	18	33	08	USCGS 21.3S 179.3W; Fiji Is. region	5.1
X 09	19	33	36	26.4S 27.4E; Witwatersrand	3.1
X 09	23	21	51	13.9S 35.2E; S. Lake Malawi	3.9
10	05	15	13	USCGS 5.6S 153.9E; New Ireland region	4.7
10	06	26	46	USCGS 18.1S 171.8E; New Hebrides Is. region	5.2
X 10	10	29	41	26.2S 27.8E; Witwatersrand	2.6
X 10	23	00	30	14.8S 26.6E; Kafue Hook Area, Zambia	2.5
X 11	04	01	14	12.0S 43.3E; Comoro Is.	3.6
11	07	48	45	USCGS 36.1N 27.2E; Dodecanese Is.	4.7
11	13	14	21	USCGS 5.6S 153.8E; New Ireland region	4.5
X 11	15	16	38	17.1S 27.0E; Kariba Area	2.2
11	20	28	10	USCGS 10.3S 71.2W; Peru-Brazil Border region	
12	01	22	12	USCGS 5.6S 153.3E; New Ireland region	
12	06	35	07	USCGS 21.1S 179.2W; Fiji Is. region	5.6
12	12	53	47	USCGS 52.2N 152.5E; N.W. of Kurile Is.	5.5
12	18	31	37	USCGS 7.1S 129.8E; Banda Sea	6.2
13	06	11	00	N. Lake Tanganyika Area	3.8
13	23	46	46	N. Lake Tanganyika Area	3.3
14	16	08	12	USCGS 15.9S 167.2E; New Hebrides Is.	5.1
X 14	23	29	20	3.0S 38.5E; Yatta Escarpment, Kenya	5.7
X 15	04	29	42	3.1S 29.4E; N. Lake Tanganyika Area	3.6
15	06	36	40	USCGS 14.7N 56.4E; Arabian Sea	5.1
15	08	00	50	USCGS 11.9N 86.0W; Near Coast of Nicaragua	6.2
15	17	38	43	USCGS 52.1N 169.5W; Fox Is. Aleutians	4.5
X 16	00	14	24	9.7S 20.6E; N.E. Angola	3.5
16	13	27	36	USCGS 49.3N 129.1W; Vancouver Is. region	5.2
16	20	16	56	USCGS 17.3S 66.6E; Macarene Is. region	5.2
17	05	03	58	USCGS 49.8N 78.1E; Eastern Kazakh SSR	5.7
X 17	06	41	03	19.5S 23.1E; Okavango Swamp	3.4
X 17	11	12	01	17.5S 27.3E; Kariba	2.2
17	14	08	58	USCGS 21.2S 179.1W; Fiji Is. region	4.8
17	21	05	23	USCGS 17.2N 121.8E; Luzon, Philippine Is.	5.4
18	00	55	07	USCGS 23.4N 94.9E; Burma-India Border region	4.8
18	01	11	45	USCGS 79.8N 2.4E; Greenland Sea	5.7
18	06	38	55	USCGS 22.0S 69.2W; Northern Chile	4.7
X 18	14	57	50	26.3S 27.1E; Witwatersrand	2.8

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Date	G h	M m	T s	Epicentre; Remarks	MAG CGS
18	16	23	26	USCGS 25.1S 71.5E; Mid-Indian Rise	5.7
18	22	06	24	USCGS 33.9S 179.6W; S. of Kermadec Is.	5.4
18	23	35	11	USCGS 13.9S 166.5E; New Hebrides Is.	5.0
X 19	02	33	28	26.3S 28.0E; Witwatersrand	3.2
X 19	04	08	04	5.4S 29.0E; N. Lake Tanganyika Area	3.4
19	08	23	26	W. Witwatersrand	3.3
X 19	10	40	13	4.9S 35.1E; Mt. Hanang Area, Tanzania	5.4
19	14	45(20)		Witwatersrand	2.8
19	14	57	24	USCGS 58.6S 24.8W; S. Sandwich Is. region	5.3
19	15	39	10	USCGS 58.7S 25.0W; S. Sandwich Is. region	5.1
19	19	20	58	USCGS 58.7S 24.9W; S. Sandwich Is. region	5.4
20	01	02	44	USCGS 58.6S 25.0W; S. Sandwich Is. region	5.6
X 20	03	04	44	23.0S 33.0E; S. Mocambique	2.7
20	10	06	06	USCGS 24.2S 67.1W; Chile-Argentina Border reg.	4.0
X 20	10	41	40	17.4S 35.4E; Shire-Zambesi Confluence	2.6
X 20	15	12	28	26.3S 26.9E; Witwatersrand	2.7
20	15	25	31	USCGS 58.5S 25.3W; S. Sandwich Is. region	4.6
20	15	56	33	USCGS 20.6S 178.1W; Fiji Is. region	5.0
20	19	28	22	USCGS 33.7S 71.3W; Near Coast of Cent. Chile	4.6
21	02	35	12	USCGS 27.7S 71.8W; Near Coast of N. Chile	5.4
21	04	59	58	USCGS 73.4N 54.8E; Novaya Zemlya	5.9
21	11	00	36	USCGS 31.6N 99.9E; Szechwan Province, China	5.2
X 21	14	58	44	26.2S 26.9E; Witwatersrand	2.3
21	18	39	40	USCGS 24.8S 177.3W; S. of Fiji Is.	4.8
22	00	52	11	USCGS 22.3S 65.7W; Jujuy Province Argentina	5.2
X 22	10	07	45	18.7S 34.3E; Gorongosa Escarpment, Mocambique	3.1
23	01	09(10)		N. Lake Malawi Area	2.7
X 23	03	39	48	26.5S 27.8E; Witwatersrand	3.7
23	05	39	21	USCGS 1.2N 123.8E; N. Celebes	4.8
23	08	27	06	USCGS 28.9N 139.1E; Bonin Is. region	5.3
23	10	51	56	USCGS 23.9S 66.6W; Jujuy Province Argentina	4.5
X 23	11	13	31	11.5S 34.9E; Cent. Lake Malawi Area	4.6
X 23	23	44	43	9.7S 33.9E; N. Lake Malawi	3.1
X 24	00	19	19	12.5S 34.5E; Central Lake Malawi	3.1
24	03	13	27	USCGS 31.3S 179.7W; Kermadec Is.	5.4
24	10	51	15	USCGS 3.1S 101.5E; S. Sumatra	5.5
24	19	42	12	USCGS 59.8S 26.3W; S. Sandwich Is. region	5.0
24	22	18	02	Witwatersrand	2.3
25	00	59	23	USCGS 24.5N 122.2E; Taiwan region	6.0
25	06	47	31	USCGS 31.7S 58.3E; Atlantic-Indian Rise	

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
25	09	10	19	USCGS 9.4S 112.9E; South of Java	5.2
25	15	54	56	S. Lake Tanganyika Area	3.0
X 25	23	06	27	10.0S 25.3E; S. Manika Plateau, Congo	3.0
26	00	22	22	USCGS 24.5N 122.2E; Taiwan region	5.6
26	04	55	38	USCGS 37.3N 29.1E; Turkey	5.1
26	05	10	02	USCGS 2.3N 121.7E; Celebes Sea	5.0
X 26	08	09	15	10.0S 35.8E; S. Tanzania	3.1
X 26	11	30	55	16.2S 36.0E; Mlanje Area, Mocambique	2.8
X 26	12	42	30	16.6S 28.4E; Kariba	3.9
26	17	22	05	USCGS 0.2S 125.2E; Molucca Sea	5.6
26	20	19	44	USCGS 17.4N 46.4W; N. Atlantic Ridge	4.7
27	00	34	45	USCGS 32.3S 69.4W; Mendoza Prov. Argentina	4.8
27	08	05	14	USCGS 34.3N 46.2E; W. Iran	5.0
27	12	58	51	USCGS 46.9S 10.4W; S. Atlantic Ridge	4.5
X 27	14	54	17	28.2S 26.6E; O.F.S. Goldfields	2.7
X 27	20	04	08	8.4S 26.6E; Lake Upemba Area, Congo	3.7
X 27	21	16	19	1 S 27E; Kivu Province, Congo	4.4
28	00	02	21	USCGS 16.2S 66.9E; Mid-Indian Rise	4.6
28	13	14	52	Witwatersrand	2.4
28	18	42	14	USCGS 24.9N 45.9W; N. Atlantic Ridge	5.1
X 29	01	27	50	8.5S 29.5E; Mweru Swamp, Zambia	3.6
29	02	59	20	USCGS 24.0S 179.9E; S. of Fiji Is.	4.4
29	12	37	22	USCGS 60.8S 23.1W; S. Sandwich Is. region	5.3
X 29	22	11	44	26.2S 28.1E; Witwatersrand	3.5
30	06	03	58	USCGS 49.8N 78.1E; Eastern Kazakh, SSR	5.5
X 30	06	39	39	8.8S 34.1E; S. Highlands, Tanzania	4.0
X 30	15	42	27	26.3S 27.5E; Witwatersrand	2.8
X 30	19	55	37	2N 32E; Lake Albert Area, Uganda	4.2
X 30	21	22	38	2N 32E; Lake Albert Area, Uganda	4.2
30	21	37	(50)	Lake Albert Area, Uganda	3.9
X 31	04	55	(00)	8S 32E; Lake Kukuwa, Tanzania	3.1
X 31	13	51	03	2N 32E; Lake Albert Area, Uganda	4.7
31	14	04	(10)	Lake Albert Area, Uganda	3.9
31	21	08	07	USCGS 37.8N 14.6E; Sicily	4.8
31	22	29	(20)	Lake Albert Area, Uganda	3.6

LIST OF RECORDED PHASES: 01 to 04 OCT 1967 - 1

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
01	BUL	eSg	00	07	31		0.2		
01	BUL	eSg	00	18	34		0.2		
01	BUL	eSg	03	22	32		0.2		
01	BHA	eSn	09	18	15		0.4		
		iSg		19	34				
	KRR	eL		20	58		0.2		
01	BUL	eSg	22	39	29		0.2		
02	CLK	eP'	00	31	00		0.5	Distant	
		iSKP		33	31				
	BUL	iP'		31	00	C	0.6		
		iSKP		33	31				
	KRR	iP'		31	04	C	1.5		
		iSKP		33	37				
	BHA	eP'		31	10		0.6		
		iSKP		33	46				
02	BUL	eSg	10	37	57		0.2		
02	BUL	e	15	12	58		0.4	Distant	
		i		13	07				
	KRR	e			06		0.2		
02	CLK	i	17	35	19	C	0.3	Distant	
	KRR	e			49		0.2		
	BUL	ei			55	rC	0.4		
02	KRR	iPn	18	25	24	C	5.2	Kariba	
		iPg			26				
		iSn			39				
		iSg			42				
	BUL	ePn			58		1.6		
		iPg		26	07				
		iSn			37				
		iS*			48				
		iSg			53				
02	BUL	eSg	22	31	42		0.2		
03	BUL	e	05	13	35		0.2	Distant	
03	BUL	eSg	05	19	06		0.2		
03	BUL	eSg	11	19	42		0.5		
03	BUL	e	15	37	24		0.2	Distant	
03	BUL	eSg	15	57	20		0.2		
03	CLK	eP	17	09	26		1.2	Offshore Central Mocambique	
		i		10	43				
	BUL	eP		09	50		0.4		
		e		11	28				
03	BHA	eiP'	18	34	41	rC	2.5	Distant	
	BUL	iP'			48	C	1.2		
	CLK	eiP'			55	rC	3.6		
04	BUL	eSg	01	14	09		0.3		
04	BUL	eP*	06	21	00		0.2	Distant	
	BHA	eP'			01		0.5		
	CLK	eP'			07		0.6		

LIST OF RECORDED PHASES: 04 to 06 OCT 1967 - 2

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
04.	CLK	eP'	17	39	55		0.4	Distant	
	BUL	eiP'	40	08		cR	3.3		
		ipP'			10				
		iPKKP	50	24					
	BHA	iP'	40	12		R	1.7		
		iPP	41	56					
ePKKP		50	09						
04.	BUL	eSg	23	29	59		0.2		
04.	BUL	i	23	33	17	R	0.2	Distant	
	BHA	e		20			0.2		
05	BUL	eP	04	26	28		1.2	Distant	
	BHA	ipP			38				
		eP			32		0.5		
		ipP			42				
05	BUL	e	05	06	51		0.2	Distant?	
05	BUL	e	09	55	07		0.3	Distant	
		e			16				
05	BHA	iL	12	10	04		0.4		
	BUL	iL			45		0.5		
05	BUL	ePn	14	40	44		0.8	Witwatersrand	
		iSn			43				
		iSg			13				
05	BHA	i	16	13	54	R	0.3	Distant	
	BUL	i			05	R	0.2		
05	BUL	e	17	51	47		0.3	Distant	
	BHA	ei			50	cR	0.3		
		i			07				
05	BUL	e	18	49	33		0.2	Distant?	
	BHA	e			51		0.2		
05	BUL	e	20	07	19		0.3	Distant	
		e			33				
	BHA	e			23		0.2		
06	BUL	ePn	01	39	21		0.6	Witwatersrand	
		eSg			57				
06	BUL	e	03	14	16		0.2	Distant	
06	CLK	eP	04	06	05		0.8	Distant	
	BHA	ipP			09				
		eP	07	08			0.3		
	BUL	ipP			11				
		eP			12		0.6		
		ipP			15				
06	BUL	e	07	42	27		0.3	Distant	
06	BUL	eSg	13	51	44		0.2		
06	BUL	iPn	15	23	19		3.4	Witwatersrand	
		iSn			28				
		iSg			59				
	BHA	ePn			34		0.3		
		eSn	26	43					
		eSg	27	55					
CLK	eSg	28	04			0.4			
06	BUL	eSg	16	20	56		0.2		

LIST OF RECORDED PHASES: 07 to 09 OCT 1967 - 3

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
07	BUL	iP'	01	26	53	R	1.5	Distant	
		ipP'		27	16				
	BHA	eiP'			07	rC	0.8		
		ipP'			30				
	CLK	eP'			11		0.3		
		epP'			33				
07	BHA	i	08	47	00	C	0.3	Distant	
		e			14				
	BUL	e			07		0.2		
		e			20				
07	BUL	ePn	10	40	22		0.5	Witwatersrand	
		eSn		41	29				
		iSg			58				
07	BUL	i	10	51	25	R	0.4	Distant?	
		i		54	04				
	BHA	e		52	57		0.6		
		e		53	56				
07	BUL	ePn	12	55	59		1.1	Witwatersrand	
		eSn		57	05				
		iSg			38				
	BHA	eSg	13	00	33		0.2		
07	BUL	eSg	15	29	26		0.4		
08	BUL	eSg	14	04	53		0.3		
08	BUL	e	17	18	15		0.2	Distant	
	BHA	e			20		0.2		
08	BUL	i	18	27	05	C	1.3	Distant	
		i			17				
	BHA	i			09	C	0.7		
		i			21				
09	BUL	eiP	05	05	18	rC	0.5	Distant	
	BHA	eP			50		0.2		
09	BUL	eSg	05	14	17		0.3		
09	BHA	ePn	06	23	22		1.4	N. Barotseland, Zambia	
		iSn		24	27				
		iSg			59				
	BUL	ePn			06		0.3		
		eSn		25	45				
		iL		26	45				
09	BUL	eSg	10	38	21		0.3		
09	CLK	eP'	13	46	40		0.3	Distant	
		epP'			46				
	BUL	iP'			47	R	1.4		
		ipP'			55				
	BHA	eiP'			50	rC	0.6		
		ipP'			58				
09	BUL	eP'	14	29	16		0.5	Distant	
		eSKP		32	01				
	BHA	eSKP			05		0.3		
09	BUL	eSg	16	04	04		0.4		
09	CLK	iPn	17	18	23	R	7.7	Comoro Is.	
		iSn		19	58				
		iSg		20	41				
	BHA	ePn		19	42		1.3		
		iSn		22	19				
		eSg		23	43				
	BUL	eP		20	05		0.6		

LIST OF RECORDED PHASES: 09 to 11 OCT 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	CLK	eP'	17	39	48		21.2	Distant	
		iSKP		42	14				
		iPKKP		48	04				
	BUL	ePKKP		39	32		17.7		
		iP'			50				
		iSKP		42	12				
	BHA	iPKKP		48	07		19.5	cR	
		eiPKKP		39	44				
		iP'		40	01				
iSKP			42	30					
		iPKKP		48	34				
09	BUL	eP	18	15	38		1.3	Distant	
	BHA	eiP		16	00	cR	0.7		
	CLK	eP			09		0.5		
09	BUL	eP'	18	51	12		0.6	Distant	
		iSKP		53	40				
	BHA	eP'		51	22		0.5		
		iSKP		53	56				
09	BUL	e	18	57	37		0.4	Distant	
	BHA	e			58		0.3		
09	BUL	ePn	19	35	08		0.9	Witwatersrand	
		eSn		36	17				
		eS*			32				
		iSg			48				
09	BUL	e	21	00	42		0.2	Distant	
09	CLK	iPn	23	22	24	R	35.	S. Lake Malawi	
		iSn			44				
	BHA	ePn		23	27		4.8	Felt MM III at Dedza	
		iSn		24	35				
		iSg		25	11				
	BUL	ePn		23	58		1.9		
		iSn		25	26				
		iSg		26	19				
	10	BUL	iP'	05	34	00	C	0.7	Distant
ipP'					11				
CLK		eP'			01		0.2		
		epP'			12				
BHA		eP'			03		0.3		
		epP'			14				
10	BUL	ei	06	45	46	rC	0.3	Distant	
	BHA	e			55		0.2		
10	BUL	eSg	16	32	52		0.2	Witwatersrand	
10	BHA	ePn	23	00	59		4.7	Kafue Hook area, Zambia	
		iSg		01	21				
	BUL	ePn			52		0.3		
		eSn		02	52				
		eL		03	25				
	CLK	eL		04	45		0.2		
	11	CLK	ePn	04	03	18		1.0	Comoro Is.
eSn				04	50				
eSg				05	36				
BHA		eP		04	(40)		0.3		
		eS		07	14				
BUL		eL		08	53		0.2		
		eP		05	01				
		eL		09	35				



LIST OF RECORDED PHASES: 11 to 14 OCT 1967 - 5

Date	Stn	Phase	G	M	T	R	NA	Epical region	Remarks
			h	m	s	C	mm		
11	BUL	eSg	07	20	00		0.3		
11	BUL	e	07	58	23		0.2	Distant	
11	BUL	i	13	33	07	C	0.4	Distant	
11	BHA	ePn	15	17	26		0.8	Kariba area	
		ePg			31				
		eSn		10	03				
		eSg			11				
	BUL	ePn		17	31		0.6		
		iPg			39				
		iSg		18	21				
11	BUL	e	16	37	44		0.2	Distant	
11	BUL	i	20	40	35	C	0.7	Distant	
		i		42	43				
	BHA	i		40	40	C	0.3		
12	BUL	i	01	40	52	R	0.3	Distant	
12	CLK	eP'	06	53	08		1.5	Distant	
		eSKP		55	34				
	BUL	eP'		53	09		2.2		
		eSKP		55	36				
	BHA	eP'		53	18		3.5		
		iSKP		55	51				
12	CLK	iP'	13	11	41	R	0.5	Distant	
		i		13	08				
	BHA	iP'		11	47	R	0.9		
		e		13	28				
	BUL	eiP'		11	55	rC	1.0		
		i		13	57				
12	CLK	iP'	18	44	47	C	2.6	Distant	
		iSKS		55	13				
	BUL	iP		45	11	C	2.5		
		iPP		49	10				
		iSKS		55	40				
	BHA	iP		45	16	C	1.3		
		iPP		49	20				
		iSKS		55	46				
12	BHA	iP'	19	01	43	C	0.4	Distant	
		epP'		02	10				
	BUL	iP'		01	44	C	0.5		
	CLK	iP'		02	00	C	0.4		
13	CLK	ePn	06	14	02		0.5	N. Lake Tanganyika area	
		eSg		17	34				
		iL			46				
	BHA	iL		16	32		0.8		
13	BHA	eP	23	49	07		0.4	N. Lake Tanganyika area	
		eS		50	45				
		iL		51	56				
	KRR	eL		52	59		0.2		
	CLK	eL		53	00		0.2		
14	BUL	e	16	27	18		0.2	Distant	
	KRR	e			19		0.2		
	BHA	e			25		0.1		
14	BHA	eL	22	20	24		0.2		
	CLK	eL		21	17		0.2		
	KRR	eL			42		0.2		

LIST OF RECORDED PHASES: 14 to 16 OCT 1967- 6

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks	
14	CLK	eiP	23	32	29	rC	48.	Yatta Escarpment, Kenya.	
		iS		34	48				
		iSgSg		36	08				
	BHA	iP		32	56	C	30.		
		eS		35	32				
		iSgSg		37	(10)				
	KRR	iP		33	13	R	26.		
		iSgSg		37	44				
	BUL	iP		33	54		20.0		
iS			37	19					
iSgSg			39	32					
15	BHA	eSg	00	28	43		0.3	S. Lake Tanganyika.	
	CLK	eSg		29	55		0.2		
	KRR	eSg		30	02		0.2		
15	CLK	ePn	04	32	51		0.3	N. Lake Tanganyika Area.	
		eSg		36	31				
		eL			42				
	BHA	eSg		35	25		0.4		
		eL			33				
	KRR	eSg		36	38		0.3		
15	CLK	eP	06	43	16		0.4	Distant	
		BHA	eP		44	13			0.3
	KRR	iP			21	C	0.5		
	BUL	iP			46	C	0.8		
	15	BHA	eP'	08	19	17			3.5
BUL			iP'			18	C	3.3	
KRR		iP'			18	C	7.0		
		ipP'			21				
CLK		iSKP		22	41				
		eiP'		19	27	cR	3.8		
		ipP'			30				
15	CLK	eP'	08	29	25		0.6	Distant.	
		KRR	iP'			44			C
	BUL	iP'			47	C	2.8		
		ipP'			51				
		eSKP		33	34				
	BHA	ePKS			44				
		iP'		29	49	C	1.7		
		ipP'			54				
KRR	eSKP		33	37					
15	KRR	e	17	58	08		0.1	Distant.	
	BUL	i			18	C			1.9
16	BHA	ePn	00	16	32		0.7	N.E. Angola.	
		eSn		18	07				
		eSg			57				
		iL		19	06				
	KRR	eP		17	02		0.4		
		eS		18	57				
		eL		20	14				
	BUL	eP		17	25		0.3		
		iL		21	11				
	CLK	eL		22	20		0.2		
	16	BUL	eSg	12	33	41			0.2
		KRR	eSg			56			0.2

LIST OF RECORDED PHASES: 16 to 17 OCT 1967 - 7

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks	
16	BHA	e	13	47	06		0.2	Distant.	
		eP'			14				
	CLK	e			08		0.3		
		eP'			16				
	KRR	eP'			10		0.3		
16	BUL	eiP'			19	cR	0.8	Distant.	
	CLK	eP	17	11	03		0.2		
	KRR	eP			25		0.5		
	BUL	eiP			30	cR	0.4		
		i			45				
16		i			12	09		Distant.	
	BHA	iP	11	31		C	0.3		
		i			12	10			
	CLK	eP	20	23	04		0.6		
		epP			09				
16	KRF	eP			52		0.9	Distant.	
		ipP			59				
	BUL	eP			58		0.7		
		epP	24	02					
	BHA	eP			04		1.1		
17		epP			09			Distant.	
	CLK	iP	05	15	44	C	0.5		
	BHA	iP			56	C	0.6		
	KRR	iP			16	05	C		1.0
	BUL	iP			22		C		0.5
17	BUL	ePn	06	42	20		2.7	Okavanga Swamp.	
		ePg			38				
		iSn			43	15			
		iSg			40				
	KRR	ePn			42	39			1.2
		iSn			43	50			
		iSg			44	31			
	BHA	iSg			45				1.0
	CLK	eL			47	16			0.4
	17	KRR	ePn	11	12	40			2.2
		iPg			43				
		iSn			13	05			
		iSg			13				
BUL		iPg			12	55		0.8	
17		eSn			13	21			Distant
		iSg			32				
	BHA	iSg			45			0.7	
	CLK	eP'	14	26	58		0.4		
		eSKP			29	25			
17	BUL	iP'			27	00	C	0.4	Distant
		iSKP			29	29			
	KRR	iP'			27	05	C	1.2	
		iSKP			29	36			
	BHA	eP'			27	11		0.4	
17		iSKP			29	43			Distant
	KRR	e	21	18	49		0.1		
	BHA	e			52		0.2		
		e			19	04			
	BUL	e			00		0.2		
	e			11					

LIST OF RECORDED PHASES: 18 to 18OCT 1967- 8

Date	Stn	Phase	G M T			R	DA	Epicentral region; Remarks
			h	m	s			
18	CLK	eP	01	06	16		0.3	Distant
	BHA	iP			45	C	0.4	
	KRR	eP			46		0.4	
	BUL	eP	07	01			0.3	
18	BHA	eiP'	01	25	04	cR	0.3	Distant
		epP'			16			
		iSKP		28	53			
	CLK	ep'		25	11		0.2	
	KRR	ep'			29		0.2	
		eSKP		29	14			
	BUL	ep'			30		0.3	
		epP'			42			
18	BUL	e	06	51	41		0.3	Distant
		i			50			
18	KRR	e		52	02		0.2	Distant
	BHA	e	14	49	26		0.6	
	KRR	ei			35	cR	1.8	
	BUL	i			38	C	3.0	
18	CLK	i			42	C	2.1	Witwatersrand
	BUL	iSg	15	01	05		0.4	
18	KRR	eSg		02	52		0.2	Distant
	CLK	eP	16	30	19		0.2	
18	BUL	ipP			22			Distant
	BUL	eP			58		0.3	
		epP		31	04			
	KRR	eP		30	59		0.3	
		ipP		31	05			
	BHA	eP			15		0.4	
		ipP			21			
18	BUL	eSg	17	41	08		0.3	Witwatersrand
	KRR	eSg		42	55		0.2	
18	BUL	ip'	22	25	12	C	0.5	Distant
		ipP'			32			
		eSKP		28	48			
		ePKS		29	02			
		ePKKP		35	22			
	CLK	ip'		25	15	C	0.5	
		ipP'			38			
	KRR	ip'		25	17	rC	0.8	
		ipP'			37			
		eSKP		28	49			
		ePKS		29	06			
		ePKKP		35	12			
	BHA	eiP'		25	22	rC	0.6	
		epP'			41			
	eSKP		28	55				
18	CLK	eiP'	23	54	00	cR	0.4	Distant
		ipP'			05			
		iSKP		57	27			
	BUL	eiP'		54	06	cR	0.6	
		ipP'			10			
		iSKP		57	33			
	KRR	eiP'		54	08	cR	0.8	
		ipP'			13			
		eSKP		57	35			
	BHA	eiP'		54	12	cR	0.5	
		ipP'			17			
	iSKP		57	41				

LIST OF RECORDED PHASES: 19 to 20OCT 1967- 9

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
19	BUL	ePn	02	34	57		0.7	Witwatersrand
		eSn		36	03			
		eS*			17			
		eSg			36			
	KRR	ePn		35	44		0.4	
		eS*		37	52			
		eSg		38	15			
	BHA	eSg		39	31		0.2	
CLK	eSg			42		0.2		
19	BHA	ePn	04	10	11		0.6	N. Lake Tanganyika Area
		eSn		11	44			
		eSg		12	42			
	KRR	ePn		10	44		0.3	
		eSn		12	44			
		eL		13	57			
	CLK	ePn		10	46		0.3	
		eL			14(10)			
BUL	eL		15	47		0.2		
19	BUL	ePn	08	25	07		0.6	Witwatersrand
		eSn		26	22			
		eSg			58			
	KRR	ePn		25	53		0.3	
		eSn		27	42			
	eSg		28	41				
19	CLK	iPn	10	42	48	C	27.	Mt. Hanang Area, Tanzania
		iSg		45	57			
	BHA	ePn		42	57		25.	
		iSn		45	10			
		iSg		46	16			
	KRR	ePn		43	19		24.	
		eSn		45	57			
		iSg		47	06			
	BUL	ePn		44	02		10.4	
		eSn		47	24			
iSg			48	52				
19	BUL	iSg	14	48	30		0.4	Witwatersrand
	KRR	eCg		50	12		0.2	
19	BUL	eP	15	06	47		0.4	Distant
	KRR	eP		07	11		0.3	
	BHA	eP			22		0.3	
19	BUL	eP	15	48	34		0.4	Distant
	KRR	iP			58	C	0.7	
	BHA	eP		49	08		0.4	
	CLK	eP			24		0.3	
19	BUL	eP	19	30	22		0.2	
	KRR	eP			46		0.3	
	BHA	eP			57		0.3	
20	BUL	iP	01	12	10	C	1.7	Distant
	KPR	iP			35	C	3.5	
		eP'P'		42	30			
	BHA	eP		12	45		1.4	
		iP'P'		42	26			
	CLK	iP		13	01	C	0.7	
	eP'P'		42	20				

LIST OF RECORDED PHASES: 20 to 21 OCT 1967- 10

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
20	KRR	ePn	03	06	19		0.4	S. Mocambique.
		eSn		07	27			
		iSg		08	05			
	BUL	iSg		06	45		0.7	
	CIK	eSg		08	04		0.3	
20	BUL	e	10	18	31		0.2	Distant
	KRR	e			43		0.2	
20	CIK	iPn	10	42	08		3.3	Shire-Zambezi confluence
		iSn			28			
		iSg			31			
	KRR	eSg		44	23		0.4	
	BUL	eSg		45	09		0.3	
20	BUL	eSg	15	15	40		0.3	Witwatersrand
	KRR	eSg		17	22		0.2	
20	BUL	e	15	34	56		0.3	Distant
	KRR	e		35	20		0.3	
20	CIK	eP'	16	14	45		0.3	Distant
		eSKP		17	20			
	BUL	iP'		14	46	C	0.4	
		iSKP		17	21			
	KRR	eP'		14	50		0.3	
		eSKP		17	28			
	BHA	eP'		14	56		0.3	
		iSKP		17	36			
		iPKS			44			
20	BUL	e	19	41	01		0.2	Distant
	KRR	e			15		0.2	
	BHA	e			16		0.1	
21	CIK	e	02	17	57		0.2	Distant
		BHA	e		18	19		
	KRR	e			22		0.2	
	BUL	i			36	C	0.3	
21	BUL	iP	02	48	12	C	1.1	Distant
		eSKS		59	04			
	KRR	eP		48	23		1.5	
		iPP		52	06			
	BHA	eP		48	25		0.7	
		ePP		52	05			
21	BHA	iP	05	12	57	C	2.4	Distant
		CIK			59	C	4.8	
		ePP		16	36			
	KRR	iP		13	08	C	2.2	
		ePP		16	48			
	BUL	iP		13	23	C	3.0	
21	CIK	eP	11	12	38		0.5	Distant
		BHA	iP			57	C	
	KRR	iP		13	00	C	0.4	
	BUL	iP			14	C	0.7	
21	BUL	eSg	15	01	59		0.2	Witwatersrand
	KRR	eSg		03	45		0.1	
21	BUL	eP'	18	58	37		0.2	Distant
		KRR	eP'			42		
		eSKP		19	01	55		

LIST OF RECORDED PHASES: 22 to 23 OCT 1967- 11

Date	Stn	Phase	G	M	T	R	BA	Epicentral region; Remarks
			h	m	s	C	mm	
22	BUL	iP	01	04	26	C	3.1	Distant
		ip <sup>P</sup>			34			
		ePP		07	48			
	BHA	iP	04	36		C	1.7	
		ePP	08	05				
	KRR	iP	04	37		C	1.8	
ePP		08	06					
	CLK	iP	05	02		C	0.6	
22	CLK	ePn	10	08	32		2.2	Gorongosa escarpment, Mocambique
		iPg			38			
		eSn	09	11				
		iSg			16			
	KRR	ePn	08	57			3.0	
		iPg	09	13				
		eS*	10	02				
		iSg			15			
	BUL	eP*	09	18			1.9	
		eSn	10	06				
		iSg			36			
	BHA	eSn			44		0.5	
		eSg	11	25				
	23	CLK	eSg	01	12	14		
eSg				13	14		0.2	
BUL		e		14	(50)		0.1	
23	BUL	iPn	03	41	23		1.7	Witwatersrand
		iSg		43	05			
	KRR	ePn	42	09			1.6	
		eSn	43	54				
		iSg	44	49				
	CLK	ePn	42	50			0.6	
eSg		46	20					
23	KRR	e	05	52	55		0.2	Distant
	BUL	e			39		0.3	
23	CLK	e	08	44	45		0.4	Distant
		e		45	30			
	KRR	i		44	55	R	1.3	
		e		46	07			
	BUL	i		44	58	R	0.7	
		e		46	16			
23	BUL	e	11	04	20		0.3	Distant
	KRR	e			32		0.3	
23	CLK	iPn	11	14	36		50.	Central Lake Malawi Area
		iT			57			
		iSn	15	21				
		iSg			42			
	BHA	ePn			14		15.	
		iSn	16	(30)				
	KRR	iPn	15	20			5.8	
		iSn	16	39				
		iSg	17	19				
	BUL	ePn	16	00			5.8	
		iSn	17	48				
	iSg	18	52					
23	BHA	ePn	23	46	31		1.2	N. Lake Malawi
		eSn		47	48			
		iSg		48	24			
	CLK	eSn		47	17		0.6	
		iSg			53			
	KRR	e		48	57		0.3	
	BUL	e		50	41		0.2	

LIST OF RECORDED PHASES: 24 to 25 OCT 1967 - 12

Date	Stn	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	$\bar{C}$	mm		
24	CLK	ePn	00	20	06		3.4	Central Lake Malawi	
		ePg			15				
		eSn			40				
		iSg			53				
	BHA	eSn	21	56			1.7		
	KRR	iSg	22	31					
		eSn	21	56			0.8		
BUL	eSg	22	31						
	eSg	24	00			0.2			
24	BUL	iP'	03	31	51	R	2.6	Distant	
	CLK	eiP'			52	rC	0.4		
	KRR	iP'			56	R	3.0		
	BHA	eP'	32	02			0.5		
24	BUL	eSg	06	50	58		0.3		
24	KRR	e	11	02	32		0.6	Distant	
		e			50				
	BHA	i			38	R	1.2		
	BUL	e			56				
i				39	R	0.7			
24	BUL	e(L)	19	51	56		0.2		
		KRR	e(L)	52	07		0.2		
		BHA	e(L)	(20)			0.1		
24	BUL	eL	22	21	02		0.2		
25	CLK	eP	01	12	33		2.3	Distant	
		iSKS	23	07					
		iS			36				
		ePKKP	29	38					
	BHA	eP	12	57			0.8		
		iSKS	23	35					
		iS	24	03					
		iPKKP	29	24					
	KRR	eP	12	57			0.7		
		ePKKP	29	25					
	BUL	eP	13	07			1.0		
		eSKS	23	46					
		ePKKP	29	16					
25	CLK	eP	06	53	08		0.3	Distant	
	BUL	iP			30	R	0.5		
		ipP			38				
	KRR	eP			39		0.2		
BHA	eP			59		0.2			
25	KRR	e	09	22	30		0.3	Distant	
		e			43				
	BUL	e			33		0.3		
		e			48				
	BHA	e			37		0.2		
25	BHA	e			51			S. Lake Tanganyika area	
		ePn	15	56	35		0.6		
		iSn			57	50			
	KRR	iSg			58	25			
		eSg			59	31			0.2
BUL	iL			40					
BUL	eL	16	01	17		0.1			



LIST OF RECORDED PHASES: 25 to 26 OCT 1967- 13

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
25	BHA	ePn	23	07	47		1.2	S. Manika Plateau, Congo,
		iSn		08	44			
		eSg		09	12			
	KRR	ePn		08	23		0.4	
		iSn		09	16			
	CLK	eSg		10	(30)			
	CLK	cS		10	57		0.3	
		eL		12	13			
26	CLK	eiP	00	35	34	cR	0.5	Distant
	KRR	e P			56		0.3	
	BHA	eiP			57	cR	0.3	
	BUL	eiP		36	07	cR	0.4	
26	PHA	e	05	04	42		0.2	Distant
	CLK	e			52		0.3	
	KRR	e			59		0.4	
	BUL	i		05	24	R	0.4	
26	BUL	i	05	23	13	C	0.4	Distant
26	CLK	ePn	08	10	37		0.8	S. Tanzania
		eSn		11	28			
		iSg		12	06			
	KRR	e		11	50		0.4	
		eL		13	57			
	BHA	eS		12	44		0.4	
		iL		13	50			
26	CLK	iPg	11	31	18		11.5	Mlanje Area, Mocambique,
		iSg			32			
	KRR	ePn		32	25		0.4	
		eSg		34	03			
	BHA	eSg			44		0.3	
BUL	eSg			53		0.3		
26	BUL	eSg	12	13	25		0.2	
26	KRR	iP	12	42	51	C	70.	Kariba. Belt MM III at Kariba
		iS		43	05			
	MHA	ePn			05			
	BUL	eiPn			23	rC	18.	
		iPg			34			
		iS*		44	10			
	CLK	ePn			03		5.7	
	iSn		45	12				
		iSg			44			
26	KRR	i	17	33	36	C	0.4	Distant
	BHA	e			46		0.2	
	BUL	e			47		0.2	
26	CLK	iP'	17	35	02	C	0.7	Distant
	KRR	iP'			26	C	0.5	
		iSKP		39	14			
	BUL	eiP'		35	30	cR	1.0	
		ipP'			38			
	BHA	eiP'			31	cR	0.6	
		eSKP		39	24			
26	BHA	e	20	31	54		0.3	Distant
		i		32	01			
	KRR	e			04		0.2	

LIST OF RECORDED PHASES: 27 to 28 OCT 1967 - 14

Date	Sta	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
27	BUL	e	00	47	24		0.2	Distant	
	KRR	e			38		0.2		
	BHA	ei			40	cR	0.3		
27	KRR	e	01	20	52		0.2	Distant	
	BHA	e		21	03		0.1		
27	BUL	eSg	07	01	09		0.2		
27	BUL	e(L)	08	15	02		0.2		
27	BUL	eP	13	06	36		0.4	Distant	
	KRR	eP		07	01		0.3		
	BHA	eP			12		0.5		
	CLK	eP			34		0.2		
27	BUL	eSg	14	58	30		0.2	Witwatersrand	
27	BHA	iPn	20	05	40		2.5	Lake Upemba area, Congo	
		eSn		06	46				
		iSg		07	21				
	KRR	ePn		06	15		1.2		
		eSn		07	46				
		eL		08	44				
	CLK	eP		06	41		0.6		
		iL		09	46				
	BUL	iL		10	18		0.4		
	27	BHA	ePn	21	19	26			4.4
iSn				21	56				
iSg				23	03				
iL					14				
KRR		ePn		20	02		1.5		
		eSn		22	54				
		iSg		24	19				
CLK		ePn		20	07		1.1		
		eSn		22	58				
		eSgSg		24	28				
BUL	eP		20	45		0.6			
	iSgSg		26	01					
28	CLK	eP	00	08	34		0.2	Distant	
		KRR		09	18		0.3		
		ipP			25				
	BUL	eP			25		0.3		
	BHA	iP			29	C	0.3		
28	BUL	eSg	13	18	04		0.2		
28	BUL	iSg	18	46	33		0.4	Witwatersrand	
	KRR	eSg		48	16		0.2		
28	BHA	e	18	54	35		0.2	Distant	
	KRR	ei			47	cR	0.3		
	BUL	e			49		0.2		
28	BHA	eL	23	20	01		0.2		
	KRR	eL		21	08		0.2		

LIST OF RECORDED PHASES: 30 to 31 OCT 1967 - 16

Date	STN	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	$\bar{C}$	mm	
30	BHA	eP	19	59	28	-	1.0	Lake Albert area, Uganda
		eL	20	04	20			
	CLK	eP	19	59	46	-	0.7	
		eL	20	04	51			
	KRR	eP	19	59	57	-	0.6	
		eL	20	05	22			
	BUL	iP		00	34	C	0.4	
eL			07	18				
30	BHA	eP	21	26	31	-	1.0	Lake Albert area, Uganda
		iL		31	25			
	CLK	eP		26	50	-	0.7	
		eL		31	57			
	KRR	eP		26	59	-	0.5	
		eL		32	26			
	BUL	eiP		27	36	cR	0.3	
eL			34	28				
30	BHA	eL	21	46	31	-	0.4	Lake Albert area, Uganda
		eL		47	02	-	0.3	
		eL			29	-	0.3	
		eL		49	(20)	-	0.2	
31	BHA	eSn	04	58	01	-	0.8	Lake Rukwa, Tanzania
		iSg			40			
	KRR	eSn			40	-	0.3	
		eSg		59	32			
	CLK	eSg			08	-	0.3	
	BUL	eL	05	01	30	-	0.2	
31	BHA	eP	13	54	55	-	3.7	Lake Albert area, Uganda
		eS		57	51			
		iSgSg		59	42			
	CLK	eP		55	13	-	2.2	
		eS		58	20			
		iSgSg	14	00	21			
	KRR	eP	13	55	23	-	1.4	
		eS		58	42			
		eSgSg	14	00	46			
	BUL	eP	13	55	59	-	0.6	
eL		14	02	37				
31	BHA	eL	14	12	42	-	0.4	Lake Albert area, Uganda
		eL		13	18	-	0.3	
		eL			43	-	0.3	
31	BUL	eSg	15	42	54	-	0.2	
31	BHA	eP	21	17	28	-	0.4	Distant
		eP			46	-	0.6	
		eP			51	-	0.3	
		eP		18	04	-	0.4	
		e			56			
31	BHA	eL	22	38	00	-	0.2	Lake Albert area, Uganda
		eL			42	-	0.2	
		eL		39	(00)	-	0.2	

LIST OF RECORDED PHASES: 29 to 30 OCT 1967 - 15

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks		
			h	m	s	C	mm				
29	BHA	ePn	01	29	18	-	3.2	Mweru Swamp, Zambia			
		iSn		30	21						
		iSg			53						
	KRR	iPn		29	50	-	2.1				
		iSn		31	15						
		iSg		32	04						
	CLK	ePn		29	57	-	0.8				
		eSn		31	29						
		iSg		32	21						
	BUL	ePn		30	33	-	0.4				
eSn			32	32							
eL			33	49							
29	KRR	e	03	20	04	-	0.3	Distant			
	BHA	e			14	-	0.3				
29	BUL	eP	12	46	46	-	2.0	Distant			
	KRR	eP		47	10	-	2.3				
	BHA	eP			21	-	0.6				
	CLK	eP			37	-	0.6				
29	KRR	eP	19	13	35	-	0.2	Distant			
	BHA	eP			35	-	0.2				
	BUL	eP			50	-	0.2				
29	BUL	ePn	22	13	15	-	1.2	Witwatersrand			
		eSn		14	22						
		iSg			52						
	KRR	ePn			02	-	0.8				
		eSn		15	45						
		eSg		16	39						
	BHA	eP		14	30	-	0.3				
		eL		17	52						
	CLK	eL		18	00	-	0.3				
	30	CLK	eP	06	15	44	-		0.4	Distant	
BHA		iP			56	C	0.3				
KRR		iP		16	04	C	0.7				
BUL		eP			22	-	0.4				
30	CLK	ePn	06	41	18	-	3.3	S. Highlands, Tanzania.			
		iSn		42	31						
		iSg		43	08						
	BHA	ePn		41	34	-	2.8				
		iSn		42	56						
		iSg		43	41						
	KRR	ePn		41	49	-	1.9				
		eSn		43	21						
		eSg		44	13						
	BUL	ePn		42	34	-	1.3				
		eSn		44	52						
		iSg		45	56						
	30	BUL	eSg	15	45	37	-		0.3	Witwatersrand	
		KRR	eSg		47	25	-		0.2		
30	BHA	eL	19	09	06	-	0.3				
	CLK	eL			(20)	-	0.2				
	KRR	eL		10	02	-	0.2				

LIST OF RECORDED PHASES: 30 to 31 OCT 1967 - 16

Date	STN	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
30	BHA	eP	19	59	28	-	1.0	Lake Albert area, Uganda
		eL	20	04	20			
	CLK	eP	19	59	46	-	0.7	
		eL	20	04	51			
	KRR	eP	19	59	57	-	0.6	
		eL	20	05	22			
BUL	iP		00	34	C	0.4		
	eL		07	18				
30	BHA	eP	21	26	31	-	1.0	Lake Albert area, Uganda
		iL		31	25			
	CLK	eP		26	50	-	0.7	
		eL		31	57			
	KRR	eP		26	59	-	0.5	
		eL		32	26			
BUL	eIP		27	36	cR	0.3		
	eL		34	28				
30	BHA	eL	21	46	31	-	0.4	Lake Albert area, Uganda
		eL		47	02	-	0.3	
		eL			29	-	0.3	
		eL		49(20)		-	0.2	
31	BHA	eSn	04	58	01	-	0.8	Lake Rukwa, Tanzania
		iSg			40			
	KRR	eSn			40	-	0.3	
		eSg		59	32			
	BUL	eL	05	01	30	-	0.2	
31	BHA	eP	13	54	55	-	3.7	Lake Albert area, Uganda
		eS		57	51			
		iSgSg		59	42			
	CLK	eP		55	13	-	2.2	
		eS		58	20			
		iSgSg	14	00	21			
	KRR	eP	13	55	23	-	1.4	
		eS		58	42			
		eSgSg	14	00	46			
	BUL	eP	13	55	59	-	0.6	
eL		14	02	37				
31	BHA	eL	14	12	42	-	0.4	Lake Albert area, Uganda
		eL		13	18	-	0.3	
		eL			43	-	0.3	
31	BUL	eSg	15	42	54	-	0.2	
31	BHA	eP	21	17	28	-	0.4	Distant
		eP			46	-	0.6	
		eP			51	-	0.3	
		eP		18	04	-	0.4	
		e			56			
31	BHA	eL	22	38	00	-	0.2	Lake Albert area, Uganda
		eL			42	-	0.2	
		eL		39(00)		-	0.2	

Vavembe

P.D.  
V.W.

RHODESIA METEOROLOGICAL SERVICES

SEISMOLOGICAL BULLETIN

78 MAR 1968

The following stations contribute records for analysis and publication in this Bulletin:

- KABWE (BHA):** 14° 26.8' S; 28° 28.1' E; Alt. 1206 m.  
 (Broken Hill)  
**Litho. foundation:** Dolomite and Shales of the Middle Katanga System.  
**Authority:** Zambia Meteorological Service.  
**Instrument:** Three component Willmore one-second seismograph.  
 Nominal magnification 20,000.
  - CHIEKA (CLK):** 15° 40.8' S; 34° 58.6' E; Alt. 781 m.  
**Litho. foundation:** Charnockitic granulites of the Basement Complex.  
**Authority:** Malawi Meteorological Service.  
**Instrument:** Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.
  - KAROI (KRR):** 16° 51.1' S; 29° 37.1' E; Alt. 1380 m.  
**Litho. foundation:** Granitic gneisses of the Zambesi type.  
**Authority:** Rhodesia Meteorological Services.  
**Instrument:** Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.
  - BULAWAYO (BUL):** 20° 08.6' S. 28° 36.8' E. Alt. 1341 m.  
**Litho. foundation:** Hornblend schists of the Bulawayan System.  
**Authority:** Rhodesia Meteorological Services.  
**Instruments:** Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.
- WWSSS Station: SP magnification 100,000  
                   IP magnification 1,500

Analysis Centre: Goetz Observatory. Meteorological Service,  
P.O. Box 562, Bulawayo, Rhodesia.

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Date	G M T h m s	Epicentre; Remarks	Mag CGS
X 01	05 38 08	26.2S 27.7E; Witwatersrand	3.0
X 01	09 00 40	12.4S 26.4E; W. Copperbelt, Zambia.	2.5
X 01	12 00 24	27.1S 27.2E; Witwatersrand	3.0
X 01	14 18 34	26.3S 27.7E; Witwatersrand	2.7
01	14 59 59	USCGS 23.0S 176.8W; S. of Fiji Is.	5.3
01	16 09 17	USCGS 48.2N 154.4E; Kurile Is.	5.3
01	16 30 57	USCGS 48.3N 154.4E; Kurile Is.	5.5
01	16 55 43	USCGS 30.7N 113.4W; Gulf of California	4.3
01	17 20 24	USCGS 20.5S 179.3W; Fiji Is. region	4.9
01	18 56 55	USCGS 4.8S 135.7E; W. New Guinea region	5.8
X 01	19 15 09	15.6S 27.4E; Kafue Flats, Zambia	2.2
01	19 17 25	USCGS 37.1N 141.3E; Near E. Coast of Honshu, Japan	4.7
02	03 32 25	USCGS 28.8S 69.5W; Chile-Argentina Border reg.	5.3
02	06 52 25	USCGS 30.8S 178.5W; Kermadec Is. region	3.9
X 02	15 20 57	1N 31E; Uganda	4.1
03	07 32 50	USCGS 18.7S 169.0E; New Hebrides Is.	5.3
03	20 06 56	USCGS 21.9S 69.2E; Mid-Indian Rise	4.9
X 03	20 48(20)	22S 33E; Sul do Save Province, Mocambique	2.5
X 03	21 34 30	3S 29E; N. of Lake Tanganyika	3.6
03	22 37 50	USCGS 56.1S 27.2W; S. Sandwich Is. region	5.4
04	05 07 18	USCGS 24.3N 122.2E; Taiwan region	5.0
04	10 17 15	USCGS 17.8S 179.0W; Fiji Is. region	-
04	14 30 37	USCGS 43.5N 144.1E; Hokkaido, Japan region	5.8
04	14 46 02	USCGS 43.5N 144.0E; Hokkaido, Japan region	5.4
04	16 26 48	USCGS 2.8S 77.7W; Peru-Ecuador Border region	6.0
X 05	00 33 33	16.6S 28.6E; Kariba	2.0
X 05	06 12 06	3S 29E; N. of Lake Tanganyika	4.4
05	13 56 20	USCGS 46.9S 34.6E; Prince Edward Is. region	4.4
X 06	17 26 10	26.4S 27.8E; Witwatersrand	2.8
06	21 05 47	USCGS 21.9S 63.7W; S. Bolivia	4.0
06	21 32 57	USCGS 17.7S 178.7W; Fiji Is. region	4.5
07	03 49 17	USCGS 14.9S 173.0W; Samoa Is. region	5.6
07	08 28 25	USCGS 56.2S 26.8W; S. Sandwich Is. region	5.1
07	14 32(50)	O.F.S. Goldfields	2.5
07	19 57 26	USCGS 37.0N 71.7E; Afghanistan-USSR Border reg.	5.3
08	03 10 53	USCGS 16.8N 85.9W; Caribbean Sea	5.4
X 08	04 29 22	6S 29E; Central Lake Tanganyika Area	3.7
08	06 07 21	USCGS 5.3S 134.0E; Arde Is. region	5.9
X 08	14 39 52	26.3S 27.3E; Witwatersrand	2.8
08	17 09 27	USCGS 51.1N 178.5E; Rat Is. Aleutians	5.3

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Date	G h	M m	T s	Epicentre:	Remarks	Mag CGS
08	17	22	32	USCGS 51.1N 178.4E;	Rat Is., Aleutians	5.2
X 08	17	35	03	16.6S 28.5E;	Kariba	2.1
09	02	18	45	USCGS 7.2S 123.6E;	Banda Sea	5.8
09	07	47	16	USCGS 54.8N 162.1W;	Alaska Peninsula	4.7
X 09	13	55	55	26.5S 27.2E;	Witwatersrand	2.9
X 09	14	14	06	26.6S 27.6E;	Witwatersrand	2.7
09	18	19	35	USCGS 35.5N 140.4E;	Nr. E. Coast Honshu, Japan	5.3
10	04	40	15	USCGS 45.1N 28.1W;	N. Atlantic Ridge	4.8
10	05	12	01	USCGS 45.0N 28.1W;	N. Atlantic Ridge	4.4
10	06	04	09	USCGS 25.5N 91.7E;	India-E. Pakistan Border reg.	4.4
10	07	28	54	USCGS 5.9S 113.1E;	Java Sea	5.2
X 10	10	09	52	28.3S 26.6E;	O.F.S. Goldfields	3.0
10	13	11	18	USCGS 18.0S 178.5W;	Fiji Is. region	5.0
10	18	38	38	USCGS 6.0S 71.4E;	Chagos Archipelago region	5.4
X 10	19	34	14	26.5S 27.6E;	Witwatersrand	3.0
X 11	01	26	56	26.5S 27.2E;	W. Witwatersrand	3.5
X 11	02	28	46	2N 32E;	Uganda	5.1
X 11	06	33	11	12.1S 26.4E;	W. Copperbelt, Zambia	2.8
X 11	09	45	08	15.8S 30.9E;	W. Tete Province, Mocambique	3.2
11	11	55	56	USCGS 6.0S 71.4E;	Chagos Archipelago region	5.6
11	12	14	57	USCGS 6.0S 71.3E;	Chagos Archipelago region	5.7
X 11	13	03	11	26.6S 27.6E;	Witwatersrand	3.0
X 11	13	19	26	26.5S 27.4E;	Witwatersrand	2.6
11	13	34(40)		O.F.S. Goldfields		3.0
11	15	05	10	USCGS 6.1S 71.3E;	Chagos Archipelago region	5.3
11	17	42	18	USCGS 6.1S 71.5E;	Chagos Archipelago region	5.4
11	18	00	01	USCGS 6.1S 71.4E;	Chagos Archipelago region	5.7
11	19	07	32	USCGS 6.1S 71.1E;	Chagos Archipelago region	4.9
11	20	18	11	USCGS 6.0S 71.3E;	Chagos Archipelago region	5.4
X 11	23	21	50	7S. 31E;	Sagara Swamp, Tanzania	4.4
12	02	27	17	USCGS 44.8N 149.8E;	Kurile Is.	5.5
12	10	36	52	USCGS 17.2S 172.0W;	Tonga Is. region	5.6
12	10	40	36	USCGS 36.3N 71.4E;	Afghanistan-USSR Border reg.	5.1
X 12	11	27	11	8.9S 34.0E;	S. Highlands, Tanzania	3.6
12	12	32	43	USCGS 6.1N 95.2E;	Nicobar Is. region	4.7
12	17	24	32	USCGS 22.8S 170.7E;	Loyalty Is. region	5.1
12	18	55	08	USCGS 3.1N 126.9E;	Talau Is.	5.4
12	21	59	51	USCGS 25.2S 177.2W;	S. of Fiji Is.	4.9
X 13	01	50	56	16.6S 28.5E;	Kariba	2.3
X 13	04	20	26	17.3S 35.2E;	Zambesi-Shire Confluence	2.6



## LIST OF RECORDED PHASES: 09 to 11 NOV 1967 - 6

Date	STN	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
09	CLK	eP'	08	06	38		0.2	Distant	
	KVL	eP'			42		0.3		
		iSKP		10	15				
	BUL	iP'		06	48	C	1.2		
		eSKP		10	24				
09	BUL	iSg	13	58	11		0.4	Witwatersrand	
	KRR	eSg	14	00	52		0.2		
09	BUL	eSg	14	17	18		0.3	Witwatersrand	
	KRR	eSg		19	06		0.2		
09	KRR	e	18	38	11		0.2	Distant	
		e			32				
	BUL	i			17	C	0.2		
		e			38				
		i		39	35				
10	KRR	e	04	52	26		0.2	Distant ?	
	BUL	e			37		0.2		
10	KRR	e	05	24	14		0.2	Distant?	
	BUL	e			28		0.1		
10	CLK	eP	06	15	10		0.4	Distant	
		ipP			16				
	KRR	eP			38		0.3		
		ipP			45				
	BUL	eP			53		0.2		
10	CLK	iL	06	35	33		0.4		
	KRR	eL			34		0.3		
	BUL	eL		39	53		0.2		
10	CLK	eP	07	39	49		0.2	Distant	
	KRR	eP		40	17		0.5		
	BUL	eP			20		0.6		
10	BUL	iSg	10	14	01		0.3	Witwatersrand	
	KRR	eSg		15	44		0.2		
10	BUL	e	13	29	31		0.4	Distant	
	KRR	e			33		0.3		
10	CLK	iP	18	45	45	R	1.7	Distant	
		ipP			52				
	KRR	iP			28	R	1.6		
		ipP			39				
		i		52	27				
	BUL	iP		46	41	R	0.7		
		epP			49				
		i		52	38				
10	BUL	iSg	19	37	26		0.6	Witwatersrand	
	KRR	eSg		39	08		0.2		
11	BUL	iPn	01	28	31		1.5	Witwatersrand	
		eSn		29	40				
		iS*			55				
		iSg		30	12				
	KRR	ePn		29	16		0.5		
		eSn		31	58				
		eSg		32	53				
	CLK	eSg		33	28		0.3		

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Date	G h	M m	T s	Epicenter:	Remarks	Mag CGS
X 13	14	20	16	16.1S 35.1E;	Shire Valley, Malawi	2.2
X 13	14	46	40	12.9S 42.5E;	Comoro Is. region	3.8
13	16	05	47	USCGS 10.4N 85.7W;	Costa Rica	4.6
13	16	14	18	Witwatersrand		2.4
X 13	19	56	52	26.5S 27.1E;	W. Witwatersrand	2.6
X 13	20	06	16	26.4S 27.4E;	Witwatersrand	3.0
X 13	20	29	06	2N 32E;	Uganda	4.8
14	00	04	18	USCGS 24.0N 91.5E;	India-E. Pakistan Border reg.	5.1
X 14	00	32	11	26.4S 27.7E;	Witwatersrand	2.8
14	13	38	08	USCGS 51.9N 178.1E;	Rat Is., Aleutians	4.9
15	07	36	36	USCGS 6.2N 123.7E;	Mindanao, Philippine Is.	5.2
X 15	17	09	52	26.5S 28.1E;	Witwatersrand	2.8
X 15	19	32	40	27.0S 26.5E;	W. Witwatersrand	2.5
X 15	19	35	46	USCGS 30.7N 51.4E;	Iran	4.6
15	21	31	51	USCGS 28.7S 71.2W;	Near Coast of Central Chile	6.2
X 16	18	04	38	26.6S 27.1E;	W. Witwatersrand	2.4
17	07	49	03	USCGS 24.5S 68.5W;	Chile-Argentina Border reg.	4.6
17	09	19	21	USCGS 6.3S 154.9E;	Solomon Is.	5.1
17	10	10	05	USCGS 13.7S 167.3E;	New Hebrides Is.	4.5
X 17	11	28	22	26.4S 27.8E;	Witwatersrand	2.8
X 17	14	01	24	26.5S 27.4E;	Witwatersrand	3.1
X 17	14	29	18	26.5S 27.4E;	Witwatersrand	3.1
X 17	16	09	35	22.7S 38.2E;	S. Mocambique Channel	3.7
X 17	16	54	02	6.9S 30.7E;	N. Fipa Plateau, Tanzania	3.3
17	18	31	14	USCGS 21.6S 68.2W;	Chile-Bolivia Border region	4.7
X 17	20	38	44	26.0S 26.1E;	Witwatersrand	2.8
18	02	31	35	USCGS 35.2N 23.1E;	Crete	4.5
X 18	03	38	43	11.9S 34.9E;	Central Lake Malawi	4.1
X 18	15	46	40	16.9S 27.3E;	Kariba	2.3
18	21	41	58	USCGS 22.1S 179.6W;	S. of Fiji Is.	4.3
19	12	06	59	USCGS 36.4N 141.1E;	Nr. E. Coast of Honshu, Japan	5.5
19	15	41	10	USCGS 21.5S 179.3W;	Fiji Is. region	4.4
19	17	29	21	USCGS 22.6S 170.9E;	Loyalty Is. region	5.2
X 20	01	58	56	16.6S 28.6E;	Kariba	2.2
X 20	02	34	45	26.3S 27.6E;	Witwatersrand	3.2
20	10	48	32	USCGS 32.0N 140.9E;	S. of Honshu, Japan	5.0
X 20	14	45	32	26.3S 27.3E;	Witwatersrand	2.8
X 21	00	13	15	23.9S 31.2E;	Phalaborwa, E. Transvaal	2.9
X 21	00	14	32	23.9S 31.2E;	Phalaborwa, E. Transvaal	2.4
21	08	53	22	USCGS 0.1N 17.1W;	N. of Ascension Is.	4.8

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
21	15	36	41	USCGS 20.5S 66.3W; S. Bolivia	4.4
21	17	02	25	USCGS 72.7N 8.5E; Norwegian Sea	5.5
X 21	17	09	27	26.6S 27.4E; Witwatersrand	2.4
X 21	19	00	00	14S 23E; N. Barotseland	2.6
21	21	50	24	USCGS 48.2N 27.8W; N. Atlantic Ridge	5.0
X 21	22	55	58	26.3S 27.0E; Witwatersrand	2.8
22	10	33	15	USCGS 59.6S 26.4W; S. Sandwich Is. region	5.2
22	14	43	11	USCGS 9.9S 120.5E; Sumba Is. region	5.1
22	15	19	27	USCGS 22.7S 170.9E; Loyalty Is. region	5.2
22	22	04	00	USCGS 6.0S 130.3E; Banda Sea	5.5
X 23	01	00	51	26.4S 27.2E; Witwatersrand	2.9
23	06	56	48	USCGS 24.1S 67.2W; Chile-Argentina Border reg.	3.9
23	08	35	49	USCGS 14.5N 52.1E; E. Gulf of Aden	-
23	13	42	02	USCGS 80.2N 1.0W; N. of Svalbard	5.8
X 23	17	24	36	26.3S 27.3E; Witwatersrand	2.8
24	05	42	14	USCGS 16.4S 177.9W; Fiji Is. region	5.4
24	18	32	33	USCGS 52.8N 166.9W; Fox Is., Aleutians	4.2
X 24	19	12	31	26.5S 27.4E; Witwatersrand	2.4
X 25	07	55	44	26.0S 28.1E; Witwatersrand	3.4
25	16	01	46	USCGS 14.6N 52.1E; E. Gulf of Aden	4.8
X 25	21	26	28	9.1S 40.2E; Offshore N. Mocambique	4.1
25	21	51	58	USCGS 55.3S 29.1W; S. Sandwich Is. region	5.4
26	00	08	10	USCGS 28.6N 130.0E; Ryukyu Is.	5.7
26	02	53	58	USCGS 8.1S 112.9E; Java	5.7
26	03	49	37	USCGS 55.2S 29.2W; S. Sandwich Is. region	5.3
26	08	11	06	USCGS 56.6N 152.2W; Kodiak Is. region	4.9
26	10	53	22	USCGS 1.9S 127.8E; Halmahera	5.5
26	11	55	53	USCGS 22.9S 171.4E; Loyalty Is. region	4.7
26	15	14	54	USCGS 13.1N 90.1W; Near Coast of Guatemala	4.4
26	18	09	06	USCGS 39.5S 71.7W; S. Chile-Argentina Border reg.	4.2
27	05	13	13	USCGS 30.8S 71.0W; Near Coast of Central Chile	5.4
27	08	18	42	USCGS 21.3S 174.3W; Tonga Is.	5.4
27	10	46	49	USCGS 13.0S 67.1E; Mid-Indian Rise	5.2
27	13	04	16	USCGS 14.1N 52.0E; E. Gulf of Aden	5.1
X 27	13	41	42	3S 28E; Kivu Province, Congo	4.3
X 27	16	03	12	28.3S 26.5E; O.F.S. Goldfields	3.7
27	19	17	28	USCGS 31.5S 68.5W; San Juan Province, Argentina	4.4
27	20	17	49	USCGS 12.6S 66.4E; Mid-Indian Rise	5.1
27	21	03	20	USCGS 12.7S 66.4E; Mid-Indian Rise	4.8
28	02	21	56	USCGS 6.1S 71.4E; Chagos Archipelago region	5.1

## LIST OF RECORDED PHASES: 09 to 11 NOV 1967 - 6

Date	STN	Phase	G h	M m	T s	R C	DA mm	Epicentral region	Remarks
09	CLK	eP'	08	06	38		0.2	Distant	
	KRL	eP'			42		0.3		
		iSKP		10	15				
	BUL	iP'	06	48		C	1.2		
		eSKP		10	24				
09	BUL	iSg	13	58	11		0.4	Witwatersrand	
	KRR	eSg	14	00	52		0.2		
09	BUL	eSg	14	17	18		0.3	Witwatersrand	
	KRR	eSg		19	06		0.2		
09	KRR	e	18	38	11		0.2	Distant	
		e			32				
	BUL	i			17	C	0.2		
		e			38				
		i		39	35				
10	KRR	e	04	52	26		0.2	Distant ?	
	BUL	e			37		0.2		
10	KRR	e	05	24	14		0.2	Distant?	
	BUL	e			28		0.1		
10	CLK	eP	06	15	10		0.4	Distant	
		ipP			16				
	KRR	eP			38		0.3		
		ipP			45				
	BUL	eP			53		0.2		
10	CLK	iL	06	35	33		0.4		
	KRR	eL			34		0.3		
	BUL	eL		39	53		0.2		
10	CLK	eP	07	39	49		0.2	Distant	
	KRR	eP		40	17		0.5		
	BUL	eP			20		0.6		
10	BUL	iSg	10	14	01		0.3	Witwatersrand	
	KRR	eSg		15	44		0.2		
10	BUL	e	13	29	31		0.4	Distant	
	KRR	e			33		0.3		
10	CLK	iP	18	45	45	R	1.7	Distant	
		ipP			52				
	KRR	iP			28	R	1.6		
		ipP			39				
		i		52	27				
	BUL	iP		46	41	R	0.7		
		epP			49				
	i		52	38					
10	BUL	iSg	19	37	26		0.6	Witwatersrand	
	KRR	eSg		39	08		0.2		
11	BUL	iPn	01	28	31		1.5	Witwatersrand	
		eSn		29	40				
		iS*			55				
		iSg		30	12				
	KRR	ePn		29	16		0.5		
		eSn		31	58				
		eSg		32	53				
	CLK	eSg		33	28		0.3		

NOV 1967

Date	G h	M m	T s	Epicentre:	Remarks	Mag CGS
28	02	36	54	USCGS 32.1N 130.8E;	Kyushu, Japan	5.6
X 28	09	51	04	26.3S 27.7E;	Witwatersrand	3.3
X 28	13	49	14	26.4S 27.8E;	Witwatersrand	3.5
28	16	41	40	USCGS 23.3S 65.6W;	Jujuy Province, Argentina	-
X 28	18	06	07	19.8S 33.8E;	Cent. Manica Province, Mocambique	2.3
28	20	19	37	USCGS 56.6N 152.1W;	Kodiak Is. region	4.5
29	04	07	37	USCGS 4.9S 153.2E;	New Ireland region	4.8
X 29	05	27	13	3N 33E;	Uganda	4.3
X 29	05	32	09	3N 33E;	Uganda	4.9
29	08	09	27	USCGS 55.9S 26.1W;	S. Sandwich Is. region	-
29	13	24	47	USCGS 23.5S 179.8W;	S. of Fiji Is.	4.8
29	15	03	38	USCGS 53.6S 6.1E;	Bouvet Is. region	5.4
X 29	22	50	39	12.0S 26.9E;	W. Copperbelt, Zambia	3.2
30	03	23	36	USCGS 0.3S 125.1E;	Molucca Sea	5.0
30	07	23	51	USCGS 41.5N 20.5E;	Albania	6.0
30	07	42	53	USCGS 41.3N 20.5E;	Albania	4.8
30	11	44	39	USCGS 42.9N 77.4E;	Alma-Ata region	5.1
X 30	14	23	39	26.1S 28.0E;	Witwatersrand	2.5
30	15	47	44	USCGS 17.9S 178.3W;	Fiji Is. region	4.7

LIST OF RECORDED PHASES: 01 to 01 NOV 1967 - 1

Date	STN	Phase	G h	M m	T s	R C	DA mm	Epicentral region	Remarks
01	BUL	ePn	05	39	38		0.5	Witwatersrand	
		eSn		40	48				
		iSg		41	13				
	KRR	ePn		40	24		0.3		
		eSn		42	07				
		eSg		43	01				
01	BHA	ePn	09	01	24		2.3	W. Copperbelt, Zambia	
		iPg			30				
		eSn			57				
	KRR	iSg		02	03				
		ePn		01	55		0.3		
		eSn		02	52				
	BUL	iL		03	23				
	eL		04	52		0.2			
01	BUL	eSg	11	36	13		0.3	Witwatersrand	
01	BUL	eSg	12	03	58		0.4	Witwatersrand	
	KRR	eSg		05	47		0.2		
01	BUL	eSg	14	21	41		0.3	Witwatersrand	
	KRR	eSg		23	27		0.2		
01	BUL	eP'	15	18	55		0.5	Distant	
		iSKP		22	07				
	KRR	eP'		18	59		0.3		
		eSKP		22	14				
	BHA	eP'		19	04		0.3		
		eSKP		22	23				
	CLK	eSKP			07		0.3		
01	BHA	e	16	28	12		0.2	Distant	
	KRR	e			13		0.3		
	BUL	e			19		0.2		
01	BHA	i	16	49	53	R	0.3	Distant	
		i			55	R	0.5		
	BUL	i		50	01	R	0.3		
01	KRR	ei	17	15	07	rC	0.3	Distant	
	BUL	e			09		0.2		
01	BUL	eiP'	17	38	25	cR	1.1	Distant	
		iSKP		40	51				
	KRR	eP'		38	29		1.2		
		iSKP		40	58				
	BHA	eP'		38	35		0.4		
		eSKP		41	07				
	CLK	eSKP		40	51		0.3		
01	BUL	e	19	14	53		0.2	Distant?	
	KRR	e		15	14		0.3		
	BHA	e			25		0.2		
01	BHA	eP	19	15	35		2.2	Kafue Flats, Zambia	
		iS			54				
	KRR	ePn			50		1.8		
		iSn		16	16				
		iSg			21				
	BUL	iSg		17	35		0.3		
01	BHA	e	19	36	03		0.1	Distant	
	KRR	e			03		0.2		
	BUL	ei			09	cR	0.5		

## LIST OF RECORDED PHASES: 02 to 03 NOV 1967 - 2

Date	STN	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
02	BUL	e	03	45	03		0.3	Distant
		e			33			
	KRR	i			16	0	0.3	
		i			46			
	BHA	e			18		0.1	
02	BUL	e	07	10	44		0.2	Distant
		e			49			
	KRR	e			47		0.3	
		e			52			
02	BHA	eP	15	24	36		0.9	Uganda
		eL			29 07			
	CLK	eP			24 52		0.5	
		eL			29 47			
	KRR	eP			25 00		0.5	
		eL			30 11			
	BUL	eP			25 36		0.3	
	eL			31 46				
03	BUL	e	02	06	20		0.2	Distant
	KRR	e			27		0.2	
	BHA	e			36		0.1	
03	KRR	e	06	03	49		0.2	Distant
	BUL	e			50		0.2	
03	CLK	eP'	07	51	22		0.5	Distant
		ePKKP	08	01	13			
	BUL	eIP'	07	51	25	alt	0.7	
		ePP			52 21			
		ePKKP	08	01	04			
	KRR	eP'	07	51	28		0.8	
		ePP			52 33			
		ePKKP	08	00	59			
	BHA	eP'	07	51	33		0.4	
		eSKP			54 36			
03	BUL	eIP	10	24	04	ro	0.5	Distant
	KRR	eIP			33	ro	0.5	
	BHA	eIP			50	ro	0.3	
03	KRR	e	20	14	10		0.4	Distant
	BUL	e			12		0.2	
	BHA	e			25		0.2	
03	BUL	eSn	20	50	19		0.4	Sul du Save Province, Mozambique.
		eSg			42			
	KRR	eSg			51 24		0.3	
	BHA	eSg			52 49		0.1	
03	BHA	ePn	21	37	13		0.5	N. of Lake Tanganyika
		iSn			39 12			
		iSg			40 22			
		eL			28			
	KRR	eSn			15		0.3	
		eSg			41 41			
	BUL	eL			43 28		0.2	

## LIST OF RECORDED PHASES: 03 to 04 NOV 1967 - 3

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
03	BUL	iP	22	47	04	C	1.7	Distant	
		ipP			36				
		iS		54	33				
	KRR	iP			27	C	1.8		
		ipP			59				
	BHA	eP'P'	23	17	16	C	0.9		
		iP	22	47	36				
ipP			48	08					
eS			55	37					
	eSKS		57	24					
	eP'P'	23	17	13					
04	KRR	e	02	33	25		0.2	Distant	
	BHA	e			25		0.2		
	BUL	e			39		0.2		
04	KRR	e	05	20	51		0.2	Distant	
	BHA	e			51		0.1		
	BUL	e		21	01		0.2		
04	BUL	eP'	10	35	30		2.8	Distant	
		iSKP		32	08				
		ePKKP		47	21				
	KRR	eP'		35	34		5.2		
		ePP		36	42				
		iSKP		38	14				
	BHA	ePKKP		47	15				
		eP'		35	41		2.5		
		eSKP		38	21				
		ePKKP		47	11				
04	BHA	eL	12	32	46		0.4	Uganda	
	KRR	eL		33	52		0.3		
04	BHA	e	13	45	30		0.2		
		e			30		0.2		
	BUL	e		46	58				
		i		45	34	C	0.4		
04	BHA	e		46	59			Distant	
		eP'	14	49	23		0.3		
		ePP		50	40				
	KRR	ePKKP		59	45				
		iP'		49	25	C	0.5		
		ePP		50	46				
	BUL	ePKKP		59	39				
		iP'		49	30	C	0.5		
		ipP'			43				
		ePKKP		59	28				
04	KRR	e	15	04	49		0.2	Distant	
	BHA	e			50		0.2		
	BUL	e			55		0.3		
04	BUL	e	16	40	45		0.3	Distant	
		i		41	12				
		e		44	24				
	BHA	e		40	46		0.2		
		e		41	14				
	KRR	i		45	01				
		e		40(50)			0.4		
		e		41	20				
		i		45	16				



## LIST OF RECORDED PHASES: 04 to 07 NOV 1967 - 4

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
04	KRR	e	16	56	27		0.2	Distant	
		e			44				
	BHA	e			28		0.2		
		e			46				
04	BUL	e			30		0.4		
		i			50				
04	KRR	e	19	40	34		0.2	Distant	
	BUL	e			51		0.2		
05	KRR	iP	00	33	52		2.4	Kariba	
		iS			34				
	BHA	ePn			10		1.1		
		eSn			31				
		eSg			38				
05	BUL	eSg			35		0.4		
	BHA	ePn	06	14	44		3.4	N. of Lake Tanganyika	
05		eSn			16				
		iL			17				
	KRR	eP			15		1.7		
		eS			17				
		iL			19				
05	BUL	eP			15		0.6		
		eS			18				
		iL			20				
05	BUL	e	14	02	02		0.4	Distant	
		i			31				
	KRR	e			38		0.2		
05		e			03				
	BHA	e			02(50)		0.1		
05	BUL	e	15	11	21		0.1	Distant?	
	KRR	e			42		0.2		
05	BUL	eSg	16	48	34		0.2	Witwatersrand	
06	BUL	eSg	17	29	19		0.3	Witwatersrand	
	KRR	eSg			31		0.2		
06	BHA	eL	20	14	31		0.2	UGANDA ?	
	KRR	eL			15(40)		0.2		
06	BUL	i	21	17	25		0.3	Distant	
	KRR	e			38		0.2		
06	BUL	eP'	21	51	12		0.5	Distant	
		eSKP			53				
	BHA	eP'			51		0.4		
		ePKS			54				
	KRR	eP'			51		1.1		
	iSKP			53					
07	KRR	e	04	0'	40		0.4	Distant	
	BUL	e			42		0.4		
	BHA	ei			48	rC	1.0		
07	BUL	eSg	05	42	28		0.2		
07	BUL	e	08	37	51		0.1	Distant	
	KRR	e			38		0.2		
		i			41				
	BHA	e			25		0.2		
	e			50					
07	BUL	eSg	14	36	34		0.2		

## LIST OF RECORDED PHASES: 07 to 09 NOV 1967 - 5

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
07	BHA	e	20	07	56		0.2	Distant
	KRR	e		08	04		0.3	
		e			37			
	BUL	i			24	R	0.3	
		e			56			
08	BHA	e	03	29	37		0.2	Distant
		e			50			
	BUL	e			38		0.2	
		e			50			
	KRR	e			39		0.2	
		e			51			
08	BHA	eP	03	44	47		0.1	Distant
	KRR	eP			52		0.2	
	BUL	eP		45	18		0.2	
08	BHA	ePn	04	31	18		1.8	Central Lake Tanganyika area
		iSn		32	41			
		iSg		33	27			
	KRR	eSn			36		0.6	
		eL		34	41			
	BUL	eL		36	20		0.3	
08	KRR	e	06	21	14		0.3	Distant
		e		25	31			
	BUL	e		21	21		0.2	
		e		25	39			
08	BUL	eSg	14	43	02		0.3	Witwatersrand
	KRR	eSg		44	46		0.2	
08	KRR	eP'	15	17	25		0.4	Distant
		iSKP		19	35			
	BUL	eSKP			38		0.4	
	CLK	eSKP			41		0.2	
08	CLK	eP'	17	28	45		0.5	Distant
		eSKP		32	12			
	KRR	eF'		28	51		0.5	
		eFP		31	37			
		eSKP		32	26			
	BUL	eP'		28	52		0.3	
		eFP		32	00			
08	KRR	iP	17	35	25		5.6	Kariba
		iS			39			
	BUL	ePg		36	07		0.4	
		iSg			52			
08	CLK	eP'	17	41	51		0.4	Distant
	KRR	eP'			58		0.6	
		eSKP		45	34			
	BUL	eP'		41	59		0.3	
		eFP		45	07			
09	CLK	iP	02	30	33		4.2	Distant
		epP		32	38			
		iS		40	06			
		eSKS			25			
		iPKKP		48	25			
	KRR	iP		30	53	R	1.5	
		epP		33	04			
		eS		40	45			
		ePKKP		48	13			
	BUL	iP		30	58	R	1.9	
		ipP		33	06			
		eSKE		40	36			
		eS		41	14			
	ePKKP		48	12				

## LIST OF RECORDED PHASES: 09 to 11 NOV 1967 - 6

Date	STN	Phase	G	M	T	R	DA	Epicentral region	Remarks
			h	m	s	C	mm		
09	CLK	eP'	08	06	38		0.2	Distant	
	KVL	eP'			42		0.3		
		iSKP		10	15				
	BUL	iP'		06	48	C	1.2		
		eSKP		10	24				
09	BUL	iSg	13	58	11		0.4	Witwatersrand	
	KRR	eSg	14	00	52		0.2		
09	BUL	eSg	14	17	18		0.3	Witwatersrand	
	KRR	eSg		19	06		0.2		
09	KRR	e	18	38	11		0.2	Distant	
		e			32				
	BUL	i			17	C	0.2		
		e			38				
		i		39	35				
10	KRR	e	04	52	26		0.2	Distant ?	
	BUL	e			37		0.2		
10	KRR	e	05	24	14		0.2	Distant?	
	BUL	e			28		0.1		
10	CLK	eP	06	15	10		0.4	Distant	
		ipP			16				
	KRR	eP			38		0.3		
		ipP			45				
	BUL	eP			53		0.2		
10	CLK	iL	06	35	33		0.4	Distant	
	KRR	eL			34		0.3		
	BUL	eL		39	53		0.2		
10	CLK	eP	07	39	49		0.2	Distant	
	KRP	eP		40	17		0.5		
	BUL	eP			20		0.6		
10	BUL	iSg	10	14	01		0.3	Witwatersrand	
	KRR	eSg		15	44		0.2		
10	BUL	e	13	29	31		0.4	Distant	
	KRR	e			33		0.3		
10	CLK	iP	18	45	45	R	1.7	Distant	
		ipP			52				
	KRR	iP			28	R	1.6		
		ipP			39				
		i		52	27				
	BUL	iP		46	41	R	0.7		
		epP			49				
		i		52	38				
10	BUL	iSg	19	37	26		0.6	Witwatersrand	
	KRR	eSg		39	08		0.2		
11	BUL	iPn	01	28	31		1.5	Witwatersrand	
		eSn		29	40				
		iS*			55				
		iSg		30	12				
	KRR	ePn		29	16		0.5		
		eSn		31	58				
		eSg		32	53				
	CLK	eSg		33	28		0.3		

LIST OF RECORDED PHASES: 11 NOV 1967 - 7

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region;	Remarks
11	CLK	eP	02	32	52		6.3	Uganda	
		eS		36	01				
		iSgSg		37	55				
		iL		38	07				
	KRR	eP		33	02		5.7		
		eS		36	22				
		iL		38	30				
	BUL	iP		33	39	R	2.8		
		eS		37	(30)				
iL			40	16					
11	CLK	eL	03	04	40		0.4	Uganda	
	KRR	eL		05	08		0.3		
	BUL	eL		06	57		0.2		
11	KRR	iPn	06	34	35		0.7	W. Copperbelt, Zambia	
		iSn		35	35				
		eSg		36	04				
		eL			10				
	BUL	eP		35	09		0.2		
		eL		37	30				
	CLK	eL			54		0.3		
11	KRR	iPn	09	45	44	C	17.	W. Tete Province, Mocambique	
		iPg			50				
		iS		46	07				
	CLK	ePn			06		4.2		
		iSn			44				
		iSg		47	00				
	BUL	ePn		46	21		6.7		
		iSn		47	14				
		iSg			40				
11	CLK	iP	12	03	04	R	1.2	Distant	
	KRR	iP			46	R	1.2		
	BUL	iP			59	R	0.8		
		ipP		04	06				
11	CLK	iP	12	22	05	R	3.8	Distant	
	KRR	iP			48	R	3.0		
	BUL	iP		23	01	R	2.1		
11	BUL	ePn	13	04	45		0.6	Witwatersrand	
		eSn		05	54				
		iSg		06	28				
	KRR	eSg		08	09		0.3		
11	BUL	eSg	13	22	57		0.2	Witwatersrand	
	KRR	eSg		23	43		0.2		
11	BUL	eSg	13	39	00		0.2	Witwatersrand	
11	CLK	iP	15	12	17	R	1.8	Distant	
	KRR	iP		13	00	R	1.2		
	BUL	iP			13	R	0.6		
11	CLK	eiP	17	49	27	rC	0.6	Distant	
	KRR	eiP		50	10	rC	0.5		
	BUL	eiP			23	rC	0.3		
11	CLK	iP	18	07	09	R	2.3	Distant	
	KRR	iP			50	R	1.8		
	BUL	ePP		09	39				
		iP		08	04	R	1.2		

LIST OF RECORDED PHASES: 11 to 13 NOV 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
11	CLK	eP	19	14	39		0.2	Distant	
	KRR	eP		15	22		0.2		
	BUL	eP			35		0.2		
11	CLK	iP	20	25	21	R	1.2	Distant	
	KRR	iP		26	03	R	1.1		
	BUL	iP			16	R	0.6		
11	CLK	eiPn	23	24	13	rC	3.0	Sagara Swamp, Tanzania	
		iSn		25	57				
		iL		27	03				
	KRR	ePn		24	18		3.7		
		iSn		26	04				
		iSg		27	08				
	BUL	eP		25	02		2.0		
		iS		27	22				
		iL		28	56				
12	KRR	e	02	46	10		0.2	Distant	
		e			21				
	BUL	e			14		0.2		
12	KRR	iP	10	51	14	C	0.4	Distant	
	BUL	iP			35	C	0.3		
	CLK	iP			50	C	0.3		
12	BUL	e	10	56	05		0.7	Distant	
		e			14				
	KRR	e			10		0.8		
		e			18				
	CLK	e			17		0.3		
12	CLK	ePn	11	28	51		1.3	S. Highlands, Tanzania	
		iSn		30	08				
		iSg			42				
	KRR	ePn		29	19		1.2		
		iSn		30	52				
		iSg		31	42				
	BUL	eSn		32	11		0.5		
		iSg		33	23				
12	KRR	e	12	43	33		0.2	Distant	
		e			49				
	BUL	e			44		0.2		
		e			44				
12	BUL	e	17	43	29		0.3	Distant	
	KRR	e			33		0.2		
12	KRR	e	19	08	37		0.2	Distant	
	BUL	e			41		0.2		
12	BUL	e	22	18	37		0.2	Distant	
	KRR	e			39		0.2		
13	KRR	iPg	01	51	16		4.8	Kariba	
		iSg			29				
		iSn			32				
	BUL	ePg		52	01		0.8		
		iSn			30				
		iSg			44				
13	CLK	iP	04	20	51		4.5	Zambesi-Shire confluence	
		iS		21	11				
	KRR	eSg		23	06		0.6		
	BUL	eSg			54		0.3		

LIST OF RECORDED PHASES: 13 to 15 NOV 1967- 9

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
13	CLK	iP	14	20	21	C	12.	Shire Valley, Malawi
		iS			24			
	KRR	eSg		22	52	0.2		
	BUL	eSg		23	57	0.1		
13	CLK	ePn	14	48	31		2.8	Comoro Is. Region.
		iSn		49	52			
		iSg		50	35			
	KRR	ePn		49	41	0.4		
		eSn		51	56			
		eL		53	18			
	BUL	eP		50	11	0.3		
eL		54	33					
13	BUL	eSg	16	17	31		0.2	Witwatersrand
13	BUL	eP'	16	24	34		0.2	Distant
		eSKP		27	06			
	KRR	iP'		24	36	R	0.3	
	CLK	iP'		24	47	R	0.3	
13	BUL	eSg	20	00	10		0.2	West Witwatersrand
	KRR	eSg		01	55		0.1	
13	BUL	eSn	20	08	55		0.6	Witwatersrand
		iSg		09	31			
	KRR	eSg		11	14	0.3		
13	CLK	eP	20	33	12		2.3	Uganda
		eS		36	16			
		iSgSg		38	16			
		iL			25			
	KRR	eP		33	23	2.0		
		eSgSg		39	46			
	BUL	iP		33	58	R	1.4	
		eSgSg		40	33			
	iL			44				
14	KRR	eP	00	15	45		0.2	Distant
	BUL	eP		16	01	0.2		
14	BUL	eSg	00	35	22		0.3	Witwatersrand
	KRR	eSg		37	07	0.2		
14	KRR	e	14	00	40		0.2	Distant
	BUL	e			49	0.2		
14	BUL	eL	23	02	51		0.2	
	KRR	eL		05	16	0.2		
15	CLK	iP	07	48	40	C	0.4	Distant
		KRR	eP		49			
	BUL	iP			08	C	0.5	
		ePP		52	56			
15	BUL	eSg	17	13	07		0.3	Witwatersrand
	KRR	eSg		14	48	0.2		
15	BUL	eSg	19	36	20		0.2	Witwatersrand
	KRR	eSg		38	03	0.1		
15	CLK	eP	19	44	35		0.4	Distant
	KRR	eP			56	0.2		
	BUL	eP		45	21	0.2		

LIST OF RECORDED PHASES: 15 to 17 NOV 1967- 10

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region; Remarks
15	BUL	iP	21	44	46	C	2.7	Distant
		iSKS		55	30			
		ePKKP	22	02	24			
	KRR	iP	21	44	58	C	2.9	
		ePKKP	22	02	18			
	CLK	iP	21	45	22	C	0.6	
		iPKKP	22	02	06			
16	BUL	i	01	36	22	R	0.2	Distant
	KRR	e			27		0.2	
16	CLK	eL	14	29	16		0.4	
	KRR	eL			46		0.3	
	BUL	eL		31	30		0.1	
16	BUL	eSg	18	08	03		0.2	Witwatersrand
	KRR	eSg		09	51		0.1	
16	CLK	iL	18	38	42		0.3	
	KRR	eL		39	13		0.3	
16	CLK	eL	20	36	17		0.4	
	KRR	eL			36		0.4	
	BUL	eL		38	22		0.2	
17	CLK	iL	03	01	27		0.5	
	KRR	eL		03	(20)		0.3	
	BUL	eL			56		0.4	
17	BUL	e	08	01	42		1.3	Distant
		i			46			
	KRR	e			58		0.4	
		e		02	25			
17	BUL	iP'	09	38	07	C	2.2	Distant
		ipP'			23			
	KRR	eP'			08		0.8	
	CLK	epP'			24		0.4	
		eP'			15		0.4	
17	CLK	iP'	10	28	44	R	0.3	Distant
	BUL	iP'			45	R	0.5	
	KRR	eP'			47		0.7	
17	BUL	iSg	11	31	35		0.4	Witwatersrand
	KRR	eSg		33	17		0.2	
17	BUL	ePn	14	02	57		0.5	Witwatersrand
		eSg		04	38			
	KRR	ePn		03	42		0.3	
		eSn		05	25			
		eSg		06	26			
17	BUL	ePn	14	30	54		0.6	Witwatersrand
		eSn		32	01			
		iSg			31			
	KRR	ePn		31	36		0.4	
		eSg		34	19			
17	CLK	iPn	16	11	25		3.0	S. Mocambique Channel
		iSn		12	46			
	BUL	iPn		11	48	R	0.6	
		iSn		13	25			
	KRR	ePn		11	56		0.7	
		iSn		13	41			

LIST OF RECORDED PHASES: 17 to 20 NOV 1967 - 11

Date	Stn	Phase	G	N	T	R	DA	Epicentral region	Remarks
			h	m	s	C	mm		
17	CLK	ePn	16	56	23		0.5	N. Fipa plateau, Tanzania	
		eSn		58	05				
		eSg		59	04				
	KRR	eSn		58	04		0.3		
		eSg		59	04				
	BUL	eL	17	00	58		0.2		
17	BUL	iP	18	43	56	C	1.5	Distant	
		KRR		44	06		0.5		
		CLK			29		0.3		
17	BUL	eSg	20	41	54		0.3	Witwatersrand	
		KRR		43	40		0.2		
18	CLK	e	02	40	44		0.3	Distant	
		KRR			45		0.5		
		BUL		41	08		0.2		
18	CLK	ePn	03	39	43		19.0	Central Lake Malawi	
		iPg			54				
		iT		40	01				
		iSn			25				
		iSg			42				
	KRR	iPn			27		5.8		
		iSn		41	42				
		iL		42	28				
	BUL	iPn		41	09	C	2.3		
		iSn		42	51				
		iL		43	59				
18	KRR	iP	15	47	23		2.8	Kariba	
		iS			50				
	BUL	iPg			42		0.5		
		iSg		48	26				
18	BUL	i	22	02	35	C	0.8	Distant	
		KRR			45	C	0.6		
19	KRR	eP	12	25	41		0.5	Distant	
		e		26	50				
	BUL	iP		25	46	C	1.2		
		i		27	08				
CLK	eP		26	14		0.7			
19	BUL	e	16	01	43		0.2	Distant	
		KRR			50		0.2		
19	BUL	e	17	48	17		0.2	Distant	
		KRR			19		0.3		
		e			42				
20	KRR	iP	01	59	17	C	4.8	Kariba	
		iS			32				
	BUL	eSg	02	00	45		0.4		
20	BUL	ePn	02	36	15		0.8	Witwatersrand	
		eSn		37	22				
	KRR	iSg			52				
		ePn			02		0.4		
	iSg		39	35					
20	BUL	e	05	26	56		0.1	Distant	
		KRR		27	22		0.2		
20	BUL	e	11	07	15		0.2	Distant ?	
		KRR			28		0.1		



LIST OF RECORDED PHASES: 20 to 23 NOV 1967 - 12

Date	Stn	Phase	G	M	T	R	DA	Epicentral region; Remarks
			h	m	s	C	mm	
20	BUL	eSg	14	48	47		0.3	Witwatersrand
	KRR	eSg		50	27		0.2	
21	BUL	eSg	00	13	55		0.8	Phalaborwa, E. Transvaal
	KRR	eSg		15	18		0.5	
21	BUL	eSg	00	16	47		0.4	Phalaborwa, E. Transvaal
	KRR	eSg		18	10		0.2	
21	KRR	iP	09	02	07	C	0.7	Distant
	BUL	iP			08	C	0.6	
	CLK	eP			42		0.2	
21	BUL	e	15	49	24		0.2	Distant
21	BUL	eSg	17	12	37		0.2	Witwatersrand
	KRR	eSg		14	20		0.1	
21	KRR	e	17	15	26		0.2	Distant
	BUL	i			39	C	0.4	
21	KRR	ePn	19	01	38		0.2	N. Barotseland
		eSn		02	48			
		eSg		03	27			
	BUL	eSg			57		0.2	
21	KRR	e	22	02	46		0.2	Distant
	BUL	e			56		0.2	
21	BUL	eSg	22	59	14		0.3	Witwatersrand
	KRR	eSg	23	01	02		0.2	
22	BUL	iP	10	42	46	C	0.7	Distant
	KRR	iP		43	10	C	1.1	
22	KRR	e	14	56	02		0.2	Distant
	BUL	i			06	C	0.3	
22	BUL	e	15	38	23		0.3	Distant
		e			35			
	KRR	e			24		0.4	
		e			38			
22	KRR	eSg	21	30	36		0.3	
	BUL	eSg		32	21		0.2	
22	KRR	i	22	17	27	C	1.0	Distant
	BUL	i			30	C	0.3	
23	BUL	ePn	01	02	26		0.4	Witwatersrand
		eSg		04	09			
	KRR	eSg		05	55		0.2	
23	BUL	i	07	09	15	R	0.4	Distant
	KRR	i			25	R	0.3	
23	KRR	eiP	08	43	11	cR	2.8	Distant
	BUL	eP			38		3.3	
23	BUL	e	11	51	55		0.2	Distant
	KRR	e		52	21		0.1	
23	KRR	e	13	55	37		0.1	Distant
	BUL	e			53		0.3	
23	BUL	e	17	09	09		0.2	Distant
	KRR	e			32		0.2	
23	BUL	iSg	17	27	50		0.3	Witwatersrand
	KRR	eSg		29	38		0.2	

LIST OF RECORDED PHASES: 24 to 26 NOV 1967- 13

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region, Remarks
24	BUL	eiP	00	27	10	cR	0.3	Distant
	KRR	eiP			32	cR	0.3	
24	BUL	eP'	06	00	47		0.4	Distant
		iSKP		03	40			
	KRR	eP'		00	51		1.2	
		iSKP		03	45			
24	BUL	i	18	52	09	C	0.3	Distant
24	BUL	eSg	19	15	47		0.2	Witwatersrand
	KRR	eL		17	34		0.1	
25	BUL	ePn	07	57	13		1.2	Witwatersrand
		eSn		58	19			
		iSg			49			
	KRR	ePn		57	58		0.7	
		eSg	08	00	32			
	CLK	eSg		01	54		0.3	
25	KRR	eP	16	09	06		0.2	Distant
	BUL	eP			33		0.2	
25	CLK	iP	21	28	28	R	3.8	Offshore N. Mocambique.
		iS		29	57			
		iL		30	50			
	KRR	iP		29	29	R	0.8	
		eS		31	45			
	BUL	eiP		30	07	rC	0.6	
		eS		32	52			
		eL		34	44			
25	BUL	eiP	22	01	31	rC	0.4	Distant
	KRR	eP			53		0.4	
	CLK	eP		02	12		0.3	
26	CLK	eP	00	22	02		0.2	Distant
	KRR	eP			24		0.1	
	BUL	eP			36		0.1	
26	CLK	eP	03	05	40		0.8	Distant
		i		06	17			
	KRR	eP			07		0.6	
		e			44			
	BUL	iP			11	R	1.5	
		e			47			
26	BUL	iP	03	59	09	C	0.5	Distant
		i			27			
	KRR	eP			31		0.3	
26	CLK	eL	07	59	43		0.3	
	KRR	eL	08	00	08		0.2	
	BUL	eL		01	50		0.2	
26	BUL	eP'	08	30	36		0.5	Distant
		eSKP		33	51			
	KRR	eP'		30	37		0.2	
26	KRR	e	11	06	58		0.2	Distant
	BUL	e		07	02		0.3	
26	BUL	e	12	14	49		0.2	Distant
	KRR	e			51		0.2	

## LIST OF RECORDED PHASES: 26 to 27 NOV 1967 - 14

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
26	BUL	e	15	33	42		0.1	Distant	
	KRR	i			44	C	0.2		
26	BUL	i	18	21	39	C	0.2	Distant	
	KRR	e			53		0.1		
26	BUL	e	19	09	12		0.2	Distant	
	KRR	e			21		0.1		
27	BUL	eiP	05	25	56	cR	1.1	Distant	
		ipP		26	14				
		i			57				
	KRR	eiP			09	cR	1.2		
		ipP			27				
	CLK	epP			32				
		epP			50				
27	KRR	e	06	04	31		0.6	Distant	
	BHA	i			37	R	1.7		
	BUL	e			40		0.1		
27	BUL	e	08	37	57		0.4	Distant	
	KRR	e		38	02		0.2		
	BHA	e			07		0.2		
27	KRR	e	10	39	06		0.2	Distant	
	BHA	e			17		0.2		
	BUL	e			17		0.2		
27	KRR	i	10	53	51	C	0.5	Distant	
		i			56				
	BHA	e		54	00		0.2		
	BUL	i			03	C	0.4		
27	BHA	epP	13	11	21		0.2	Distant	
	KRR	iP			32	C	0.3		
	BUL	iP			58	C	0.2		
27	BHA	iP	13	44	30		3.2	Kivu Province, Congo	
		iS			46	35			
		iL			47	52			
	KRR	epP			45	01	1.2		
		eS			47	35			
		eL			49	09			
	BUL	epP			45	43	0.5		
		eS			48	47			
		eL			50	46			
	27	BUL	epPn	16	10	12			1.2
		iSn			11	38			
		iSg			12	25			
KRR		epPn			10	57	0.7		
		eSn			12	58			
		iSg			14	08			
BHA		epPn			11	28	0.3		
	iSg			15	21				
27	BUL	ei	19	29	55	rC	0.4	Distant	
	KRR	i			30	08	C		0.2
	BHA	i			10		C		0.2
27	KRR	e	20	24	45		0.5	Distant	
	BHA	e			55		0.3		
	BUL	e			55		0.2		

LIST OF RECORDED PHASES: 27 to 29 NOV 1967 - 15

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
27	KRR	e	21	10	16		0.5	Distant	
	BHA	e			27		0.3		
	BUL	e			27		0.4		
28	KRR	ei	02	29	46	rC	0.4	Distant	
		ei		32	18				
		e		33	00				
	BHA	i		29	52	P	0.4		
		i		32	24				
		i		33	06				
	BUL	e		29	50		0.3		
		i		32	31				
		e		33	12				
28	KRR	e	02	51	01		0.2	Distant	
		e		55	32				
	BHA	e		51	05		0.2		
		e		56	00				
	BUL	e		51	12		0.2		
		i		56	20				
28	BUL	e	03	06	25		0.3	Distant	
		e			58				
	BHA	e			56		0.1		
	KRR	e		07	10		0.1		
28	BUL	ePn	09	52	34		0.8	Witwatersrand	
		eSn		53	42				
		iSg		54	13				
	KRR	ePn		53	19		0.6		
28		eSg		55	59				
	BUL	ePn	13	50	46		1.3	Witwatersrand	
		eSg		52	24				
KRR	ePn		51	31		0.7			
		iSg		54	11				
28	BUL	i	16	54	02	R	0.5	Distant	
	KRR	e			12		0.2		
28	BUL	eSg	18	08	33		0.3	Central Manica Province, Mocambique.	
		eL			43				
	KRR	eSg			42		0.3		
		eL			49				
28	BUL	eP	19	11	05		0.2	Distant	
	KRR	eP			39		0.2		
28	BUL	e	20	39	08		0.2	Distant	
29	BUL	eP	00	21	07		0.2	Distant	
	KRR	eP			31		0.2		
		epP			41				
	BHA	eP			53		0.1		
29	BHA	iSg	04	03	19		0.8		
	KRR	eSg		04	24		0.3		
	BUL	eL		06	08		0.1		

## LIST OF RECORDED PHASES: 29 to 30 NOV 1967 - 16

Date	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	$\bar{C}$	mm		
29	BUL	e	04	26	24		0.2	Distant	
	KRR	e			24		0.1		
29	KRR	eP	04	30	57		0.2	Distant	
	BUL	eP		31	16		0.2		
29	BHA	eP	05	31	08		1.2	Uganda	
		eS <sub>g</sub> S <sub>g</sub>		35	55				
		iL		36	06				
	KRR	eP		31(30)			0.6		
		eL		37	02				
	BUL	eiP		32	11	rC	0.4		
29	KRR	eP	05	36	28		2.2	Uganda	
		iL		42	01				
	BUL	iP		37	10	R	1.6		
		iL		43	49				
	BHA	iL		40	59		4.3		
29	BHA	eL	05	49	26		0.6	Uganda	
	KRR	eL		50	19		0.4		
	BUL	eL		52	12		0.2		
29	BUL	iP	06	37	50	R	0.5	Distant	
	KRR	iP		38	14	R	0.6		
	BHA	eP			23		0.2		
29	BUL	eP	08	18	56		0.2	Distant	
	KRR	eP		19	19		0.3		
	BHA	eP			29		0.2		
29	BUL	i	13	45	25	R	0.4	Distant	
	KRR	i			32	R	1.1		
	BHA	i			41	R	0.6		
29	BUL	eP	14	04	29		0.2	Distant	
	KRR	eP			55		0.2		
29	BUL	iP	15	10	51	C	0.5	Distant	
	KRR	iP		11	21	C	0.4		
	BHA	iP			35	C	0.3		
29	BHA	iPn	22	51	22	C	9.	W. Copperbelt Zambia	
		iSn			54				
		iSg		52	03				
	KRR	ePn			00		2.0		
		iSn			58				
		iSg		53	27				
	BUL	eP		52	34		0.4		
		eS		54	03				
	eL			58					
30	BHA	e	01	34	59		0.2	Distant	
	KRR	e		35	05		0.2		
	BUL	e			29		0.3		
30	KRR	e	03	36	51		0.2	Distant	
	BUL	e			57		0.2		
	BHA	e			58		0.2		

LIST OF RECORDED PHASES: 30 NOV 1967 - 17

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
30	BHA	eP	07	33	29		2.9	Distant	
		eSKS		43	32				
	KRR	eP		33	46		8.2		
		ipP			50				
	BUL	eiP		34	05	rC	7.7		
		i				19			
		ipP				24			
30	BHA	eP	07	52	35		0.2	Distant	
	KRR	eP			51		0.3		
	BUL	eP		53	11		0.2		
30	BHA	eP	11	24	31		0.4	Distant	
	BUL	eP			38		0.4		
	KRR	eP			42		0.4		
30	KRR	e	11	56	15		0.2	Distant	
	BUL	e			31		0.2		
30	BUL	eSg	14	26	44		0.2	Witwatersrand	
	KRR	eSg		28	30		0.2		
30	BUL	eP'	16	05	51		0.7	Distant	
		iSKP		08	23				
	KRR	eP'		05	57		2.3		
		iSKP		08	32				
	BHA	eP'		06	02		1.1		
		iSKP		08	37				

RbD

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RHODESIA METEOROLOGICAL SERVICES

SEISMOLOGICAL BULLETIN

The following stations contribute records for analysis and publication in this Bulletin:

- KABWE (BHA): 14° 26.8' S; 28° 28.1' E; Alt. 1206 m.  
 (Broken Hill)  
 Litho. foundation: Dolomite and Shales of the Middle Katanga System.  
 Authority: Zambia Meteorological Service.  
 Instrument: Three component Willmore one-second seismograph.  
 Nominal magnification 20,000.
  
- CHILEKA (CLK): 15° 40.8' S; 34° 58.6' E; Alt. 781 m.  
 Litho. foundation: Charnockitic granulites of the Basement Complex.  
 Authority: Malawi Meteorological Service.  
 Instrument: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.
  
- KAROI (KRR): 16° 51.1' S; 29° 37.1' E; Alt. 1380 m.  
 Litho. foundation: Granitic gneisses of the Zambesi type.  
 Authority: Rhodesia Meteorological Services.  
 Instrument: Vertical Willmore one-second seismograph.  
 Nominal magnification 20,000.
  
- BULAWAYO (BUL): 20° 08 6' S. 28° 36.8' E. Alt. 1341 m.  
 Litho. foundation: Hornblend schists of the Bulawayan System.  
 Authority: Rhodesia Meteorological Services.  
 Instruments: Three-component Willmore one-second seismograph.  
 Nominal magnification 20,000.  
 WWSSS Station: SP magnification 100,000  
 LP magnification 1,500

Analysis Centre: Goetz Observatory. Meteorological Service,  
P.O. Box 562. Bulawayo, Rhodesia.

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CIK not operating during the month.

Date	G h	M m	T s	Epicentre:	Remarks	Mag CGS
01	03	59	(10)	Uganda		4.1
01	05	56	28	Uganda		4.1
X 01	09	59	52	26.3S 27.9E;	Witwatersrand	2.7
01	13	57	02	USCGS 49.5N	154.4E; Kurile Is.	5.9
01	16	36	43	USCGS 5.9S	105.5E; Sunda Strait	-
02	00	31	19	USCGS 24.1N	108.6W; Gulf of California	5.1
02	07	15	36	USCGS 55.7S	28.0W; S. Sandwich Is. Region	4.7
X 02	08	29	09	26.1S 28.2E;	Witwatersrand	3.0
X 02	09	03	30	28.3S 26.8E;	O.F.S. Goldfields	3.7
02	12	44	43	USCGS 41.3N	20.3E; Albania	5.4
X 02	12	53	07	4S 36E;	Kondoa Area, Tanzania	3.9
02	15	10	(00)	Lake Kyoga Area,	Uganda	4.0
X 03	13	24	53	15.9S 28.0E;	Kafue Gorge, Zambia	2.5
X 04	03	03	07	26.3S 28.1E;	Witwatersrand	4.0
04	08	19	09	USCGS 62.4N	151.8W; Central Alaska	4.9
04	08	48	45	USCGS 43.7N	127.4W; Off Coast of Oregon	4.6
X 04	12	04	03	15.8S 28.1E;	Kafue Gorge, Zambia	2.0
04	13	11	49	N. Okavango Swamp		2.7
04	15	35	34	USCGS 36.1N	71.2E; Afghanistan-USSR Border reg.	4.9
X 04	15	46	33	26.3S 28.1E;	Witwatersrand	3.6
04	19	00	23	USCGS 63.0S	60.5W; Palmer Peninsula	4.7
X 04	19	02	22	8.2S 32.5E;	S. Lake Rukwa, Tanzania	3.4
X 04	19	48	45	63S 60W;	Palmer Peninsula	(4.4)
X 04	19	52	56	63S 60W;	Palmer Peninsula	(4.4)
04	20	28	31	USCGS 63.2S	60.3W; Palmer Peninsula	-
04	21	41	51	USCGS 2.8N	65.1E; Carlsberg Ridge	4.9
04	22	05	22	USCGS 25.1S	179.8E; S. of Fiji Is.	4.5
04	22	18	41	USCGS 51.6N	173.5W; Andreanof Is., Aleutians	4.7
05	05	20	03	USCGS 36.5N	26.9E; Dodecanese Is.	4.6
05	09	05	13	USCGS 51.6N	173.4W; Andreanof Is., Aleutians	5.3
05	11	09	37	USCGS 30.8N	114.1W; Gulf of California	5.0
05	18	35	38	USCGS 30.8N	114.0W; Gulf of California	4.8
X 05	21	31	07	26.5S 27.1E;	W. Witwatersrand	3.3
06	02	53	07	USCGS 12.5N	87.2W; Near Coast of Nicaragua	5.3
06	04	41	09	USCGS 4.2S	103.0E; S. Sumatra	5.4
06	05	03	41	USCGS 21.3S	178.8W; Fiji Is. Region	5.1
06	09	41	06	USCGS 14.9S	167.3E; New Hebrides Is.	5.3
X 06	11	58	24	26.5S 27.9E;	Witwatersrand	2.6
X 06	12	10	24	26.2S 27.8E;	Witwatersrand	2.4



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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
06	13	02	03	Uluguru Mts., Tanzania	3.4
06	22	21	57	USCGS 1.2S 67.5E; Carlsberg Ridge	5.5
07	07	24	29	USCGS 52.9N 166.7W; Fox Is., Aleutians	4.7
07	09	41	14	USCGS 16.7S 174.1W; Tonga Is.	5.0
07	09	49	37	USCGS 14.6S 167.3E; New Hebrides Is.	5.3
07	20	28	46	USCGS 30.8S 179.7W; Kermadec Is.	4.5
08	02	00	28	USCGS 10.6S 161.5E; Solomon Is.	5.4
08	06	03	57	USCGS 49.8N 78.2E; E. Kazakh, S.S.R.	5.4
08	06	42	55	S. Highlands, Tanzania	3.1
08	08	17(50)		N. Rift Valley	4.1
X 08	08	51	25	26.5S 27.3E; Witwatersrand	3.1
09	05	28	39	USCGS 22.2S 179.4W; S. of Fiji Is.	4.9
09	07	54	20	USCGS 15.2S 173.3W; Tonga Is.	5.0
09	09	25	40	USCGS 17.1S 70.7W; Near Coast of Peru	4.7
09	10	50	47	USCGS 10.9S 164.2E; Santa Cruz Is. Region	5.5
X 09	13	05	41	26.6S 27.5E; Witwatersrand	2.7
09	22	11	13	USCGS 53.8N 163.2W; Unimak Is. region	4.3
09	23	33	53	USCGS 51.8N 173.5W; Andreanof Is., Aleutians	4.0
10	03	42	04	USCGS 30.3S 71.7W; Near Coast of Cent. Chile	4.3
10	12	06	50	USCGS 40.5N 124.6W; Near Coast of N. California	5.8
10	18	43	34	USCGS 22.5N 94.8E; Burma	5.2
10	22	51	24	USCGS 17.7N 73.9E; India	6.0
10	23	52	17	USCGS 17.4N 73.7E; India	5.0
X 11	13	04	05	15.8S 34.7E; S. Malawi	4.3
11	19	05	02	USCGS 14.9N 56.0E; Arabian Sea	4.5
11	19	48	43	USCGS 13.7N 51.6E; E. Gulf of Aden	5.2
11	20	49	49	USCGS 17.3N 73.7E; India	5.2
11	22	30	18	USCGS 13.6N 51.6E; E. Gulf of Aden	5.6
12	03	22	32	USCGS 5.7N 61.5E; Carlsberg Ridge	-
12	06	18	38	USCGS 17.6N 73.9E; India	5.4
12	15	48	55	USCGS 17.4N 73.9E; India	5.0
13	10	38	23	USCGS 47.6N 152.6E; Kurile Is.	5.5
13	15	36	01	USCGS 5.3N 125.9E; Mindanao, Philippine Is.	5.4
13	16	09(00)		Mt. Hanang Area, Tanzania	4.0
13	19	07	14	USCGS 19.1S 168.7E; New Hebrides Is.	5.7
13	20	48	02	USCGS 5.0S 149.7E; New Britain region	4.9
13	21	35	11	USCGS 17.7S 178.1W; Fiji Is. region	4.6
14	02	20	28	USCGS 14.3N 53.7E; Arabian Sea	4.9
14	02	54	48	USCGS 34.4N 26.2E; Crete	4.5
14	03	20	48	USCGS 24.0S 69.3W; N. Chile	5.1

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Date	G	M	T	Epicentre;	Remarks	Mag
	h	m	s			CGS
14	08	35	29	USCGS 34.9N 24.3E;	Crete	4.6
14	14	39	35	USCGS 14.9S 166.8E;	New Hebrides Is.	5.0
14	18	25	17	USCGS 54.6N 160.4E;	Near E. Coast of Kamchatka	5.5
14	19	15	21	USCGS 38.2N 91.3E;	Tsinghai Province, China	5.4
X 14	20	59	30	26.3S 27.4E;	Witwatersrand	3.1
14	21	58	55	USCGS 4.0S 68.4E;	Chagos Archipelago region	4.9
14	23	26	40	USCGS 5.1S 151.2E;	New Britain region	5.1
X 15	00	17	46	26.5S 27.1E;	Witwatersrand	3.1
15	16	16	29	W. Tanzania		3.3
X 15	19	04	04	26.3S 27.9E;	Witwatersrand	3.1
15	19	39	06	USCGS 11.4S 163.2E;	Solomon Is.	5.2
15	19	47	13	USCGS 29.1S 177.6W;	Kermadec Is. region	5.3
X 15	21	13	44	17.9S 30.4E;	Zambesi-Shire Confluence, Malawi	2.9
X 15	21	34	46	26.5S 27.3E;	Witwatersrand	3.3
16	11	46	41	USCGS 23.9S 66.7W;	Jujuy Province, Argentina	4.4
16	13	14	00	USCGS 31.7S 179.8E;	Kermadec Is.	4.1
16	15	01	20	USCGS 31.7S 69.7W;	San Juan Province, Argentina	4.5
16	20	53	58	USCGS 51.2N 157.7E;	Near E. Coast of Kamchatka	5.5
X 16	20	58	46	14.3S 25.1E;	Busango Swamp Area, Zambia	3.1
17	00	25	15	USCGS 36.5N 71.4E;	Afghanistan-USSR Border reg.	5.2
X 17	04	04	39	6.6S 30.1E;	Central Lake Tanganyika Area	4.2
X 17	11	30	26	10.9S 34.2E;	Lake Malawi	4.3
X 17	11	40	51	7S 30E;	Central Lake Tanganyika Area	3.9
X 17	18	03(50)		6N 37E;	Gamu Gofa Region, Ethiopia	4.7
X 18	05	21	57	16.7S 28.6E;	Kariba	2.6
X 18	10	07	07	13.3S 26.7E;	Kasempa Area, Zambia	2.2
18	10	51	35	USCGS 29.1N 81.9E;	Nepal	5.2
18	14	07	40	USCGS 36.2N 111.7E;	E. China	4.9
18	17	24	32	USCGS 37.0N 121.8W;	Central California	5.0
X 18	20	38	50	26.5S 27.1E;	Witwatersrand	3.1
18	22	49	28	USCGS 33.6N 46.9E;	Iran-Iraq Border region	5.0
X 19	02	46	16	16.2S 30.3E;	N. Hunyani Range, Rhodesia	2.2
19	03	23	50	USCGS 37.5N 72.0E;	Tadzhik SSR	5.5
19	08	32	31	USCGS 41.5N 20.4E;	Albania	4.8
19	08	42	21	USCGS 28.5S 71.0W;	Near Coast of Central Chile	5.3
X 19	13	53	53	26.4S 27.9E;	Witwatersrand	3.5
19	14	40	41	USCGS 51.7N 176.9W;	Andreanof Is., Aleutians	4.8
X 20	07	38	01	16.7S 38.6E;	Kariba	2.2
* 20	11	34	26	USCGS 11.8N 93.0E;	Andaman Is. region	5.4
X 20	16	39	55	9.2S 33.1E;	Rungwe Mts. Area, Tanzania	2.9
* 20	08	48	52	USCGS 15.1S 167.6E;	New Hebrides Is.	5.1

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
20	17	07	49	USCGS 15.1S 167.4E; New Hebrides Is.	5.1
21	00	09	39	USCGS 42.1N 20.7E; Yugoslavia	4.7
X 21	00	53	15	26.4S 27.2E; Witwatersrand	3.1
X 21	02	12	59	15.4S 27.4E; Kafue Flats, Zambia	2.1
21	02	25	22	USCGS 21.8S 70.0W; Near Coast of N. Chile	6.3
21	05	17	54	USCGS 18.0S 69.3W; N. Chile	4.3
21	07	50	35	USCGS 16.4S 72.6W; Near Coast of Peru	5.0
X 21	09	20	22	6.7S 30.0E; Central Lake Tanganyika	3.3
21	11	42	25	USCGS 21.1S 179.2W; Fiji Is. region	4.5
X 21	16	47	13	26.3S 27.4E; Witwatersrand	2.7
21	17	45	54	USCGS 31.7S 179.1W; Kermadec Is.	5.1
21	23	43	11	USCGS 11.8N 93.1E; Andaman Is. region	5.0
22	04	55	44	Copperbelt region, Zambia ?	2.1
22	12	43	45	USCGS 7.4S 156.1E; Solomon Is.	4.9
X 22	13	54	06	26.5S 27.4E; Witwatersrand	3.1
X 22	16	43	55	7.5S 31.1E; Fipa Plateau, Tanzania	3.2
22	19	30	15	N. Lake Tanganyika Area, Tanzania	3.9
X 22	22	28	22	9.2S 35.9E; S. Tanzania	3.5
22	23	08	58	USCGS 29.9S 177.4W; Kermadec Is. region	5.4
X 23	06	29	34	6.4S 30.1E; Cent. Lake Tanganyika Area, Tanzania	3.2
23	07	08	57	USCGS 23.2S 66.3W; Jujuy Province, Argentina	4.1
X 23	12	51	50	26.5S 27.1E; Witwatersrand	3.1
23	13	23	15	USCGS 5.2S 151.8E; New Britain region	5.5
X 23	13	47	48	23.9S 31.4E; Phalaborwa, Transvaal	2.8
23	16	04	38	USCGS 48.2N 157.3E; Kurile Is. region	5.1
23	17	14	38	USCGS 11.0N 125.5E; Samar, Philippine Is.	5.3
24	02	24	58	USCGS 21.0S 178.0W; Fiji Is. region	5.0
X 24	08	12	40	12.0S 26.4E; W. Copperbelt, Zambia	3.8
X 24	15	38	04	16.7S 28.6E; Kariba	2.3
24	20	03	11	USCGS 17.4N 61.1W; Leeward Is.	6.4
24	21	32	31	USCGS 17.4N 61.3W; Leeward Is.	5.9
24	23	49	54	USCGS 17.5N 73.9E; India	5.5
X 25	00	44	38	26.2S 27.8E; Witwatersrand	3.2
25	01	23	34	USCGS 5.3S 153.7E; New Ireland region	-
25	10	41	32	USCGS 21.5S 70.4W; Near Coast of N. Chile	5.8
25	12	09	38	USCGS 4.9S 153.7E; New Ireland region	5.1
X 25	15	32	16	17.3S 27.1E; Choma Area, Zambia	2.6
25	17	14	15	USCGS 37.7S 77.9E; Mid-Indian Rise	5.2
25	17	37	39	USCGS 17.2N 73.9E; India	5.1
25	18	52	04	USCGS 5.2S 154.0E; Solomon Is.	5.1
25	21	19	52	USCGS 1.9S 12.7W; N. of Ascension Is.	5.0

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Date	G h	M m	T s	Epicentre: Remarks	Mag CGS
X 26	02	47	00	16.7S 28.5E; Kariba	2.1
26	08	52	42	USCGS 5.1S 153.7E; New Ireland region	5.2
26	09	29	39	USCGS 44.5N 129.7W; Off Coast of Oregon	5.1
26	10	40	41	USCGS 44.5N 129.7W; Off Coast of Oregon	5.0
26	14	34	28	USCGS 32.0S 178.0W; S. of Kermadec Is.	4.7
27	04	28	21	USCGS 5.0S 153.7E; New Ireland region	4.9
27	06	15	56	USCGS 23.8S 179.8E; S. of Fiji Is.	4.5
27	09	17	56	USCGS 21.2S 68.3W; Chile-Bolivia Border region	6.4
27	09	54	02	USCGS 21.3S 68.4W; Chile-Bolivia Border region	4.7
27	16	22	49	USCGS 22.3S 174.8W; Tonga Is. region	6.1
X 27	21	14	05	20.9S 33.0E; Spungabera Area, Mocambique	3.3
X 27	22	00	52	16.6S 28.3E; Kariba	2.2
28	06	26	16	USCGS 44.2N 128.8W; Off Coast of Oregon	5.4
28	07	01	37	USCGS 44.2N 129.0W; Off Coast of Oregon	4.9
28	07	36	50	USCGS 44.4N 128.8W; Off Coast of Oregon	4.4
28	07	42	45	USCGS 25.6S 179.7E; S. of Fiji Is.	4.3
X 28	17	56	31	1.0S 31.4E; W. of Lake Victoria	3.6
28	22	11	34	USCGS 44.2N 128.9W; Off Coast of Oregon	5.0
29	00	15	37	USCGS 44.3N 128.9W; Off Coast of Oregon	4.3
29	05	10	26	USCGS 5.7S 153.6E; New Ireland region	4.6
X 29	13	04	17	1.3N 34.0E; Mt. Elgon Area, Uganda	4.2
X 29	13	46	48	1.3N 34.0E; Mt. Elgon Area, Uganda	4.1
X 29	15	43	17	1.3N 34.0E; Mt. Elgon Area, Uganda	4.1
X 29	16	07	03	1.3N 34.0E; Mt. Elgon Area, Uganda	4.1
X 29	17	58	07	26.2S 28.2E; Witwatersrand	3.6
29	19	49	24	USCGS 41.5N 20.4E; Albania	4.7
29	20	29	32	USCGS 22.8S 175.3W; Tonga Is. region	5.3
29	22	23	06	USCGS 22.7S 175.2W; Tonga Is. region	5.1
X 29	23	08	26	28.1S 26.6E; O.F.S. Goldfields	3.4
X 29	23	39	13	1.3N 34.0E; Mt. Elgon Area, Uganda	4.0
30	00	07	13	USCGS 3.1N 126.5E; Talaud Is.	5.2
X 30	02	00	52	19.9S 26.5E; N.E. Makarikari Depression	2.3
30	02	14	20	USCGS 25.7S 70.3W; Near Coast of N. Chile	5.0
30	04	19	21	USCGS 44.7N 12.2E; N. Italy	5.3
X 30	10	27	22	2.8S 29.1E; W. Ruanda-Burundi	4.0
X 30	13	02	19	26.4S 27.5E; Witwatersrand	3.0
30	13	05	00	USCGS 21.1S 66.1W; S. Bolivia	4.2
X 30	14	30	39	12.8S 34.4E; Central Lake Malawi	3.7
31	02	29	41	USCGS 51.9N 171.8W; Fox Islands, Aleutians	4.9
31	15	05	32	USCGS 7.1S 154.8E; Solomon Is.	5.4
31	23	48	13	USCGS 35.7N 120.7W; Central California	4.6

## LIST OF RECORDED PHASES: 01 to 02 DEC 1967 - 1

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
01	BUL	eP	04	05	17		0.3	Uganda	
		eL		11	04				
	BHA	iL		08	05		0.7		
	KRR	eL		10	04		0.5		
01	BUL	eP	05	01	37		0.3	Uganda	
		iL		03	06				
	BHA	iL		05	23		0.6		
	KRR	eL		06	21		0.4		
01	BUL	ePn	10	01	22		0.3	Witwatersrand	
		eSg		03	01				
	KRR	eSgSg		04	49		0.2		
01	BHA	iP'	14	15	46	C	1.2	Distant	
		KRR	eP'		49		1.7		
		epP'		16	30				
		eSKP		18	15				
	BUL	eP'		15	55		1.0		
		epP'		16	35				
		iLKP		19	17				
01	KRR	eP	16	48	24		0.3	Distant	
	BUL	eP			28		0.5		
	BHA	eP			29		0.3		
02	BHA	eP'	00	50	40		0.3	Distant	
		KRR	eP'		44		0.3		
	BUL	eP'		46			0.2		
02	BUL	eP	07	25	05		0.2	Distant	
		KRR	eP		29		0.4		
	BHA	eP		30			0.1		
02	BUL	ePn	08	30	38		0.4	Witwatersrand	
		eSn		31	45				
		eSg		32	14				
	KRR	eSg		33	58		0.3		
	BHA	eL		35	12		0.1		
02	BUL	ePn	09	05	29		0.9	O.F.S. Goldfields	
		eSn		06	56				
		eSg		07	40				
	KRR	ePn		06	14		0.7		
		eSn		08	15				
		eSg		09	24				
	BHA	eSgSg		10	36		0.4		
02	BHA	eP	12	54	21		0.2	Distant	
		KRR	eP		39		0.8		
	BUL	eP		55	01		0.6		
02	BHA	ePn	12	56	09		1.3	Kondoa Area, Tanzania	
		eSn		58	23				
		eSg		59	44				
	KRR	eSgSg	13	00	10		0.5		
	BUL	eL		02	24		0.2		
02	BHA	eSn	15	16	57		0.7	L. Kyoga Area, Uganda	
		eL		19	00				
	KRR	eSn		17	55		0.4		
		eL		20	00				
	BUL	eL		21	38		0.2		

## LIST OF RECORDED PHASES: 02 to 04 DEC 1967 - 2

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
02	BUL	eP	16	36	18		0.4	Distant	
		epF			29				
	KRR	eP			45		0.5		
		epF			57				
	BHA	eP	37	06			0.4		
		epF			19				
02	BUL	e	21	00	38		0.3	Distant	
	KRR	e			59		0.2		
	BHA	i	01	10		C	0.3		
03	BHA	iPg	13	25	21	C	5.5	Kafue Gorge, Zambia	
		iSg			40				
	KRR	eiPg			22		6.5		
		eiSg			42				
	BUL	ePg	26	12			0.4		
		eSn			50				
		eSg	27	07					
03	BUL	eP	14	33	43		0.3	Distant	
	KRR	eP		34	00		0.2		
	BHA	eP			14		0.2		
03	BUL	eP	15	09	17		0.2	Distant	
	KRR	iP			38	C	0.4		
	BHA	eP			50		0.2		
04	BUL	ePn	03	04	38		6.0	Witwatersrand	
		eSn		05	45				
		eSg		06	10				
	KRR	ePn		05	22		2.1		
		eSn		07	05				
		eSg			58				
	BHA	iPn		05	53	C	0.6		
		iSn		08	00				
		eSg		09	09				
04	BHA	i	08	41	28	C	0.2	Distant	
	KRR	i			35	C	0.2		
	BUL	i			45	C	0.2		
04	BHA	e	09	08	22		0.2	Distant	
	KRR	e			31		0.3		
	BUL	e			36		0.3		
04	BHA	ePg	12	04	30		1.6	Kafue Gorge, Zambia	
		eSg			48				
	KRR	iPg			32	R	1.6		
		iSg			51				
	BUL	eSg		06	16		0.2		
04	BUL	eP	13	01	45		0.4	Distant	
	KRR	eP		02	04		0.4		
	BHA	eP			18		0.2		
04	BUL	ePn	13	13	10		0.3	N. Okavong Swamp	
		eSn		14	05				
		eSg			40				
	KRR	eSg		15	29		0.3		
04	KRR	iP	15	46	07	C	0.4	Distant	
	BUL	iP			28	C	0.4		

LIST OF RECORDED PHASES: 04 to 05 DEC 1967 - 3

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA	Epicentral region:	Remarks
			h	m	s		mm		
04	BUL	ePn	15	48	02		1.5	Witwatersrand	
		eSn		49	10				
		eSg			40				
	KRR	ePn		48	49		1.0		
		eSn		50	27				
		eSg		51	20				
	BHA	ePn		49	17		0.4		
		eSn		51	26				
		eSg		52	35				
04	BHA	ePn	19	04	07		1.1	S. Lake Rukwa, Tanzania	
		eSn		05	25				
		eSg		06	04				
	KRR	ePn			00		0.6		
		eSg			47				
	BUL	eSg		08	38		0.3		
04	BUL	eP	19	11	44		0.6	Distant	
	KRR	eP		12	03		0.4		
	BHA	eP			13		0.2		
04	BUL	eP	20	00	06		0.3	Distant	
	KRR	eP			23		0.2		
	BHA	eP			36		0.2		
04	BUL	eP	20	04	17		0.3	Distant	
	KRR	eP			37		0.2		
	BHA	eP			46		0.2		
04	BUL	eP	20	39	51		0.2	Distant	
	KRR	eP		40	10		0.2		
	BHA	eP			21		0.2		
04	KRR	e	21	49	31		0.2	Distant	
	BHA	e			33		0.2		
	BUL	e			52		0.3		
04	BUL	e	22	26	01		0.2	Distant	
	KRR	e			07		0.4		
	BHA	i			17	C	0.2		
04	KRR	eP'	22	38	05		0.3	Distant	
		epP'			24				
	BUL	eiP'			10	cR	1.9		
		eipP'			25				
05	BHA	iP	05	28	52	R	0.2	Distant	
	KRR	iP		29	09	R	0.8		
	BUL	iP			34	R	0.8		
05	BHA	e	09	24	31		0.2	Distant	
		e			33		0.2		
	BUL	e			55				
		i			44	C	4.6		
		i			58				
05	BHA	e	11	29	09		0.2	Distant	
	KRR	i			12	R	0.8		
	BUL	i			12	C	0.2		
05	BHA	e	18	55	05		0.2	Distant	
	KRR	i			10	C	0.5		
	BUL	i			11	C	0.3		
		e			30				

LIST OF RECORDED PHASES: 05 to 07 DEC 1967 - 4

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
05	BUL	ePn	21	32	41		1.1	W. Witwatersrand	
		eSn		33	51				
		eSg		34	23				
	KRR	ePn		33	27		0.9		
		eSn		35	08				
		eSg		36	12				
BHA	ePn		33	56		0.2			
	eSn		36	04					
	eSgSg		37	20					
06	BUL	iP	01	21	20	R	0.2	Distant	
	KRR	eP			50		0.2		
	BHA	eP		22	09		0.1		
06	BHA	e	03	11	45		0.2	Distant	
		BUL			45		0.2		
		KRR			47		0.6		
06	KRR	i	04	52	28	R	0.2	Distant	
		BHA			35		0.2		
		BUL			35		0.2		
06	BUL	e	05	21	42		0.1	Distant	
		i			50				
	KRR	i		24	24				
		e		21	46		0.2		
		i			55				
		i		24	32				
BHA	e		21	51		0.2			
	i		22	00					
		i		24	40				
06	BUL	iP'	09	59	57	C	0.6	Distant	
		iSKP	10	03	01				
	KRR	iP'	09	59	59	C	1.0		
		eSKP	10	03	08				
	BHA	iP'		00	04	C	0.3		
		iSKP		03	15				
06	BUL	ePn	11	59	52		0.3	Witwatersrand	
		eSn	12	01	00				
		eSg			30				
	KRR	ePn		00	39		0.2		
		eSn		02	19				
		eSg		03	05				
06	BUL	ePn	12	11	53		0.2	Witwatersrand	
		eSn		12	54				
		eSg		13	31				
KRR	eSg		15	05		0.2			
06	BHA	eSn	13	06	58		0.5	Uluguru Mts., Tanzania	
		eSgSg		08	12				
	KRR	eL			50		0.3		
	BUL	eS		10	31		0.1		
06	KRR	i	22	29	33	C	0.5	Distant	
		BHA			37		0.2		
		BUL			50		0.3		
07	KRR	e	07	43	(50)		0.2	Distant	
		BUL		44	05	C	1.7		
07	KRR	e	10	00	19		0.3	Distant	
		BUL			25		0.3		
		BHA			29		0.2		



LIST OF RECORDED PHASES: 07 to 09 DEC 1967 - 5\*

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
07	BUL	eIP'	10	08	24	cR	1.2	Distant	
	KRR	eIP'			25	cR	1.8		
	BHA	eP'			31		0.7		
		eSKP	11	40					
07	BUL	i	20	46	59	C	0.4	Distant	
	KRR	i		47	04	C	0.5		
	BHA	e			09		0.2		
08	BUL	e	02	19	27		0.2	Distant	
	KRR	e			43		0.2		
	BHA	e			45		0.1		
08	KRR	iP	06	16	04	C	0.6	Distant	
	BUL	iP			22	C	0.3		
08	KRR	ePn	06	45	04		0.4	S. Highlands, Tanzania	
		eSn		46	39				
		eSg		47	33				
	BUL	eL		49	05		0.2		
08	KRR	iP	08	22	10	R	0.8		
		eS		25	32				
		eL		27	35				
	BUL	iP		22	44	R	0.3		
		eL		29	20				
08	BUL	ePn	08	52	58		0.7	Witwatersrand	
		eSn		54	08				
		eSg			39				
	KRR	ePn		53	45		0.6		
		eSn		55	27				
		eSg		56	23				
08	BUL	e	12	14	24		0.2	Distant	
	KRR	e			32		0.2		
09	BUL	eP'	05	46	42		0.4	Distant	
		iSKP		49	07				
	KRR	eP'		46	47		0.7		
		iSKP		49	20				
	BHA	eP'		46	50		0.4		
	eSKP		49	29					
09	KRR	i	07	01	34	C	0.2	Distant	
	BUL	i		02	09	R	0.2		
	BHA	e			27		0.1		
09	BUL	e	08	13	39		0.3	Distant	
	KRR	e			(50)		0.3		
	BHA	i			51	C	0.3		
09	BUL	i	09	38	47	C	0.6	Distant	
	BHA	e			56		0.1		
	KRR	e			57		0.1		
09	BUL	e	11	09	53		0.2	Distant	
	KRR	e			55		0.2		
	BHA	e		10	01		0.1		
09	BUL	ePn	13	07	15		0.4	Witwatersrand	
		eSn		08	25				
		eSg			58				
	KRR	eSgSg		10	39		0.2		
09	KRR	e	22	30	43		0.2	Distant	
	BUL	e			49		0.3		

LIST OF RECORDED PHASES: 09 to 12 DEC 1967 - 6

DATE	Stn	Phase	G	M	T	R	DA	Epicentral region;	Remarks
			h	m	s	C	mm		
09	BUL	e	23	53	24		0.2	Distant	
	KRR	e			41		0.2		
10	BUL	e	03	55	04		0.2	Distant	
	KRR	i			17	C	0.2		
	BHA	e			19		0.1		
10	KRR	i	11	52	21	C	0.3	Distant	
	BUL	e			25		0.3		
	BHA	i			34	C	0.2		
10	BHA	e	12	26	29		0.9	Distant	
	KRR	e			35		1.5		
	BUL	e			38		0.8		
10	BHA	e	15	56	22		0.2	Distant ?	
	KRR	e			44		0.1		
	BUL	e			58		0.1		
10	BHA	i	18	54	57	R	0.7	Distant	
	KRR	i			59	R	0.6		
	BUL	i			55 12	R	1.1		
10	BHA	eP	23	00	50		5.5	Distant	
		eS			08 31				
		eSNE			10 23				
		e			30 50				
	KRR	eP			00 54		2.0		
		e			31 18				
	BUL	eP			01 13		6.0		
		eS			09 22				
11	BHA	iP	00	01	45	C	0.3	Distant	
	KRR	eP			48		0.1		
	BUL	eP			02 07		0.5		
11	KRR	ePn	13	05	20		18.	S. Malawi	
		eSn			06 16				
		eSg			40				
	BHA	ePn			05 34		-		
		eSn			05 40				
		eSg			07 10				
	BUL	ePn			05 48		9.5		
		iSn			07 05				
		eSg			45				
11	BHA	eP	19	12	35		0.2	Distant	
	KRR	eP			40		0.2		
	BUL	eP			13 05		0.2		
11	BHA	iP	19	55	44	R	0.2	Distant	
	KRR	iP			54	R	0.7		
	BUL	iP			56 20	C	0.6		
11	BHA	i	20	59	19	C	0.3	Distant	
	KRR	e			23		0.2		
	BUL	i			40	R	0.5		
11	BHA	iP	22	37	19	C	1.0	Distant	
		e			42 57				
	KRR	ciP			37 30	rC	2.0		
	BUL	eiP			54	rC	1.7		
12	BHA	eP	03	29	49		0.3	Distant	
	KRR	eP			54		0.3		
	BUL	eP			30 15		0.3		

LIST OF RECORDED PHASES: 12 to 14 DEC 1967 - 7

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
12	BHA	i	06	28	05	R	0.4	Distant	
	KRR	e			07		0.3		
	BUL	e			26		0.5		
12	BHA	i	15	58	23	R	0.6	Distant	
		e			41				
	KRR	i			25	R	0.2		
		e			43				
	BUL	i			45	R	0.7		
13	BHA	eiP	10	57	07	cR	0.9	Distant	
		iPP		58	52				
		eS	11	04	35				
	KRR	eiP	10	57	09	ck	2.2		
		iPP		58	55				
	BUL	eiP		57	13	cR	1.1		
		iPP		59	14				
		eS	11	05	12				
13	KRR	e	15	49	24		0.2	Distant	
	BHA	e			26		0.1		
	BUL	e			28		0.6		
13	BHA	eSn	16	13	49		0.9	Mt. Hanang Area, Tanzania	
		eSgSg		14	55				
	KRR	eSn			25		0.7		
		eL		15	59				
	BUL	eL		17	55		0.4		
13	BUL	i	19	26	10	C	4.2	Distant	
	BHA	i			13	C	4.2		
	KRR	i			18	C	3.0		
13	BHA	e	19	35	20		0.1	Distant	
	KRR	e			46		0.2		
	BUL	e			50		0.2		
13	BUL	ei	21	06	03	rC	0.5	Distant	
	KRR	ei			04	rC	0.3		
	BHA	ei			07	rC	0.3		
13	BUL	e	21	53	15		0.1	Distant	
		i			27				
	KRR	e			19		0.1		
		i			30				
	BHA	i			27		0.2		
14	BHA	eP	02	27	44		0.2	Distant	
	KRR	eP			51		0.5		
	BUL	eP			16		0.5		
14	BHA	eP	03	03	37		0.1	Distant	
	KRR	eP			54		0.3		
	BUL	eP		04	20		0.2		
14	BUL	ei	03	33	38	rC	0.7	Distant	
		i		34	12				
	KRR	e		33	18		0.3		
		e		34	24				
	BHA	e		33	51		0.2		
	e		34	25					
14	KRR	e	08	44	25		0.2		
	BUL	e			50		0.1		

LIST OF RECORDED PHASES: 14 to 15 DEC 1967 - 8

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
14	BUL	e	14	58	37		0.2	Distant	
	KRR	e			40		0.2		
	BHA	e			44		0.1		
14	BUL	iP	17	16	10	R	0.3	Distant	
	KRR	iP			35	R	0.3		
	BHA	eP			46		0.2		
14	BHA	e	18	44	18		0.2	Distant	
		i			37				
	KRR	i			18	C	0.3		
		i			39				
	BUL	e		47	27				
		i		44	23		0.2		
		i			45				
		i			47	39			
14	BHA	i	19	27	22	C	0.2	Distant	
	KRR	i			24	C	0.3		
	BUL	i			41	C	0.3		
14	BUL	ePn	21	01	01		0.6	Witwatersrand	
		eSn		02	10				
		eSg			42				
	KRR	eSgSg		04	25		0.3		
14	KRR	i	22	06	27	C	0.2	Distant	
	BHA	i			32	C	0.2		
	BUL	i			42	C	0.2		
14	BUL	i	23	45	10	R	0.4	Distant	
	KRR	i			10	R	0.2		
	BHA	i			15	R	0.3		
15	BUL	ePn	00	19	18		0.7	Witwatersrand	
		eSn		20	28				
		eSg		21	01				
	KRR	ePn		20	05		0.3		
		eSn		21	50				
		eSgSg		22	48				
15	BHA	eSn	16	19	57		0.7	W. Tanzania	
		eSg		20	44				
	KRR	eSn		20	51		0.3		
		eSgSg		21	49				
	BUL	eL		23	51		0.2		
15	BUL	ePn	19	05	37		0.8	Witwatersrand	
		eSn		06	46				
		eSg		07	14				
	KRR	eSgSg		08	55		0.3		
15	BUL	i	19	58	05	C	0.2	Distant	
	KRR	i			06	C	0.2		
	BHA	e			11		0.1		
15	BUL	i	20	06	08	cR	0.9	Distant	
		e			25				
	KRR	i			11	cR	1.2		
		e			29				
	BHA	ci			18	cR	0.5		
		c			36				
15	KRR	ePn	21	15	06		0.7	Zambesi-Shire Confluence, Malawi	
		eSn		16	07				
		eSg			32				
	BUL	eSn			34		0.4		
		eSg		17	11				

LIST OF RECORDED PHASES: 15 to 17 DEC 1967 - 9

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks	
15	BUL	iPn	21	36	20		0.8	Witwatersrand		
		eSn		37	29					
		eSg		38	01					
	KRR	iPn		37	07		0.6			
		eSn		38	50					
		eSg		39	48					
BHA	ePn		37	35		0.2				
15	BUL	e	22	22	14		0.2	Distant		
	KRR	e			21		0.1			
	BHA	e			27		0.1			
16	BUL	e	11	59	02		0.3	Distant		
	KRR	e			13		0.2			
16	BUL	i	13	32	06	C	0.3	Distant		
	KRR	i			10	C	0.6			
	BHA	e			16		0.2			
16	BUL	i	15	13	52	C	0.3	Distant		
		e		14	23					
	KRR	i			04	C	0.5			
		e			25					
		e			35					
	BHA	i			07		0.4			
i				28						
e				38						
16	BHA	ePn	20	59	37		5.2	Busango Swamp Area	Zambia	
		iPg			46					
		iSn	21	00	12					
	KRR	iSg			26		1.8			
		eP*			08					
		iSn			53					
	BUL	iL		01	21		0.7			
		ePn		00	26					
		eSn		01	36					
		iSg		02	12					
iL				18						
16	BHA	e	21	12	53		1.0	Distant		
	KRR	i		13	01	R	1.2			
	BUL	i			03	R	0.8			
e				15	00					
17	BHA	eP	00	35	47		0.3	Distant		
	KRR	eP			54		0.7			
	BUL	eP		36	15		1.1			
		eS		45	16					
17	BHA	ePn	04	06	35		5.3	Central Lake Tanganyika Area		
		iSn		08	02					
		eSg			47					
	KRR	ePn		07	04		2.4			
		iSn		08	52					
		iSg		09	52					
		iL		10	01					
	BUL	eP		07	51		0.9			
		eS		10	09					
		iL		11	41					

LIST OF RECORDED PHASES: 17 to 18 DEC 1967 - 10

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
17	BHA	ePn	11	32	05		8.8	Lake Malawi	
		iSn		33	18				
		iSg			52				
	BUL	eFn		32	58		3.0		
		eSn		34	59				
KRR	eSg		35	53		7.			
17	BHA	cPn	11	42	47		2.7	Central Lake Tanganyika Area	
		eSn		44	11				
		eSg			57				
	BUL	eP			03		0.5		
		eS		46	23				
		iL		47	56				
KRR	eSg		46	07		1.6			
17	BHA	eP	18	06	41		1.3	Bahr El Ghazal Area, Sudan	
		iL		15	14				
	BUL	eP		09	30		0.7		
		iL		18	04				
18	BUL	eP	00	55	16		0.4	Distant	
		ipP			25				
	BHA	eP		56	06		0.2		
		epP			14				
18	KRR	eP	05	22	15		7.	Kariba	
		iS			28				
	BHA	ePn			32		3.8		
		iPg			35				
		eSn			59				
	BUL	iSg		23	04				
		ePn		22	51		1.8		
		iPg		23	00				
		iSn		30					
		iSg		43					
18	BHA	ePn	10	07	41		1.5	Kasempa Area, Zambia	
		eSg		08	11				
	KRR	ePn			15		0.5		
		eSn		09	04				
	BUL	eSg		10	42		0.1		
18	BUL	i	10	28	46	R	0.2	Distant	
		i			51	R	0.2		
18	BHA	e	11	02	37		0.2	Distant	
		e			42		0.2		
		e		03	00		0.2		
18	BHA	e	14	20	51		0.2	Distant	
		i		21	03				
	KRR	e		20	55		0.1		
		i		21	05				
	BUL	e			06		0.1		
		i			17				
18	BHA	e	17	44	12		0.3	Distant	
		e			20		0.5		
		e			24		0.2		

LIST OF RECORDED PHASES: 18 to 20 DEC 1967 - 11

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
18	BUL	ePn	20	40	25		0.6	Witwatersrand	
		eSn		41	35				
		eSg		42	07				
	KRR	ePn		41	11		0.4		
		eSn		42	55				
	BHA	eSgSg		43	55				
18	EHA	eL		45	02		0.1	Distant	
		eP	22	58	29		0.1		
	e			39					
	KPR	eP			42		0.1		
		e			52				
	BUL	eF		59	04		0.1		
19	KRR	eP	02	46	34		3.0	N. Hunyani Range, Rhodesia.	
		iS			47				
	BHA	ePn			53		1.0		
		eSn		47	21				
	BUL	ePn			19		0.8		
		eSn		48	04				
19	KRR	e	03	34	40		0.2	Distant	
	BUL	e		35	01		0.2		
	BHA	e			05		0.1		
19	KRR	i	08	42	29	C	0.2	Distant	
		BUL	i		49	C	0.2		
19	BUL	e	08	55	14		0.3	Distant	
		i			28				
	KRR	e			27		0.3		
		i			40				
	BHA	e			29		0.2		
		i			42				
19	BUL	ePn	13	55	24		1.0	Witwatersrand	
		eSn		56	31				
		eSg		57	02				
	KRR	ePn		56	10		0.7		
		eSn		57	54				
	BHA	eSgSg		58	47				
EHA	eP		56	42		0.4			
	eL	14	00	03					
19	BHA	e	15	00	02		0.1	Distant	
	KRR	e			04		0.2		
	BUL	e			06		0.2		
20	KRR	eP	07	38	20		4.0	Kariba	
		iS			34				
	BHA	ePn			39		1.6		
		eSn		39	07				
	BUL	eSg			13				
		eSn			34		0.8		
20	BUL	eSg			48				
		e	09	07	42		0.4	Distant	
	KRR	i		45	R	0.5			
BHA	i		49	R	0.2				
20	KRR	ei	11	45	26	rC	1.6	Distant	
		BHA	ei		27	rC	2.9		
	BUL	e		36		1.4			

LIST OF RECORDED PHASES: 20 to 21 DEC 1967 - 12

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks	
20	BHA	eSn	16	42	51		0.5	Rungwe Mts. Area, Tanzania		
		eSg		43	29					
	KRR	eSn			27		0.2			
		eSgSg		44	11					
20	BUL	ei	17	26	37	cR	2.1	Distant		
	KRR	ei			40	cR	3.2			
	BHA	ei			44	cR	1.4			
21	KRR	e	00	19	42		0.1	Distant		
	BUL	e		20	02		0.1			
21	BUL	ePn	00	54	47		0.5	Witwatersrand		
		eSn		55	56					
		eSg		56	29					
		KRR	eSgSg		58	18			0.4	
21	BHA	eP	02	13	23		2.5	Kafue Flats, Zambia.		
		eS			44					
		KRR	ePn			41			0.9	
	BUL	eSn		14	10					
		eSg			17					
		eSg		15	27		0.2			
21	BUL	eP	02	38	20		10.	Distant		
		iPP		41	55					
		eS		49	20					
		ePKKP		55	48					
		eP'P'	03	04	04					
		BHA	eP	02	38	32			4.0	
			iPP		42	13				
			iS		49	35				
		KRR	ePKKP		55	50				
			eP'P'	03	04	12				
			eP	02	38	33			2.5	
			iPP		42	14				
eS			49	47						
ePKKP			55	45						
eP'P'	03	04	15							
21	BUL	i	05	30	14	R	0.4	Distant		
	BHA	e			54		0.1			
	KRR	e			55		0.1			
21	BUL	i	08	05	46	R	0.5	Distant		
	KRR	e		04	16		0.2			
	BHA	e			16		0.1			
21	BHA	ePn	09	22	14		0.5	Central Lake Tanganyika		
		eSn		23	34					
		eSg		24	23					
	KRR	eSn			31		0.4			
		eSg		25	30					
	BUL	eL		27	20		0.2			
21	BUL	i	12	02	57	C	0.3	Distant		
	KRR	i		03	04	C	0.3			
	BHA	i			12	C	0.2			
21	BUL	ePn	16	48	43		0.3	Witwatersrand		
		eSn		49	55					
		eSg		50	25					
		KRR	eSgSg		52	10			0.1	
21	BUL	e	18	04	50		0.5	Distant		
	KRR	e			52		0.4			
	BHA	e			58		0.3			



LIST OF RECORDED PHASES: 21 to 23 DEC 1967 - 13

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks		
			h	m	s	C	mm				
21	KRR	i	23	54	15	R	1.7	Distant			
		i			30						
	BHA	i	17	R	2.4						
	BUL	i	34	R	0.9						
i		45									
22	BHA	iP	04	56	10		2.2	Copperbelt Region Zambia?			
		eS			32						
	KRR	eSn	57	25	0.3						
		eSg	41								
BUL	eSg	59	07	0.1							
22	BUL	i	13	02	35	R	0.4	Distant			
		KRR			e				35	0.1	
		BHA			e				37	0.1	
22	BUL	ePn	13	55	39		0.5	Witwatersrand			
		eSn			56				51		
		eSg			57				20		
	KRR	ePn	56	26	0.3						
		eSn	58	10							
		eSgSg	59	02							
22	BUL	e	16	27	43		0.3	Distant			
		KRR			e				28	10	0.2
		BHA			e				10	0.1	
22	KRR	ePn	16	46	14		0.3	Fipa Plateau, Tanzania.			
		eSn			47				54		
		eSgSg			48				49		
	BHA	eSn	47	05	0.5						
		eSg	50								
		BUL	eSgSg	50		23	0.3				
22	KRR	eP	19	33	05		0.6	N. Lake Tanganyika Area, Tanzania.			
		eS			35				12		
		eL			36				33		
	BUL	eP	33	49	0.4						
		eS	36	26							
		eL	38	11							
BHA	eSgSg	35	20	1.4							
22	KRR	ePn	22	30	43		0.5	Southern Tanzania.			
		eSn			32				30		
		eSgSg			33				23		
	BHA	eSg	32	53	0.6						
BUL	eL	35	05	0.3							
22	BUL	iP'	23	27	58	R	0.5	Distant			
		KRR			iP'				28	03	R
		eFT	30	10							
		eSKP	31	25							
	BHA	eP'	28	09	0.2						
		ePP	30	19							
		eSKP	31	29							
23	KRR	ePn	06	32	03		0.3	Central Lake Tanganyika Area, Tanzania.			
		eSn			33				53		
		eSg			34				55		
	BHA	eSn	32	58	0.4						
		eSg	33	43							
BUL	eL	36	44	0.2							

LIST OF RECORDED PHASES: 23 to 24 DEC 1967 - 14

Date	Stn	Phase	G h	M m	T s	R C	DA mm	Epicentral region:	Remarks
23	BUL	i	07	21	13	R	0.4	Distant	
	KRR	e			25		0.3		
	BHA	e			25		0.2		
23	BHA	e	11	43	37		0.1	Distant	
	KRR	i			48	C	0.2		
23	BUL	ePn	12	53	27		0.7	Witwatersrand	
		sSn		54	37				
		eSg		55	09				
	KRR	ePn		54	14		0.3		
		eSn		55	57				
		eSgSg		56	52				
23	BUL	i	13	41	58	C	0.9	Distant	
		i		42	10				
	KRR	i		41	58	C	0.7		
		i		42	12				
23	BHA	i			02	C	0.7		
		i			15				
23	BUL	ePn	13	48	52		0.8	Phalaborwa, Transvaal.	
		eSg		50	07				
	KRR	eSg		51	36		0.4		
23	BHA	e	16	23	40		0.2	Distant	
	KRR	i			42	C	0.2		
	BUL	e			47		0.1		
23	KRR	e	17	28	01		0.1	Distant	
	BHA	e			03		0.1		
	BUL	e			29		0.2		
24	BUL	eP'	02	43	22		0.7	Distant	
		eSKP		46	06				
	KRR	eP'		43	27	rC	0.6		
		iSKP		46	14				
	BHA	eP'		43	32		0.3		
	eSKP		46	22					
24	BHA	iPn	08	13	31	C	26.	W. Copperbelt, Zambia.	
		iPg			39				
		iSn		14	05				
		iSg			(20)				
	KRR	iPn			06		6.7		
		iSn		15	05				
		iS*			23				
		iSg			36				
BUL	ePn		14	42			1.8		
	eSn		16	11					
	iL		17	05					
24	BHA	e	14	09	04		0.3	Distant	
		e			39				
	KRR	e			05		0.3		
		e			41				
	BUL	e			19		0.3		
	e			54					
24	KRR	eP	15	38	51		4.7	Kariba.	
		iS		39	04				
	BHA	ePg			12		2.2		
		eSn			35				
		iSg			40				
	BUL	ePg			37		0.8		
	iSn		40	06					
	iSg			20					

LIST OF RECORDED PHASES: 24 to 25 DEC 1967 - 15

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks	
			h	m	s	$\bar{C}$	mm			
24	BHA	eP	20	16	30		2.4	Distant		
		ePP		20	16					
		eSKS		27	09					
	BUL	ePKKP		33	35		1.3			
		eP		16	36					
		ePP		20	29					
	KRR	eSKS		27	17		1.5			
		iPKKP		33	30					
		eP		16	37					
24	BHA	eP	21	45	51		1.8	Distant		
		BUL	iP		58	R			0.6	
	KRR	iP		46	00	R	0.9			
		ePP		49	58					
24	BHA	eP	23	59	23		0.2	Distant		
	KRR	eP			26		0.2			
	BUL	eP			44		0.3			
25	BUL	ePn	00	46	11		0.9	Witwatersrand		
		eSn		47	19					
		eSg			49					
	KRR	eSg		49	32		0.5			
		iL			38					
25	BUL	ePd	01	38	46		0.2	Distant		
		iP'		42	20	C			8.8	
		iPP		43	47					
	KRR	ePKKP		52	27		0.2			
		ePd		38	49					
		iP'		42	20	C			4.3	
	BHA	ePKKP		52	26		0.2			
		ePd		39	04					
		iP'		42	24	C			4.7	
25	BHA	e	10	42	41		0.1	Distant		
	BUL	i			43	R	0.3			
	KRR	i			44	R	0.2			
25	BUL	eP	10	54	32		0.8	Distant		
		ipP			45					
		iPP		58	06					
		eSKS		11	05	02				
		ePKKP		11	57					
	BHA	eP	10	54	43		0.3			
		ipP			56					
		iPP		58	17					
	KRR	eSKS		11	05	05		0.4		
		ePKKP		11	54					
		eP	10	54	43					
		ipP			56					
		iPP		58	20					
25	BUL	i	12	28	20	R	0.6	Distant		
	KRR	e			20		0.3			
	BHA	i			24	R	0.3			
25	BHA	e	13	38	19		0.1	Distant		
	BUL	i			30	C	0.5			
	KRR	e			31		0.6			

LIST OF RECORDED PHASES: 25 to 27 DEC 1967 - 16

Date	Sta	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	$\frac{R}{C}$	mm		
25	KRR	ePn	15	32	53		5.0	Choma Area, Zambia.	
		iP*			55				
		iSn		33	20				
		eSg			25				
	BUL	eP*			10		1.7		
		iPg			15				
		eSg			56				
	BHA	ePg			12		2.2		
		eSg			51				
25	BUL	eP	17	22	36		0.6	Distant	
	KRR	eP			45		0.3		
	BHA	eP		23	03		0.3		
25	BHA	eP	17	47	09		0.2	Distant	
	BUL	eP			31		0.2		
25	KRR	e	19	14	43		0.2	Distant	
	BHA	e			57		0.1		
25	BHA	e	21	27	49		0.2	Distant	
	BUL	i		28	01	C	0.6		
	KRR	i			02	C	0.9		
25	BUL	e	23	17	20		0.1	Distant	
	KRR	e			21		0.1		
26	BUL	e	00	03	39		0.1	Distant	
	KRR	e			40		0.1		
26	KRR	iP	02	47	19		3.0	Kariba	
		iS			32				
	BHA	ePg			40		1.3		
		eSn			05				
		iSg			09				
	BUL	ePg		48	02		0.4		
		eSg			48				
26	BUL	ei	09	11	28	cR	1.2	Distant	
	KRR	ei			28	cR	0.5		
	BHA	ei			32	cR			
26	BHA	e	09	49	12		0.3	Distant	
	KRR	e			19		0.3		
	BUL	e			23		0.3		
26	BUL	eP	10	24	02		0.2	Distant	
	KRR	ei			22		0.2		
26	BHA	e	11	00	16		0.3	Distant	
	KRR	e			21		0.3		
	BUL	e			28		0.4		
26	BUL	e	14	53	20		0.1	Distant	
	KRR	e			29		0.1		
27	BUL	e	04	47	00		0.4	Distant	
		e			25				
	KRR	e			25		0.2		
	BHA	e			40		0.3		
27	BUL	eP	06	36	37		0.2	Distant	
	KRR	iP			40	C	0.3		
	BHA	eP			53		0.2		

LIST OF RECORDED PHASES: 27 to 28 DEC 1967 - 17

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
27	BUL	iP	09	30	37	R	9.8	Distant	
		ipP		31	11				
		iSKS		41	16				
		ePKKP		48	13				
	BHA	eP'P'		56	17				
		iP		30	47	R	2.5		
		ipP		31	21				
		iSKS		41	38				
	iPKKP		48	10					
	KRR	eP'P'		56	16				
		iP		30	48	R	3.1		
		ipP		31	22				
eSKS			41	38					
iPKKP		48	09						
27	BUL	e	10	06	46		0.3	Distant	
	BHA	e		56			0.1		
	KRR	e		56			0.2		
27	BUL	eP'	16	42	01		1.4	Distant	
		ipP'			21				
		ePP		44	29				
		eSKP		45	31				
	KRR	ePKS			58				
		eP'		42	06		1.3		
	BHA	ePP		44	33				
		ePKS		46	05				
		eP'		42	15		1.3		
		ePKS		46	17				
27	BUL	ePn	21	15	06		2.7	Spungabera Area, Mocambique.	
		ipg			18				
		eSn			52				
		iSg		16	09				
	KRR	ePn		15	21		3.0		
		eSn		16	19				
		eSg			43				
	BHA	ePn		15	57		1.0		
		eSn		17	19				
		eSg		18	00				
27	KRR	eP	22	01	13		2.2	Kariba.	
		eS			28				
	BHA	ePg			30		1.8		
		eSg			58				
	BUL	ePg			55		0.9		
		eSg		02	38				
28	BHA	e	06	45	50		0.6	Distant	
	BUL	e		46	01		0.8		
28	BHA	e	07	21	11		0.7	Distant	
		e			15				
	KRR	i			25		0.6		
		e			24				
BUL	e			24		0.5			
	i			35					
28	BHA	e	07	56	23		0.2	Distant	
	KRR	e			30		0.2		
	BUL	e			40		0.2		
28	KRR	i	08	03	29	C	0.2	Distant	
	BHA	e			40		0.2		

LIST OF RECORDED PHASES: 28 to 29 DEC 1967 - 18

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	C	mm		
28	KRR	ei	12	58	04	cR	0.8	Distant	
	BUL	ei			17	cR	0.5		
28	BHA	ePn	17	59	44		0.4	West of Lake Victoria.	
		eSn	18	02	08				
		eSgSg		03	33				
	KRR	eL		04	45		0.2		
	BUL	eL		06	35		0.2		
28	BUL	e	19	47	32		0.1	Distant	
	KRR	e			39		0.2		
28	KRR	e	22	31	14		0.6	Distant	
	BUL	e			21		0.6		
29	BHA	e	00	35	10		0.2	Distant	
	KRR	e			15		0.3		
	BUL	e			20		0.3		
29	BUL	i	05	29	12	R	0.6	Distant	
	KRR	i			12	R	0.2		
	BHA	i			17	R	0.2		
29	BHA	eP	13	08	(00)		1.0	Mt. Elgon Area, Uganda.	
		eL		13	00				
	KRR	eP		08	34		0.6		
		eS		11	49				
		eL		13	57				
	BUL	iP		09	10	C	0.3		
		eS		13	04				
		eL		15	42				
29	BHA	eP	13	50	45		0.7	Mt. Elgon Area, Uganda.	
		eL		55	45				
	KRR	eP		51	07		0.5		
		eS		54	14				
		eL		56	31				
	BUL	eP		51	39	C	0.3		
		eL		58	21				
29	BHA	eP	15	47	05		0.7	Mt. Elgon Area, Uganda.	
		eL		52	01				
	KRR	eP		47	36		0.6		
		eL		52	59				
	BUL	iP		48	07	C	0.3		
		eL		54	52				
29	BHA	eP	16	10	(50)		0.8	Mt. Elgon Area, Uganda.	
		eL		15	58				
	KRR	eP		11	24		0.5		
		eL		16	44				
	BUL	iP		11	52	C	0.3		
		eL		18	30				
29	BUL	iPn	17	59	35	C	1.6	Witwatersrand	
		eSn	18	00	44				
		eSg		01	12				
	KRR	ePn		00	21		0.9		
		eSn		01	52				
		eSgSg		02	53				
	BHA	eP		00	55		0.5		
		eS		02	53				
		eL		04	08				

LIST OF RECORDED PHASES: 29 to 30 DEC 1967 - 19

Date	Stn	Phase	G	M	T	$\frac{R}{C}$	DA	Epicentral region:	Remarks
			h	m	s		mm		
29	BHA	eP	19	58	55		0.1	Distant	
	KRR	iP		59	19	R	0.6		
	BUL	iP			40	R	0.5		
29	BUL	e	20	48	45		0.2	Distant	
		i			57				
	KRR	e		52	24		0.3		
		e		48	49				
		i		49	01				
	BHA	e		52	26		0.1		
i			48	55					
		i		49	06				
29	BUL	i	22	40	05	C	0.2	Distant	
	BHA	e			09		0.1		
	KRR	i			15	C	0.2		
29	BUL	iPn	23	10	24	R	0.7	O.F.S. Goldfields	
		eSn		11	50				
		eSg		12	37				
	KRR	ePn		11	10		0.5		
		eSn		13	10				
		eSgSg		14	23				
	BHA	eL		15	47		0.2		
29	BHA	eP	23	43	(15)		0.6	Mt. Elgon Area, Uganda.	
		eL		48	06				
	KRR	eP		43	35		0.4		
		eL		43	57				
	BUL	eP		44	02		0.2		
		eL		50	50				
30	KRR	e	00	20	45		0.2	Distant	
	BHA	e			49		0.2		
	BUL	i			50	C	0.3		
30	BUL	ePn	02	01	24		2.2	N.E. Makarikari Depression.	
		iPg			28				
		eSg			51				
	KRR	ePg		02	05		0.6		
		eSg			59				
BHA	eSg		03	47		0.2			
30	BUL	e	02	27	13		0.2	Distant	
		i			45				
	KRR	i			25	C	0.3		
		i			57				
BHA	e			33		0.1			
30	BHA	e	04	29	27		0.1	Distant	
	KRR	i			45	R	0.3		
	BUL	i		30	04	R	0.4		
30	BHA	eP	10	30	06		1.3	West Ruanda-Burundi.	
		eS		32	06				
		eL		33	21				
	KRR	eP		30	39		0.5		
		eS		33	02				
		eL		34	41				
	BUL	eP		31	24		0.4		
		eS		34	21				
		eL		36	28				

LIST OF RECORDED PHASES: 30 to 31 DEC 1967 - 20

Date	Stn	Phase	G	M	T	R	DA	Epicentral region:	Remarks
			h	m	s	$\bar{C}$	mm		
30	BUL	ePn	13	03	55		0.4	Witwatersrand	
		eSn		04	53				
		cSg		05	30				
	KRR	eSn		06	19		0.3		
		eSgSg		07	17				
30	BUL	ci	13	17	23	cR	1.5	Distant	
		i		18	25				
	KRR	ei		17	33	cR	0.5		
		i		18	35				
	BHA	i		17	33	R	0.4		
30	BHA	ePn	14	32	04		7.0	Central Lake Malawi.	
		ePg		32	26				
		iSn		33	07				
		iSg		33	36				
	KRR	ePn		32	09		2.8		
		iSn		33	14				
		eSg			47				
	BUL	ePn		32	50		1.0		
		eSn		34	27				
		eSgSg		35	25				
30	BUL	i	20	31	55	R	0.3	Distant	
		i		32	02				
	KRR	i			02		0.2		
		i			08				
31	KRR	e	02	49	06		0.1	Distant	
		i			11		0.2		
	BUL	i			13	C	0.4		
31	BUL	i	07	29	02	R	0.2	Distant	
	KRR	i			02	R	0.2		
31	BUL	e	10	13	05		0.2	Distant	
	KRR	e			11		0.2		
31	BUL	e	15	24	25		0.3	Distant	
		i			38				
	KRR	e			26		0.2		
		i			38				
	BHA	e			36		0.2		