

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A , K I R U N A , S K A L S T U G A N , G Ö T E B O R G ,
U M E Å and K A R L S K R O N A

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

J A N U A R Y 1 - 31, 1965
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1965								1965					
Jan.	1	Um	iP	06 53 33.0				Jan.	2	Gb	iPKP	09 55 21.5	
"	1	Up	iP	12 58 30.7									South of Fiji Islands (h = 560 km).
				Formosa (h = 30 km).				"	2	Up	iP	10 23 04.6	
"	1	Up	iP	18 58 48.6						Ki	eP	10 22 39	
"	1	Ki	iP	21 27 29.1 C						Um	iP	10 22 49.0	
"	1	Up	iP	21 44 02.7				"	2	Up	iP	13 57 04.6	
			iS	21 48 35						i		13 57 15.2	
				microns sec						iPP		14 00 41.9	
		P	Z'	0.1 1.0								microns sec	
		S	N	2.6 5						P	Z'	0.5 0.6	
		M	E	5.4 14						PP	Z'	0.1 0.9	
		M	N	5.4 16						M	E	2.0 21	
		M	Z	4.6 18						M	N	1.6 20	
				D = 2950 km = 26 $\frac{1}{2}$ °.						Ki	iP	13 56 36.8	
		Ki	iP	21 45 14.2						i		13 56 44.0	
			i	21 45 25.8						i		14 03 39.3	
				microns sec						iS		14 06 52	
		P	Z'	0.2 1.3						ipS		14 07 41	
		M	E	9.8 15								microns sec	
		M	N	4.1 15						P	Z'	0.4 0.9	
		M	Z	2.9 14						S	N	1.7 8	
		Sk	iP	21 44 28.0						Sk	iP	13 57 02.3	
		Gb	iP	21 43 33.1						iPP		14 00 38.1	
			iPP	21 43 58.6						Gb	iP	13 57 21.5	
		Um	iP	21 44 43.4						Um	iP	13 56 49.4	
			i	21 44 59.0						ipP		13 57 19.5	
		Ka	iP	21 43 34.7						Ka	iP	13 57 20.0	
				Algeria (h = 10 km).								Mariana Islands.	
				Magn. = 5.5 (Up,Ki).								h = 120 km (Um).	
												Magn. = 6.5 (Up,Ki).	
"	1	Up	iP	22 59 17.8				"	2	Up	iP	18 23 00.9	
		Ka	i(P)	22 58 19.8						ipP		18 23 31.1	
"	2	Up	iP	08 27 41.3								Mariana Islands.	
			i	08 28 08.2								h = 120 km (Up).	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965			
Jan.	3	Up	iP	03 47 53.0	Jan.	4-	at Sk, Jan. 4, around
"	3	Um	iP	11 09 01.1	cont.	5	05 ^h , at Ka around
"	3			Molucca Sea (h = 40 km).			
"	3	Up	iP	15 52 23.0			
"		Ki	iP	15 51 49.3			
"		Sk	eP	15 52 19			
"		Um	iP	15 52 03.8 C			
"				South of Japan			
"				(h = 40 km).			
"	3	Up	iP	23 23 46.8	"	5	Up iP 14 40 35.0 C
"		Ki	iP	23 22 52.0	"	5	Up ---
"		Sk	iP	23 23 19.1			
"		Gb	iP	23 23 58.3			
"			iPcP	23 24 36.2			
"		Um	iP	23 23 20.1			
"		Ka	iP	23 24 10.4			
"				Alaska (h = 90 km).			
"	4	Ka	iP	03 43 33.7			
"	4	Um	iP	05 35 40.1			
"				Banda Sea (h = 150 km).			
"	4	Ki	iSKP	07 28 07.0	"	5	Up iP 20 46 36.1
"		Um	iSKP	07 28 20.5			
"				Fiji Islands (h = 570 km).			
"	4	Up	iPKP	08 37 45.4	"	5	Um iP 20 56 29.2
"			i	08 37 50.2			
"		Sk	iPKP	08 37 38.8			
"		Gb	iPKP	08 37 53.1 C			
"	4	Ki	iP	11 42 59.3			
"				microns sec			
"			P	Z' 0.2 1.0			
"		Um	iP	11 43 04.6 D			
"				Halmahera (h = 80 km).			
"	4	Up	iP	16 15 36.4	"	6	Ki iP 01 08 19.4 C
"				microns sec			
"			P	Z' 0.1 0.5			
"	4	Up	iP	19 35 39.3	"	6	Up iP 02 12 20.9 C
"	4	Ki	iP	20 57 05.1			
"				Yukon, Canada (h = 30 km).			
"	4	Up	iP	22 37 43.9	"	6	Um eP 17 07 05
"				Mariana Islands			
"				(h = 60 km).			
"	4-			Strong microseisms, with	"	6	Up iP 18 37 36.4
"	5			rapid amplitude increases			
cont.					cont.		Ki iP 18 36 42.3
							Sk iP 18 37 08.2

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1965				1965				
Jan. cont.	6	Gb Um Ka	iP iP iP	18 37 52.6 18 37 08.0 18 37 59.2	Jan. cont.	7	Um Luzon (h = 30 km).	iP 19 01 29.1
"	6	Up Ki	iP i iP iPcP	18 37 56.7 18 38 02.8 18 36 59.2 18 38 12.9	"	7	Up Um	iP iP 19 03 55.3 19 03 44.4
				microns sec P Z' 0.2 1.3	"	7	Ka	i(P) 20 20 14.7
		Sk	iP iPcP	18 37 26.4 18 38 27.7	"	7	Up	iP 20 40 01.1
		Gb	iP	18 38 09.1				microns sec P Z' 0.1 0.7
		Um	iP iPcP	18 37 28.6 18 38 27.3	"	7	Um	iP 21 29 42.7
		Alaska.			"	7	Up	iP 22 12 00.6
		Origin time = 18 27 53.			"	8	Up Um	e(P) i(P) 01 30 49 01 30 16.7
		This is a separate shock, distinct from the preceding one, especially as evidenced by the clear PcP phases. This shock, although somewhat greater than the preceding, is not reported by USCGS.			"	8	Um	iP 03 00 26.6
"	7	Up Ki Sk Gb	iP iP iP iP	10 27 30.7 C 10 28 37.4 10 28 09.9 10 27 23.2	"	8	Up	iP 13 12 10.2
				i 10 28 22.0				microns sec P Z' 0.1 0.5
		Um	iPP iS	10 28 47.5 10 32 57	"	8	Up	iP 16 42 12.5
		Ka	iP	10 27 00.4				Kurile Islands (h = 40 km).
		Dodecanese Islands (h = 50 km).			"	8	Sk	i(Sg) 16 48 25.9
"	7	Sk	iP	11 17 26.0 C	"	8	Up	iPKP i 19 08 36.7 C 19 08 47.8
		Mexico (h = 70 km).						Ki Um iPKP 19 08 52.2 19 08 44.7
"	7	Sk Um	iP iP	16 09 07.0 16 09 21.0				South Sandwich Islands (h = 40 km).
"	7	Ki Um	iP iP	17 20 42.1 17 20 38.5 C	"	9	Up	eP 00 50 40
		Nicobar Islands (h = 10 km).			"	9	Up	iP 02 53 00.9 C
"	7	Up Ki	iP iP	19 01 45.3 19 01 25.4 C	"	9	Up Ki Um	iP iP iP 03 40 40.8 C 03 39 53.5 03 40 15.0
				microns sec P Z' 0.1 1.3				Kurile Islands (h = 30 km).
cont.		Sk	eP	19 01 51	"	9	Um	iPKP 04 48 33.4 C
								South of Kermadec Islands (h = 70 km).

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1965	Jan.	9	Up	iP	13 45 42.5	1965	Jan.	10	Up	iPKP	13 55 34.9
					microns sec					i	13 55 36.6
				P	Z' 0.1 1.0					iX	13 56 00.0
			Ki	iP	13 45 22.9					iPP	13 57 38
					microns sec					iSKP	13 58 49
				P	Z' 0.1 1.0					e	14 08 12
				M	E 2.2 17						microns sec
				M	N 1.7 18					PKP	Z' 0.1 0.5
			Um	iP	13 45 29.1 D					PP	Z 2.5 8
			Samar	(h = 5 km).						SKP	E 1.2 6
			Magn.	= 5.8 (Up,Ki).						SKP	N 1.2 5
"		9	Up	iP	19 07 47.6					M	E 15 22
"		10	Up	iP	02 55 50.6					M	N 29 22
				i	02 56 03					M	Z 38 22
				iS	02 58 32						(D = 14200 km = 128°).
				i!	02 58 44			Ki	iPKP	13 55 19.8 D	
				iLi	02 59 22				ePP	13 56 49	
					microns sec				e	13 58 21	
				P	Z' 0.2 0.5				iPKKP	14 05 24.6	
				M	E 1.3 3				eY	14 06 14	
				M	N 1.6 4				ePS	14 06 35	
				M	Z 1.6 5					microns sec	
			Ki	iP	02 57 13.9				PKP	Z' 0.2 0.8	
				i	02 57 20.7				M	E 16 22	
				iS	03 01 20.2				M	N 13 22	
					microns sec				M	Z 34 22	
				P	Z' 0.2 0.9					(D = 13550 km = 122°).	
				M	E 2.4 7			Sk	iPKP	13 55 31.2 D	
			Sk	iP	02 56 43.2				i	13 56 19.9	
			Gb	eP	02 55 48			Gb	iPKP	13 55 43.1	
				i	02 55 54.5			Um	iP	13 52 11	
				iLi	02 59 23.8				iPKP	13 55 23.6	
			Um	iP	02 56 30.4				i	13 55 26.3	
				iS	02 59 50.0				iPP	13 57 13	
				i	03 00 59.6				iSKP	13 58 41	
			Ka	iP	02 55 16.1				iPKKP	14 05 12.0	
				i	02 55 21.5				iY	14 06 04.9	
				iLg2	02 59 18.8				e	14 06 37	
					Rumania (h = 130 km).				ePPS	14 08 28	
					Magn. = 5.5 (Up,Ki).			Ka	iPKP	13 55 41.1	
					Both P and S phases are				iX	13 56 08.0	
					generally multiple, as				eSKP	13 59 05	
					indicated above.					New Hebrides Islands	
"		10	Ki	iP	07 51 45.3	"		10	Ki	eP	15 03 56
					New Guinea (h = 110 km).				Um	eP	15 04 04
"		10	Up	iP	08 07 32.0	"		10	Up	iPKP	16 57 50.4
			Ki	iP	08 08 47.7				Um	iPKP	16 57 38.7
			Sk	iP	08 08 14.7					iSKP	17 00 32.9
			Um	iP	08 08 15.2				Ka	iPKP	16 58 03.0 D
					Greece.						South of Fiji Islands
"		10	Um	iP	13 39 16.2						(h = 520 km).

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1965				1965					
Jan.	10	Um	iP	17 14 30.3	Jan.	11	Up	iP	22 57 42.3 D
"	10	Up	eP	20 14 03			Sk	iP	22 57 30.2
		Ki	iP	20 15 26.2			Um	iP	22 57 16.0
		Sk	iP	20 14 42.4			Kurile Islands		
		Um	iP	20 14 44.1			(h = 100 km).		
				Yugoslavia (h = 10 km).	"	12	Up	iP	09 33 29.7
"	10	Um	iP	20 58 37.9			Mindanao (h = 30 km).		
"	11	Sk	i(Sg)	04 21 42.9	"	12	Up	i(P)	10 55 09.0 C
		Um	i(Sg)	04 23 06.4	"	12	Up	iP	13 42 07.2 C
"	11	Sk	e	07 30 35			i		13 42 20.3
			i(Sg)	07 31 21.7			iS		13 50 08
"	11	Ki	iPn	07 29 28.4			microns sec		
			iSn	07 30 23.4			P	E	0.9 3
			iSg	07 30 41.4			P	Z'	1.3 1.0
		Um	iS ^x	07 31 09.0			M	E	4.2 15
			iSg	07 31 26.4			M	N	3.9 15
				Northwest Russia.			M	Z	6.1 15
				Explosion?			D = 6350 km = 57°.		
"	11	Um	iPKP	07 39 16.0			Ki	iP	13 42 04.9
				South of Kermadec Islands			eS		13 49 52
				(h = 30 km).			microns sec		
"	11	Sk	iP	07 51 40.2			P	Z'	0.4 1.0
"	11	Sk	eP	09 23 33			M	E	7.0 17
				Banda Sea (h = 130 km).			M	N	3.5 12
"	11	Up	iP	17 07 30.5 C			M	Z	7.2 15
		Ki	iP	17 06 25.9			D = 6300 km = 56½°.		
			i	17 06 33.2			Sk	iP	13 42 24.7
				microns sec			Gb	iP	13 42 28.5 C
		P	Z'	0.1 1.0			i		13 42 40.4
		Sk	eP	17 06 53			Um	iP	13 42 00.3 C
		Um	iP	17 06 54.8			iS		13 49 50
		Ka	iP	17 07 57.5			iSS		13 53 48
				Alaska (h = 60 km).			Ka	iP	13 42 14.4 C
"	11	Up	iP	20 25 08.0			i		13 42 21.8
		Ki	iP	20 24 24.3 C			Nepal (h = 25 km).		
				microns sec			Magn. = 6.5 (Up, Ki).		
		P	Z'	0.1 0.7	"	12	Up	iP	14 05 02.7
		Sk	eP	20 24 59			microns sec		
		Um	iP	20 24 42.5			P	Z'	0.1 0.6
				Sea of Japan (h = 190 km).			Ki	iP	14 04 59.4 C
"	11	Up	iP	21 21 59.0 C			Sk	iP	14 05 21.1 C
			i	21 22 05.9			Gb	iP	14 05 23.2
				microns sec			i		14 05 43.9
		P	Z'	0.3 0.5			Um	iP	14 04 56.5
							i		14 05 02.8
"	11	Up	iP	21 21 59.0 C			Ka	iP	14 05 10.3
			i	21 22 05.9			Nepal (h = 30 km).		
				microns sec	"	12	Gb	iP	14 09 28.4
		P	Z'	0.3 0.5					
					"	12	Up	iP	14 58 29.7

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1965				1965					
Jan.	12	Um	iPKP	16 14 21.7	Jan.	15	Ki	iP	00 41 44.1 C
				South of Kermadec Islands					microns sec
				(h = 10 km).					P Z' 0.1 0.6
"	12	Up	iP	16 28 32.6			Sk	iP	00 42 00.5
				microns sec			Gb	iP	00 41 56.4 C
			M	N 1.4 18			Um	iP	00 41 33.6 C
		Ki	iP	16 28 08.5			Ka	iP	00 41 39.6
				microns sec					Hindu Kush (h = 250 km).
			M	E 0.9 12					Magn. = 5.6 (Up,Ki).
			M	N 1.7 20	"	15	Up	iPKP	03 48 36.9
		Sk	iP	16 28 39.4					Fiji Islands
		Um	iP	16 28 16.8					(h = 600 km).
		Ka	iP	16 28 49.4 C					
				China (h = 30 km).	"	15	Up	iP	06 06 56.4 C
"	12	Ki	eP	21 03 28			i		06 07 11.3
			i	21 03 34.2			iLi		06 17 09
				Sumatra (h = 30 km).			iLgl		06 18 36
"	13	Up	iP	04 48 49.9					microns sec
							P	Z'	1.2 0.7
"	13	Sk	eP	19 51 23			Ki	iP	06 06 40.3 C
							i		06 06 57.6
"	13	Ki	iP	22 28 33.0			iPP		06 07 42.1
			i	22 28 35.5					microns sec
				Celebes (h = 130 km).			P	Z'	0.9 0.7
							PP	Z'	0.4 1.5
"	14	Up	iP	00 22 28.5			Sk	iP	06 07 11.9 C
		Gb	iP	00 22 11.0			Gb	iP	06 07 25.0 C
		Ka	iP	00 22 07.2			iPP		06 08 49.5
"	14	Up	iP	01 21 27.5			Um	iP	06 06 41.5 C
		Ki	iP	01 20 36.9			Ka	iP	06 07 13.2 C
				Kurile Islands			i		06 08 15.0
				(h = 30 km).					Kazakh SSR. Underground
"	14	Up	iP	01 44 37.2					nuclear explosion.
				microns sec					Magn. = 6.7 (Up,Ki).
			P	Z' 0.1 1.5					Clear higher-mode surface
		Ki	iP	01 44 06.8					waves are recorded (Up),
		Sk	iP	01 44 36.9					but no S or fundamental-
				Japan (h = 140 km).					mode surface waves. PP
"	14	Up	iP	03 57 02.7					arrives 6 sec too early,
"	14	Up	iP	11 35 06.1					compared with P (Ki,Gb),
"	14	Ki	iPKP	19 05 53.9 C					which could be explained
		Um	iPKP	19 06 01.4 C					by reflection at some
				New Zealand (h = 80 km).					crustal discontinuity
"	15	Up	iP	00 41 35.4 C					instead of at the free
			iPP	00 43 15.0					surface.
				microns sec	"	15	Up	iP	15 01 40.1
			P	Z' 0.1 0.5			Sk	eP	15 02 16
cont.									Greece (h = 110 km).
					"	15	Up	iP	18 45 55.5 D
									microns sec
									P Z' 0.1 0.7
							Ki	iP	18 45 32.2
							Sk	i(P)	18 45 50.9
					cont.				

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1965						1965					
Jan.	15	Gb	iP	18 46	32.7	Jan.	17	Europe. Its center is			
cont.		Um	iP	18 45	40.8	cont.		situated just NW of			
			iPcP	18 45	59.2			Scotland at 06 ^h Jan 17			
			Formosa (h = 30 km).					and has a pressure of			
"	15	Um	iPKP	21 26	25.3			955 mb. Compare Båth,			
			New Hebrides Islands					Geophys. J., 6: 450-			
			(h = 90 km).					461, 1962.			
"	15	Up	iP	23 52	59.4	"	17	Up	eP	02 19 11	
		Gb	iP	23 52	30.1			Ki	iP	02 20 09.6	
		Algeria (h = 30 km).						Sk	eP	02 20 13	
"	16	Um	iPKP	05 49	00.9			Um	iP	02 19 23.5	
			i	05 49	14.9			Caucasus.			
		New Hebrides Islands				"	17	Up	iP	02 23 45.0	
		(h = 50 km).						i	02 23 58.8		
"	16	Up	iP	06 03	02.9			Ki	iP	02 22 49.7 C	
		Gb	i(P)	06 03	29.1			Sk	iP	02 23 17.5	
"	16	Up	iPKP	11 51	17.0			Um	iP	02 23 18.2	
			microns sec					i	02 23 23.2		
			PKP	Z'	0.1 0.5			Kodiak Island			
		Ki	iPKP	11 51	32.7			(h = 30 km).			
			iSKP	11 54	40.6		"	17	Up	iP	
			microns sec						iPP	03 45 04.7	
			PKP	Z'	0.2 1.0			Ki	iP	03 45 36.4	
			SKP	Z'	0.6 2.0					03 46 10.9	
		Sk	iPKP	11 51	22.5				P	Z'	
		Um	iPKP	11 51	25.7				Z'	0.1 0.5	
		South Sandwich Islands						Sk	iP	03 45 44.2	
		(h = 100 km).						Um	iP	03 45 35.6	
		Well developed Love waves						South of Rhodes Island			
		of pronounced long period						(h = 40 km).			
		(max. amplitudes at				"	17	Up	iPKP	11 01 41.8 C	
		periods around 1 min) and						i	11 01 44.3		
		insignificant Rayleigh						Ki	iSKP	11 04 09.9	
		waves.								microns sec	
"	16	Up	iPKP	13 10	06.9 C				SKP	Z'	
			microns sec						Z'	0.1 1.0	
			PKP	Z'	0.2 0.5			Sk	eSKP	11 04 23	
		Ki	iPKP	13 09	56.2			Um	iSKP	11 04 19.6	
		Gb	iPKP	13 10	15.8			South of Fiji Islands			
		Ka	iPKP	13 10	18.1 C			(h = 570 km).			
		South of Fiji Islands				"	17	Up	iP	19 05 00.4	
		(h = 450 km).						Um	iP	20 30 33.6	
"	16	Sk	i(Sg)	17 03	25.2			"	17	Up	
"	17	Strong microseisms of long							Up	iP	21 10 43.8
		period (around 10 sec) due							ipP	21 11 41.9	
		to an enormous low-pressure							Ki	iP	21 10 40.1
		area covering the whole of							ipP	21 11 35.3	
		North Atlantic Ocean and									microns sec
									pP	Z'	
									Z'	0.1 1.0	
								Sk	iP	21 10 55.5	
									ipP	21 11 54.0	
								Ki	iP	21 10 40.1	
cont.						cont.					

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1965				1965					
Jan. cont.	17	Ki	ipP	21 11 35.3	Jan.	19	Um	iP	13 02 00.4
				microns sec				i	13 02 36.8
			pP	Z' 0.1 1.0				i	13 03 02.2
		Sk	iP	21 10 55.5					
			ipP	21 11 54.0	"	19	Up	iPKP	21 24 32.9
		Java. h = 240 km (Up,Ki,Sk).					Sk	iPKP	21 24 26.1
							Gb	iPKP2	21 24 50.9
"	17	Ki	iP	21 15 27.7 D			Um	iPKP	21 24 20.5 C
				microns sec			Ka	ePKP2	21 24 55
			P	Z' 0.1 1.3			South of Kermadec Islands (h = 30 km).		
		Sk	eP	21 15 03					
			i	21 15 40.9	"	20	Up	iPKP	01 52 59.5 C
"	18	Sk	ePKP	00 21 59			Sk	iPKP	01 52 53.6 C
		Um	iPKP	00 22 05.9			Gb	iPKP2	01 53 17.8
		Chile (h = 50 km).					Um	iPKP	01 52 48.1
							South of Kermadec Islands (h = 30 km).		
"	18	Up	iP	00 31 14.9					
				microns sec	"	20	Um	iP	04 04 27.3
			P	Z' 0.1 0.5					
		Ki	iP	00 30 42.0	"	20	Up	iP	05 58 57.7
		Sk	iP	00 31 11.2 D					
		Um	iP	00 30 55.4	"	20	Um	iP	07 09 29.9
		South of Japan (h = 420 km).					i	07 15 04.4	
"	18	Um	iP	01 35 50.0 C	"	20	Up	iSg	11 08 44.8
							Ka	iPg	11 06 56.9
"	18	Up	iP	03 36 03.5				i	11 07 00.8
				microns sec				iSg	11 07 02.7
			P	Z' 0.1 0.5			Southern Baltic, near the south tip of Öland. Underwater explosion?		
		Ki	iP	03 36 10.2 C					
				microns sec	"	20	Up	iP	20 38 01.2
			P	Z' 0.1 1.0			Ki	iP	20 37 13.6
		Sk	iP	03 36 28.3			Um	iP	20 37 34.2
		Um	iP	03 36 00.5 C			Kurile Islands (h = 30 km). Origin time = 20 26 51. This is obviously a foreshock to the following earthquake. In addition to our stations, readings of this foreshock have been found for Nurmijärvi, Quetta, Cine and China Lake.		
		Ka	iP	03 36 07.9					
		Tadzhik SSR (h = 30 km). Magn. = 5.8 (Up,Ki).							
"	18	Up	iP	11 47 35.1	"	20	Up	iP	20 38 16.0
"	18	Up	iP	15 31 09.6			Ki	iP	20 37 28.5
				microns sec			Sk	eP	20 38 04
			P	Z' 0.1 0.5			Um	iP	20 37 49.9
		Sk	iP	15 31 22.1 D				iPcP	20 38 26.0
		Tsinghai, China (h = 40 km).					Kurile Islands (h = 30 km).		
"	18	Um	iP	16 01 14.2					
"	18	Up	e(P)	22 15 58					
"	19	Up	i(P)	02 19 28.3					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Jan.	20	Um	iP	20 57 24.0	Jan.	22	Up iP 14 01 59.3 D Ka iP 14 00 18.5
"	20	Up	iP	23 11 01.2	"	22	Up iP 14 59 52.8 Gb eP 14 59 35
"	21	Um	iP	01 51 52.6	"	22	Um iP 20 42 23.2
"	21	Up	eP	02 30 25	"	23	Very well developed microseisms of about 20 sec period are recorded by the Press-Ewing instruments at Um and Up (especially pronounced at Um) in the morning of Jan. 23. These microseisms have Rayleigh-wave motion and arrive from NW-N.
"	21	Um	iP	02 52 24.7 C Japan (h = 15 km).			
"	21	Um	iP	06 24 58.0			
"	21	Sk Um	ePKP iPKP iPKP2	06 29 51 06 29 38.2 06 29 59.4 South of Kermadec Islands (h = 30 km).			
"	21	Up	iP	13 09 54.0	"	23	Sk eP 02 43 59 Um eP 02 43 59 Yugoslavia (h = 30 km).
"	21	Up	iP	13 40 26.4 D	"	23	Up eP 03 36 55
				microns sec	"	23	Up iP 09 07 20.6
				M N 6.5 24	"	23	Up iSg 11 12 39.7 ✓ microns sec
		Ki	iP	13 40 18.3			Sg Z' 0.1 0.5
				microns sec			Ki i(Pn) 11 10 29.6
				M E 1.9 17			iP ^x ₄₇ 11 10 33.1
				M N 3.3 17			iS ^x ₃₇ 11 11 13.1 ✓
				M Z 2.4 16			iSg 11 11 18.0 ✓
		Sk	iP	13 40 42.9			D = 330 km = 3.0°
		Um	iP	13 40 17.1			Sk e(P ^x) 11 11 04
				Tibet (h = 30 km).			e(Pg) 11 11 15
				Magn. = 5.6 (Up, Ki).			eSn 11 11 50
				The Love waves are very			iSg 11 12 12.6 ✓
				well developed at our			D = 520 km = 4.7°
				stations, but there are			Um i(Pn) 11 10 10.1
				hardly any Rayleigh waves.			iPg 11 10 12.0
"	21	Up	iPKP	16 07 21.4			iSg 11 10 32.8
			i	16 07 25.9			D = 180 km = 1.6°
				microns sec			Gulf of Bothnia, 65.0°N, 22.8°E. Origin time = 11 09 40.
				PKP Z' 0.1 0.5			
		Sk	iPKP	16 07 15.0	"	23	Ki iP 11 30 03.2
		Gb	iPKP	16 07 28.6			Iran-USSR (h = 30 km).
		Um	iPKP	16 07 09.2	"	23	Um iP 11 33 18.0 D
		Ka	iPKP	16 07 30.4	"	23	Up eP 16 13 43
				Kermadec Islands (h = 250 km).			Luzon (h = 70 km).
"	22	Up	iP	02 52 16.4			
		Ki	iP	02 52 12.0			
		Sk	iP	02 52 32.2 C			
				Burma (h = 80 km).			
"	22	Um	i(P)	04 12 56.6			

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1965						1965					
Jan.	23	Ki	iP	16 43 45.4		Jan.	23	Up	iP	23 36 31.2	
			iS	16 45 20.7				Ki	iP	23 36 15.9	
			iT	16 48 43.3						microns sec	
			i	16 48 57.9					P	Z' 0.1 1.0	
			i	16 49 26.8				Sk	iP	23 36 36.4	D
			D = 800 km = 7°.					Gb	iP	23 36 47.5	
		Sk	iP	16 44 19.9				Um	iP	23 36 21.2	D
			iS	16 46 01.6				Ka	eP	23 36 41	
		Um	iP	16 44 31.2				Mindanao (h = 630 km).			
			i	16 44 37.3							
			iS	16 46 21.3		"	24	Up	iP	00 25 02.7	
			i	16 47 08.7					iX	00 25 16.9	
			eT	16 51 17					i	00 28 56	
		Ka	iP	16 46 03.5					iPP	00 29 18.1	
		Norwegian Sea (h = 30 km).							iPKP	00 29 29.0	
"	23	Up	iP	20 20 15.7					iSKS	00 35 55	
		Ki	eP	20 20 13					iSS	00 43 47	
		Um	iP	20 20 17.7						microns sec	
		Costa Rica (h = 50 km).							P	E 8.9 15	
"	23	Ki	i(P)	21 31 55.6					P	N 3.8 16	
			iL	21 31 59.1					P	Z 28 16	
				microns sec					X	Z' 0.1 0.7	
			L	Z' 0.3 1.3					PP	E 56 13	
		Um	e	21 33 10					PP	N 17 12	
			i	21 33 22.1					PP	Z 76 12	
			eL	21 33 44					PP	Z' 1.0 1.6	
		Probably blast in the mines in the Kiruna area.							PKP	Z' 9.6 2.5	
"	23	Up	iP	22 02 38.3	C				SKS	E 29 12	
				microns sec					M	E 110 21	
			P	Z' 0.1 0.6					M	N 200 25	
		Ki	iP	22 01 59.2	C				M	Z 170 21	
		Sk	iP	22 02 32.5					(D = 11200 km = 101°).		
		Gb	eP	22 02 58				Ki	iP	00 24 49.0	C
		Um	iP	22 02 16.6	C				iX	00 25 03.9	
		Ka	eP	22 02 58					iY	00 28 28.5	
		Japan (h = 60 km).							iPP	00 28 59.4	
"	23	Up	iP	22 10 46.9	C				iPKP	00 29 13	
		Ki	iP	22 10 52.4					iS	00 36 04	
		Sk	iP	22 11 11.7					iPKKP	00 41 27.7	
		Gb	iP	22 11 08.9					i	00 41 40.8	
		Um	iP	22 10 44.4	C				eP'P'	00 49 45	
			iPP	22 12 19.4						microns sec	
		Ka	iP	22 10 52.7					P	E 13 15	
		West Pakistan (h = 200 km).							P	Z 26 13	
"	23	Up	iP	22 50 52.1					P	Z' 0.5 2.0	
		Ki	eP	22 50 36					X	Z' 0.6 1.5	
		Um	eP	22 50 43					PP	E 44 12	
		Luzon (h = 50 km).							PP	Z 86 13	
									PP	Z' 8.4 2.8	
									PKP	N 10 13	
									M	E 100 18	
									M	N 120 17	
									M	Z 160 19	
									(D = 10900 km = 98°).		
								Sk	iP	00 25 10.7	

cont.

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1965				1965				
Jan. cont.	24	Sk	iX	00 25	24.2	Jan. cont.	24	Northwest Russia, 67.6°N, 32.4°E. Origin time = 06 26 38. Explosion?
			iY	00 28	34.1			
			iPP	00 29	35.1			
			iPKKP	00 41	28.4			
		Gb	eP	00 25	13	"	24	Um iP 16 11 13.0 C i 16 11 28.2
			iX	00 25	31.1			
			iY	00 28	43.4			
			iPP	00 29	40.7			
			i	00 29	51.3	"	24	Up eP 22 42 26 eS 22 45 25 D = 1650 km = 15°
			e	00 39	04			
		Um	iP	00 24	53.4	Ki	iP 22 40 39.0 iS 22 42 14.1 eT 22 45 34 i 22 46 25.5 D = 800 km = 7°	
			iX	00 25	09.4			
			i	00 28	50.8	Sk	iP 22 41 15.2 C e 22 42 51 iS 22 42 54.9	
			iPP	00 28	59.3	Gb	eP 22 42 41	
			iPKKP	00 41	23.8	Um	iP 22 41 27.3 iS 22 43 16.3 iSS 22 43 46.9 i 22 44 02.6 eT 22 46 37 i 22 48 17.1	
			i	00 41	38.7	Ka	iP 22 42 53.1	
			i	00 47	00.8		Norwegian Sea (h = 30 km).	
		Ka	iP	00 25	14.1			
			iX	00 25	27.3	"	25	Um iP 04 25 16.1 Japan (h = 30 km).
			i(Y)	00 28	25.9	"	25	Um iP 09 05 10.9 Atlantic Ocean, just SW of Peninsula Iberica.
			iPP	00 29	21.6	"	25	Um iPKP 10 51 50.4 Santa Cruz Islands (h = 210 km).
			i	00 29	42.6			
			i	00 41	45.8	"	25	Up iP 12 24 25.3 i 12 24 53.9 Ki iP 12 25 18.7 Gb eP 12 24 14 Um iP 12 24 45.1 Cyprus (h = 15 km).
			Ceram Sea (h = 5 km). Magn. = 7.8 (Up,Ki). The phases marked X and Y are both very clear but not identified. X has a larger amplitude than P. Either X is pP, which would then imply a focal depth around 60 km, or it belongs to a new shock in the same location. Y could also be another shock. - Well developed G waves recorded on long-period N components.					
"	24	Up	iP	01 31	47.1	"	25	Um iP 12 43 22.8
		Ki	iP	01 31	51.1	"	25	Um iP 16 57 11.4 ipP 16 57 45.0 Mariana Islands. h = 120 km (Um).
		Sk	iP	01 31	34.6 D	"	25	Up iP 22 07 19.5
		Um	iP	01 31	52.3	"	26	Up iP 01 04 43.9
		Ka	iP	01 31	51.6			
			Colombia (h = 170 km).					
"	24	Um	iP	02 44	58.2			
			Ceram Sea (h = 25 km).					
"	24	Ki	iSn	06 28	44.1			
			iSg	06 29	09.6			
			D = 510 km = 4.6°.					
		Sk	eSg	06 31	37			
		Um	iSn	06 29	25.5			
			iS ^X	06 29	42.0			
			iSg	06 29	57.9			
			D = 680 km = 6.1°.					

cont.

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1965				1965							
Jan.	26	Ki Um	iP iP	01 28 06.8 01 28 36.4	Jan.	27	Up P	iP Z'	05 37 48.1 0.1 1.1	D	
				Alaska (h = 140 km).					microns sec		
"	26	Ki Um	iP iP	02 03 50.7 02 04 05.2	"	27	Up Gb	iP e(P)	05 58 21.9 05 58 56		
				ipP 02 05 28.5 Japan. h = 380 km (Um).	"	27	Sk	iP	14 24 36.0	C	
"	26	Ki Um	iP iP	02 40 19.2 C 02 40 31.6	"	27	Um	iP	15 42 26.4	C	
				Ryukyu Islands (h = 30 km).					Japan (h = 90 km).		
"	26	Ki	ePKP	05 13 09	"	27	Gb Um	iPKP iPKP	20 32 06.9 20 31 56.9		
				iSKP 05 15 51.6 Um iSKP 05 16 00.8 South of Fiji Islands (h = 470 km).					Fiji Islands (h = 560 km).		
"	26	Ki	iP	06 38 20.4 C	"	27	Ki	eSn	20 42 22		
				ipP 06 38 47.6 Um eP 06 38 12 Sumatra. h = 100 km (Ki).				iSg	20 42 29.1		
"	26	Ki Um	iP iP	07 26 04.1 07 26 22.1			Sk	ePg	20 41 55		
				North of Iceland (h = 30 km).				iS ^x	20 42 33.5		
"	26	Um	iP	09 42 31.2				iSg	20 42 36.8		
								D = 320 km = 2.9°.			
"	26	Ki	iP	12 03 04.4	"	27	Um	eP ^x	20 42 01		
				Tien-Shan.				iSn	20 42 40.2		
"	26	Ki	iP	13 29 26.1	"	28	Up	iP	02 46 57.6		
							Ki	iP	02 46 56.6	C	
"	26	Ka	e(P)	14 30 35				ipP	02 47 06.4		
				i 14 30 36.9					microns sec		
"	26	Up	iP	20 34 40.0				P	Z' 0.1 0.8		
								Sk	iP	02 47 10.0	C
"	26	Ki	eP	22 14 26				ipP	02 47 20.1		
				microns sec				Um	iP	02 46 54.6	
"	26	Up	iP	23 58 57.8 D					Sumatra. h = 40 km (Ki,Sk).		
				P Z' 0.1 1.5	"	28	Sk	iP	04 16 05.0	D	
"	26	Ki	iP	23 58 20.0 D				Um	eP	04 16 20	
				microns sec					Mexico (h = 30 km).		
"	26	Sk	iP	23 58 53.1 D	"	28	Up	iP	09 04 57.3		
				P Z' 0.1 1.0	"	28	Sk	iP	23 15 34.5	C	
"	26	Um	iP	23 58 36.6 D				Um	iP	23 15 28.3	C
				Japan (h = 100 km).					Bulgaria (h = 30 km).		
"	26			Magn. = 5.6 (Up,Ki).	"	29	Up	iP	01 20 21.6		
								i	01 20 31.1		

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1965				1965							
Jan.	29	Um	iP	01 34 06.6	Jan.	30	Ki	iP	04 47 18.7 C		
				Japan (h = 30 km).			Sk	iP	04 47 51.1		
"	29	Um	iP	01 56 53.3			Um	iP	04 47 44.1		
"	29	Um	iPKP	03 46 36.9			Ka	iP	04 48 34.1		
				Fiji Islands			Aleutian Islands				
				(h = 550 km).			(h = 30 km).				
"	29	Up	iP	09 45 44.6 C	"	30	Up	iPKP	09 00 19.1 C		
				microns sec				iPKP	09 00 31.0		
		P	Z'	0.3 1.2			Sk	iPKP	09 00 12.5		
		M	E	0.6 17			Um	iPKP	09 00 08.2		
		M	N	1.2 20				iPKP	09 00 20.6		
		M	Z	1.2 19			South of Kermadec Islands.				
		Ki	iP	09 44 50.7	"	30	Up	iP	10 49 31.5		
				microns sec	"	30	Up	iPKP	18 00 06.7		
		P	Z'	0.2 1.0				iSKP	18 02 31.6		
		M	E	1.1 15			Sk	iPKP	18 00 04.3 C		
		M	N	0.6 17			Gb	iPKP	18 00 13.6		
		M	Z	1.6 14				iSKP	18 02 41.1		
		Sk	iP	09 45 26.9			Um	iPKP	17 59 59.8 C		
		Gb	iP	09 46 05.1			Ka	iPKP	18 00 14.3		
		Um	iP	09 45 16.6				iSKP	18 02 46.7		
		Ka	iP	09 46 09.5			Santa Cruz Islands				
				Kamchatka (h = 30 km).			(h = 650 km).				
				Magn. = 6.2 (Up,Ki).			"	30	Up	iPKP	18 24 16.4
"	29	Up	iP	20 14 00.0	"	30		iSKP	18 26 40.9		
		Ki	iP	20 14 07.0 D			microns sec				
		Sk	iP	20 14 24.7 D			SKP	Z'	0.1 0.7		
		Gb	iP	20 14 18.4			Sk	iPKP	18 24 13.8		
		Um	iP	20 13 57.3			Um	iPKP	18 24 08.8		
		Ka	iP	20 14 05.3			Ka	iSKP	18 26 53.9		
		i		20 14 10.6			Santa Cruz Islands				
				Kashmir (h = 30 km).			(h = 650 km).				
"	29	Up	iP	22 42 55.5	"	30	Up	i(P)	19 03 13.0		
		Ki	iP	22 42 02.5			Ka	iP	19 02 28.4		
		Um	iP	22 42 28.2			"	31	Up	iP	01 10 17.5
				Aleutian Islands				Um	iP	01 10 25.8	
				(h = 30 km).					i(pP)	01 10 40.6	
"	29	Up	eP	23 44 32	"	31	Up	iP	01 13 44.3		
				microns sec			Um	iP	01 13 52.9		
		M	E	1.0 17					i(pP)	01 14 06.8	
		M	N	1.4 14			"	31	Um	iP	02 49 23.9
		M	Z	1.1 14			"	31	Um	iP	03 18 50.9
		Ki	iP	23 45 37.9 D			Alaska (h = 30 km).				
		Sk	eP	23 45 10			"	31	Up	iP	08 19 23.9
		Um	iP	23 45 02.8							
				South of Rhodes Island							
				(h = 40 km).							
"	30	Up	iP	04 48 11.6 C	"	31	Up	iP	08 19 23.9		
				microns sec							
		P	Z'	0.1 0.7							

cont.

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Ka = Karlskrona

1965

Jan. 31 Up iP 12 12 35.0
Um iP 12 12 10.1 D

Kurile Islands
(h = 30 km).

" 31 Up iP 23 47 13.3 C
ipP 23 47 23.4
Ki iP 23 46 20.5
Sk iP 23 46 52.0
Um iP 23 46 45.0
Ka iP 23 47 35.9

Aleutian Islands.
h = 40 km (Up).

Markus Båth
September 16, 1965

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,
UMEÅ and KARLSKRONA

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

FEBRUARY 1 - 28, 1965

1965					1965				
Feb.	1	Up	iPKP	05 45 25.2	Feb.	2	Sk	eP	02 12 22
			iSKP	05 48 21.7	cont.		Um	iP	02 13 15.0
		Ki	iPKP	05 45 19.1			North Atlantic - Arctic Ocean.		
			iSKP	05 47 56.4					
				microns sec					
			SKP	Z' 0.3 1.5	"	2	Up	iP	02 44 08.7 C
		Sk	ePKP	05 45 20					
			iSKP	05 48 16.5	"	2	Ki	iP	04 24 24.6
		Gb	iPKP	05 45 33.9			Um	iP	04 24 42.1 C
		Um	iPKP	05 45 22.2				i	04 25 38.2
			iSKP	05 48 09.4			Japan (h = 30 km).		
			i	05 48 13.6					
		Ka	iPKP	05 45 37.3	"	2	Up	iP	04 42 58.9
		Fiji Islands (h = 470 km).					Sk	iP	04 42 41.3
		Our stations cover the					Gb	iP	04 42 51.6 C
		distance range of 129° -					Um	iP	04 42 55.3
		140°. Over this range					Mexico (h = 140 km).		
		there is a gradual decrease							
		of the amplitude ratio		"	2	Up	iPKP	10 17 21.1	
		SKP/PKP, due both to				Um	iPKP	10 17 19.2	
		increasing PKP and					iSKP	10 20 33.9	
		decreasing SKP.				Fiji Islands (h = 170 km).			
"	1	Ki	ePn	14 12 59	"	2	Up	iP	16 04 34.2
			iSn	14 13 47.5			i		16 04 36.6
			iSg	14 14 04.1			iPP		16 06 10.4
			D = 420 km = 3.8°.				iS		16 10 56
		Sk	iSg	14 16 22.7			iSS		16 13 42
		Um	iS ^x	14 14 29.5			iScS		16 14 33
			iSg	14 14 45.1			iLg2		16 19 10
		Northwest Russia,						microns sec	
		66.9°N, 29.9°E.				P	Z'	0.2 1.0	
		Origin time = 04 12 00.				PP	E	0.2 2	
		Explosion?				PP	N	0.5 5	
						PP	Z	0.4 3	
"	1	Up	iP	17 28 06.2 C		PP	Z'	0.1 1.0	
						S	N	0.8 4	
"	2	Up	iP	01 04 06.0		M	E	6.9 16	
						M	N	33 16	
"	2	Ki	iP	02 10 08.7		M	Z	7.4 14	
cont.						D = 4550 km = 41°.			

cont.

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1965					1965				
Feb.	4	Approximate origin times are given only for those aftershocks which have not been reported by USCGS and for which we have at least two readings. The mean error of our origin times is ± 4 sec, due to corresponding shifts in epicenter location. Identification has been made by comparison with other bulletins.			Feb.	4	Up	iP	06 36 05.5 microns sec P Z' 0.1 0.7
"	4	Gb	iP	05 37 46.4 Aleutian Islands.	"	4	Ki	iP	06 35 12.1 C ipP 06 35 22.0 microns sec P Z' 0.1 1.0
"	4	Ki	iP	05 44 44.0	"	4	Gb	iP	06 36 23.8 Aleutian Islands. h = 40 km (Ki). Origin time = 06 25 14. Magn. = 5.8 (Up,Ki).
"	4	Gb	iP	05 59 02.2 D	"	4	Ki	iP	06 39 07.0 Aleutian Islands.
"	4	Gb	iP	06 00 10.6	"	4	Up	iP	06 41 20.9 (Aleutian Islands).
"	4	Ki	iP	06 00 55.2 D	"	4	Um	iP	06 44 09.8
"	4	Ki	iP	06 02 05.0	"	4	Up	iP	06 45 10.7 microns sec P Z' 0.1 0.5
"	4	Gb	iP	06 06 55.6 C	"	4	Ki	iP	06 44 16.5 microns sec P Z' 0.1 1.2
"	4	Up	iP	06 15 49.1 microns sec P Z' 0.2 0.7	"	4	Um	iP	06 44 42.3 Aleutian Islands (h = 25 km). Magn. = 5.8 (Up,Ki).
"	4	Ki	iP	06 14 55.0	"	4	Up	iP	06 47 48.1 C microns sec P Z' 0.4 0.7
"	4	Gb	iP	06 16 06.6	"	4	Ki	iP	06 46 55.5 C microns sec P Z' 0.2 1.2
"	4	Um	iP	06 15 21.6 C	"	4	Sk	iP	06 47 30.5
"	4	Aleutian Islands (h = 40 km).			"	4	Gb	iP	06 48 10.1
"	4	Ki	iP	06 26 14.6 C	"	4	Up	iP	06 50 23.1 microns sec P Z' 0.2 1.0
"	4	Gb	iP	06 27 26.2	"	4	Ki	iP	06 49 30.0 microns sec P Z' 0.1 1.0
"	4	ipP		06 27 34.9	"	4	Sk	iP	06 50 03.9
"	4	Aleutian Islands. h = 30 km (Gb).			"	4	Gb	iP	06 50 41.5 C
"	4	Ki	iP	06 27 26.5	"	4	Um	iP	06 49 56.4 C
"	4	Gb	iP	06 28 40.9	"	4	Aleutian Islands (h = 30 km). Magn. = 5.9 (Up,Ki).		
"	4	Aleutian Islands. Origin time = 06 17 30.			"	4	Up	iP	06 50 23.1 microns sec P Z' 0.2 1.0
"	4	Um	iP	06 31 03.0 C	"	4	Ki	iP	06 49 30.0 microns sec P Z' 0.1 1.0
"	4	Ki	iP	06 31 56.0	"	4	Sk	iP	06 50 03.9
"	4	Aleutian Islands.			"	4	Gb	iP	06 50 41.5 C
"	4	Ki	iP	06 33 27.0 D	"	4	Um	iP	06 49 56.4 C
"	4	Aleutian Islands (h = 30 km). Magn. = 5.9 (Up,Ki).			"	4	Aleutian Islands (h = 30 km). Magn. = 5.9 (Up,Ki).		

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Feb.	4	Up	iP 06 52 44.2	Feb.	4	Up	iP 07 22 20.1
		Ki	iP 06 51 51.9			ipP	07 22 31.8
		Um	iP 06 52 18.1				microns sec
			Aleutian Islands.			P	Z' 0.6 0.8
			Origin time = 06 41 53.			Ki	iP 07 21 27.3
"	4	Up	iP 06 54 21.8				microns sec
		Ki	iP 06 53 13.0 C			P	Z' 0.2 1.0
"	4	Ki	iP 06 54 17.4 C			Sk	iP 07 22 01.9
		Um	iP 06 54 43.2			Gb	iP 07 22 37.3
			Aleutian Islands.			Um	iP 07 21 53.1
			Origin time = 06 44 18.			Ka	iP 07 22 43.2
"	4	Up	iP 06 56 30.9				Aleutian Islands.
"	4	Um	iP 06 57 52.2	"	4	Ka	iP 07 23 22.1
"	4	Up	iP 06 58 45.0	"	4	Um	iP 07 24 00.7
		Ki	iP 06 57 51.8	"	4	Up	iP 07 25 49.4
		Um	iP 06 58 18.2			ipP	07 25 59.9
			Aleutian Islands.				microns sec
			Origin time = 06 47 54.			P	Z' 0.1 1.0
"	4	Up	iP 06 59 54.5			Ki	iP 07 24 56.0
		Ka	iP 07 00 25.0			ipP	07 25 06.3
			Aleutian Islands.				microns sec
			Origin time = 06 49 (06).			P	Z' 0.2 0.8
"	4	Ka	iP 07 02 07.9			Sk	iP 07 25 30.2
			i(pP) 07 02 13.5			ipP	07 25 40.4
"	4	Up	iP 07 03 40.1			Gb	iP 07 26 07.3 D
			microns sec			ipP	07 26 17.7
		P	Z' 0.1 0.5			Um	iP 07 25 22.1 D
		Ki	iP 07 02 46.5 C			Ka	iP 07 26 13.7
			microns sec			ipP	07 26 23.9
		P	Z' 0.2 1.0				Aleutian Islands.
		Sk	iP 07 03 21.1 C	"	4	Ki	iP 07 26 00.8
		Gb	iP 07 03 57.9 C			ipP	07 26 11.9
		Um	iP 07 03 12.8 C				microns sec
		Ka	iP 07 04 04.0			P	Z' 0.2 1.0
			Aleutian Islands			Um	iP 07 26 27.0
			(h = 30 km).				Aleutian Islands.
			Magn. = 6.0 (Up,Ki).				h = 40 km (Ki).
"	4	Ki	iP 07 03 32.8	"	4	Up	iP 07 34 02.6
		Um	iP 07 03 58.5			ipP	07 34 10.1
			i(pP) 07 04 11.9				microns sec
			Aleutian Islands.			pP	Z' 0.5 1.5
			h = 50 km (Um).			Ki	iP 07 33 09.5
			Origin time = 06 53 34.			ipP	07 33 15.8
"	4	Up	iP 07 19 20.1				microns sec
		Ki	iP 07 18 39.3			pP	Z' 0.3 1.2
		Um	iP 07 18 55.1			Sk	eP 07 33 45
						ipP	07 33 50.6

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb. cont.	4	Gb	iP	07 34 21.9	Feb. cont.	4	Ka	iP	07 54 51.8
			ipP	07 34 27.8					Aleutian Islands
		Um	iP	07 33 34.4					(h = 30 km).
			ipP	07 33 42.0					Magn. = 6.0 (Up,Ki).
		Ka	iP	07 34 27.2	"	4	Um	iP	07 54 41.8
			ipP	07 34 33.6					
				Aleutian Islands.	"	4	Up	iP	07 57 09.7
				h = 25 km (Up,Ki,Sk,Gb, Um,Ka).			Ki	iP	07 56 16.1
				At all our stations, the phase interpreted as pP has a considerably larger amplitude than P. An alternative interpretation would naturally be in terms of two different shocks.					Aleutian Islands.
									Origin time = 07 46 17.
"	4	Up	iP	07 36 03.0	"	4	Up	iP	08 02 28.8
				Aleutian Islands.			Ki	iP	08 01 40.5
"	4	Up	iP	07 40 48.1			Um	iP	08 02 02.4
		Ki	iP	07 39 54.0					Aleutian Islands
		Sk	iP	07 40 28.5					(h = 20 km).
		Um	iP	07 40 20.6 C					
				Aleutian Islands.	"	4	Up	iP	08 03 45.6 C
				Origin time = 07 29 56.			Ki	iP	08 02 52.0
"	4	Up	iP	07 43 02.5					microns sec
		Ki	iP	07 42 09.5					P Z' 0.1 1.3
		Um	iP	07 42 34.7			Um	iP	08 03 18.0
				Aleutian Islands					Aleutian Islands.
				(h = 25 km).					Origin time = 07 52 54.
"	4	Up	iP	07 51 28.8	"	4	Up	iP	08 04 24.9
			ipP	07 51 38.1			Sk	iP	08 04 04.1
		Ki	iP	07 50 39.3			Gb	iP	08 04 41.0
				Aleutian Islands.					Aleutian Islands
				h = 40 km (Up).					(h = 30 km).
"	4	Up	iP	07 53 26.9 C	"	4	Up	iP	08 07 24.5
			ipP	07 53 37.7			Um	iP	08 06 57.9
		Ki	iP	07 52 33.4					Aleutian Islands
				Aleutian Islands.					(h = 30 km).
				h = 40 km (Up).	"	4	Ki	iP	08 07 26.0
				Origin time = 07 42 35.	"	4	Up	iP	08 10 17.9
"	4	Up	iP	07 54 27.5			Ki	iP	08 09 23.8
				microns sec			Um	iP	08 09 50.2
				P Z' 0.1 0.5					Aleutian Islands.
		Ki	iP	07 53 33.8					Origin time = 07 59 25.
				microns sec	"	4	Up	iP	08 11 29.3
				P Z' 0.1 1.0			Um	iP	08 11 01.3
		Sk	iP	07 54 08.4					Aleutian Islands
		Gb	iP	07 54 47.0 C					(h = 30 km).
		Um	iP	07 53 59.5	"	4	Up	iP	08 14 57.7 C
							Ki	iP	08 14 04.0 C
									microns sec
									P Z' 0.1 1.0
							Sk	iP	08 14 38.3
							Gb	iP	08 15 15.5 C
cont.					cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	4	Ki	iP	08 49 28.5	Feb.	4			the largest aftershock;
cont.				microns sec	cont.				its magnitude is 1.0 lower
			P	Z' 0.1 1.3					than for the main shock,
		Sk	iP	08 50 01.1					this being an average of
		Gb	iP	08 50 37.9					determinations at Uppsala,
		Aleutian Islands							Kiruna, Pasadena, Moscow,
		(h = 25 km).							USCGS. This is fairly good
		Magn. = 5.7 (Up,Ki).							agreement with the average
"	4	Up	iP	08 51 36.7 C					rule for shallow shocks:
			eS	09 00 34					M - M1 = 1.2.
			iP'P'	09 19 46.7	"	4	Up	iP2	09 05 01.4
			i	09 19 59.6			Ki	iP1	09 04 00.8
				microns sec				iP2	09 04 06.7
		P	N	27 18			Um	iP1	09 04 25.5
		P	Z	37 20				iP2	09 04 35.9
		P	Z'	1.2 0.5			Gb	iP2	09 05 16.4
		S	E	25 20			Aleutian Islands		
		S	N	24 18			(h = 30 km).		
		P'P'	Z'	1.1 2.0			Probably two separate		
		M	E	86 19			shocks, 1 and 2.		
		M	N	130 20					
		M	Z	110 20					
		D = 7500 km = 67 1/2°.			"	4	Up	iP	09 08 45.6
		Ki	iP	08 50 45.7 C			Um	iP	09 08 17.2
			i	08 51 06			Aleutian Islands		
			iS	08 58 52			(h = 30 km).		
			iP'P'	09 20 20.1					
				microns sec					
		P	Z	5.5 6			Up	iP	09 10 04.9
		P	Z'	0.9 0.7					microns sec
		S	E	54 22				P	Z' 0.2 1.0
		S	N	19 16			Ki	iP	09 09 11.5 D
		M	E	160 19					microns sec
		M	N	110 18				P	Z' 0.1 1.0
		M	Z	240 20			Sk	iP	09 09 46.2
		D = 6650 km = 60°.					Gb	iP	09 10 22.9
		Sk	iP1	08 51 14.4				ipP	09 10 30.5
			iP2	08 51 18.7				i	09 10 36.7
			iP'P'	09 19 53.7			Um	iP	09 09 37.7
		Gb	iP1	08 51 52.8			Ka	iP	09 10 29.0
			iP2	08 51 55.5				ipP	09 10 36.8
		Um	iP	08 51 11.6			Aleutian Islands.		
			iP'P'	09 20 00.7			h = 30 km (Gb,Ka).		
		Ka	iP1	08 51 58.5			Magn. = 5.9 (Up,Ki).		
			iP2	08 52 02.5					
		Aleutian Islands			"	4	Up	iP	09 11 21.4
		(h = 40 km).							microns sec
		Magn. = 7.2 (Up,Ki).						P	Z' 0.1 0.5
		As in the main shock, the					Ki	iP	09 10 28.0
		P phases are multiple, this							microns sec
		time with two clear onsets						P	Z' 0.1 1.0
		separated by about 3-4 sec,					Sk	iP	09 11 02.0
		the second one being the					Gb	iP	09 11 39.1 C
		larger, probably due to					Um	iP	09 10 53.6
		multiple shocks. - This is					Aleutian Islands		
							(h = 40 km).		
							Magn. = 5.9 (Up,Ki).		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona.

1965					1965				
Feb.	4	Um	iP	09 12 17.7	Feb.	4	Ki	iP	09 45 20.5
"	4	Up	iP	09 17 23.4	cont.			ipP	09 45 27.5
		Gb	iP	09 17 42.2					microns sec
		Um	iP	09 16 56.0				P	Z' 0.1 1.4
		Aleutian Islands						pP	Z' 0.1 1.0
		(h = 40 km).					Sk	iP	09 46 01.4
"	4	Up	iP	09 22 52.9			Gb	iP	09 46 30.4
				microns sec				ipP	09 46 38.6
			P	Z' 0.1 1.0			Um	iP	09 45 46.5
		Ki	iP	09 21 58.5				ipP	09 45 54.1
		Sk	iP	09 22 34.1			Ka	iP	09 46 36.9
		Gb	eP	09 23 10				ipP	09 46 44.8
		Um	iP	09 22 25.9			Aleutian Islands.		
			ipP	09 22 33.6			h = 30 km (Up, Ki, Gb, Um, Ka).		
		Aleutian Islands.					Magn. = 5.7 (Up, Ki).		
		h = 30 km (Um).			"	4	Up	iP	09 48 22.4
"	4	Up	iP	09 30 56.6				ipP	09 48 30.0
				microns sec					microns sec
			P	Z' 0.1 1.0				P	Z' 0.1 1.0
		Ki	iP	09 30 05.0				pP	Z' 0.2 1.0
			ipP	09 30 16.7			Ki	iP	09 47 28.7
		Sk	iP	09 30 37.7				ipP	09 47 36.5
		Gb	iP	09 31 14.1					microns sec
		Um	iP	09 30 29.9				P	Z' 0.1 1.0
			ipP	09 30 42.4				pP	Z' 0.1 1.0
		Aleutian Islands.					Sk	iP	09 48 10.1
		h = 50 km (Ki, Um).					Gb	iP	09 48 39.6
"	4	Um	iP	09 34 07.3				ipP	09 48 47.2
"	4	Up	iP	09 35 47.9			Um	iP	09 47 54.5
		Um	iP	09 35 20.7 C				ipP	09 48 02.4
		Aleutian Islands.					Aleutian Islands.		
		Origin time = 09 24 56.			"	4	Up	iP	09 49 25.5
"	4	Up	iP	09 39 06.4					h = 30 km (Up, Ki, Gb, Um).
		Ki	iP	09 38 12.7 C					Magn. = 5.7 (Up, Ki).
		Um	iP	09 38 38.7	"	4	Um	iP	09 51 38.2
		Aleutian Islands.					(Aleutian Islands).		
		Origin time = 09 28 14.			"	4	Up	eP	09 53 46
"	4	Up	iP	09 41 05.5			Ki	iP	09 52 50.2
"	4	Up	iP	09 42 24.1			Sk	iP	09 53 26.8
		Ki	iP	09 41 30.0			Um	iP	09 53 19.1
		Um	iP	09 41 56.6			Aleutian Islands		
		Aleutian Islands.					(h = 15 km).		
		Origin time = 09 31 32.			"	4	Up	iP	09 59 21.2 C
"	4	Up	iP	09 46 14.3			Ki	iP	09 58 25.9
			ipP	09 46 21.5			Um	iP	09 58 58.0
				microns sec			Aleutian Islands		
			P	Z' 0.2 1.3			(h = 25 km).		
			pP	Z' 0.3 1.0	"	4	Up	iP	10 02 56.9
				microns sec					microns sec
				Z' 0.3 1.0				P	Z' 0.3 1.5
cont.					cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	4	Um	iP	11 10 54.3	Feb.	4	Gb	iP	11 59 37.6
cont.			ipP	11 11 06.5	cont.		Um	iP	11 58 52.5
		Ka	iP	11 11 57.6				ipP	11 59 06.9
		Aleutian Islands.					Aleutian Islands.		
		h = 50 km (Up,Ki,Sk,Um).					h = 60 km (Um).		
		Magn. = 5.8 (Up,Ki).							
"	4	Ki	eP	11 16 25	"	4	Up	iP	12 09 00.3 C
		Aleutian Islands							microns sec
		(h = 25 km).						P	Z' 0.1 0.8
							Ki	iP	12 08 07.0
							Sk	iP	12 08 40.4
"	4	Um	iP	11 19 11.6			Gb	iP	12 09 17.5 C
		Aleutian Islands					Um	iP	12 08 32.9 C
		(h = 40 km).						ipP	12 08 45.8
		Aleutian Islands.					h = 50 km (Um).		
"	4	Up	iP	11 26 25.7					
		Um	iP	11 25 58.2	"	4	Up	iP	12 16 47.6
		Aleutian Islands						i	12 16 49.4 C
		(h = 20 km).						iPP	12 19 25
								iS	12 25 33
"	4	Up	iP	11 29 37.0				iScS	12 26 42
		Ki	iP	11 28 42.5				iP'P'	12 45 32
		Um	iP	11 29 09.8 D					microns sec
		Aleutian Islands						P	N 5.1 10
		(h = 25 km).						P	Z 4.1 6
"	4	Um	iP	11 31 06.9				P	Z' 0.3 0.6
		Aleutian Islands						PP	Z 0.6 4
		(h = 30 km).						S	E 2.6 5
								S	N 2.3 5
"	4	Up	iP	11 34 00.6				M	E 11 17
			ipP	11 34 11.9				M	N 13 19
		Ki	iP	11 33 07.0 C				M	Z 13 19
		Gb	iP	11 34 19.1				D = 7350 km = 66°.	
		Um	iP	11 33 33.0			Ki	iP	12 15 54.0
		Aleutian Islands.						i	12 15 55.7 C
		h = 40 km (Up).						i	12 16 09
"	4	Up	iP	11 38 17.8				iPP	12 17 59
		Ki	iP	11 37 20.5				iPa	12 19 39
			ipP	11 37 29.0				eS	12 23 51
		Gb	iP	11 38 33.7				iScS	12 25 43
		Um	iP	11 37 48.4				eP'P'	12 45 53
		Aleutian Islands.							microns sec
		h = 30 km (Ki).						P	N 2.6 5
"	4	Ki	iP	11 42 57.5				P	Z 6.1 6
		Um	iP	11 43 23.1				P	Z' 0.6 1.0
		Aleutian Islands						PP	Z 1.4 4
		(h = 40 km).						S	E 9.5 13
								S	N 1.5 10
"	4	Up	iP	11 51 29.9				M	E 13 18
		Ki	iP	11 50 27.6				M	N 14 21
			i(pP)	11 50 37.5				M	Z 30 22
								D = 6450 km = 58°.	
"	4	Up	iP	11 59 19.8			Sk	iP	12 16 29.3
								i	12 16 30.8
								i	12 17 47.4
							Gb	iP	12 17 06.3 D
								i	12 17 07.9
cont.					cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
Feb.	4	Gb	ipP	12 17 15.5	Feb.	4	Ki	ipP	13 01 04.9	
cont.			eP'P'	12 45 20	cont.				microns sec	
		Um	iP	12 16 19.7				P	Z' 0.1 1.4	
			i	12 16 21.8		Sk	iP		13 01 31.6	
			iP'P'	12 45 39.1		Gb	iP		13 02 08.4 C	
		Ka	iP	12 17 12.0 D			ipP		13 02 15.5	
			i	12 17 13.7		Um	iP		13 01 23.6 C	
			ipP	12 17 21.7			ipP		13 01 31.0	
		Aleutian Islands.				Ka	iP		13 02 15.0	
		h = 40 km (Gb,Ka).					ipP		13 02 21.9	
		Magn. = 6.7 (Up,Ki).				Aleutian Islands.				
		Again, the P phase is				h = 30 km (Up,Ki,Gb,Um,Ka).				
		multiple with a small phase				Magn. = 5.8 (Up,Ki).				
		followed by a much larger								
		phase after 1.7 sec on the			"	4	Up	iP	13 03 58.2	
		average. Compare similar					Ki	iP	13 03 04.5	
		remarks to the main shock					Gb	iP	13 04 15.5	
		(05 12) and to the next					Um	iP	13 03 29.5	
		largest one, so far				Aleutian Islands				
		(08 51). The opposite				(h = 25 km).				
		case, i.e. with a large								
		phase followed after a			"	4	Up	iP	13 05 19.2	
		few seconds by a small P,							microns sec	
		will not be discovered,						P	Z' 0.1 0.9	
		for obvious reasons.					Ki	iP	13 04 25.6	
"	4	Um	iP	12 25 43.0			Um	iP	13 04 52.1	
"	4	Up	iP	12 27 45.2 D		Aleutian Islands.				
		Um	iP	12 27 17.2	"	4	Up	iP	13 17 57.6 C	
		Aleutian Islands.					Um	iP	13 17 29.6	
		Origin time = 12 16 53.				Aleutian Islands				
"	4	Ki	eP	12 30 06		(h = 30 km).				
		Aleutian Islands			"	4	Um	iP	13 22 14.7	
		(h = 30 km).				Aleutian Islands				
"	4	Up	iP	12 51 28.1 C		(h = 30 km).				
"	4	Up	iP	12 52 54.3	"	4	Up	iP	13 23 30.9	
"	4	Up	iP	12 53 10.3			ipP	13 23 36.8		
		Ki	iP	12 52 16.7			Um	iP	13 23 02.6	
		Aleutian Islands					ipP	13 23 08.9		
		(h = 25 km).				Aleutian Islands.				
"	4	Up	iP	12 55 00.4 D		h = 25 km (Up,Um).				
		Um	eP	12 54 32	"	4	Up	iP	13 34 37.3	
		Aleutian Islands					Sk	iP	13 34 22.3	
		(h = 30 km).				Aleutian Islands				
"	4	Up	iP	13 01 51.1 C		(h = 30 km).				
			ipP	13 01 58.4	"	4	Up	iP	13 40 47.6	
				microns sec					microns sec	
			P	Z' 0.3 1.1			P	Z' 0.1 1.0		
		Ki	iP	13 00 57.5			Ki	iP	13 39 54.1	
cont.							Sk	iP	13 40 28.0 C	
							Gb	iP	13 41 05.4	
					cont.					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Feb.				Feb.			
cont.	4	Um iP	13 40 19.6 C	cont.	4	Ki iScS	14 38 02
		Aleutian Islands (h = 30 km).				microns sec	
						P N	1.8 5
						P Z	3.3 5
"	4	Up iP	13 44 05.4			P Z'	1.0 0.8
		Um iP	13 43 37.3			S E	5.6 8
		Aleutian Islands (h = 30 km).				S N	2.1 8
						M E	8.7 14
						M N	13 17
"	4	Up iP	13 56 02.8			M Z	17 17
		ipP	13 56 15.2			D = 6400 km = 57 1/2°	
		Ki iP	13 55 09.0		Sk	iP	14 28 50.2 C
		ipP	13 55 21.2			ipP	14 28 59.2
		Um iP	13 55 34.5		Gb	iP	14 29 27.6 C
		ipP	13 55 47.4			iPP	14 31 59.9
		Aleutian Islands. h = 50 km (Up,Ki,Um).				iS	14 38 29.4
					Um	iP	14 28 41.3 C
"	4	Um iP	13 58 32.9		Ka	iP	14 29 33.1 C
						iS	14 38 40.7
"	4	Up iP	14 02 59.6		Aleutian Islands. h = 40 km (Sk).		
		Ki iP	14 02 07.2		Magn. = 6.6 (Up,Ki).		
		Aleutian Islands (h = 30 km).		"	4	Up iP	14 37 49.4
						(Aleutian Islands).	
"	4	Up iP	14 13 23.5	"	4	Up iP	14 40 40.5
		Ki iP	14 12 29.6 D			microns sec	
		Aleutian Islands (h = 30 km).				P Z'	0.1 1.0
"	4	Gb iP	14 15 54.3		Ki	iP	14 39 47.0 C
		Aleutian Islands (h = 30 km).				microns sec	
						P Z'	0.1 1.0
"	4	Up iP	14 16 37.0		Sk	iP	14 40 20.0
		(Aleutian Islands).			Um	iP	14 40 13.0 C
"	4	Um iP	14 23 45.7		Aleutian Islands (h = 40 km).		
		Aleutian Islands (h = 25 km).			Magn. = 5.7 (Up,Ki).		
"	4	Up iP	14 29 09.1 C	"	4	Up iP	14 41 21.7 C
		ePa	14 33 15			microns sec	
		iS	14 37 50			P Z'	0.2 1.0
		microns sec			Ki	iP	14 40 28.3
		P N	1.5 5			microns sec	
		P Z	2.8 5			P Z'	0.1 0.9
		P Z'	0.6 0.5		Sk	iP	14 41 01.9 C
		S E	3.3 5		Gb	iP	14 41 39.1 C
		S N	1.5 5		Um	iP	14 40 54.5
		M E	9.0 16		Aleutian Islands (h = 30 km).		
		M N	12 22		Magn. = 5.9 (Up,Ki).		
		M Z	9.5 21	"	4	Up iP	14 45 59.0
		D = 7300 km = 65 1/2°		"	4	Gb iP	14 56 56.7
		Ki iP	14 28 14.5 C	"	4	Up eP	14 59 49
		ePa	14 31 46	cont.			
		iS	14 36 11				

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb. cont.	4	Ki	iP	14 58 55.7 C	Feb. cont.	4	Sk	iP	16 01 45.5 C
			ipP	14 59 05.5			Gb	iP	16 02 23.4 C
		Um	iP	14 59 14.8				ipP	16 02 31.0
			ipP	14 59 21.7			Um	iP	16 01 36.8 C
		Aleutian Islands.					Ka	iP	16 02 28.5 C
		h = 30 km (Ki,Um).						ipP	16 02 36.4
"	4	Up	iP	15 14 29.0			Aleutian Islands.		
		Ki	iP	15 13 36.4			h = 30 km (Up,Gb,Ka).		
		Gb	iP	15 14 47.3			Magn. = 6.1 (Up,Ki).		
		Um	iP	15 14 01.6	"	4	Up	iP	16 10 20.0 D
		Aleutian Islands					Ki	iP	16 09 26.6
		(h = 30 km).					Sk	eP	16 10 00
"	4	Up	iP	15 15 07.5			Um	iP	16 09 52.1
"	4	Ki	iP	15 16 06.4				ipP	16 10 00.1
		Um	iP	15 16 32.0			Aleutian Islands.		
		Aleutian Islands					h = 30 km (Um).		
		(h = 30 km).			"	4	Up	iP	16 14 37.6
"	4	Up	iP	15 42 02.4			Ki	iP	16 13 44.0
		Ki	iP	15 41 04.6				ipP	16 13 55.0
		Gb	iP	15 42 17.0			Um	iP	16 14 09.8
		Um	iP	15 41 30.2				i(sP)	16 14 25.6
			i	15 41 49.7			Aleutian Islands.		
		Aleutian Islands					h = 40 km (Ki).		
		(h = 50 km).			"	4	Up	eP	16 39 09
"	4	Up	iP	15 55 52.1			Ki	iP	16 38 17.0
		Aleutian Islands					Sk	iP	16 38 55.2
		(h = 30 km).					Gb	iP	16 39 26.8 C
"	4	Up	iP	16 02 05.0 C			Um	iP	16 38 42.8
			ipP	16 02 12.5			Aleutian Islands		
			iS	16 10 47			(h = 40 km).		
				microns sec	"	4	Up	iP	16 43 25.0
		P	Z	0.7 3				ipP	16 43 33.8
		P	Z'	0.8 1.5					microns sec
		S	E	0.9 5			Ki	iP	Z' 0.1 1.0
		S	N	0.7 7				ipP	16 42 32.1 D
		M	E	2.4 17					16 42 39.8
		M	N	2.5 18					microns sec
		M	Z	2.2 17			Sk	pP	Z' 0.2 1.2
		D = 7200 km = 65°.					Gb	ipP	16 43 14.8
		Ki	iP	16 01 10.7 C			Um	iP	16 43 44.0
			eS	16 09 05				ipP	16 43 51.8
				microns sec			Um	ipP	16 42 57.9
		P	Z	1.2 5				ipP	16 43 05.4
		P	Z'	0.7 1.2			Ka	iP	16 43 51.0
		S	E	1.3 7			Aleutian Islands.		
		S	N	0.7 7			h = 30 km (Up,Ki,Gb,Um).		
		M	E	1.9 17			In this and several other		
		M	N	2.3 17			aftershocks the pP phase		
		M	Z	3.4 19			is larger than the P phase.		
		D = 6350 km = 57°.					In such cases there is a		
							certain risk at many		
							stations that the true pP		
							will be taken for P.		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Feb.	4	Up	iP 17 02 27.4	Feb.	4	Up	iP 18 01 35.1
		Ki	iP 17 01 34.2			ipP	18 01 41.2
		Gb	iP 17 02 44.6				microns sec
		Um	iP 17 01 57.5			pP	Z' 0.2 1.0
			ipP 17 02 05.9			Ki	iP 18 00 42.5
		Ka	iP 17 02 56.5			ipP	18 00 48.2
		Aleutian Islands.				Gb	iP 18 01 52.1
		h = 30 km (Um).				ipP	18 02 00.0
"	4	Um	iP 17 12 56.5 C			Um	iP 18 01 08.7
			i(pP) 17 13 04.4			ipP	18 01 13.9
"	4	Up	iP 17 14 26.9			Ka	ipP 18 02 06.5
		Gb	iP 17 14 45.4			Aleutian Islands.	
		Um	iP 17 13 59.0			h = 25 km (Up,Ki,Gb,Um).	
		Aleutian Islands		"	4	Up	iP 18 12 22.6
		(h = 30 km).				Um	iP 18 11 54.8 C
"	4	Up	iP 17 15 33.9 C			Aleutian Islands	
			ipP 17 15 46.2			(h = 40 km).	
			microns sec	"	4	Up	iP 18 17 56.4
			P Z' 0.1 0.9			i	18 17 59.2
		Ki	iP 17 14 40.5 C			Gb	eP 18 18 16
			ipP 17 14 53.1			Um	iP 18 17 28.5
			microns sec			ipP	18 17 39.3
			M E 1.1 17			Aleutian Islands.	
			M N 0.7 16			h = 40 km (Um).	
			M Z 1.2 16	"	4	Up	iP 18 24 41.4
		Sk	iP 17 15 14.2			ipP	18 24 51.0
		Gb	iP 17 15 50.7 C			Ki	iP 18 23 47.1
			ipP 17 16 03.6			Gb	ipP 18 25 09.1
		Um	iP 17 15 06.5 C			Um	iP 18 24 14.6
		Ka	iP 17 15 57.3			ipP	18 24 24.0
			ipP 17 16 09.6			Aleutian Islands.	
		Aleutian Islands.				h = 40 km (Up,Um).	
		h = 50 km (Up,Ki,Gb,Ka).		"	4	Um	iP 18 30 01.8
"	4	Up	iP 17 17 00.2	"	4	Up	iP 18 45 03.3 C
			i(pP) 17 17 08.7				microns sec
"	4	Up	iP 17 28 20.5			P	Z' 0.3 1.0
			ipP 17 28 27.7			Ki	iP 18 44 10.3 C
			microns sec				microns sec
			pP Z' 0.1 1.0			P	Z' 0.1 1.1
		Ki	iP 17 27 27.9			Sk	iP 18 44 44.3
			ipP 17 27 34.0			Gb	iP 18 45 21.3 C
		Gb	iP 17 28 37.4			i(pP)	18 45 31.8
		Um	iP 17 27 53.0			Um	iP 18 44 35.8 C
			ipP 17 27 59.5			i(pP)	18 44 42.3
		Aleutian Islands.				Ka	iP 18 45 26.9
		h = 25 km (Up,Ki,Um).				Aleutian Islands.	
"	4	Up	iP 17 57 57.4			h = 30 km (Gb,Um).	
		Aleutian Islands				Magn. = 6.0 (Up,Ki).	
		(h = 30 km).		"	4	Up	iP 18 50 40.7
"	4	Um	iP 17 59 39.1			ipP	18 50 49.0
						Ki	iP 18 49 50.4

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	4	Gb	iP	18 50 58.1	Feb.	4	Sk	iP	19 11 59.9
cont.		Um	iP	18 50 13.7	cont.		Gb	iP	19 12 36.5
		Aleutian Islands.					Um	iP	19 11 50.0 C
		h = 30 km (Up).					Ka	iP	19 12 42.1
"	4	Up	iP	18 54 43.9			Aleutian Islands.		
		Aleutian Islands					h = 40 km (Ki).		
		(h = 30 km).			"	4	Up	iP	19 23 01.3
"	4	Up	iP	18 59 01.0 C			ipP	19 23 11.8	
		microns sec					microns sec		
		P	Z'	0.1 0.9			Ki	iP	19 22 09.0
		M	E	0.7 18			Gb	ipP	19 23 28.6
		M	N	1.4 22			Um	iP	19 22 31.5
		M	Z	1.4 22			ipP	19 22 44.3	
		Ki	iP	18 58 07.5 C			Aleutian Islands.		
		iPcP	18 58 56.1				h = 50 km (Up,Um).		
		microns sec			"	4	Up	eP	19 27 38
		M	E	0.9 18			Ki	iP	19 26 48.4 D
		M	N	0.8 17			Sk	iPcP	19 27 58.6
		M	Z	1.0 16			Um	iP	19 27 14.2
		Sk	iP	18 58 41.6 C			Aleutian Islands		
		iPcP	18 59 17.4				(h = 30 km).		
		Gb	iP	18 59 18.5	"	4	Ki	iP	19 31 46.7
		Um	iP	18 58 33.8 C			Aleutian Islands		
		ipP	18 58 42.9				(h = 30 km).		
		Ka	iP	18 59 24.8 C	"	4	Up	eP	19 48 49
		ipP	18 59 34.5				Up	iP	19 54 44.1
		Aleutian Islands.					ipP	19 54 55.1	
		h = 40 km (Um,Ka).					iS	20 03 25	
		Magn. = 5.4 (Up,Ki).					microns sec		
"	4	Up	iP	19 02 34.0			S	N	0.7 7
		Ki	ipP	19 01 53.0			M	E	1.8 19
		Um	iP	19 02 07.0 C			M	N	4.7 23
		Aleutian Islands					M	Z	2.6 20
		(h = 40 km).					D = 7200 km = 65°.		
"	4	Up	iP	19 07 02.9			Ki	iP	19 55 06.5
		Ki	iP	19 07 27.6			iS	20 04 11	
		Atlantic Ocean					microns sec		
		(h = 30 km).					P	Z'	0.2 1.4
"	4	Up	iP	19 08 59.9 C			S	N	1.0 9
		ipP	19 09 08.3				M	E	4.5 21
		Ki	iP	19 08 02.9			M	N	1.0 17
		Um	iP	19 08 31.9			M	Z	6.3 20
		ipP	19 08 40.8				D = 7600 km = 68 1/2°.		
		Aleutian Islands.					Sk	iP	19 54 44.9 C
		h = 30 km (Up,Um).					Gb	iP	19 54 19.6 C
"	4	Up	eP	19 12 18 C			ipP	19 54 32.4	
		Ki	iP	19 11 24.4 C			Um	iP	19 55 01.0
		ipP	19 11 35.0				iS	20 03 56	
		microns sec					Ka	iP	19 54 34.4
		P	Z'	0.1 1.0			ipP	19 54 42.0	
cont.							Atlantic Ocean.		
							h = 40 km (Up,Gb,Ka).		
							Magn. = 5.9 (Up,Ki).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	4	Up	iP	20 05 32.1	Feb.	4	Up	iP	21 35 07.3
		Ki	iP	20 04 38.5					microns sec
		Gb	iP	20 05 49.6				P	Z' 0.1 1.0
		Aleutian Islands					Gb	iP	21 35 24.8
		(h = 25 km).					Aleutian Islands		
"	4	Up	iP	20 08 43.3 C	"	4	Up	iP	21 36 19.7
				microns sec			Um	iP	21 35 52.3
			P	Z' 0.2 1.0			Aleutian Islands.		
		Ki	iP	20 07 49.6 C			Origin time = 21 25 28.		
		Sk	iP	20 08 23.7 C					
		Gb	iP	20 09 00.8	"	4	Up	iP	21 40 29.7
			ipP	20 09 08.9				ipP	21 40 41.6
		Um	iP	20 08 15.7 C			Ki	iP	21 39 32.6 D
		Ka	iP	20 09 06.8 C			Gb	iP	21 40 47.2
			ipP	20 09 15.0			Um	iP	21 39 58.1
		Aleutian Islands.					Ka	iP	21 40 53.5
		h = 30 km (Gb,Ka).					Aleutian Islands.		
"	4	Up	iP	20 16 36.8			h = 50 km (Up).		
		Ki	iP	20 15 43.4	"	4	Um	iP	21 42 22.1
		Um	iP	20 16 09.8				i(pP)	21 42 27.7
		Aleutian Islands			"	4	Up	iP	21 46 45.8
		(h = 30 km).						ipP	21 46 56.3
"	4	Up	iP	20 28 07.3					microns sec
		Aleutian Islands						P	Z' 0.1 0.8
		(h = 30 km).					Ki	iP	21 45 52.8 D
"	4	Ki	iP	20 31 39.1			Gb	iP	21 47 02.7
		Aleutian Islands					Um	iP	21 46 18.7
		(h = 30 km).						ipP	21 46 29.1
"	4	Up	iP	20 43 18.4 C			Aleutian Islands.		
				microns sec			h = 40 km (Up,Um).		
			P	Z' 0.3 1.0	"	4	Up	iP	21 49 44.6
		Ki	iP	20 42 25.1			Ki	iP	21 48 51.5
				microns sec			Um	iP	21 49 18.2
			P	Z' 0.1 1.0			Aleutian Islands		
		Sk	iP	20 42 58.7			(h = 30 km).		
		Gb	iP	20 43 36.0	"	4	Um	iP	21 55 23.2
		Um	iP	20 42 53.1 C	"	4	Up	iP	22 02 42.3
			ipP	20 43 04.9			Aleutian Islands		
		Ka	iP	20 43 42.1 C			(h = 30 km).		
		Aleutian Islands.			"	4	Up	iP	22 06 23.9 C
		h = 50 km (Um).						i	22 06 39.3
		Magn. = 6.0 (Up,Ki).					Um	iP	22 05 56.0 C
"	4	Um	iP	20 43 59.5			Aleutian Islands		
"	4	Up	iP	20 58 15.8			(h = 30 km).		
		Ki	iP	20 57 21.6	"	4	Um	iP	22 11 12.7
		Sk	iP	20 58 00.8	"	4	Up	iP	22 24 54.1
		Gb	iP	20 58 32.6			Ki	iP	22 24 03.8
		Um	iP	20 57 47.8			cont.		
		Ka	iP	20 58 38.5					
		Aleutian Islands							
		(h = 30 km).							

Up = Uppsala, Ki = Kiruna, Sk = Skälstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965						1965					
Feb.	4	Um	iP	22 24 30.2 D		Feb.	5	Up	ipP	00 42 59.0	
cont.		Aleutian Islands (h = 30 km).				cont.				microns sec	
									P	Z' 0.2 1.0	
									pP	Z' 0.5 1.0	
"	4	Up	iP	22 40 56.9				Ki	iP	00 41 55.3	
				microns sec					ipP	00 42 04.8	
			P	Z' 0.3 1.0						microns sec	
		Ki	iP	22 40 03.8					P	Z' 0.2 1.0	
			ipP	22 40 10.0					pP	Z' 0.2 1.0	
				microns sec				Sk	iP	00 42 28.7	
			P	Z' 0.1 1.0					ipP	00 42 38.9	
		Sk	iP	22 40 37.6				Gb	iP	00 43 05.9	
		Gb	iP	22 41 14.4 D					ipP	00 43 16.7	
		Um	iP	22 40 28.6				Um	iP	00 42 18.6	
		Ka	iP	22 41 20.1 D					ipP	00 42 30.5	
		Aleutian Islands. h = 25 km (Ki). Magn. = 6.0 (Up,Ki).							eS	00 50 57	
								iScS	00 52 14		
								Ka	iP	00 43 13.6	
									ipP	00 43 22.4	
"	4	Up	iP	23 24 36.9 C				Aleutian Islands. h = 40 km (Up,Ki,Sk,Gb, Um,Ka). Origin time = 00 31 56. Magn. = 6.0 (Up,Ki).			
		Um	iP	23 24 09.4							
		Aleutian Islands (h = 30 km).									
"	4	Up	iP	23 37 19.8		"	5	Up	iP	00 53 19.7	
				microns sec						microns sec	
			P	Z' 0.1 0.8					P	Z' 0.1 1.0	
		Ki	iP	23 36 26.5					M	N 0.7 18	
				microns sec				Ki	i(P)	00 52 14.7	
			P	Z' 0.1 1.3				Gb	iP	00 53 37.6	
		Sk	iP	23 36 59.8 C				Um	iP	00 52 40.6	
		Gb	iP	23 37 36.9					ipP	00 52 52.0	
		Um	iP	23 36 52.4				Ka	iP	00 53 43.9	
		Aleutian Islands (h = 30 km). Magn. = 5.7 (Up,Ki).						Aleutian Islands. h = 50 km (Um).			
"	5	Up	iP	00 34 02.1		"	5	Um	iP	00 55 27.5	
			ipP	00 34 14.8							
		Aleutian Islands. h = 50 km (Up).						"	5	Up	iP
										01 17 12.2	
										microns sec	
			P	Z' 0.2 1.5						P	Z' 0.2 1.5
"	5	Up	iP	00 42 26.0 C				Ki	iP	01 16 10.6 D	
				microns sec				Um	iP	01 16 35.7	
			P	Z' 0.1 0.8					ipP	01 16 44.6	
		Ki	iP	00 41 32.3				Aleutian Islands. h = 40 km (Um).			
				microns sec							
			P	Z' 0.1 1.0				"	5	Um	iP
		Sk	iP	00 42 05.9						01 24 08.3	
		Gb	iP	00 42 43.5				"	5	Up	iP
		Um	iP	00 41 58.5						01 32 20.6	
		Aleutian Islands (h = 40 km). Magn. = 5.8 (Up,Ki).						Aleutian Islands (h = 40 km).			
"	5	Up	iP	00 42 48.2		"	5	Um	iP	01 58 41.0	
cont.						"	5	Up	iP	02 17 27.1	
						cont.					

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb. cont.	5	Ki	iP	06 49 47.6 C	Feb.	5	Ki	iP	08 11 25.6
				microns sec					Aleutian Islands
				P Z' 0.1 1.0					(h = 25 km).
				M E 1.4 19					
				M N 1.4 18	"	5	Up	iP	08 48 12.9
				M Z 3.2 20					Mexico (h = 15 km).
		Sk	iP	06 50 22.6					
			ipP	06 50 30.6					
		Gb	iP	06 50 59.9		5	Up	iP	09 02 12.0 C
			ipP	06 51 09.5					microns sec
		Um	iP	06 50 14.0					P Z' 0.2 0.9
		Ka	iP	06 51 05.6 C			Ki	iP	09 01 18.2 C
			i	06 51 36.0			Sk	iP	09 01 52.4 C
				Aleutian Islands.			Gb	iP	09 02 29.8
				h = 35 km (Sk,Gb).			Um	iP	09 01 44.3
"	5	Um	iP	06 55 21.0			Ka	iP	09 02 35.7
									Aleutian Islands
"	5	Up	iP	07 18 53.0		5	Up	iP	09 42 56.0 C
		Ki	iP	07 17 59.1				ipP	09 43 06.8
		Sk	iP	07 18 33.5				iS	09 51 42
		Gb	iP	07 19 09.5					microns sec
			ipP	07 19 18.4					P N 1.7 5
		Um	iP	07 18 25.6					P Z 1.9 5
				Aleutian Islands.					P Z' 1.3 0.7
				h = 35 km (Gb).					M E 2.9 19
"	5	Up	iP	07 30 06.2 D					M N 11 22
			ipP	07 30 16.4					M Z 11 22
				microns sec					D = 7400 km = 66 1/2°.
				P Z' 0.1 0.9			Ki	iP	09 42 02.0 C
		Ki	iP	07 29 13.1 D				ipP	09 42 13.6
				microns sec				i(S)	09 49 51
				P Z' 0.1 1.0				iS	09 50 06
		Sk	eP	07 29 47					microns sec
		Gb	iP	07 30 23.8					P N 1.5 6
			ipP	07 30 35.4					P Z 2.0 5
		Um	iP	07 29 38.0					P Z' 0.9 1.0
				Aleutian Islands.					S E 1.8 11
				h = 40 km (Up,Gb).					(S) N 1.6 11
				Magn. = 5.7 (Up,Ki).					M E 8.5 19
"	5	Um	iP	07 39 47.0					M N 5.5 19
				Aleutian Islands					M Z 16 23
				(h = 40 km).					D = 6500 km = 58 1/2°.
"	5	Up	iP	07 42 25.6			Sk	iP	09 42 36.4 C
		Ki	iP	07 41 31.7			Gb	iP	09 43 13.8 C
		Um	iP	07 41 59.9				ipP	09 43 24.8
				Aleutian Islands			Um	iP	09 42 27.3 C
				(h = 30 km).				ipP	09 42 39.6
"	5	Um	iP	08 00 58.0 C				iPa	09 46 37
				Aleutian Islands				i(S)	09 50 33
				(h = 25 km).				iS	09 50 47
								iP'P'	10 11 24.5
							Ka	iP	09 43 18.9 C
								ipP	09 43 30.9
									Aleutian Islands.
									h = 45 km (Up,Ki,Gb,Um,Ka).
									Magn. = 6.5 (Up,Ki).

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965		1965	
Feb. cont.	5	The N-components at Ki and Um show S-phases, denoted (S), which arrive too early. A possible reason is partial conversion of incident S into P at Moho or deeper.	Feb. cont. 5 Sk iP 13 49 16.9 Gb iP 13 49 53.9 D Um iP 13 49 08.6 D Ka iP 13 49 59.1 Aleutian Islands (h = 40 km). Magn. = 5.9 (Up,Ki).
"	5	Gb iP 09 51 15.8	" 5 Up iP 14 02 36.8 C Ki iP 14 01 42.8 C
"	5	Ki iP 10 14 58.4 Aleutian Islands (h = 40 km).	P Z' 0.1 1.0 Sk iP 14 02 17.3 Gb iP 14 02 55.4 Um iP 14 02 09.2 C Aleutian Islands (h = 40 km).
"	5	Up iP 10 19 34.3 Ki iP 10 18 40.9 Um iP 10 19 05.7 Aleutian Islands (h = 30 km).	" 5 Up iP 14 19 14.3 C P Z' 0.2 1.0 Ki iP 14 18 20.9 P Z' 0.1 1.0 Sk iP 14 18 54.7 C Gb iP 14 19 31.9 Um iP 14 18 46.8 ipP 14 18 57.9 Ka iP 14 19 37.4 C Aleutian Islands (h = 40 km). Magn. = 5.9 (Up,Ki).
"	5	Up iP 11 01 12.9 ipP 11 01 24.0 Ki iP 11 00 18.8 Sk iP 11 00 53.8 Um iP 11 00 44.6 Aleutian Islands. h = 45 km (Up).	" 5 Up iP 14 27 02.0 C P Z' 0.2 0.5
"	5	Up iP 11 50 38.7 (Aleutian Islands).	" 5 Up iP 14 39 33.8 Ki iP 14 38 40.7 Sk iP 14 39 14.1 Gb iP 14 39 52.3 Um iP 14 39 04.2 Aleutian Islands (h = 30 km).
"	5	Up iP 12 33 38.8 C Aleutian Islands (h = 30 km).	" 5 Up iP 14 49 13.5 Ki eP 14 48 20 Gb iP 14 49 31.8 C Um iP 14 48 45.6 Aleutian Islands (h = 30 km).
"	5	Up iP 12 40 23.3 Ki iP 12 39 30.7 D Um iP 12 39 56.4 Aleutian Islands (h = 40 km).	" 5 Up iP 15 11 02.8
"	5	Up iP 13 37 41.6 C Ki iP 13 36 48.1 C Um iP 13 37 14.3 Aleutian Islands (h = 40 km).	" 5 Up iP 15 25 32.2 Aleutian Islands (h = 40 km).
"	5	Um iP 13 43 40.1 Aleutian Islands (h = 40 km).	
"	5	Up iP 13 49 36.1 D microns sec P Z' 0.2 1.0 Ki iP 13 48 42.7 D microns sec P Z' 0.1 1.0	
cont.			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
Feb.	5	Up	iP	15 40 54.1	Feb.	5	Um	iP	19 11 03.3
		Ki	iP	15 40 01.2	cont.		Aleutian Islands.		
		Um	iP	15 40 27.4					
		Aleutian Islands (h = 40 km).			"	5	Up	iP	19 11 39.4
									microns sec
"	5	Um	iP	16 05 24.5					Z' 0.5 1.5
		Aleutian Islands (h = 40 km).					Ki	iP	19 10 46.4
									microns sec
									Z' 0.3 1.5
"	5	Up	iP	16 15 00.6			Sk	iP	19 11 20.6
			ipP	16 15 10.2			Gb	iP	19 11 56.5
		Um	iP	16 14 32.8			Um	iP	19 11 11.1
		Aleutian Islands. h = 40 km (Up).					Ka	iP	19 12 02.6
"	5	Ka	i(P)	16 28 30.5			Aleutian Islands (h = 25 km). Magn. = 6.2 (Up,Ki). An alternative solution, although less likely, would be that these are pP to the preceding shock.		
"	5	Ki	iP	16 49 52.1					
		Um	iP	16 50 18.5	"	5	Ki	iP	20 49 14.5
		Aleutian Islands (h = 30 km).					Um	iP	20 49 40.6
							Aleutian Islands (h = 30 km).		
"	5	Up	iP	17 01 43.5	"	5	Up	iP	20 58 03.6 C
		Um	iP	17 01 11.3				iS	21 06 52
		Aleutian Islands (h = 40 km).							microns sec
"	5	Ki	iP	17 15 59.6					P Z' 0.4 0.7
									S N 0.7 7
"	5	Um	iP	18 08 09.2					M E 2.5 19
									M N 2.2 18
"	5	Up	eP	18 27 01					M Z 1.7 18
			ipP	18 27 06.7					D = 7450 km = 67°
		Ki	eP	18 26 05			Ki	iP	20 57 09.9 C
		Gb	iP	18 27 16.0				iS	21 05 16
		Um	iP	18 26 30.7 C					microns sec
		Aleutian Islands. h = 25 km (Up).							P N 1.0 5
"	5	Up	iP	18 34 57.3					P Z 1.2 6
				microns sec					P Z' 0.3 1.5
				P Z' 0.1 1.0					S E 1.4 9
		Ki	iP	18 34 03.8					S N 1.2 8
		Sk	iP	18 34 37.6					M E 2.4 18
		Gb	iP	18 35 14.7					M N 3.3 20
		Um	iP	18 34 29.7 C					M Z 5.1 19
		Aleutian Islands (h = 30 km).							D = 6550 km = 59°
"	5	Up	iP	18 52 02.2 C			Sk	iP	20 57 43.9
		Ki	iP	18 51 07.6			Gb	iP	20 58 19.7
		Um	iP	18 51 33.2			Um	iP	20 57 34.2 C
		Aleutian Islands. Origin time = 18 41 10.						iPa	21 01 25
								iS	21 06 04
"	5	Up	iP	19 11 31.9			Ka	iP	20 58 27.7
		Ki	iP	19 10 38.6			Aleutian Islands (h = 40 km). Magn. = 6.1 (Up,Ki).		
		Sk	iP	19 11 13.9	"	5	Up	iP	21 41 34.9
cont.							Um	iP	21 41 07.8 C
							Aleutian Islands (h = 40 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965										1965											
Feb.	5	Up	iP	21 54 57.3						Feb.	5	Ki	iP	23 24 16.7							
		Ki	iP	21 54 03.8								Um	iP	23 24 42.1							
		Um	iP	21 54 30.3								Aleutian Islands (h = 30 km).									
		Aleutian Islands (h = 25 km).																			
"	5	Up	iP	21 59 25.9						"	5	Um	iP	23 51 00.0							
				microns sec																	
			P	Z' 0.2 0.9								6	Up	iP	00 19 09.8						
		Ki	iP	21 58 33.7								Ki	iP	00 18 18.8							
				microns sec								Gb	eP	00 19 22							
			P	Z' 0.1 1.0									iPcP	00 19 43.6							
		Sk	iP	21 59 06.6								Um	iP	00 18 43.5							
		Gb	iP	21 59 41.9								Aleutian Islands (h = 25 km).									
		Um	iP	21 58 58.8																	
				iPcP	21 59 34.1							"	6	Up	iP	00 22 53.9					
		Ka	iP	21 59 48.9								Um	iP	00 22 25.4							
		Aleutian Islands (h = 25 km). Magn. = 6.0 (Up,Ki).											Aleutian Islands (h = 30 km).								
"	5	Up	iP	22 26 55.0 C						"	6	Ki	iP	00 42 46.2							
			ipP	22 27 09.7								Um	iP	00 43 12.6							
				microns sec								Aleutian Islands (h = 30 km).									
			P	Z' 0.3 0.9																	
			pP	Z' 0.4 1.0								"	6	Up	ipP	01 26 33.7					
			M	E 0.6 17								Ki	iP	01 25 31.8 C							
			M	N 2.1 21									ipP	01 25 39.9							
			M	Z 1.6 20										microns sec							
		Ki	iP	22 26 02.1									pP	Z' 0.1 1.0							
			ipP	22 26 14.2								Um	iP	01 25 57.4							
				microns sec									ipP	01 26 04.4							
			P	Z' 0.1 1.0								Aleutian Islands. h = 30 km (Ki,Um).									
			pP	Z' 0.2 0.9																	
			M	E 1.4 17								"	6	Up	iP	01 51 26.3 D					
			M	N 1.1 16										iPP	01 53 50						
			M	Z 1.5 18										iS	02 00 14						
		Sk	iP	22 26 35.5										iP'P'	02 19 44.1						
			ipP	22 26 51.9										microns sec							
			iPcP	22 27 10.4										P	N 5.5 7						
		Gb	iP	22 27 12.8 C										P	Z 9.8 7						
			ipP	22 27 26.8										P	Z' 0.9 1.0						
		Um	iP	22 26 28.1 C										PP	N 1.2 4						
			ipP	22 26 42.5										PP	Z 1.3 4						
		Ka	iP	22 27 18.9										S	E 2.2 6						
			ipP	22 27 33.1										S	N 12 9						
		Aleutian Islands. h = 60 km (Up,Ki,Sk,Gb, Um,Ka). Magn. = 6.0 (Up,Ki).																			
"	5	Um	iP	22 55 34.3										S	Z 3.7 8						
"	5	Um	iP	23 00 11.6										P'P'	Z' 0.4 1.5						
		Aleutian Islands (h = 30 km).																			
													M	E 6.1 18							
													M	N 13 18							
													M	Z 7.1 20							
													D = 7450 km = 67°.								
												Ki	iP	01 50 32.8 D							
													iPP	01 52 46							

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
Feb.	6	Ki	iS	01 58 39	Feb.	6	Up	iP	03 33 20.7	
cont.			eP'P'	02 19 57			Ki	iP	03 32 29.9 D	
				microns sec				ipP	03 32 42.0	
			P	E 1.4 4			Um	eP	03 32 55	
			P	N 6.6 7			Aleutian Islands.			
			P	Z 14 7			h = 50 km (Ki).			
			P	Z' 2.4 1.5		"	6	Up	iP	03 33 40.7
			PP	Z 3.8 5				Ki	iP	03 32 53.0
			S	E 10 6			Aleutian Islands (h = 30 km).			
			S	N 12 9		"	6	Up	iP	03 50 10.0
			S	Z 9.6 7				Ki	iP	03 49 16.7 C
			P'P'	Z' 0.5 2.0				Um	iP	03 49 41.5
			M	E 7.3 18			Aleutian Islands			
			M	N 10 17			(h = 30 km).			
			M	Z 15 17						
			D = 6550 km = 59°.							
		Sk	iP	01 51 00.4 D		"	6	Up	iP	03 53 18.8
			iP'P'	02 19 52.9				Ki	iP	03 54 24.2 D
		Gb	iP	01 51 38.9 D				Sk	iP	03 53 57.4
			ipP	01 51 51.1				Um	iP	03 53 48.5
			iPP	01 54 16.0			Crete (h = 50 km).			
			eS	02 00 46		"	6	Um	iP	03 57 09.5
			iP'P'	02 19 40.7		"	6	Up	iP	04 13 42.6 C
		Um	iP	01 50 59.8 D				ipP	04 13 54.5	
			iS	01 59 26				iS	04 22 33	
			iP'P'	02 19 52.5					microns sec	
		Ka	iP	01 51 47.4				P	N 0.8 5	
			ipP	01 52 00.8				P	Z 0.5 3	
			eP'P'	02 19 40				P	Z' 0.2 0.6	
		Alaska. h = 50 km (Gb,Ka).						pP	Z' 0.3 0.8	
		Magn. = 7.0 (Up,Ki).						S	E 0.5 4	
		Up N and Ki N show clear						S	N 1.0 5	
		double S-phases, 4-6 sec						M	E 5.3 20	
		apart, the second being						M	N 14 24	
		the larger one.						M	Z 15 24	
								D = 7450 km = 67°.		
"	6	Um	iP	01 57 31.3 D			Ki	iP	04 12 49.5 C	
		Aleutian Islands.						iS	04 20 51	
"	6	Up	iP	02 02 48.1					microns sec	
"	6	Um	iP	02 12 27.8				P	N 0.8 5	
			ipP	02 12 35.4				P	Z 1.6 7	
		Aleutian Islands.						P	Z' 0.2 1.0	
		h = 30 km (Um).						S	N 1.5 8	
"	6	Ki	iP	02 40 04.4				M	E 8.6 20	
		Aleutian Islands						M	N 9.2 24	
		(h = 30 km).						M	Z 17 22	
"	6	Up	iP	03 25 50.9			D = 6550 km = 59°.			
		Um	iP	03 25 24.0			Sk	iP	04 13 23.0	
		Aleutian Islands					Gb	iP	04 14 00.0 C	
		(h = 40 km).						ipP	04 14 13.0	
								iPcP	04 14 29.9	
							Um	iP	04 13 15.3 C	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Feb.	6	Um	iS	04 21 38	Feb.	6	Up	iP	06 39 04.8
cont.		Ka	iP	04 14 06.1					microns sec
				Aleutian Islands.					Z' 0.1 0.8
				h = 50 km (Up,Gb).		Sk	iP	06 38 45.2	
				Magn. = 6.2 (Up,Ki).		Gb	iP	06 39 21.6	
						Um	iP	06 38 37.5	
"	6	Up	iP	04 26 37.8				Aleutian Islands	
		Um	iP	04 26 12.6				(h = 25 km).	
			ipP	04 26 24.7	"	6	Ki	iP	06 46 22.0
				Aleutian Islands.				Aleutian Islands	
				h = 50 km (Um).				(h = 25 km).	
"	6	Um	iP	04 42 18.7	"	6	Ki	iP	06 58 28.7
			i(pP)	04 42 26.8			Um	iP	06 58 49.9
"	6	Up	iP	05 01 48.8				Aleutian Islands	
		Ki	eP	05 00 57				(h = 40 km).	
		Um	eP	05 01 22	"	6	Ki	iP	07 01 55.9 C
			ipP	05 01 32.1			Um	iP	07 02 22.0
		Gb	iP	05 02 10.7				Aleutian Islands	
				Aleutian Islands.				(h = 30 km).	
				h = 40 km (Um).	"	6	Up	iP	07 19 45.3 C
"	6	Um	iP	05 06 03.0				Aleutian Islands	
"	6	Up	iP	05 43 08.5 C				(h = 25 km).	
		Ki	iP	05 42 14.0	"	6	Up	iP	07 25 33.4
		Um	iP	05 42 40.7				ipP	07 25 42.1
		Gb	iP	05 43 25.8 C				microns sec	
				Aleutian Islands				Z' 0.2 1.0	
				(h = 30 km).			Ki	iP	07 24 40.1 D
"	6	Ki	iP	06 18 39.9				ipP	07 24 48.7
				Aleutian Islands				microns sec	
				(h = 25 km).				Z' 0.2 1.0	
"	6	Up	iP	06 34 28.0			Sk	iP	07 25 14.0 D
			ipP	06 34 38.5			Gb	iP	07 25 51.6
				microns sec				ipP	07 25 59.7
			pP	Z' 0.2 1.0			Um	iP	07 25 05.3
		Ki		---				ipP	07 25 14.2
				microns sec				Aleutian Islands.	
		M	E	0.6 17				h = 35 km (Up,Ki,Gb,Um).	
		M	N	0.5 15				Magn. = 6.0 (Up,Ki).	
		M	Z	1.4 15	"	6	Ki	iP	07 37 16.2 C
		Sk	i(P)	06 34 01.3			Um	iP	07 37 42.2
		Gb	iP	06 34 45.8 C				Aleutian Islands	
			ipP	06 34 57.5				(h = 30 km).	
		Um	iP	06 34 00.5	"	6	Up	iP	08 08 13.2
			ipP	06 34 11.1			Ki	iP	08 07 20.0
		Ka	iP	06 34 52.7			Um	iP	08 07 45.8 C
			ipP	06 35 03.4				Aleutian Islands	
				Aleutian Islands.				(h = 20 km).	
				h = 40 km (Up,Gb,Um,Ka).					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
Feb.	6	Up	iP	08 57 43.2	Feb.	6	Um	iP	12 32 51.0 D	
				microns sec	cont.		Ka	iP	12 33 42.0	
			P	Z' 0.1 1.0			Aleutian Islands.			
		Ki	iP	08 56 49.6			h = 40 km (Up).			
				microns sec			Magn. = 5.9 (Up,Ki).			
			P	Z' 0.1 1.0		"	6	Up	iP	13 02 31.1 C
			M	E 0.8 16				Ki	iP	13 01 38.2
			M	N 0.6 16				Um	iP	13 02 03.8
			M	Z 1.4 19			Aleutian Islands			
		Sk	iP	08 57 23.5			(h = 30 km).			
		Gb	iP	08 58 00.3						
			ipP	08 58 08.6						
		Um	iP	08 57 15.0		"	6	Up	iP	13 26 08.4
		Ka	iP	08 58 06.1				Um	iP	13 25 40.6
		Aleutian Islands. h = 30 km (Gb).					Aleutian Islands			
		Magn. = 5.7 (Up,Ki).					(h = 25 km).			
"	6	Up	iP	09 05 30.2	"	6	Up	iP	13 45 38.0	
		Ki	iP	09 04 36.7 C				Ki	iP	13 44 45.0
		Sk	iP	09 05 10.1				Um	iP	13 45 10.6
		Gb	iP	09 05 45.1			Aleutian Islands			
			ipP	09 05 58.6			(h = 30 km).			
		Um	iP	09 05 02.2 C		"	6	Up	iP	14 10 02.4 C
		Aleutian Islands.						Ki	iP	14 09 08.7
		h = 50 km (Gb).					Aleutian Islands			
"	6	Ki	iP	09 14 09.7 D			(h = 30 km).			
		Aleutian Islands				"	6	Up	iP	14 22 01.1 D
		(h = 40 km).						ipP	14 22 09.8	
"	6	Up	iP	09 36 28.4					microns sec	
		Um	iP	09 36 00.9				P	Z' 0.1 1.0	
		Aleutian Islands					Ki	iP	14 21 07.3	
		(h = 20 km).							microns sec	
"	6	Gb	iP	10 43 11.9				P	Z' 0.1 1.2	
		Um	iP	10 42 22.5			Sk	iP	14 21 42.6	
		Aleutian Islands						i(pP)	14 21 55.6	
		(h = 30 km).					Gb	iP	14 22 18.1	
"	6	Um	iP	10 55 57.3				ipP	14 22 27.4	
							Um	iP	14 21 32.4	
"	6	Up	iP	11 43 09.2			Ka	iP	14 22 24.0	
		Um	iP	11 42 42.0				ipP	14 22 33.3	
		Aleutian Islands					Aleutian Islands.			
		(h = 30 km).					h = 35 km (Up,Gb,Ka).			
"	6	Up	iP	12 33 18.5			Magn. = 5.7 (Up,Ki).			
			ipP	12 33 29.5		"	6	Up	iP	14 34 28.9
				microns sec				Ki	eP	14 33 35
			P	Z' 0.2 1.0				Um	iP	14 34 01.2 C
		Ki	iP	12 32 25.2			Aleutian Islands			
				microns sec			(h = 30 km).			
			P	Z' 0.1 1.0		"	6	Up	iP	14 45 18.0
		Sk	iP	12 32 58.6				Ki	iP	14 44 24.7 C
		Gb	iP	12 33 36.0 D				Um	iP	14 44 50.9 C
								ipP	14 45 00.9	
cont.							Alaska. h = 40 km (Um).			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	6	Up	iP	15 42 32.8 C	Feb.	6	Up	iP	17 06 17.0
		Um	iP	15 42 05.7			Ki	iP	17 05 23.4
			ipP	15 42 16.1			Gb	iP	17 06 34.9
		Aleutian Islands.					Um	iP	17 05 48.7
		h = 40 km (Um).					Aleutian Islands		
"	6	Up	iP	16 42 02.1	"	6	Up	iP	18 18 20.9
		Ki	iP	16 41 09.4				ipP	18 18 33.3
		Aleutian Islands							microns sec
		(h = 30 km).						P	Z' 0.1 1.3
"	6	Up	iP	17 01 21.1 D			Ki	iP	18 17 28.7
			ipP	17 01 35.2			Gb	iP	18 18 38.6
			eS	17 10 08			Um	iP	18 17 54.8
			iScS	17 11 17			Ka	iP	18 18 44.6
			iP'P'	17 29 43.7			Aleutian Islands.		
				microns sec			h = 50 km (Up).		
		P	N	2.8 7					
		P	Z	3.7 8			"	6	Up
		P	Z'	0.5 1.0				iP	18 21 23.8 C
		pP	Z'	0.6 1.0				ipP	18 21 37.4
		S	E	2.6 8					microns sec
		S	N	7.0 7				P	Z' 0.4 1.1
		S	Z	2.4 6				M	E 1.3 17
		P'P'	Z'	0.2 1.8				M	N 1.9 19
		M	E	4.2 20				M	Z 1.3 20
		M	N	12 21			Ki	iP	18 20 30.5 C
		M	Z	8.9 21					microns sec
		D = 7450 km = 67°.						P	Z' 0.2 1.2
		Ki	iP	17 00 27.3 D				M	E 2.8 17
			iS	17 08 29				M	N 1.8 16
				microns sec				M	Z 2.8 16
		P	N	2.9 8			Gb	iP	18 21 39.9
		P	Z	6.0 9				ipP	18 21 52.7
		P	Z'	0.9 1.2			Um	iP	18 20 56.4 C
		S	E	5.3 7			Ka	iP	18 21 47.1 C
		S	N	9.3 7				ipP	18 21 58.9
		S	Z	6.6 7			Aleutian Islands.		
		M	E	8.3 17			h = 50 km (Up,Gb,Ka).		
		M	N	9.5 17			Magn. = 6.0 (Up,Ki).		
		M	Z	18 17			"	6	Up
		D = 6550 km = 59°.						iP	18 50 16.9
		Sk	iP	17 00 57.8			Aleutian Islands		
		Gb	iP	17 01 33.5			(h = 30 km).		
			ipP	17 01 47.3			"	6	Up
			iP'P'	17 29 41.4				iP	18 53 26.8 C
		Um	iP	17 00 54.0				ipP	18 53 39.0
			iS	17 09 23					microns sec
			iP'P'	17 29 49.5				P	Z' 0.1 1.0
		Ka	iP	17 01 42.1			Ki	iP	18 52 33.7 C
			ipP	17 01 56.6			Gb	iP	18 53 44.1
		Alaska. h = 60 km (Up,Gb,Ka).					Um	iP	18 52 59.7 C
		Magn. = 6.8 (Up,Ki).					Ka	iP	18 53 50.5
		S phases are double, 7 sec					Aleutian Islands.		
		apart, the latter phase					h = 50 km (Up).		
		being the larger, especially					"	6	Up
		clear on Up N and Ki N.						iP	19 30 39.2
							cont.		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	6	Up	ipP	19 30 54.6	Feb.	6	Ki	iP	23 33 42.7 D
cont.		Ki	e(P)	19 29 55	cont.				microns sec
			ipP	19 30 01.9				P	Z' 0.1 1.0
		Um	ipP	19 30 27.5			Sk	iP	23 34 16.1
		Aleutian Islands.					Gb	iP	23 34 52.5
		h = 60 km (Up).					Um	iP	23 34 08.3
"	6	Up	iP	19 59 10.1			Ka	iP	23 34 58.8
		Aleutian Islands					Aleutian Islands		
		(h = 20 km).					(h = 30 km).		
		Magn. = 5.7 (Up,Ki).							
"	6	Up	iP	20 54 59.2	"	6	Up	iP	23 59 06.6
		Ki	iP	20 54 04.1			Ki	iP	23 58 13.8 C
		Aleutian Islands.					Gb	iP	23 59 25.2
		Origin time = 20 44 06.					Um	iP	23 58 39.6
		Aleutian Islands					Aleutian Islands		
		(h = 30 km).					(h = 30 km).		
"	6	Up	iP	21 13 44.5 C	"	7	Up	iP	00 55 03.9
				microns sec			Ki	iP	00 54 10.7
			P	Z' 0.1 1.0			Aleutian Islands		
		Ki	iP	21 12 50.2 C			(h = 25 km).		
		Sk	iP	21 13 25.3					
		Gb	iP	21 14 02.5	"	7	Up	iP	01 10 59.4 C
		Um	iP	21 13 16.6					microns sec
		Ka	iP	21 14 07.9				P	Z' 0.1 1.0
		Aleutian Islands					Ki	iP	01 10 04.7 C
		(h = 20 km).							microns sec
"	6	Up	iP	22 31 05.7				P	Z' 0.3 1.0
		Aleutian Islands					Sk	iP	01 10 40.5 C
		(h = 30 km).						i	01 11 53.7
"	6	Up	iP	22 37 04.9			Gb	iP	01 11 17.7
		Ki	iP	22 36 11.6 C			Um	iP	01 10 30.8
		Gb	iP	22 37 21.7			Ka	iP	01 11 23.9
		Um	iP	22 36 37.7			Aleutian Islands		
		Aleutian Islands					(h = 30 km).		
		(h = 30 km).					Magn. = 6.0 (Up,Ki).		
"	6	Up	iP	22 45 40.3	"	7	Up	iP	02 10 59.6
			ipP	22 45 50.6			Aleutian Islands		
		Um	iP	22 45 12.5			(h = 25 km).		
			ipP	22 45 23.8	"	7	Up	iP	02 28 01.4 D
		Aleutian Islands.						iP'P'	02 56 22.3
		h = 40 km (Up,Um).							microns sec
"	6	Up	iP	23 13 21.8				P	Z' 0.3 0.5
		Aleutian Islands						M	E 1.0 18
		(h = 30 km).						M	N 1.7 17
"	6	Up	iP	23 20 50.0				M	Z 2.3 18
		Aleutian Islands					Ki	iP	02 27 08.7 D
		(h = 30 km).						i!	02 27 24.2
		Aleutian Islands							microns sec
		(h = 30 km).						P	Z' 0.3 1.0
"	6	Up	iP	23 34 35.6			Sk	iP	02 27 43.4
				microns sec				ipP	02 27 56.8
			P	Z' 0.1 0.9				iPcP	02 28 17.8
cont.					cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
Feb. cont.	7	Gb	iP	02 28 20.1	Feb.	7	Ki	eSn	04 54 36
			i	02 30 23.5				iSg	04 54 55.3
		Um	iP	02 27 34.6			Um	iSn	04 55 14.8
			iS	02 36 13				iSg	04 55 46.2
			iP'P'	02 56 33.5			Northwest Russia, 67.3°N, 30.2°E. Origin time = 04 52 50. Explosion?		
		Ka	iP	02 28 25.0					
			ipP	02 28 37.5					
		Aleutian Islands. h = 50 km (Sk,Ka). Magn. = 6.3 (Up,Ki).							
"	7	Up	iP	04 14 06.6 C	"	7	Up	iP	05 42 54.6
		Aleutian Islands (h = 30 km).					Aleutian Islands (h = 30 km).		
"	7	Um	iP	04 19 50.2 C	"	7	Up	eSg	06 01 47
		Alaska (h = 30 km).					Ki	iSn	05 58 19.2
								iSg	05 58 37.3
							Sk	eSg	06 01 14
							Um	iSn	05 59 04.3
"	7	Up	iP	04 22 11.8 C				iSg	05 59 43.1
				microns sec			Northwest Russia, 67.8°N, 30.4°E. Origin time = 05 56 30. Explosion?		
			P	Z' 0.2 1.0					
			M	E 1.9 20					
			M	N 2.1 21					
			M	Z 2.6 20	"	7	Up	iP	06 09 48.1 C
		Ki	iP	04 21 16.1					microns sec
		Sk	iP	04 21 52.8				P	Z' 0.2 1.0
		Gb	iP	04 22 29.4 C			Ki	iP	06 08 54.7
		Um	iP	04 21 44.3			Gb	iP	06 10 03.8
		Ka	iP	04 22 36.0 C			Um	iP	06 09 20.8
			ipP	04 22 44.5			Ka	iP	06 10 11.1
		Aleutian Islands. h = 30 km (Ka).						iPcP	06 10 33.9
"	7	Gb	eP	04 35 38			Aleutian Islands (h = 25 km).		
		Um	iP	04 34 55.6	"	7	Up	iP	07 07 44.4 C
		Aleutian Islands (h = 30 km).					Aleutian Islands (h = 30 km).		
"	7	Ki	eSn	04 41 43	"	7	Up	iP	07 36 51.8
			iSg	04 42 04.6			Aleutian Islands (h = 30 km).		
		Um	iSg	04 42 55.9					
		Northwest Russia, 67.3°N, 30.2°E. Origin time = 04 40 00. Explosion?			"	7	Up	iP	07 56 05.1 C
							Um	iP	07 55 37.5
							Aleutian Islands (h = 30 km).		
"	7	Up	iP	04 45 00.6	"	7	Um	iP	08 48 10.6
"	7	Up	iP	04 46 42.2 D			Aleutian Islands (h = 30 km).		
				microns sec					
			P	Z' 0.1 1.2	"	7	Ki	iP	08 50 07.9
		Ki	eP	04 45 50			Sk	iP	08 50 46.3
		Gb	iP	04 46 59.2			Gb	iP	08 51 14.8
		Um	iP	04 46 14.6			Um	iP	08 50 29.7 D
		Aleutian Islands (h = 30 km).					Ka	iP	08 51 20.3
							Aleutian Islands (h = 40 km).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965					
Feb.	7	Um	iP	17 23 28.0	Feb.	8	Ki	iP	08 20 01.0	
cont.			ipP	17 23 38.2					Aleutian Islands	
		Ka	iP	17 24 19.4					(h = 30 km).	
		Aleutian Islands.				"	8	Ki	iP	09 39 28.0
		h = 40 km (Um).						Um	iP	09 39 54.1
		Magn. = 6.0 (Up,Ki).						Aleutian Islands		
"	7	Up	iP	19 39 51.0 C				(h = 25 km).		
		Ki	iP	19 38 52.8		"	8	Ki	iP	09 47 46.7 D
		Gb	iP	19 40 20.3 C				Aleutian Islands		
		Komandorsky Islands						(h = 25 km).		
		(h = 20 km).				"	8	Up	iP	10 20 13.0 D
"	7	Up	iP	20 21 32.1				ipP	10 20 19.1	
		Aleutian Islands						microns sec		
		(h = 40 km).						P	Z' 0.1 1.0	
"	7	Um	i(P)	23 46 41.8 D			Ki	iP	10 19 19.5 D	
							Gb	iP	10 20 30.5	
"	8	Up	iP	02 37 39.7 C			Um	iP	10 19 45.0	
		Aleutian Islands					Aleutian Islands.			
		(h = 40 km).					h = 25 km (Up).			
"	8	Ki	iP	06 43 12.6 D		"	8	Up	iP	13 45 20.8 C
		Mariana Islands						Ki	iP	13 44 27.5 C
		(h = 120 km).						Um	iP	13 44 53.3
"	8	Ki	iP	06 57 06.5 C			Aleutian Islands			
		Aleutian Islands					(h = 20 km).			
		(h = 30 km).				"	8	Ki	i(P)	13 48 48.8
"	8	Ki	iP	07 24 17.0				iSg	13 49 21.0	
		Aleutian Islands					Um	iSg	13 50 52.9	
		(h = 25 km).				"	8	Up	iP	14 11 30.4
"	8	Up	iP	07 34 00.6				Ki	iP	14 11 30.4
			ipP	07 34 11.7				Um	iP	14 11 19.3
		microns sec						i	14 11 25.3	
		P	Z' 0.2 1.0				Afghanistan-USSR			
		Ki	iP	07 33 07.5			(h = 220 km).			
		i	07 33 22.5		"	8	Up	eP	14 31 22	
		microns sec				"	8	Up	iP	14 46 39.6
		P	Z' 0.3 1.5			"	8	Up	iP	15 52 03.4 D
		Sk	eP	07 33 42				i	15 52 05.9	
		Gb	iP	07 34 18.3			microns sec			
		Um	iP	07 33 30.8			P	Z' 0.2 1.3		
		Aleutian Islands.					Ki	iP	15 51 12.3	
		h = 40 km (Up).					Sk	iP	15 51 47.0	
		Magn. = 6.0 (Up,Ki).					Um	iP	15 51 38.5	
"	8	Ki	iP	07 59 39.1			Aleutian Islands			
		Aleutian Islands					(h = 25 km).			
		(h = 25 km).				"	8	Up	iP	15 57 10.5 D
"	8	Up	iP	08 08 00.6 D				ipP	15 57 21.5	
			ipP	08 08 09.0		cont.				
		Aleutian Islands.								
		h = 30 km (Up).								

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Feb.				Feb.			
cont.	8	Up	iS 16 05 36 microns sec P N 0.7 3 P Z 1.7 5 P Z' 0.3 1.0 pP Z' 1.8 1.8 S E 0.8 6 M E 3.0 16 M N 3.4 17 M Z 5.4 17 D = 6950 km = 62 1/2°.	8	Um	iP 18 13 59.2 Aleutian Islands (h = 30 km).	
		Ki	iP 15 56 15.6 D ipP 15 56 26.4 iS 16 03 49 iPS 16 04 01 microns sec P N 1.4 6 P Z' 0.2 1.0 pP Z' 0.9 2.0 M E 3.9 15 M N 2.7 20 M Z 5.7 19 D = 6050 km = 54 1/2°.	"	8	Up	iP 18 32 59.7 C
		Sk	iP 15 56 52.3 D ipP 15 57 01.5	"	8	Ki	iP 20 07 20.6 Aleutian Islands (h = 25 km).
		Gb	iP 15 57 30.3 ipP 15 57 41.2	"	8	Ki	iP 20 27 30.8 Aleutian Islands (h = 30 km).
		Um	iP 15 56 41.6 ipP 15 56 52.4 iPa 16 00 17	"	8	Um	iP 21 42 54.9 Aleutian Islands (h = 15 km).
		Ka	iS 16 04 41 iP 15 57 36.0 ipP 15 57 45.7	"	8	Up	iPKP 22 52 34.7 e 22 52 43 Sk ePKP 22 52 25 i 22 52 34.0 Gb ePKP 22 52 44 Um iPKP 22 52 23.8 i 22 52 26.5 Kermadec Islands (h = 50 km).
		Komandorsky Islands. h = 40 km (Up,Ki,Sk,Gb, Um,Ka). Magn. = 6.2 (Up,Ki).		"	9	Up	iP 00 21 26.0
"	8	Up	iP 17 47 46.6 microns sec P Z' 0.1 0.9	"	9	Um	iP 00 48 25.9
		Ki	iP 17 46 51.3 C microns sec P Z' 0.1 1.0	"	9	Up	iP 04 45 50.8 microns sec P Z' 0.1 1.0
		Sk	iP 17 47 28.1	Ki	iP 04 44 58.0	Um	iP 04 45 23.9
		Gb	iP 17 48 00.2	Um	iP 04 45 23.9 Aleutian Islands (h = 40 km).		
		Um	iP 17 47 17.8 ipP 17 47 25.1	"	9	Ki	iPKP 06 00 43.5 Sk iPKP 06 00 54.5 Um iPKP 06 00 48.8 i 06 02 35.6 New Hebrides Islands (h = 220 km).
		Komandorsky Islands. h = 30 km (Um). Magn. = 5.7 (Up,Ki).		"	9	Ki	iP 07 48 19.0 Um iP 07 48 45.4 D Aleutian Islands (h = 30 km).
"	8	Up	iP 17 48 24.6	"	9	Ki	iP 08 25 15.9 Um iP 08 25 30.7 i 08 25 42.2 Bonin Islands (h = 30 km).
		Ki	iP 17 47 30.6				
		Sk	iP 17 48 07.5				
		Um	iP 17 47 56.8				
		Komandorsky Islands. Origin time = 17 38 04.					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Feb.	9	Um	iP	09 19 15.8	Feb.	9	Gb	iP	23 22 38.3
				Aleutian Islands	cont.		Um	iP	23 21 44.0
				(h = 30 km).					Aleutian Islands
"	9	Um	iP	10 06 24.4	"	9	Up	iP	23 37 49.2
				Aleutian Islands			Sk	iP	23 38 29.5
				(h = 30 km).			Um	iP	23 38 29.2
"	9	Up	i(Sg)	11 41 29.3					Ionian Sea (h = 40 km).
"	9	Um	eP	13 56 56	"	10	Up	iP	00 48 53.2 C
"	9	Um	iPKP	17 12 43.9			Ki	iP	00 48 00.8
				Loyalty Islands				ipP	00 48 13.1
				(h = 30 km).			Um	iP	00 48 26.1
"	9	Up	iPKP	17 19 05.0 C					Aleutian Islands.
				microns sec	"	10	Um	iPKP	01 44 10.5
				PKP Z' 0.1 0.7					Santa Cruz Islands
				South of Fiji Islands					(h = 270 km).
				(h = 490 km).	"	10	Up	iP	02 19 19.8
"	9	Up	iP	17 47 58.3 D					microns sec
				microns sec					P Z' 0.1 1.0
				P Z' 0.6 1.0			Ki	iP	02 18 26.4 C
		Ki	iP	17 47 04.3 D					microns sec
				ipP 17 47 16.8					P Z' 0.1 1.2
				microns sec			Um	iP	02 18 52.2
				P Z' 0.4 1.0					Aleutian Islands
		Sk	iP	17 47 38.0					(h = 30 km).
		Gb	iP	17 48 16.1					Magn. = 5.7 (Up,Ki).
		Um	iP	17 47 30.2 D	"	10	Up	eP	06 03 33
		Ka	iP	17 48 21.6	"	10	Up	iP	08 22 54.7
				Aleutian Islands.			Ki	iP	08 22 02.1
				h = 50 km (Ki).			Um	iP	08 22 27.5
				Magn. = 6.4 (Up,Ki).					Aleutian Islands
"	9	Up	iP	18 29 15.3					(h = 40 km).
		Ki	iP	18 28 24.0	"	10	Up	iP	13 40 05.4
				Aleutian Islands	"	10	Ki	iP	16 16 31.9
				(h = 10 km).			Gb	iP	16 16 03.9
"	9	Up	iP	20 43 36.0					Iran (h = 50 km).
				i 20 43 46.7	"	10	Ki	iP	18 38 03.9
				microns sec					Aleutian Islands
				P Z' 0.1 0.8					(h = 25 km).
		Ki	iP	20 44 52.6	"	10	Ki	iP	00 41 49.6 D
		Sk	iP	20 44 15.3			Um	iP	00 42 15.3 D
		Gb	iP	20 43 29.4				ipP	00 42 26.1
		Um	iP	20 44 14.9					Aleutian Islands.
				Ionian Sea (h = 50 km).	"	11			h = 40 km (Um).
"	9	Up	iP	23 22 15.1 C					
				i 23 22 29.6					
		Ki	iP	23 21 20.7					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Feb.	11	Up	iPKP 02 52 32.9 iSKP 02 55 59.3 microns sec SKP Z' 0.2 1.3	Feb.	11	Um	iP 22 22 36.5 C
		Ki	ePKP 02 52 24 iSKP 02 55 36.3 microns sec SKP Z' 0.6 2.0	"	11	Um	iP 22 37 31.5
		Sk	iSKP 02 55 52.1	"	12	Up	iP 00 54 11.8 i 00 55 30.9 microns sec P Z' 0.1 0.9
		Gb	iPKP 02 52 40.2 iSKP 02 56 07.6			Ki	iP 00 53 18.3
		Um	i(PKP) 02 52 19.1 iPKP 02 52 29.9 iSKP 02 55 47.9			Sk	iP 00 54 02.6
			Fiji Islands (h = 170 km).			Gb	iP 00 54 28.6 ipP 00 54 38.6
"	11	Um	iP 03 24 30.1 Aleutian Islands (h = 30 km).			Um	eP 00 53 46 iS 01 02 22
"	11	Ki	iP 04 53 31.2 i(pP) 04 53 38.4			Ka	iP 00 54 35.8 C Aleutian Islands. h = 40 km (Gb).
		Sk	iP 04 52 57.7	"	12	Up	iP 01 05 54.9 C microns sec P Z' 0.4 1.0 M E 2.7 20 M N 3.4 17 M Z 2.9 18
		Gb	iP 04 52 25.3 C i 04 52 35.0			Ki	iP 01 05 01.8 C microns sec P Z' 0.3 1.0 M E 2.8 18 M N 2.8 18 M Z 4.0 19
		Um	iP 04 53 10.8 C Atlantic Ocean (h = 30 km).			Sk	iP 01 05 35.7
"	11	Ki	iP 06 26 57.1			Gb	iP 01 06 13.3
"	11	Up	iP 06 57 07.0 microns sec P Z' 0.1 1.0			Um	iP 01 05 27.6 C iPa 01 09 25 iS 01 14 00
		Ki	iP 06 56 12.1			Ka	iP 01 06 18.6 Aleutian Islands (h = 25 km). Magn. = 6.1 (Up,Ki).
		Gb	iP 06 57 25.3	"	12	Up	i(P) 01 07 41.0
		Um	iP 06 56 39.2 D Aleutian Islands (h = 25 km).			Sk	i(P) 01 07 51.4
"	11	Up	iP 11 32 53.3	"	12	Up	iP 01 14 12.3 C ipP 01 14 26.1 microns sec P Z' 0.2 1.0
		Ki	iP 11 32 28.3			Ki	iP 01 13 18.9 C microns sec P Z' 0.1 1.0
		Um	iP 11 32 34.2 Mongolia (h = 30 km).			Sk	iP 01 13 53.8
"	11	Up	iP 12 38 39.8			Gb	iP 01 14 29.9
"	11	Up	iP 14 04 58.2			Um	iP 01 13 44.8
"	11	Up	iP 15 38 46.3 ipP 15 38 55.9 Aleutian Islands. h = 40 km (Up).			Ka	iP 01 14 36.3 Aleutian Islands. h = 55 km (Up). Magn. = 5.9 (Up,Ki).
"	11	Up	i(P) 18 42 10.8				
"	11	Up	iP 19 53 01.1				

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965						
Feb.	13	Ki	iP	23 03 09.9 C	Feb.	14	Um	iP	18 21 13.8	
				Luzon (h = 30 km).					Aleutian Islands (h = 40 km).	
"	14	Up	iP	10 48 55.1	"	14	Up	iP	19 40 33.7	
				microns sec				i	19 40 44.3	
				P Z' 0.1 1.0				i(S)	19 43 43.5	
		Ki	iP	10 48 01.4				iT	19 48 29.5	
		Um	iP	10 48 27.4				i	19 48 44.2	
				Aleutian Islands					microns sec	
				(h = 30 km).				(S) Z' 0.1 1.0		
"	14	Up	iP	11 56 32.6				M E 2.5 19		
				Aleutian Islands				M N 4.5 20		
				(h = 30 km).				M Z 6.5 20		
								Ki iP	19 38 59.9 C	
"	14	Up	iP	12 12 47.3				iS	19 40 18.0	
				Aleutian Islands				iT	19 43 48.3	
				(h = 30 km).				i	19 44 33.2	
"	14	Um	iP	12 21 20.0 C					microns sec	
								P E 1.3 8		
"	14	Up	iP	12 38 19.7 C				P N 1.3 9		
								P Z' 0.3 0.9		
"	14	Um	iP	15 52 30.3				M E 6.1 19		
								M N 4.1 18		
"	14	Up	iP	16 07 12.5				M Z 13 20		
		Ki	iP	16 06 18.7				D = 800 km = 7°		
		Um	iP	16 06 45.3				Sk iP	19 39 36.1	
				Aleutian Islands				i	19 41 09.6	
				(h = 30 km).				iS	19 41 19.8	
"	14	Up	iP	17 11 36.9				eT	19 46 00.8	
		Ki	iP	17 10 42.7 C				i	19 46 35.5	
		Um	iP	17 11 08.8 C				Gb iP	19 41 03.2 C	
				Komandorsky Islands				Um iP	19 39 47.5	
				(h = 20 km).				i	19 39 56.8	
"	14	Up	iP	17 59 00.7				iS	19 41 38.2	
		Ki	iP	17 57 27.2				iSS	19 42 09.9	
			iS	17 58 48.2				eT	19 44 32	
			eT	18 02 29				i	19 45 07.2	
			i	18 02 59.0				i	19 46 24.9	
			i	18 03 14.9				Ka iP	19 41 19.2	
				microns sec				Norwegian Sea (h = 30 km).		
				P Z' 0.1 1.0				Exceptionally pronounced		
				D = 800 km = 7°				T-phases, especially at		
		Sk	iP	17 58 04.0				Ki and Um.		
			iS	17 59 46.8				"	14	
		Gb	iP	17 59 28.9				Up	iP	21 28 21.2
		Um	iP	17 58 14.7						microns sec
			iS	18 00 09.1				P Z' 0.1 0.5		
			eT	18 03 40				Ki iP	21 27 27.4 C	
			i	18 04 39.1				Um iP	21 27 53.5	
			i	18 05 11.7				Aleutian Islands		
		Ka	iP	17 59 52.0				(h = 40 km).		
				Norwegian Sea (h = 20 km).				"	15	
								Up	iP	01 36 04.9
									ipP	01 36 16.4

$\Delta = 14^\circ$
5.10
- 0.49
4.6

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Feb. cont.	15	Up	microns sec		Feb. 15	Up	iP	09 53 38.7	
		P	Z' 0.2 1.0					microns sec	
		M	E 2.2 19			P	Z' 0.1 1.2		
		M	N 2.7 19			M	E 1.3 17		
		M	Z 3.0 19			M	N 1.9 19		
		Ki	iP 01 35 12.3 C			M	Z 2.3 18		
			ipP 01 35 21.8			Ki	iP 09 52 47.3		
			microns sec					microns sec	
		P	Z' 0.1 1.1			M	E 1.8 22		
		M	E 3.4 18			M	N 1.6 22		
		M	N 2.8 18			M	Z 1.0 16		
		M	Z 4.1 18			Aleutian Islands			
		Sk	iP 01 35 45.3			(h = 40 km).			
			ipP 01 35 56.0						
		Gb	iP 01 36 23.5 C		" 15	Ki	eS 10 03 21		
		Um	iP 01 35 38.6					microns sec	
		Aleutian Islands.				S	E 0.6 14		
		h = 40 km (Up,Ki,Sk).				S	N 0.4 11		
		Magn. = 5.9 (Up,Ki).				Um	iS 10 02 42		
"	15	Um	eP 02 04 33			Atlantic Ocean			
"	15	Up	iP 04 34 26.5		" 15	Up	iP 10 56 45.0		
			microns sec					microns sec	
		P	Z' 0.1 1.0			P	Z' 0.2 1.0		
"	15	Up	iP 05 12 15.0			Ki	iP 10 56 29.8 C		
			ipP 05 12 24.6			iSKS	11 06 53		
			microns sec			iS	11 07 22		
		P	Z' 0.1 1.1					microns sec	
		Ki	iP 05 11 21.4 C			P	Z' 0.4 1.2		
			ipP 05 11 31.3			SKS	E 1.4 5		
			microns sec			S	E 1.1 7		
		P	Z' 0.2 1.5			S	N 0.7 5		
		Sk	iP 05 11 54.5			M	E 1.7 17		
		Um	iP 05 11 47.2			M	N 1.4 18		
			ipP 05 11 56.8			M	Z 2.3 19		
		Aleutian Islands.				D = 10300 km =			
		h = 40 km (Up,Ki,Um).				= 92 1/2°.			
		Magn. = 5.8 (Up,Ki).				Sk	iP 10 56 51.8		
"	15	Ki	iP 06 14 52.2 C			Gb	iP 10 57 01.6		
		Um	iP 06 15 18.3			Um	iP 10 56 33.5		
			ipP 06 15 27.8			iSKS	11 06 59		
		Aleutian Islands.				iS	11 07 32		
		h = 40 km (Um).				Ka	iP 10 56 55.9		
"	15	Up	iP 06 36 04.2			Talaud Islands			
"	15	Up	iP 06 53 08.8 C			(h = 30 km).			
			microns sec			Magn. = 6.2 (Up,Ki).			
		P	Z' 0.1 0.7		" 15	Ki	iP 11 32 08.5		
		Ki	iP 06 52 15.9 C			Alaska (h = 30 km).			
		Um	iP 06 52 42.0		" 15	Up	iP 12 41 41.0		
		Aleutian Islands				iPP	12 42 44.3		
		(h = 30 km).				iSn	12 48 42.3		
						iLi	12 50 53		
						iLg2	12 53 59		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

Year	Date	Location	Type	microns	sec	Z'	Other
1965 Feb. cont.	19	Up	P	0.1	0.9		
			Ki	iP	23 50	29.5	
		Sk	iP	23 51	02.9		
		Um	iP	23 50	54.6		
		Aleutian Islands (h = 40 km).					
"	20	Up	iP	02 19	02.7		
		Ki	iP	02 18	08.4	C	
		Um	iP	02 18	34.8		
		Aleutian Islands (h = 30 km).					
"	20	Um	iP	02 33	04.4		
		Japan (h = 20 km).					
"	20	Ki	iP	09 22	37.3		
		Sk	iP	09 22	16.2		
		Venezuela (h = 5 km).					
"	20	Up	iP	12 17	32.1		
"	20	Up	iP	15 03	53.0		
		Aleutian Islands (h = 20 km).					
"	20	Up	iP	16 39	19.8		
		Atlantic Ocean (h = 30 km).					
"	20	Up	iP	20 54	58.1	C	
				microns sec			
			P	Z'	0.1	0.9	
		Ki	eP	20 54	05	C	
				microns sec			
			P	Z'	0.1	1.0	
		Gb	iP	20 55	14.9	C	
		Um	iP	20 54	30.8	C	
		Aleutian Islands (h = 30 km). Magn. = 5.7 (Up,Ki).					
"	20	Up	iP	22 17	41.4		
			ipP	22 17	52.6		
				microns sec			
			P	Z'	0.1	0.7	
		Ki	iP	22 16	49.1		
		Sk	eP	22 17	24		
		Gb	iP	22 17	58.2		
		Um	iP	22 17	14.8		
		Aleutian Islands (h = 30 km).					
"	20	Up	iP	22 31	04.0		
		Aleutian Islands (h = 40 km).					
1965 Feb.	20	Up	iP	22 52	00.4	D	
		Sk	iP	22 52	41.0		
		Greece (h = 10 km).					
"	21	Up	eP	00 12	27.5		
		Ki	iP	00 11	00.6		
		Um	iP	00 11	37.9		
		Svalbard (h = 30 km).					
"	21	Ki	iP	03 34	10.4	D	
		Sk	iP	03 34	28.1		
		Um	iP	03 34	01.5		
		Kashmir-India (h = 30 km).					
"	21	Up	iP	04 49	41.9		
		Um	iP	04 49	16.6		
		Kurile Islands (h = 60 km).					
"	21	Ki	iSn	04 58	11.9		
			iSg	04 58	31.2		
		Um	iSg	04 59	24.5		
		Northwest Russia. Origin time = 04 56 20. Explosion?					
"	21	Ki	iSn	05 41	49.3		
			iSg	05 42	09.9		
		Probably northwest Russia. Origin time = 05 40 00. Explosion?					
"	21	Up	iP	05 57	27.2		
		Aleutian Islands (h = 30 km).					
"	21	Um	iP	12 53	51.3		
			i	12 53	54.6		
"	21	Um	iP	16 32	47.2		
"	21	Up	iP	22 39	37.0		
		Sk	iP	22 39	31.5		
		Um	iP	22 39	15.2		
		Japan (h = 150 km).					
"	22	Up	iP	07 38	24.2		
		Aleutian Islands (h = 40 km).					
"	22	Up	iP	09 25	41.3		
			ipP	09 25	51.2		
				microns sec			
			pP	Z'	0.3	1.3	
		Ki	iP	09 24	47.6		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Feb. cont.			microns sec	Feb. cont.			
	22	Ki	P Z' 0.1 1.0	23	Boliden-Skellefteå area, Sweden, 64.7°N, 20.6°E. Origin time = 13 55 32 ³⁸		
		Sk	eP 09 25 22		23	Um	iP 14 27 11.5
		Um	iP 09 25 13.6 C		23	Up	iP 17 25 32.4
			ipP 09 25 23.2			Ki	iP 17 25 41.3
		Ka	ipP 09 26 14.4			Sk	iP 17 25 58.3
		Aleutian Islands.				Um	iP 17 25 30.8 C
		h = 40 km (Up,Um).				Ka	iP 17 25 37.6
		Magn. = 6.0 (Up,Ki).			23	Up	iPKP 22 30 10.9
"	22	Up	i(P) 10 20 45.6			iPP	22 30 54.4
			i 10 21 00.7			iSKS	22 36 55
"	22	Up	iP 12 03 42.1			iS	22 38 29
		Aleutian Islands				ipS	22 39 02
		(h = 25 km).				iSP	22 40 15
"	22	Up	iPKP 14 02 00.4 D			iPS	22 40 31
		South of Fiji Islands					microns sec
		(h = 30 km).				PP	Z' 0.5 1.8
"	22	Up	iP 20 29 57.8			SKS	E 0.9 5
"	23	Up	iP 07 17 57.7			S	N 7.8 12
		Ki	iP 07 17 03.8			M	E 13 20
		Um	iP 07 17 29.9			M	N 13 22
			ipP 07 17 39.6			M	Z 20 20
		Aleutian Islands.					(D = 12350 km = 111°).
		h = 40 km (Um).				Ki	iS 22 39 01
"	23	Up	iP 08 22 08.9 D				iSP 22 40 52
		Kurile Islands (h = 30 km).					iSS 22 47 06
"	23	Ki	iPg 11 38 26.6 D				microns sec
			iSn 11 38 52.2			S	N 7.3 11
			iSg 11 38 56.8			M	E 15 20
			D = 240 km = 2.2°.			M	N 7.7 20
		Sk	e(Sg) 11 40 27			M	Z 23 19
		Um	i(Pn) 11 39 06.9			Sk	i 22 31 08.1
			iSg 11 40 26.5				ePKKP 22 41 19
		Lofoten, Norway, 68.2°N, 14.5°E.				Gb	iPP 22 30 33.1
		Origin time = 11 37 44.				Um	iP 22 26 46 C
		Solution by combination					ePKP 22 30 31
		with reading at Tromsø.					iPP 22 31 09.1
"	23	Um	iP 11 59 49.1				iSKS 22 36 50
"	23	Up	iLg1 13 58 08.5				iS 22 38 48
		Ki	iS* 13 57 06.4 <i>Ki P₃ 135630</i>				iSP 22 40 44
			iLg1 13 57 10.8	"	24	Um	iP 01 22 46.1
		Sk	eS _n 13 57 17			Alaska (h = 30 km).	
			eLg1 13 57 32.2	"	24	Up	eP 08 55 46
		Um	iPg 13 55 50.1 C				
			iSg 13 56 02.3				
		D = 100 km = 0.9°.					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Feb. cont.	27	Um	iSn	20 36 07.9	Feb.	28	Um	ePKP	12 38 31
			iSg	20 36 41.7				iSKP	12 41 16.0
				D = 720 km = 6.5°					South of Fiji Islands
				Northwest Russia, 69.0°N,					(h = 530 km).
				30.3°E. Origin time =		"	28	Up	iP
				= 20 33 09. Explosion?				Um	iP
"	28	Um	iP	00 46 41.2					19 39 52.9 D
"	28	Um	iP	00 55 30.0					19 39 33.1
"	28	Up	iP	00 58 02.6					Central Russia (h = 30 km).
				Aleutian Islands		"	28	Um	iPKP
				(h = 30 km).					22 10 39.9
									Chile (h = 90 km).
"	28	Up	iP	01 10 19.7					
			ipP	01 10 27.5					
		Ki	iP	01 09 26.9					
				Aleutian Islands.					
				h = 30 km (Up).					
"	28	Up	iP	01 27 25.4					
			i	01 27 42.1					
				microns sec					
			P	Z' 0.1 1.0					
		Ki	iP	01 26 32.7					
		Sk	iP	01 27 04.7					
		Um	iP	01 26 58.6					
			iPcP	01 27 31.8					
				Aleutian Islands					
				(h = 30 km).					
"	28	Up	iP	02 02 05.6					
				Aleutian Islands					
				(h = 30 km).					
"	28	Up	iP	04 04 02.9					
		Ki	eP	04 03 09					
		Um	iP	04 03 35.5 D					
				Aleutian Islands					
				(h = 30 km).					
"	28	Um	iP	04 52 40.4					
				Formosa (h = 30 km).					
"	28	Um	iPKP	06 34 53.4					
				New Zealand (h = 220 km).					
"	28	Ki	iP	08 13 51.6					
		Um	iP	08 13 28.3					
			i	08 13 46.9					
				Iran (h = 30 km).					
"	28	Um	iP	09 21 53.8					

Markus Båth
 October 14, 1965

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå,
Ka = Karlskrona

1965					1965				
Mar.	1	Up	iP	21 44 44.5	Mar.	2	Up	iPKP	03 10 10.4
			isP	21 45 26.3				i	03 10 16.3
			iSKS	21 55 01					microns sec
			i	21 56 26				PKP	Z' 0.1 1.0
				microns sec					Kermadec Islands (h = 30 km).
			P	Z 0.8 5		"	2	Up	iPKP 04 59 47.6
			SKS	E 1.9 7					Kermadec Islands (h = 30 km).
			SKS	N 0.8 4		"	2	Up	iPKP 05 59 55.2
			M	E 3.6 21				i	05 59 59.9
			M	N 3.8 23					Kermadec Islands (h = 30 km).
			M	Z 5.5 21					
				(D = 9650 km = 87°).		"	2	Up	iPKP 06 17 11.9 C
		Ki	iP	21 44 33.1 C				i	06 17 43.6
			isP	21 45 12.0					microns sec
			iPP	21 48 10.1				PKP	Z' 0.1 1.4
			eSKS	21 54 47			Um	iPKP	06 17 06.2
				microns sec					Kermadec Islands (h = 30 km).
			P	Z 1.7 6		"	2	Up	iPKP 06 46 58.6
			P	Z' 0.5 1.7					Kermadec Islands (h = 50 km).
			PP	Z' 0.1 1.5		"	2	Up	iPKP 07 44 51.9
			SKS	E 4.9 13			Um	iPKP	07 44 45.2
			SKS	N 1.4 13					Kermadec Islands (h = 70 km).
			M	E 8.2 21		"	2	Ki	iP 09 33 34.2 C
			M	N 4.8 23				iS	09 34 51.7
			M	Z 7.8 22				eT	09 38 40
				(D = 9450 km = 85°).				e	09 39 13
		Sk	iP	21 44 26.4					microns sec
			ipP	21 44 51.2			M	E	0.7 15
		Um	iP	21 44 40.9 C			M	N	1.6 22
			iPP	21 48 24.4			M	Z	1.0 14
			i	21 47 43					D = 800 km = 7°.
			iSSS	21 55 00			Sk	iP	09 34 10.7
		Ka	isP	21 45 32.5				iS	09 35 53.0
				Mexico-Guatemala.			Um	iP	09 34 20.4
				h = 100 km (Up,Ki,Sk).				iS	09 36 11.5
				Magn. 6.1 (Up,Ki).				iSS	09 36 44.1
"	1	Up	iPKP	22 10 28.9				iT	09 39 04.2
			i	22 12 16.5				i	09 41 15.7
		Ki	iPKP	22 10 18.5					Norwegian Sea (h = 30 km).
			iSKP	22 12 56.9					Well developed T phase,
		Sk	iPKP	22 10 22.5					especially at Ki.
		Um	i(PKP)	22 10 15.9 C		"	2	Up	iPKP 09 39 15.7
			iPKP	22 10 27.6				i	09 39 31.5
			iSKP	22 13 07.2					microns sec
		Ka	iPKP	22 10 40.0				PKP	Z' 0.2 1.3
				South of Fiji Islands			Ka	iPKP	09 39 26.2
				(h = 540 km).					Kermadec Islands (h = 40 km).
"	1	Ki	iP	23 59 07.6		"	2	Up	iPKP 09 39 15.7
				Aleutian Islands				i	09 39 31.5
				(h = 40 km).					microns sec
"	2	Up	ePKP	00 12 07				PKP	Z' 0.2 1.3
		Um	ePKP	00 11 54			Ka	iPKP	09 39 26.2
				Kermadec Islands					Kermadec Islands (h = 40 km).
				(h = 30 km).		"	2	Ki	iP 09 54 38.5
								eS	09 55 55

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Mar.	2	Ki	iT	09 59 33.4	Mar.	2	Up	ePKP	16 53 55
cont.		Sk	iP	09 55 14.5				i	16 53 57.8
			iS	09 56 56.9					microns sec
		Um	iP	09 55 27.1 C				PKP	Z' 0.1 1.0
			iS	09 57 12.0			Um	iPKP	16 53 50.9
		Norwegian Sea, 73.5°N, 7.2°E.					Kermadec Islands (h = 70 km).		
		Origin time = 09 52 55.							
"	2	Up	iPKP	10 43 08.9	"	2	Up	iPKP	20 10 35.3
				microns sec					microns sec
				PKP Z' 0.1 1.3					PKP Z' 0.2 1.3
		Kermadec Islands (h = 30 km).					Kermadec Islands (h = 30 km).		
"	2	Up	iP	10 46 46.2	"	2	Up	iPKP	20 43 52.2
		Um	iP	10 46 06.5			Kermadec Islands (h = 30 km).		
		Aleutian Islands (h = 30 km).			"	2	Up	iP	20 53 41.3
"	2	Up	iPKP	13 12 34.4 C	"	2	Up	ePKP	21 26 54
				microns sec			Kermadec Islands (h = 30 km).		
				PKP Z' 0.1 0.6	"	2	Up	iPKP	21 41 59.8
		South of Fiji Islands (h = 80 km).					South of Fiji Islands (h = 30 km).		
"	2	Ki	iPg	13 31 20.3	"	2	Up	iP	21 47 56.4 C
			iSg	13 31 51.7				iS	21 57 15.8
				D = 270 km = 2.4°.					microns sec
		Origin time = 13 30 33.						P	Z' 0.2 0.5
"	2	Up	iP	13 46 08.8			Ki	iP	21 47 25.0 C
"	2	Up	iPKP	14 42 42.9				iS	21 56 17
				microns sec					microns sec
				PKP Z' 0.2 1.5				P	Z' 0.2 0.9
		Kermadec Islands (h = 30 km).					Sk	iP	21 47 53.6 C
"	2	Up	iPKP	14 51 48.5 C				iPP	21 51 02.1
		Kermadec Islands (h = 10 km).					Um	iP	21 47 38.6 C
"	2	Up	iPKP	15 32 13.3				iS	21 56 41.9
		Kermadec Islands (h = 30 km).					Bonin Islands (h = 500 km). Magn. = 6.0 (Up,Ki).		
"	2	Up	iPKP	15 37 58.9	"	2	Up	iP	22 02 07.2
		(Australia; h = 30 km).			"	2	Up	iP	22 05 06.8
"	2	Up	iPKP	15 42 57.3 C				iS	22 09 18
		Kermadec Islands (h = 90 km).							microns sec
"	2	Up	iPKP	16 08 04.8			S	E	1.9 7
		Kermadec Islands (h = 30 km).					S	N	3.4 9
"	2	Up	iPKP	16 44 31.4			M	E	18 18
				16 44 38.3			M	N	11 18
		Kermadec Islands (h = 30 km).					M	Z	4.1 13
"	2	Up	iPKP	16 44 31.4			D = 2550 km = 23°.		
			i	16 44 38.3		Ki	iP	22 06 09.5 C	
		Kermadec Islands (h = 30 km).						iS	22 11 12
									microns sec
							S	N	1.9 14

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965						1965	
Mar.	2	Ki	microns sec	Mar.	3	Um	iPKP 03 36 31.6
cont.		M	E 9.2 14	cont.		Kermadec Islands	
		M	N 4.8 11			(h = 30 km).	
		M	Z 6.4 11			Magn. = 6.0 (Up,Ki).	
		D = 3300 km = 29 1/2°.		"	3	Um	iP 03 40 05.8
		Sk	iP 22 05 44.8			Banda Sea (h = 340 km).	
		Um	iP 22 05 35.6	"	3	Up	iPKP 06 12 34.6
			iS 22 10 05			Kermadec Islands (h = 30 km).	
		Turkey (h = 50 km).					
		Magn. = 5.6 (Up,Ki).					
"	2	Up	ePKP 23 01 36	"	3	Up	iP 06 21 52.0 C
		Kermadec Islands				ePP	06 22 58
		(h = 30 km).					microns sec
"	2	Up	iPKP 23 50 05.8			P	Z' 0.1 0.5
			microns sec			PP	Z' 0.1 1.0
			PKP Z' 0.1 1.0	Ki	iP	06 21 36.1 C	
		Um	iPKP 23 50 00.3				microns sec
		South of Fiji Islands				P	Z' 0.2 0.5
		(h = 110 km).		Sk	iP	06 22 07.3 C	
"	2	Up	iPKP 23 53 12.4			iPP	06 23 28.4
			microns sec	Um	iP	06 21 36.5 C	
			PKP Z' 0.1 1.0	Ka	iP	06 22 08.6	
		Um	iPKP 23 53 08.6	Kazakh SSR, Magn. = 6.0 (Up,Ki).			
		Kermadec Islands		Underground explosion.			
		(h = 30 km).		The magnitude given is in the			
"	3	Ki	eP 01 05 41	earthquake magnitude scale.			
		Um	iP 01 06 15.4 C	However, the seismic wave			
		Aleutian Islands (h = 30 km).		energy from an underground			
"	3	Up	iPKP 01 21 58.5	explosion corresponds to a			
		Kermadec Islands		magnitude, which is about 0.7			
		(h = 30 km).		units lower, i.e. 5.3 in this			
"	3	Up	iPKP 02 55 43.9	case.			
		Kermadec Islands		"	3	Up	iP 07 29 37.0
		(h = 30 km).				Ki	iP 07 29 09.6
"	3	Up	iPKP 03 36 38.9			Sk	eP 07 29 45
			microns sec			Um	iP 07 29 17.7
			PKP Z' 0.2 1.0			Mongolia (h = 30 km).	
		M	E 1.3 22	"	3	Ka	iPg 10 35 41.8
		M	N 2.3 22			iSg	10 35 47.0
		M	Z 2.4 24	"	3	Up	iP 10 53 27.4
		Ki	---			Ki	iP 10 52 33.0
			microns sec			Um	iP 10 52 58.2
		M	E 1.0 19			Aleutian Islands (h = 40 km).	
		M	N 1.0 22	"	3	Um	iP 11 00 00.4
		M	Z 1.7 19	"	3	Up	iPKP 11 44 53.0
		Sk	iPKP 03 36 35.3			Kermadec Islands	
						(h = 80 km).	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Mar.	3	Up	iPKP	11 56 03.8	Mar.	3	Ki	iP	15 28 37
				microns sec	cont.			ePKP	15 32 39
			PKP	Z' 0.1 1.0				ePP	15 33 08
		Um	ePKP	11 55 57					microns sec
		Kermadec Islands						PP	N 0.8 15
		(h = 30 km).						PP	Z 4.1 17
"	3	Ki	eSn	13 18 27				M	E 26 23
			iSg	13 18 52.1				M	N 21 22
		Um	iSg	13 19 54.9			Sk	ePKP	15 32 46
		Probably northwest Russia.						i	15 32 57.7
		Explosion?					Um	iP	15 28 44
"	3	Ki	i	14 00 05.6				iPKP	15 32 48.2
			iSg	14 00 28.9				iPP	15 33 32
"	3	Ki	iPn	14 04 42.3 D				iSKS	15 39 36
			iPg	14 04 53.1				i	15 42 48
			iSg	14 05 31.6				iPS	15 43 06
		D = 330 km = 3.0°.						New Britain (h = 40 km).	
		Origin time = 14 03 53.			"	3	Up	iP	16 58 08.3 C
"	3	Up	iP	14 07 31.9 C			ipP	16 58 16.1	
		Um	iP	14 07 04.6				microns sec	
		Aleutian Islands						P	Z' 0.7 1.0
		(h = 20 km).						M	E 2.2 19
"	3	Up	iPKP	14 58 37.8 D				M	N 2.3 19
				microns sec				M	Z 2.4 19
			PKP	Z 0.8 3			Ki	iP	16 57 14.6 C
			PKP	Z' 0.5 1.3				microns sec	
		Gb	ePKP	14 58 44			Sk	iP	16 57 49.5 C
		Um	iPKP	14 58 27.7				iPcP	16 58 35.8
		Ka	ePKP	14 58 52			Gb	eP	16 58 25 C
		Kermadec Islands					Um	iP	16 57 40.5 C
		(h = 40 km).					Ka	iP	16 58 31.6
		The series of shocks in the					Aleutian Islands.		
		Kermadec Islands the first					h = 30 km (Up).		
		days of March, 1965, is a			"	3	Up	iP	19 24 49.0
		typical earthquake swarm.						microns sec	
		It seems to be some regularity						P	Z' 0.1 0.7
		in the occurrence of the					Ki	iP	19 24 14.9
		shocks in this swarm, but					Sk	iP	19 24 20.5
		this could possibly be					Um	iP	19 24 34.3 C
		explained as chance					Nevada, U.S.A. Origin time =		
		occurrence.					19 13 00. Probably underground		
"	3	Up	iPKP	15 32 56.8				explosion.	
			iPP	15 33 54	"	3	Up	iP	19 40 13.4
			ePS	15 43 20				iPcP	19 40 39.0
				microns sec			Ki	iP	19 39 26.6
			PP	Z 2.6 12			Um	iP	19 39 47.5
			M	E 23 21			Kurile Islands (h = 30 km).		
			M	N 24 21	"	3	Up	iPKP	20 14 50.8
			M	Z 34 21	cont.				

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Mar.	5	Um	iP	10 17 39.2 C	Mar.	5	Um	iP	16 44 11.5
				Aroe Islands (h = 30 km).					Aleutian Islands (h = 40 km).
"	5	Um	iP	13 26 27.5	"	5	Up	iPKP	17 28 32.6 C
"	5	Up	iP	13 53 33.0 C			Sk	iPKP	17 28 25.4 C
				ipP 13 53 44.4			Um	iPKP	17 28 20.3
				iS 14 02 21					Kermadec Islands (h = 20 km).
				microns sec					
		P	Z'	0.8 0.9	"	5	Up	iP	18 10 01.5 C
		M	E	0.7 19			i		18 11 37.9
		M	N	1.8 22			eS		18 18 44
		M	Z	2.3 23					microns sec
				D = 7400 km = 66 1/2°.					P Z' 0.5 1.0
		Ki	iP	13 52 39.9 C					S N 0.3 5
				eS 14 00 37					M N 1.9 23
				microns sec					M Z 1.4 22
		P	Z'	0.5 1.0					D = 7400 km = 66 1/2°.
		S	N	0.3 9			Ki	iP	18 09 08.0 C
		M	E	1.0 19			eS		18 17 11
		M	N	1.1 18					microns sec
		M	Z	1.9 20					P Z' 0.2 1.0
				D = 6500 km = 58 1/2°.					S N 0.2 8
		Sk	iP	13 53 13.5 C					M E 0.9 18
		Um	iP	13 53 05.8 C					M N 0.8 17
				iPa 13 57 15					M Z 1.1 19
				iS 14 01 29					D = 6500 km = 58 1/2°.
		Ka	iP	13 53 56.6 C			Sk	iP	18 09 41.9 C
				Aleutian Islands.			Um	iP	18 09 34.1 C
				h = 45 km (Up).			Ka	iP	18 10 25.2 C
				In this and many other					Aleutian Islands (h = 40 km).
				Aleutian Islands shocks, the					Magn. = 5.8 (Up, Ki).
				surface waves are abnormally					
				small compared to the body					
				waves, especially P, at our	"	5	Up	iPKP	19 56 23.5
				stations. This cannot always					microns sec
				be explained by focal depths					PKP Z' 0.1 1.2
				greater than normal.			Um	ePKP	19 56 19
									Kermadec Islands (h = 30 km).
"	5	Up	iP	14 12 53.6	"	5	Up	ePKP	21 19 49
				Aleutian Islands					Kermadec Islands (h = 30 km).
				(h = 15 km).					
"	5	Ki	iPKP	14 49 50.4	"	5	Up	iP	22 16 38.4
				iPP 14 50 46.3	"	5	Up	iP	23 40 02.9 C
				e 14 59 40			i		23 41 21.0
		Um	iPKP	14 49 47.1					microns sec
				Argentina (h = 570 km).			P	Z'	0.1 1.0
"	5	Um	iP	15 00 45.3			M	E	0.6 17
				i 15 00 56.7			M	N	0.7 15
"	5	Um	iP	15 42 41.5			M	Z	0.7 15
"	5	Um	iP	16 32 52.8			Ki	iP	23 39 09.4 C
				Japan (h = 30 km).					microns sec
							P	Z'	0.1 1.0
							M	E	0.5 13

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Mar.	5	Ki		microns sec	Mar.	6	Up	iPKP	10 08 39.6
cont.			M	N 0.3 16					Kermadec Islands (h = 30 km).
			M	Z 0.6 14					
		Sk	iP	23 39 44.0 C	"	6	Sk	iPKP	11 29 58.1
		Um	iP	23 39 35.4 C			Um	iPKP	11 30 02.0
			ePa	23 43 26					South Pacific Ocean
			iS	23 47 54					(h = 40 km).
		Ka	iP	23 40 27.0	"	6	Up	iP	13 52 07.0
				Aleutian Islands (h = 50 km).					microns sec
				Magn. = 5.7 (Up,Ki).					M E 0.9 22
"	6	Ki	iP	03 42 03.4					M N 1.4 23
				Kodiak Island (h = 30 km).					M Z 1.5 23
"	6	Up	iPKP	04 26 23.1			Ki	iP	13 51 12.5
			i	04 26 28.5				eS	13 59 19
				microns sec					microns sec
			PKP	Z' 0.1 1.0					M E 0.8 19
		Um	iPKP	04 26 18.2					M N 0.8 20
		Ka	iPKP	04 26 35.0 C					M Z 2.0 22
				South of Fiji Islands					D = 6500 km = 58 1/2°.
				(h = 25 km).			Sk	iP	13 51 46.7
"	6	Up	iP	06 03 43.9 C			Gb	iP	13 52 24.7
			ipP	06 03 54.5			Um	iP	13 51 38.9
		Ki	iP	06 02 50.3				iS	14 00 06
			ipP	06 03 01.6				iScS	14 01 28
				microns sec					Aleutian Islands (h = 40 km).
			P	Z' 0.1 1.0	"	6	Up	iP	14 46 45.7
		Sk	iP	06 03 24.6			Gb	iP	14 47 02.7
		Um	iP	06 03 16.2			Um	iP	14 46 19.2
			ipP	06 03 26.3					Aleutian Islands (h = 30 km).
				Aleutian Islands.	"	6	Up	iPKP	16 21 37.4
				h = 40 km (Up,Ki,Um).			Sk	iPKP	16 21 28.9
"	6	Up	iP	06 20 25.2			Gb	iPKP	16 21 45.9
		Um	iP	06 20 08.4			Um	iPKP	16 21 24.8
									Kermadec Islands (h = 60 km).
"	6	Up	iP	08 30 19.4 C	"	6	Up	iP	17 21 12.0
				microns sec				ipP	17 21 22.3
			P	Z' 0.4 1.0			Um	iP	17 20 44.6
			M	E 0.6 20					Aleutian Islands.
			M	N 1.4 22					h = 40 km (Up).
			M	Z 1.8 22	"	6	Sk	iP	17 39 22.8
		Ki	iP	08 29 25.8 C	"	6	Up	iP	18 36 31.8
				microns sec			Um	iP	18 36 04.5 C
			P	Z' 0.2 0.9					Aleutian Islands (h = 30 km).
			M	E 0.9 18	"	6	Um	iP	19 14 59.5
			M	N 0.8 17	"	6	Up	iP	20 35 57.8 C
			M	Z 1.3 18				iS	20 45 54
		Sk	iP	08 30 00.0 C					
		Um	iP	08 29 51.7 C					
		Ka	iP	08 30 43.2					
				Aleutian Islands (h = 25 km).					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965						
Mar.	6	Up		microns sec	Mar.	7	Gb	iPKP	02 02 57.8 C		
cont.			P	Z' 0.2 0.9	cont.		Um	iPKP	02 02 38.0 C		
			S	E 0.5 4			Ka	iPKP	02 02 58.9		
			M	E 3.3 15			Kermadec Islands				
			M	N 2.2 16			(h = 60 km).				
			M	Z 5.1 16		"	7	Up	iP	03 02 13.3 D	
			D = 8900 km = 80°.					Aleutian Islands			
		Ki	iP	20 35 37.3				(h = 25 km).			
			eS	20 45 11							
				microns sec			"	7	Up	iP	07 41 47.2
			P	Z' 0.2 1.1				Gb	eP	07 41 48	
			S	E 1.0 9				Um	eP	07 42 08	
			S	N 0.4 6				Ka	iP	07 41 28.5	
			M	E 1.4 15				Gulf of Aden (h = 40 km).			
			M	N 1.2 13			"	7	Up	iP	07 51 39.5 D
			M	Z 1.8 17					ipP	07 51 44.2	
			D = 8450 km = 76°.						iS	07 59 03	
		Sk	iP	20 36 02.4						microns sec	
		Gb	iP	20 36 16.7					S	E 0.4 4	
			i	20 37 14.4					M	E 1.6 17	
		Um	iP	20 35 43.8 C					M	N 2.0 20	
			i	20 35 49.9					M	Z 1.3 16	
			iS	20 45 26					D = 5800 km = 52°.		
		Ka	iP	20 36 10.3 C			Ki	iP	07 52 23.3		
		Philippine Islands							microns sec		
		(h = 10 km).						M	E 1.5 18		
		Magn. = 5.9 (Up,Ki).						M	N 1.8 17		
"	7	Up	iP	00 12 20.4				M	Z 2.7 17		
			ipP	00 12 32.5			Sk	eP	07 52 07		
		Aleutian Islands.					Gb	iP	07 51 41.2		
		h = 50 km (Up).					Um	iP	07 51 57.8		
"	7	Up	iP	01 47 51.6				ipP	07 52 02.5		
			iPcP	01 48 24.4			Ka	eP	07 51 14		
		Ki	iP	01 47 08.4			Gulf of Aden.				
		Um	iP	01 47 26.7			h = 20 km (Up,Um).				
		Ka	iP	01 48 13.4			Magn. = 5.4 (Up,Ki).				
		Sikhota Alin					"	7	Up	iP	11 15 31.5 C
		(h = 330 km).								microns sec	
"	7	Up	iPKP	02 02 47.3				P	Z' 0.3 0.9		
			i	02 02 49.7 C			Ki	iP	11 14 38.0		
				microns sec					microns sec		
			PKP	Z' 0.2 0.7				P	Z' 0.2 1.0		
			M	E 0.9 22			Sk	iP	11 15 11.4		
			M	N 1.2 20			Gb	iP	11 15 48.6 C		
			M	Z 2.4 24			Um	iP	11 15 03.9 C		
		Ki	ePKP	02 02 30			Ka	iP	11 15 55.0 C		
			ePKS	02 06 06				i	11 16 10.2		
				microns sec			Aleutian Islands				
			M	E 1.2 21			(h = 40 km).				
			M	N 1.5 19			Magn. = 6.1 (Up,Ki).				
			M	Z 2.1 21			"	7	Up	iPKP	16 28 30.0
		Sk	iPKP	02 02 43.3 C				Ka	iPKP	16 28 40.2	
cont.							Kermadec Islands (h = 30 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965	Mar.	7	Um	iP	18 17 15.4 C	1965	Mar.	9	Um	iP	03 47 36.7
					Aleutian Islands	cont.				i	03 48 12.6
					(h = 30 km).					i(S)	03 50 57.8
"		7	Up	iP	19 52 11.9					Svalbard.	
					Aleutian Islands					Origin time = 03 43 53.	
					(h = 15 km).					Solution obtained by	
										combination with readings from	
										Finnish and Norwegian stations.	
"		8	Ki	iSg	05 45 00.7	"		9	Up	iP	11 12 56.5
			Um	i(Sn)	05 45 45.4						Aleutian Islands
				iSg	05 46 33.4						(h = 30 km).
					Probably northwest Russia.						
					Explosion?						
"		8	Up	iP	12 37 26.5	"		9	Um	iP	17 12 28.9
			Ki	iP	12 37 06.5	"		9	Um	iPKP	17 48 10.3
			Um	iP	12 37 13.6						Santa Cruz Islands
				ipP	12 37 26.1						(h = 130 km).
					Philippine Islands.	"		9	Up	iP	18 02 36.5 C
					h = 50 km (Um).					iS	18 06 29
"		8	Up	iPg	13 29 28.9						microns sec
				iSg	13 29 41.9					P	E 1.2 5
					D = 110 km = 1.0°.					P	N 2.9 4
					Origin time = 13 29 09.					P	Z 3.1 5
					Explosion?					P	Z' 0.6 0.7
"		8	Up	iPg	13 31 32.7					S	E 3.0 4
				iSg	13 31 45.1					S	N 19 12
					D = 110 km = 1.0°.					S	Z 14 11
					Origin time 13 31 13.					M	E 120 14
					Explosion?					M	N 59 10
"		8	Up	iP	16 47 37.4					M	Z 75 12
"		8	Um	iP	19 45 05.2						D = 2350 km = 21°.
"		8	Um	iP	22 24 20.1				Ki	iP	18 03 50.6 C
					Alaska (h = 30 km).					i	18 08 28
"		8	Up	iP	23 07 46.5					iS	18 08 38
			Gb	iP	23 07 33.0					iSa	18 09 49
			Um	iP	23 08 23.6						microns sec
				i	23 08 38.8					P	Z' 1.6 2.0
					Greece (h = 60 km).					S	N 6.9 13
"		9	Up	iPKP	01 55 16.4 D					M	E 130 11
			Ki	iPKP	01 55 04.9					M	N 60 12
			Um	iPKP	01 55 11.6					M	Z 75 13
				iSKP	01 58 00.6						D = 3200 km = 29°.
					Fiji Islands (h = 390 km).				Sk	iP	18 03 20.1 C
"		9	Ki	iP	03 46 44.9				Gb	iP	18 02 27.2 C
				iS	03 48 56.9					i	18 04 03.9
					D = 1350 km = 12°.				Um	iP	18 03 14.6 C
cont.										iS	18 07 34
									Ka	iP	18 01 58.8 C
											Aegean Sea (h = 20 km).
											Magn. = 6.3 (Up,Ki).
						"		9	Up	iP	18 42 35.8
											microns sec
										P	Z' 0.1 0.8
						cont.					

Up = Uppsala, Ki = Kiruna, Sk = Skanstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Mar. cont.	9	Up	microns sec	Mar.	9	Up	iP 21 56 02.2
		M	E 2.8 15			Um	iP 21 55 33.8 D
		M	N 2.8 14			Aleutian Islands (h = 25 km).	
		M	Z 2.0 13				
		Ki	iP 18 43 49.9	"	9	Up	eP 22 23 52.3
			microns sec				microns sec
		M	E 4.5 11			M	E 0.8 14
		M	N 3.2 11			M	N 1.1 11
		M	Z 3.4 11			M	Z 0.9 10
		Sk	iP 18 43 18.6 C			Ki	---
		Gb	iP 18 42 26.5				microns sec
		Um	iP 18 43 13.5			M	E 1.5 13
		Aegean Sea (h = 30 km).				M	N 0.9 12
						M	Z 1.3 12
"	9	Up	iP 18 56 44.5			Sk	iP 22 24 33.7
		Sk	iP 18 57 24.1			Gb	iP 22 23 41.3
		Um	iP 18 57 26.3			Um	iP 22 24 27.9 C
		Aegean Sea (h = 30 km).				Aegean Sea (h = 5 km).	
"	9	Um	iP 19 04 42.6 C	"	9	Sk	eP 22 40 09
		Aegean Sea (h = 5 km).				Aegean Sea.	
"	9	Up	iP 19 51 42.3			Origin time = 22 34 45	
			microns sec			(Athens).	
		M	E 2.2 15	"	9	Up	iP 22 39 58.3 C
		M	N 1.5 15				iPP 22 40 20.5
		M	Z 1.1 14				microns sec
		Ki	iP 19 52 55.0			M	E 1.1 12
			microns sec			M	N 1.4 10
		M	E 3.2 11			M	Z 1.7 11
		M	N 1.9 12			Ki	iP 22 41 11.9
		M	Z 2.0 12				microns sec
		Sk	iP 19 52 24.3			M	E 2.7 11
		Gb	iP 19 51 31.5			M	N 1.7 12
		Um	iP 19 52 20.1			M	Z 2.3 11
		Aegean Sea (h = 20 km).				Sk	eP 22 40 41.2
"	9	Up	iP 21 24 49.6			Gb	iP 22 39 48.5 C
		i	21 24 53.8			Um	iP 22 40 36.4
			microns sec			Ka	eP 22 39 24
		M	E 2.5 15			Aegean Sea (h = 30 km).	
		M	N 2.3 13	"	9	Um	iP 23 19 00.1 D
		M	Z 2.8 13	"	10	Ki	---
		Ki	iP 21 26 03.8				microns sec
			microns sec			M	E 1.1 13
		M	E 1.8 16			Sk	eP 00 10 02
		M	N 1.3 12			Um	iP 00 09 56.8
		M	Z 1.6 11			Aegean Sea.	
		Sk	iP 21 25 32.8			Origin time = 00 04 37.	
		Gb	iP 21 24 39.7	"	10	Um	iP 00 25 28.6 D
		i	21 24 44.4			Kurile Islands (h = 30 km).	
		Um	iP 21 25 26.9	"	10	Up	iP 01 09 16.4
		iS	21 29 59				
		Aegean Sea (h = 15 km).					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965						1965				
Mar.	10	Up	eP	22 03 29		Mar.	11	Um	iP	12 17 54.6
		Ki	iP	22 02 35.9		cont.		Aleutian Islands.		
		Sk	iP	22 03 03.8				h = 30 km (Up).		
		Gb	eP	22 03 42		"	11	Um	iP	12 43 38.9
		Um	iP	22 03 03.9		"	11	Up	iP	14 16 59.8
		Ka	iP	22 03 51.0				Um	iP	14 16 23.8
		Kodiak Island (h = 30 km).						i		14 16 33.9
"	10	Ka	iP	22 27 23.8				South of Alaska (h = 10 km).		
"	11	Up	iPKP	02 13 33.4		"	11	Um	i(P)	17 33 55.8
		Um	iPKP	02 13 23.1 D				e(Sg)		17 34 31
"	11	Um	iP	06 16 22.1		"	11	Ki		---
		i		06 16 32.0						microns sec
		Sumatra (h = 60 km).						M	N	1.1 18
"	11	Up	iP	08 41 59.2				M	Z	1.1 19
		Ki	iP	08 41 11.4			Um	iPS		17 36 44
		Um	iP	08 41 33.6			i			17 43 50
		Kurile Islands (h = 50 km).						Bouvet Island (h = 30 km).		
"	11	Up	iPg	08 54 14.5		"	11	Up	iP	19 27 21.8
		iSg		08 55 01.2				Ki	iP	19 26 38.5
		D = 390 km = 3.5°.						Gb	iP	19 27 41.3
		Sk	iSg	08 55 20.6				Um	iP	19 26 57.4
		Gb	iSg	08 54 09.1				Japan (h = 40 km).		
		Oslo Fjord, 59.6°N, 10.8°E.				"	11	Up	iP	21 30 41.0
		Origin time = 08 53 05.						Um	iP	21 30 13.1 C
		Solution obtained by combination with readings at Kongsberg.						Aleutian Islands (h = 40 km).		
"	11	Ki	iP	11 00 29.9		"	11	Up	iP	23 42 00.6
		iS		11 02 46.7				Ki	iP	23 41 14.0
		Um	iP	11 01 25.6				Um	iP	23 41 35.7
		iS		11 04 16.0				Kurile Islands (h = 50 km).		
		e		11 05 01		"	12	Up	iP	00 19 00.2
		i		11 06 39.1		"	12	Up	iP	02 06 11.4
		Svalbard.						Aleutian Islands (h = 40 km).		
		Origin time = 10 57.8.				"	12	Up	iP	02 27 44.5 C
		Solution obtained by combination with readings at Sodankylä and Kevo.						Aleutian Islands (h = 40 km).		
"	11	Um	iP	11 36 02.1		"	12	Ki	eP	07 01 28.5
"	11	Up	iP	12 14 05.0				i		07 01 40.0
		Aleutian Islands (h = 40 km).								microns sec
"	11	Up	iP	12 18 24.1				P	Z'	0.1 1.5
		ipP		12 18 31.5			Sk	eP		07 01 56
		Ki	iP	12 17 29.3			i			07 02 19.3
		Gb	iP	12 18 42.3			Gb	iP		07 02 34.4
							Um	iP		07 01 56.2
							South of Alaska (h = 15 km).			

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Mar.	13	Southern Baltic.			Mar.	14	Ka	iP	09 04 48.5
cont.		Origin time = 14 22 36.			cont.			i	09 04 59.3
		Explosion?					Mexico (h = 100 km).		
"	13	Up	iP	15 36 58.6	"	14	Up	iP	11 49 18.7
		Ki	iP	15 36 06.2				i	11 49 26.2
		Aleutian Islands (h = 50 km).					Sk	eP	11 49 46
"	13	Up	iP	15 37 56.1				i	11 49 54.3
		Ki	iP	15 37 04.0 C			Um	e(P)	11 49 27
		Gb	iP	15 38 16.8			Ka	iP	11 49 22.6
		Um	iP	15 37 28.5				i	11 49 30.6
		Aleutian Islands.					Hindu Kush (h = 90 km).		
		Origin time = 15 27 01.			"	14	Um	iP	12 15 15.2
"	13	Up	iP	15 46 58.5			Japan (h = 70 km).		
		Sk	eP	15 47 43	"	14	Up	iP	15 01 02.0 D
		Aegean Sea (h = 30 km).					Um	iP	15 00 33.8
"	13	Um	iP	16 22 24.0 C			Aleutian Islands (h = 30 km).		
		Gb	iP	16 23 12.9	"	14	Up	iP	16 00 29.5 C
		Kamchatka (h = 30 km).						iPP	16 02 11
"	13	Ki	iPn	17 10 55.3 D				iS	16 06 16
			iSn	17 11 43.5					microns sec
			iSg	17 11 59.0			P	Z'	2.4 0.7
			D = 400 km = 3.6°.				S	E	42 6
		Sk	eSg	17 14 44			M	E	220 11
		Um	iSn	17 12 53.2			M	N	240 14
			iSg	17 13 26.7			M	Z	420 18
			D = 700 km = 6.3°.				(D = 4550 km = 41°).		
		Northwest Russia, 68.9°,					Ki	iP	16 00 38.5 C
		29.8°E.						iS	16 06 24
		Origin time = 17 10 00.							microns sec
		Explosion?					P	E	83 7
"	13	Up	iP	21 07 25.1			P	N	35 7
		Gb	iP	21 07 46.5			P	Z	78 7
		Um	iP	21 07 02.7			P	Z'	4.5 0.7
		Japan (h = 30 km).					S	E	47 10
"	14	Up	eP	05 18 54			S	N	22 12
		Um	iP	05 18 52.9			M	E	170 10
		Ka	iP	05 19 02.6			M	N	120 11
		Kashmir (h = 160 km).					M	Z	210 11
"	14	Ki	eSg	05 37 29			(D = 4700 km = 42 1/2°).		
		Um	iSn	05 38 05.6			Sk	iP	16 00 54.8 C
			iSg	05 38 35.9			Gb	iP	16 00 50.6 C
		Probably northwest Russia.					Um	iP	16 00 27.7 C
		Explosion?						iS	16 06 07
"	14	Um	iP	06 10 12.7			Ka	iP	16 00 33.9 C
							Hindu Kush (h = 220 km).		
							Magn. = 7.6 (Up,Ki).		
"	14	Up	iP	09 04 45.1	"	15	Up	iP	02 14 01.6
cont.									microns sec
							M	E	1.0 17
							M	N	1.2 15
							M	Z	1.5 16
					cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
Mar.	15	Ki	iP	02 13 43.4	Mar.	16	Um	iP	02 24 19.6
cont.				microns sec	cont.		Ka	iP	02 23 39.2
			M	E 2.1 12			Atlantic Ocean (h = 30 km).		
			M	N 0.9 12	"	16	Up	iP	11 00 42.7
			M	Z 2.0 13	"	16	Up	iSg	12 44 01.7
		Sk	eP	02 14 17			Ka	iPg	12 41 40.5
		Um	iP	02 13 51.9				iSg	12 41 58.7
			iS	02 23 21				D = 160 km = 1.4°.	
		Formosa (h = 30 km).					Southern Baltic.		
"	15	Up	iP	05 10 53.8			Origin time = 12 41 13.		
		Aleutian Islands					Explosion?		
		(h = 20 km).							
"	15	Up	iP	07 42 52.2	"	16	Ki	iP	13 15 02.1
		Ki	iP	07 41 59.4			Um	iP	13 15 20.7
		Um	iP	07 42 25.0			Japan (h = 40 km).		
		Aleutian Islands			"	16	Up	iP	14 46 44.2 D
		(h = 60 km).							
"	15	Up	iP	08 36 49.8	"	16	Up	iP	15 18 16.1
		Ki	iP	08 35 56.9	"	16	Up	iP	16 57 25.1 C
		Um	iP	08 36 22.6 C				iPP	17 00 00.8
		Aleutian Islands (h = 30 km).						iS	17 06 28
"	15	Ki	iP	12 48 52.9				iPS	17 06 53
		South of Alaska (h = 20 km).						microns sec	
"	15	Up	i(P)	15 27 43.4			P	E 0.5 4	
							P	N 0.8 4	
"	15	Ki	iSg	20 07 11.9			P	Z 1.5 3	
		Sk	eSg	20 07 15			P	Z' 2.2 2.0	
		Um	eSn	20 07 23			PP	E 0.6 4	
			iSg	20 07 39.3			PP	Z 0.8 3	
		D = 400 km = 3.6°.					PP	Z' 0.4 1.2	
		Nordlands Fylke, Norway,					S	E 1.2 6	
		66.4°N, 14.5°E.					S	N 1.0 5	
		Origin time = 20 05 42.					M	E 27 21	
							M	N 33 20	
							M	Z 32 22	
"	15	Up	iP	23 13 11.3			D = 7800 km = 70°.		
			i	23 13 16.2		Ki	iP	16 56 43.2 C	
		Sk	iP	23 13 55.4			iPP	16 59 02.8	
		Um	iP	23 13 51.1			iS	17 05 12	
		Aegean Sea (h = 30 km).					iPS	17 05 37	
							microns sec		
"	16	Ki	iPn	02 07 36.0			P	Z 1.8 5	
			iSn	02 08 18.7			P	Z' 1.3 2.0	
			iSg	02 08 31.8			PP	E 1.2 4	
		D = 360 km = 3.2°.					PP	Z 1.1 4	
		Possibly northwest Russia.					PP	Z' 1.0 2.0	
		Origin time = 02 06 45.					S	E 2.0 8	
		Explosion?					S	N 2.0 8	
							M	E 42 18	
"	16	Up	iP	02 23 59.4			M	N 27 18	
		Gb	eP	02 23 44			M	Z 50 19	
cont.							D = 7000 km = 63°.		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
Mar.	16	Sk	iP	16 57 17.4 C	Mar.	17	Ki	iP	13 21 32.9
cont.			iPP	16 59 44.0	cont.			iLgl	13 34 21
		Gb	iP	16 57 46.4					microns sec
			iPP	17 00 25.0				M	E 1.8 10
		Um	iP	16 57 01.9 C				M	N 0.8 10
			ipP	16 57 10.5				M	Z 1.8 12
			iPa	17 01 18			Sk	eP	13 21 54
			iS	17 05 50				iPP	13 23 20.1
		Ka	iP	16 57 46.1 C			Gb	iP	13 21 49.2
			iPP	17 00 32.1			Um	iP	13 21 21.1
				Japan. h = 30 km (Um).					Kirghiz SSR (h = 30 km).
				Magn. = 6.7 (Up,Ki).					
"	16	Up	iP	18 35 05.0	"	17	Up	iP	14 37 56.6 C
		Ki	iP	18 34 11.3					microns sec
		Sk	iP	18 34 45.3				P	Z' 0.2 0.5
		Um	iP	18 34 37.3			Ki	iP	14 37 02.7 C
				Aleutian Islands					microns sec
				(h = 40 km).				P	Z' 0.3 1.0
"	16	Um	eP	21 44 05				M	E 0.9 18
				Japan (h = 30 km).				M	N 1.3 23
"	16	Up	iP	22 06 46.9				M	Z 2.6 23
"	17	Up	iP	00 43 24.6			Sk	iP	14 37 37.5 C
			i	00 43 29.6			Gb	iP	14 38 15.5
		Sk	iP	00 43 18.5				i	14 38 28.6
		Um	iP	00 43 13.4 C			Um	iP	14 37 29.1 C
			i	00 43 23.0				iS	14 45 48
							Ka	iP	14 38 20.0
									Aleutian Islands (h = 25 km).
									Magn. = 6.3 (Up,Ki).
"	17	Up	iP	03 58 25.5 C	"	17	Ki	iP	18 28 09.3
		Ki	iP	03 59 26.7			Um	eP	18 28 25
		Gb	iP	03 58 24.8	"	18	Up	iP	02 50 26.9
		Um	iP	03 58 53.0			Ki	iP	02 50 31.6 C
				Cyprus (h = 40 km).			Um	iP	02 50 24.7
									Nepal-India (h = 30 km).
"	17	Up	iP	07 26 38.5	"	18	Up	iP	04 45 47.2
		Sk	eP	07 27 09			Um	iP	04 45 45.8
		Gb	eP	07 26 55					Hindu Kush (h = 210 km).
		Um	iP	07 26 49.6	"	18	Um	iP	05 00 23.7
			i	07 26 56.4				i	05 00 32.4
				Iran (h = 60 km).					Japan (h = 40 km).
"	17	Up	iP	08 05 47.0	"	18	Ki	iPn	06 13 43.9
		Ki	iP	08 04 53.6				iSn	06 14 39.4
		Um	iP	08 05 20.0				iSg	06 14 56.9
				Aleutian Islands.				D = 470 km = 4.2°.	
				Origin time = 07 54 55.			Sk	eSg	06 17 30
"	17	Up	iP	11 42 42.5			Um	iSn	06 15 24.5
"	17	Up	iP	13 21 26.7				iSg	06 16 08.3
			iPP	13 22 44.6					Northwest Russia, 68.1°N,
				microns sec					31.6°E. Origin time =
		M	N	2.7 15					06 12 39. Explosion?

cont.

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1965						1965				
Mar.	18	Up	eP	06 23 26		Mar.	19	Um	i	12 08 45.2
"	18	Up	iPKP	06 41 04.7		cont.			iT	12 12 28.0
		Ki	iPKP	06 41 02.4					i	12 14 03.1
			iSKP	06 44 03						Jan Mayen-Svalbard.
			i	06 45 45		"	19	Um	iP	15 19 30.2
				microns sec		"	19	Up	iP	15 34 24.2
		Sk	ePKP	06 41 04					i	15 34 26.5
		Gb	iPKP	06 41 12.2						microns sec
		Um	iPKP	06 41 03.3					P	Z' 0.4 0.5
			iSKP	06 44 15.0		"	19	Up	e(PP)	16 38 14
			i	06 53 16.1						microns sec
			iSS	07 01 10					M	E 2.3 20
		Ka	iPKP	06 41 13.6					M	N 7.3 21
		Fiji Islands (h = 150 km).							M	Z 3.2 20
"	18	Ki	iPKP	12 05 40.6				Ki	iP	16 34 08.1
		South Sandwich Islands							i(PP)	16 37 59.3
		(h = 30 km).								microns sec
"	18	Ki	iPKP	12 59 43.4					P	Z' 0.1 1.2
		Um	iPKP	12 59 38.3					M	E 2.7 19
		South Sandwich Islands							M	N 2.7 20
		(h = 90 km).							M	Z 4.0 19
"	18	Ki	iP	16 38 31.6				Sk	iP	16 34 29.2 C
		Um	iP	16 38 21.1				Um	iP	16 34 10.9
		Hindu Kush (h = 200 km).							i(PP)	16 37 51.2
"	18	Sk	iPKP	18 29 09.4					iSKS	16 44 44
		Southeast of Australia								Celebes (h = 50 km).
		(h = 30 km).				"	19	Ki	iSKP	17 57 47.3
"	18	Up	iP	19 31 11.5						microns sec
"	19	Sk	iP	04 40 54.7					SKP	Z' 0.1 1.5
		Um	iP	04 40 50.1				Um	iSKP	17 58 00.0
		Yugoslavia (h = 10 km).								Fiji Islands (h = 620 km).
"	19	Up	iP	07 46 12.3		"	19	Up	iP	23 11 50.0
		Ki	iP	07 45 19.0 C				Ki	iP	23 11 36.8
		Sk	iP	07 45 52.6 C						microns sec
		Um	iP	07 45 44.5					P	Z' 0.1 1.0
		Aleutian Islands (h = 40 km).						Sk	iP	23 11 57.1
"	19	Ki	iP	12 02 36.1				Um	iP	23 11 40.9 C
			i	12 03 09.3						Celebes (h = 170 km).
			i	12 06 39.8		"	19	Um	eP	23 42 31
			i	12 07 29.4						Yugoslavia (h = 30 km).
			eT	12 10 37		"	20	Up	iP	01 08 17.3
			i	12 11 09.7				Gb	i(P)	01 07 38.3
			i	12 12 13.2		"	20	Up	iSg	02 49 18.0
		Um	iP	12 03 12.2				Ki	iPg	02 45 32.7
			i	12 03 42.9					iSg	02 46 00.2
cont.						cont.				microns sec

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					
Mar.	20	Ki	microns sec		
cont.			Sg Z' 0.5 0.5		
			D = 210 km = 1.9°.		
		Sk	eSn 02 47 50		
			iSg 02 48 26.9		
			D = 710 km = 6.4°.		
		Um	iPn 02 46 00.6		
			iPg 02 46 13.5		
			i 02 47 04.7		
			iSg 02 47 09.0		
			D = 440 km = 4.0°.		
			Northern Finland, 67.3°N,		
			25.2°E.		
			Origin time = 02 44 57.		
"	20	Um	iP 06 42 23.8		
			Japan (h = 120 km).		
"	21	Ki	eSg 01 19 55		
		Sk	eSg 01 19 17		
		Um	iSg 01 19 55.2		
			Nordlands Fylke, Norway,		
			65.7°N, 14.0°E.		
			Origin time = 01 18 07.		
"	21	Up	iP 01 31 52.9		
		Ki	iP 01 31 00.8		
		Um	iP 01 31 26.3 C		
			Aleutian Islands (h = 20 km).		
"	21	Um	iP 09 55 21.4		
			Nicaragua (h = 40 km).		
"	21	Up	e(P) 11 22 12		
			i 11 25 21.8		
			iPP 11 26 12.1		
			i 11 26 26		
			iSKS 11 32 48		
			i 11 40 50		
			microns sec		
		PP	Z' 0.2 1.1		
		SKS	E 1.5 6		
		M	E 7.7 21		
		M	N 14 22		
		M	Z 11 22		
			(D = 11100 km = 100°).		
		Ki	iP 11 21 45.5		
			i 11 21 57.7		
			iPP 11 25 42.1		
			i 11 25 59		
			iSKS 11 32 30		
			i 11 40 08		
			microns sec		
		P	Z' 0.3 1.5		
		PP	Z' 1.3 2.5		

cont.

1965					
Mar.	21	Ki	microns sec		
cont.			SKS E 4.4 13		
			M E 9.5 17		
			M N 5.5 19		
			M Z 9.2 18		
			(D = 10800 km = 97°).		
		Gb	i 11 25 46.2		
			i 11 26 08.2		
			iPP 11 26 37.4		
		Um	iP 11 21 50.6		
			i 11 22 02.8		
			iPP 11 26 05.3		
			i 11 32 05		
			i(S) 11 33 32		
		Ka	i 11 25 40.9		
			i 11 26 11.5		
			iPP 11 26 41.5		
			Molucca Sea (h = 30 km).		
			Magn. = 6.6 (Up,Ki).		
			Our stations cover the distance		
			range 97°-104°, around the		
			beginning of the shadow zone.		
			The records are complicated		
			and several phases not		
			explained.		
"	21	Up	e(P) 11 42 53		
"	21	Up	iP 12 52 42.7 D		
			microns sec		
			P Z' 0.1 0.8		
		Ki	iP 12 52 05.3		
			microns sec		
			P Z' 0.1 1.0		
		Gb	iP 12 53 03.3		
		Um	iP 12 52 21.2		
			Japan (h = 270 km).		
			Magn. = 5.6 (Up,Ki).		
"	21	Up	iP 15 17 01.7		
		Ki	iP 15 16 58.6		
		Um	iP 15 16 54.2		
			i 15 17 05.0		
			Sinkiang, China (h = 30 km).		
"	21	Up	iP 21 25 24.8		
"	22	Up	iPKP 03 04 02.4		
			iPP 03 06 43		
			iPKS 03 07 43		
			microns sec		
		PKS	N 1.5 6		
		M	E 3.6 23		
		M	N 6.8 22		
		M	Z 7.2 22		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965						1965				
Mar.	23	Up	iP	12 55 56.2 C		Mar.	24	Up	iP	07 18 17.1
			ipP	12 56 06.6				Ki	iP	07 17 22.7
				microns sec				Sk	iP	07 17 49.5
			P	Z' 0.2 0.8				Gb	iP	07 18 29.4
		Ki	iP	12 55 03.2 C				Um	iP	07 17 51.1
		Gb	iP	12 56 13.0 C				Kodiak Island	(h = 20 km).	
		Um	iP	12 55 29.2		"	24	Um	iP	07 46 50.3
		Ka	iP	12 56 19.0				Kodiak Island	(h = 20 km).	
		Aleutian Islands.				"	24	Up	iP	08 18 35.2
		h = 40 km (Up).							microns sec	
"	23	Up	iP	13 46 44.1				P	Z' 0.1 0.6	
		Ki	iP	13 45 51.4				M	N 1.7 21	
		Um	iP	13 46 17.2				M	Z 1.8 19	
		Ka	iP	13 47 07.5			Ki	iP	08 17 40.8	
		Aleutian Islands						eS	08 25 34	
		(h = 50 km).							microns sec	
"	23	Up	iP	17 03 12.2 D				P	Z' 0.1 1.0	
		Greece (h = 140 km).						S	N 0.6 8	
"	23	Up	iP	23 02 38.3				M	E 1.1 20	
"	23	Up	iPP	00 15 56.5				M	N 2.2 21	
			ePKS	00 16 54				M	Z 2.5 18	
				microns sec				D = 6200 km = 56°.		
		M	E	2.0 21			Sk	iP	08 18 07.7	
		M	N	3.6 22			Gb	iP	08 18 47.4	
		M	Z	4.3 22			Um	iP	08 18 09.3	
		Ki		---				iS	08 26 22	
				microns sec			Ka	iP	08 18 58.1	
		M	E	3.3 20			Kodiak Island (h = 30 km).			
		M	N	3.7 21			Magn. = 5.7 (Up,Ki).			
		M	Z	4.9 21		"	24	Up	iSKP	08 21 38.3
		Um	iPKP	00 13 14.0					microns sec	
			iPKS	00 16 37				SKP	Z' 0.2 0.7	
			iSKS	00 20 19			Sk	iSKP	08 21 31.9	
			i	00 22 18			Gb	iSKP	08 21 49.7	
			i(SP)	00 25 27				i	08 21 54.7	
			e	00 35 16			Um	iSKP	08 21 23.4	
		Tonga Islands					Ka	iSKP	08 21 49.7	
		(h = 130 km).						i	08 21 53.9	
"	24	Up	iP	01 16 49.9 D			New Hebrides Islands			
		Um	iP	01 16 54.5			(h = 190 km).			
		West Pakistan (h = 40 km).				"	24	Um	iPKP	10 00 04.5
"	24	Up	iP	01 17 44.1			New Hebrides Islands			
		Um	iP	01 17 28.7			(h = 210 km).			
"	24	Up	iP	02 36 21.0		"	24	Gb	iP	12 40 35.4 D
"	24	Up	iP	07 04 31.5			Aleutian Islands (h = 20 km).			
		Ki	iP	07 05 17.1		"	24	Ki	iP	13 39 31.9
		Um	iP	07 04 48.2				ipP	13 39 40.7	
		Turkey.					Sk	iP	13 39 58.7	
								ipP	13 40 07.1	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Mar.	24	Gb	iP	13 40 35.4	Mar.	25	Up	iP	09 40 44.5
cont.		Um	iP	13 40 00.3 C			Ki	iP	09 39 50.7
			ipP	13 40 09.4			Um	iP	09 40 16.9
		Alaska.						ipP	09 40 26.9
		h = 35 km (Ki,Sk,Um).					Aleutian Islands.		
"	24	Up	iP	16 24 08.5			h = 40 km (Um).		
"	24	Up	iPKP	18 43 16.2 C	"	25	Up	iP	11 24 04.3
				microns sec	"	25	Um	iP	20 01 16.0 D
			PKP	Z' 0.2 0.8			Iran (h = 50 km).		
		Gb	iPKP	18 43 25.8	"	25	Um	iP	22 33 03.4
		Um	iPKP	18 43 04.4			Atlantic Ocean (h = 30 km).		
		Ka	iPKP	18 43 27.6	"	26	Up	iPKP	00 39 07.3
		South of Fiji Islands					Gb	iPKP	00 39 17.5
		(h = 140 km).					Um	iPKP	00 39 02.3
"	24	Up	iP	20 50 53.7 D				i	00 39 08.2
"	24	Up	iP	22 55 13.6			Ka	iPKP	00 39 19.8
				microns sec			Fiji Islands (h = 570 km).		
		M	E	1.3 22	"	26	Up	iP	02 31 01.2
		M	Z	1.3 20			Ki	iP	02 30 14.0
		Ki	iP	22 54 56.3			Um	iP	02 30 35.8
		Sk	iP	22 55 18.7			Kurile Islands (h = 30 km).		
		Um	iP	22 55 02.3	"	26	Um	iP	10 41 21.1
			eSKS	23 05 23	"	26	Um	iP	15 45 41.6 C
			eS	23 05 50	"	26	Up	iP	16 19 16.6
		Mindanao (h = 50 km).			"	26	Up	iP	16 23 34.7 C
"	25	Um	iP	05 31 33.8			ipP	16 23 48.6	
		Aleutian Islands						microns sec	
		(h = 15 km).					P	Z' 0.2 1.0	
"	25	Ki	iPKP	07 35 52.0			Ki	iP	16 22 41.1
		Sk	iPKP	07 36 03.1				microns sec	
		Um	iPKP	07 35 58.2 D			P	Z' 0.1 1.0	
		New Hebrides Islands					Um	iP	16 23 07.6
		(h = 210 km).					Ka	iP	16 23 58.6
"	25	Up	iP	09 04 01.7			Aleutian Islands.		
			ipP	09 04 11.0			h = 55 km (Up).		
				microns sec			Magn. = 5.8 (Up,Ki).		
			P	Z' 0.1 0.9	"	26	Ka	ePKP	16 32 11
		Ki	iP	09 03 07.8			Tonga Islands (h = 30 km).		
				microns sec	"	26	Up	i(P)	17 37 51.2
			P	Z' 0.2 1.3	"	26	Up	iP	20 34 32.9
		M	N	0.8 17			i	20 34 34.4	
		Sk	iP	09 03 42.3			iPcP	20 38 08.3	
		Gb	iP	09 04 19.1 C				microns sec	
			ipP	09 04 28.7			P	Z' 0.1 0.5	
		Um	iP	09 03 33.6 C			cont.		
			ipP	09 03 42.6					
		Aleutian Islands.							
		h = 40 km (Up,Gb,Um).							
		Magn. = 5.8 (Up,Ki).							

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965									
Mar.	26	Ki	iP	20 35 35.9	D				
cont.		Gb	iP	20 34 31.9	C				
		Um	iP	20 35 01.3					
			iPcP	20 38 15.1					
			iScP	20 41 45.1					
		Ka	iP	20 34 05.6	C				
				Turkey (h = 110 km).					
"	27	Ki	iPn	05 06 10.2					
			iSn	05 07 06.2					
			iSg	05 07 24.7					
				D = 490 km = 4.4°.					
		Sk	eSg	05 10 04					
		Um	iSn	05 07 50.9					
			iSg	05 08 30.1					
				D = 710 km = 6.4°.					
				Northwest Russia, 68.1°N, 32.2°E. Origin time = 05 05 00. Explosion?					
"	27	Um	iP	05 29 26.8					
				Aleutian Islands (h = 25 km).					
"	27	Ki	iP	06 26 57.7					
				microns sec					
			P	Z' 0.1 1.0					
"	27	Um	iP	14 30 26.8					
				Sea of Japan (h = 25 km).					
"	27	Up	iPKP	15 06 43.1					
		Um	iPKP	15 06 32.4	C				
				South of Kermadec Islands (h = 30 km).					
"	28	Um	iP	00 10 36.5					
				Ceram Sea (h = 30 km).					
"	28	Um	iP	00 17 28.6					
			iS	00 28 59					
				Ceram Sea (h = 30 km).					
"	28	Up	iP	08 52 41.0					
			ipP	08 52 49.4					
		Gb	iP	08 53 01.1					
				Japan. h = 30 km (Up).					
"	28	Up	iP	13 33 14.7	C				
			eS	13 41 35					
				microns sec					
			P	Z' 0.7 1.4					
			M	E 2.8 21					
			M	N 3.7 20					

cont.

1965									
Mar.	28	Up							
cont.									
				microns sec					
			M	Z 4.1 21					
				D = 6850 km = 61 1/2°.					
		Ki	iP	13 32 19.2	C				
				microns sec					
			P	Z' 0.5 1.3					
			M	E 2.9 21					
			M	N 1.0 17					
			M	Z 2.3 14					
		Sk	iP	13 32 57.0	C				
		Gb	iP	13 33 35.0	C				
			ePP	13 35 56					
		Um	iP	13 32 45.5	C				
			iPcP	13 33 38.1					
			iPa	13 36 20					
		Ka	iP	13 33 39.5	C				
				Kamchatka (h = 30 km). Magn. = 6.4 from PZ' and = 5.7 from surface waves (Up,Ki).					
"	28	Up	iP	16 48 09					
			iPKP	16 51 51.5					
			iPP	16 53 02.0					
			iSKS	16 58 35					
			iSKKS	16 59 54					
			iS	17 00 43					
			iPKKP	17 02 22.2					
			i	17 02 44.3					
				microns sec					
			PKP	Z' 0.3 1.4					
			PP	E 2.2 6					
			PP	N 0.8 5					
			PP	Z 4.7 6					
			PP	Z' 0.7 1.5					
			SKS	E 3.3 6					
			S	N 15 17					
			PKKP	Z' 0.1 1.0					
			M	E 73 24					
			M	N 48 26					
			M	Z 98 22					
				(D = 13100 km = 118°).					
		Ki	e(P)	16 48 43					
			iPKP	16 51 58.4					
			i	16 53 00					
			iPP	16 53 25.1					
			iPPP	16 55 59					
			iSKS	16 58 49					
			iS	17 01 14					
			iPKKP	17 02 05.5					
			iPS	17 03 11					
			iSS	17 09 43					
				microns sec					
			PKP	Z' 0.6 1.5					
			PP	E 4.9 6					
			PP	N 1.0 6					
			PP	Z 7.3 6					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Mar.	28	Ki	microns sec		Mar.	29	Up	iPS	11 08 16
cont.					cont.				microns sec
			PP Z' 2.7 2.5					P E 0.8 3	
			SKS E 13 13					P N 1.2 4	
			S N 8.5 14					P Z 2.0 3	
			PKKP Z' 0.1 1.2					P Z' 2.2 1.7	
			M E 39 20					PP E 0.8 4	
			M N 34 23					PP N 1.4 4	
			M Z 56 21					PP Z 2.0 4	
			(D = 13450 km = 121°).					S E 0.8 4	
		Sk	iPKP 16 51 51.0 C					S N 1.1 5	
			iPP 16 52 50.7					M E 21 21	
		Gb	iPKP 16 51 46.1 C					M N 22 20	
			iPP 16 52 36.9					M Z 23 22	
			iPKKP 17 02 36.7					D = 7800 km = 70°.	
			i 17 02 59.4					Ki iP 10 58 04.9 C	
		Um	eP 16 48 16					iPP 11 00 19.4	
			i 16 48 39					eS 11 06 33	
			iPKP 16 51 56.5					iPS 11 06 54	
			i 16 52 12.6					microns sec	
			i 16 52 52					P E 1.1 5	
			iPP 16 53 14.9					P N 0.9 6	
			i 16 56 30.2					P Z 2.6 5	
			iPKKP 17 02 10.7					P Z' 2.0 1.9	
		Ka	iPKP 16 51 47.9					PP E 1.5 5	
			iPP 16 52 44.3					PP N 1.0 6	
			ePKKP 17 02 16					PP Z 1.9 4	
			i 17 02 33.3					PP Z' 2.1 2.5	
			Chile (h = 60 km).					S E 2.1 6	
			Magn. = 7.5 (Up,Ki).					S N 1.9 8	
"	28	Up	iPKP 21 31 43.6					M E 31 19	
			South of Fiji Islands					M N 22 19	
			(h = 490 km).					M Z 34 19	
"	28	Up	iP 21 52 49.1					D = 7000 km = 63°.	
			ipP 21 53 02.2					Sk iP 10 58 39.4 C	
		Ki	iP 21 51 56.6					iPP 11 01 03.4	
		Um	iP 21 52 21.7 C					Gb iP 10 59 08.0 C	
		Gb	iP 21 53 10.0					i 10 59 17.4	
			Kamchatka. h = 50 km (Up).					i 11 01 08.3	
"	28	Um	iP 22 27 00.2					iPP 11 01 40.6	
			Aleutian Islands					iPS 11 08 53.1	
			(h = 50 km).					Um iP 10 58 23.7 C	
"	29	Up	iP 00 18 52.7					iPP 11 00 47	
		Ki	eP 00 18 26					iS 11 07 02	
		Um	iP 00 18 37.1					Ka iP 10 59 08.0 C	
			Mariana Islands (h = 60 km).					iPP 11 01 52.1	
"	29	Um	iP 09 39 15.0 C					Japan (h = 30 km).	
			Eastern Siberia (h = 30 km).					Magn. = 6.8 (Up,Ki).	
"	29	Up	iP 10 58 47.0 C					" 29 Gb iP 12 30 36.8	
			iPP 11 01 20					" 29 Up eP 12 46 52	
			iS 11 07 51					" 29 Up iP 14 43 31.6	
cont.								cont.	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Mar.	29	Up	microns sec		Mar.	30	Up	iP'P'	03 06 12.5
cont.		M	E 1.1 20		cont.			eX	03 36 35
		M	N 2.4 23					iY	03 36 56.0
		M	Z 2.5 25					iZ	03 37 25.3
		Ki	iP 14 42 38.2 C						microns sec
			microns sec				P	E 9.6 13	
		M	E 0.8 16				P	N 25 10	
		M	N 1.4 18				P	Z 60 10	
		M	Z 2.6 23				P	Z' 1.3 0.6	
		Sk	eP 14 43 13				S	E 71 11	
		Um	iP 14 43 04.0 C				S	N 46 8	
			Aleutian Islands (h = 30 km).				P'P'	Z' 1.0 1.6	
"	29	Up	eP 15 23 03				Y	Z' 0.1 1.0	
		Um	iP 15 22 37.1				Z	Z' 0.3 1.2	
			Aleutian Islands (h = 60 km).				M	E 240 23	
"	30	Up	iPKP 00 16 47.4				M	N 210 21	
			epPKP 00 17 44				M	Z 170 21	
			microns sec					D = 7600 km = 68 1/2°.	
			PKP Z' 0.2 0.6			Ki	iP	02 37 15.4 D	
		Ki	iPKP 00 16 25.7				iS	02 45 21	
		Sk	iPKP 00 16 40.6 D				i(P'P')	03 06 22.2	
		Gb	iPKP 00 16 55.9 D				iP'P'	03 06 35.5	
		Um	iPKP 00 16 35.0				iX	03 35 10.2	
		Ka	iPKP 00 16 57.6				iY	03 35 56.7	
			Kermadec Islands.					microns sec	
			h = 230 km (Up).				P	E 10 15	
"	30	Ki	iPn 00 25 25.4				P	N 36 10	
			iSn 00 26 06.1				P	Z 73 9	
			i 00 26 12.2				P	Z' 1.7 0.7	
			iSg 00 26 23.6				S	E 75 10	
			D = 390 km = 3.5°.				S	N 26 15	
		Um	eSn 00 27 12				P'P'	Z' 1.2 1.9	
			iSg 00 27 55.4				Y	Z' 0.5 2.0	
			D = 690 km = 6.2°.				M	E 220 20	
			Northwest Russia, 69°N,				M	N 120 16	
			29 3/4°E.				M	Z 170 16	
			Origin time = 00 24 28.					D = 6700 km = 60 1/2°.	
			Explosion?			Sk	iP	02 37 49.0	
"	30	Ki	iPP 00 42 28				i(P'P')	03 06 20.6	
			iPKS 00 43 35				iP'P'	03 06 27.3	
			eSS 01 00 07				eX	03 36 59	
			microns sec			Gb	iP	02 38 25.4	
			PKS Z 0.8 7				iPP	02 40 56.8	
		M	E 0.8 17				iS	02 47 46.5	
		M	N 1.0 20				iP'P'	03 06 11.1	
		M	Z 2.1 21				iX	03 37 16.2	
		Um	iPKP 00 40 18.1 C			Um	iP	02 37 40.8 D	
			Tonga Islands (h = 30 km).				iS	02 46 26.1	
"	30	Up	iP 02 38 07.7 D				i(P'P')	03 06 15.2	
			iPa 02 42 21				iP'P'	03 06 31.1	
			iS 02 47 13				iX	03 36 09.4	
cont.							iY	03 36 20.3	
						Ka	iP	02 38 31.3	
							iS	02 48 00.3	
							i(P'P')	03 05 58.6	
							iP'P'	03 06 17.4	
								cont.	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Mar.	30	Ka	iX	03 37 10.2	Mar.	30	Up	iP	06 36 06.3
cont.			iY	03 37 17.8					microns sec
				Aleutian Islands (h = 50 km).				P	Z' 0.1 0.7
				Magn. = 7.7 (Up,Ki).			Ki	iP	06 35 14.0 D
				The phases marked X, Y, Z			Sk	iP	06 35 47.1
				have the appearance of core			Um	iP	06 35 39.1
				phases. However, efforts					Aleutian Islands (h = 30 km).
				to explain them in this	"	30	Up	iP	07 21 58.9 D
				way have not been successful.			Ki	iP	07 21 08.7
				An alternative explanation,					Aleutian Islands (h = 40 km).
				perhaps somewhat more likely,	"	30	Up	iP	07 51 41.6 D
				is that they are due to an					microns sec
				independent earthquake,				P	Z' 0.1 1.0
				possibly in the Arctic area,					Aleutian Islands (h = 30 km).
				but even then no good					
				agreement could be achieved.					
"	30	Up	iP	02 57 39.9	"	30	Ki	iP	08 03 22.6
		Ki	eP	02 56 46					Aleutian Islands (h = 40 km).
				Aleutian Islands.	"	30	Up	iP	08 22 09.2
				Origin time = 02 46 39.					Aleutian Islands (h = 40 km).
"	30	Up	iP	03 04 18.4	"	30	Gb	iP	09 16 33.7 D
		Gb	iP	03 04 32.6					Aleutian Islands (h = 40 km).
		Um	iP	03 03 49.3	"	30	Up	iP	12 21 16.7
				Aleutian Islands (h = 30 km).			Ki	iP	12 20 40.9 C
"	30	Up	iP	03 22 13.2					microns sec
				Aleutian Islands (h = 30 km).				P	Z' 0.1 1.0
"	30	Um	iP	03 26 08.4			Sk	iP	12 21 13.5
"	30	Up	iP	03 40 51.7 C			Um	iP	12 20 55.5
				microns sec				ipP	12 22 17.3
				Z' 0.1 1.0					Japan. h = 360 km (Um).
		Ki	iP	03 39 58.5 C	"	30	Ki	iP	12 48 16.9
			i	03 40 13.7			Um	iP	12 48 43.6
				microns sec					Aleutian Islands (h = 40 km).
				Z' 0.1 1.0	"	30	Up	iP	16 10 43.3 C
		Um	iP	03 40 24.5					microns sec
		Ka	iP	03 41 15.3				P	Z' 0.1 1.0
				Aleutian Islands.				M	E 1.1 20
				Origin time = 03 29 51.				M	N 1.6 20
				Magn. = 5.7 (Up,Ki).				M	Z 1.6 20
"	30	Up	iP	03 50 59.7			Ki	iP	16 10 00.6
				Aleutian Islands (h = 30 km).					microns sec
"	30	Up	iP	03 58 24.8				P	Z' 0.1 1.0
				Aleutian Islands (h = 30 km).				M	E 1.5 18
"	30	Up	iP	04 43 52.9 C				M	N 1.1 18
				microns sec				M	Z 2.8 19
				Z' 0.1 0.9			Sk	iP	16 10 35.7
		Ki	iP	04 43 00.0			Gb	iP	16 11 04.4
		Um	iP	04 43 25.3			Um	iP	16 10 19.3
				Aleutian Islands (h = 40 km).					Japan (h = 30 km).
									Magn. = 5.7 (Up,Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965	Mar.	30	Up	iP	16 19 51.4	1965	Mar.	31	Ki		microns sec
			Ki	iP	16 18 57.7 C				M	N	66 11
			Sk	iP	16 19 28.5				M	Z	91 12
			Um	iP	16 19 25.2				D = 3300 km = 29 1/2°.		
			Aleutian Islands (h = 30 km).						Sk	iP	09 52 55.4 C
	"	30	Up	iP	16 21 24.8				Gb	iP	09 52 02.3 C
				i	16 21 42.8					iS	09 55 51.0
			Ki	iP	16 20 32.4 D				Um	iP	09 52 51.2 C
				ipP	16 20 46.4					iS	09 57 12
			Sk	iP	16 21 01.2				Ka	iP	09 51 36.8 C
			Um	iP	16 20 58.4				Greece (h = 80 km).		
			Aleutian Islands.						Magn. = 7.1 (Up,Ki).		
			h = 60 km (Ki).				"	31	Up	iP	10 57 12.9
	"	30	Up	iP	16 43 27.9					ipP	10 57 22.1
			Aleutian Islands (h = 30 km).								microns sec
	"	30	Um	iP	17 29 35.0					P	Z' 0.1 1.0
			Japan (h = 30 km).						Ki	iP	10 56 19.8
	"	30	Up	iP	19 12 12.8						microns sec
			Ki	iP	19 11 21.3					P	Z' 0.1 1.0
			Gb	eP	19 12 33				Sk	iP	10 56 52.8
			Um	iP	19 11 45.5 C				Gb	iP	10 57 29.4
			Kurile Islands (h = 30 km).							ipP	10 57 38.7
	"	30	Up	iP	01 52 29.2				Um	iP	10 56 46.3
									Ka	eP	10 57 35
	"	31	Up	iP	08 32 25.0				Aleutian Islands.		
			Ki	iP	08 31 31.7				h = 35 km (Up,Gb).		
			Um	iP	08 31 54.0				Magn. = 5.7 (Up,Ki).		
			Aleutian Islands (h = 40 km).				"	31	Up	iP	12 05 54.9 C
	"	31	Up	iP	09 52 14.4 C						microns sec
				iS	09 56 07					P	Z' 0.1 0.7
									Gb	iP	12 05 41.9
									Um	iP	12 06 34.3
									Greece (h = 70 km).		
							"	31	Up	eSg	12 30 28
									Ka	iPg	12 28 18.4
										iSg	12 28 37.3
									D = 160 km = 1.4°.		
									Southern Baltic.		
									Origin time = 12 27 51.		
									Explosion?		
							"	31	Up	iP	13 34 30.6
									Aleutian Islands (h = 40 km).		
	"	31	Um	iP	14 45 20.5						
	"	31	Up	iP	15 31 09.6 D						
			Um	iP	15 30 38.6				Aleutian Islands (h = 30 km).		
	"	31	Ki	iPg	15 37 15.7						
				iSg	15 37 38.9				D = 200 km = 1.8°.		

cont.

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965

Mar. 31 Sk e(Sn) 15 39 00
 cont. iSg 15 39 21.6
 Um iSg 15 39 15.6
 Lofoten, Norway, 68.4°N,
 15.9°E.
 Origin time = 15 36 39.

" 31 Up iP 16 06 45.7

" 31 Up iP 17 20 16.5
 Ki iP 17 19 22.2 C
 Sk iP 17 19 56.4
 Gb iP 17 20 33.1
 ipP 17 20 44.6
 Um iP 17 19 49.2 C
 Aleutian Islands.
 h = 50 km (Gb).

" 31 Up iP 19 49 07.9
 Um iP 19 48 41.4
 Aleutian Islands (h = 50 km).

" 31 Ki iP 19 58 42.3
 Aleutian Islands
 (h = 25 km).

" 31 Up iP 20 13 07.1
 microns sec
 M E 1.2 16
 M N 1.1 11
 M Z 1.4 15
 Ki ---
 microns sec
 M E 2.7 15
 M N 1.6 12
 M Z 2.0 13
 Sk iP 20 13 50.0
 Gb iP 20 12 55.8
 Um iP 20 13 44.8 C
 iS 20 18 16
 Aegean Sea (h = 30 km).

" 31 Up iP 22 43 35.7
 ipP 22 43 44.0
 Ki iP 22 42 44.4
 Gb iP 22 43 53.8
 ipP 22 44 00.5
 Um iP 22 43 09.9
 ipP 22 43 17.5
 Ka iP 22 43 59.2
 Aleutian Islands.
 h = 30 km (Up,Gb,Um).

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,
UMEÅ and KARLSKRONA

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

A P R I L 1 - 30, 1965
.....

1965					1965				
Apr.	1	Up	iP	01 17 12.8	Apr.	1	Up	--	
		Sk	iP	01 17 57.5				microns sec	
		Gb	iP	01 17 15.4			M	E 0.9 19	
		Turkey (h = 40 km).					M	N 1.5 19	
							M	Z 1.1 18	
"	1	Up	iP	03 16 52.9			Ki	--	
								microns sec	
"	1	Ki	iSn	05 32 05.5			M	E 1.1 17	
			iSg	05 32 25.5			M	N 1.7 20	
		Possibly northwest Russia.					M	Z 2.3 17	
"	1	Up	iP	07 21 30.1			Um	iPKP 21 40 34.9	
			ipP	07 21 54.6				iSS 22 03 59	
				microns sec			South Pacific Ocean		
		P	Z'	0.1 1.0			(h = 30 km).		
		Ki	iP	07 21 12.5			Magn. = 6.0 (Up, Ki).		
		Sk	iP	07 21 33.4	"	1	Up	i(P) 22 13 02.9	
		Gb	iP	07 21 46.5	"	1	Um	iP 22 31 11.4	
			ipP	07 22 10.8			South of Japan		
		Um	iP	07 21 18.0			(h = 30 km).		
		Ka	iP	07 21 40.9	"	1	Um	iP 22 36 22.3	
		Mindanao. h = 90 km (Up, Gb).					South of Japan		
"	1	Up	iP	12 34 53.9			(h = 60 km).		
"	1	Um	iP	12 37 15.8	"	2	Up	e(P) 02 14 58	
		North of Mariana Islands			"	2	Up	eP 05 58 13	
		(h = 90 km).			"	2	Ki	iP 13 16 31.7	
"	1	Ki	iP	13 38 56.1				microns sec	
		Um	iP	13 39 11.6			M	E 0.5 14	
			i	13 39 34.7			M	N 1.0 20	
		South of Japan (h = 10 km).					Um	iP 13 17 00.4	
"	1	Up	iP	15 23 09.0 C			Luzon (h = 30 km).		
"	1	Up	iP	16 44 09.3 C	"	2	Up	iSn 15 57 25.2	
			i	16 45 06.6				i 15 57 42.8	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
Apr. cont.	2	Ki	ePn	15 54 59	Apr. cont.	2	Sk	iP	22 34 35.7
			iSn	15 56 17.2				iPP	22 36 12.2
			i	15 56 35.0			Gb	iP	22 34 29.1
		Sk	ePn	15 54 16				iPP	22 35 58.2
			i	15 54 22.5				i	22 36 13.8
			iSn	15 55 14.0			Um	iP	22 34 08.8
		Um	iPn	15 54 54.0				iPP	22 35 30.6
			iSn	15 56 26.0			Ka	iP	22 34 11.0
			i	15 56 29.9				i(pP)	22 34 20.5
		Norwegian Sea (h = 30 km).					Hindu Kush (h = 40 km). Well developed higher mode surface waves (especially on Up N).		
"	2	Up	iPKP	16 02 52.8	"	2	Up	i(P)	22 42 14.8
				microns sec					
			PKP	Z' 0.2 0.7					
		Ki	iPKP	16 02 37.3	"	2	Sk	iP	22 46 25.9
		Sk	iPKP	16 02 45.8	"	2	Sk	iP	22 46 25.9
		Gb	iPKP	16 03 02.5	"	3	Up	iP	02 48 49.5 C
		Um	iPKP	16 02 41.5				ipP	02 49 00.2
			iSKP	16 05 44.4					microns sec
		Ka	iPKP	16 03 03.5					Z' 0.1 1.0
		Kermadec Islands (h = 380 km).					Ki	iP	02 47 56.3 C
"	2	Up	iP	16 39 24.7					microns sec
			ipP	16 39 32.7					Z' 0.1 1.0
		Ki	iP	16 38 31.8			Sk	iP	02 48 31.6
		Um	eP	16 38 58			Gb	iP	02 49 07.1
			ipP	16 39 06.3			Um	iP	02 48 22.4 C
		Aleutian Islands. h = 30 km (Up, Um).					Aleutian Islands. h = 40 km (Up). Magn. = 5.7 (Up, Ki).		
"	2	Um	iP	16 51 00.9	"	3	Up	iP	03 09 45.5
			i(Sg)	16 51 25.3				i	03 09 51.7
"	2	Up	iP	22 15 37.2			Ki	iP	03 09 32.7 C
			i	22 15 41.2			Um	iP	03 09 33.5 C
		Um	iP	22 15 21.1			Sinkiang (h = 10 km).		
			i	22 15 25.3	"	3	Up	iPKP	03 49 02.7
"	2	Up	iP	22 33 24.1 C			Tonga-Kermadec Islands (h = 30 km).		
				microns sec					
			P	Z' 0.1 0.6	"	3	Up	i(P)	08 26 35.8
		Ki	iP	22 32 51.0	"	3	Up	i(P)	08 27 29.7
		Um	iP	22 33 05.3 C	"	3	Up	iPKP	08 59 06.4
		South of Japan (h = 450 km).							microns sec
"	2	Up	iP	22 34 07.1					PKP Z' 0.1 1.0
				microns sec			Gb	iPKP	08 59 16.6 C
			P	Z' 0.1 0.6			Um	iPKP	08 59 00.9
		M	E	1.1 19			Ka	iPKP	08 59 18.8
		M	N	1.1 9			Tonga-Kermadec Islands (h = 110 km).		
		M	Z	1.3 20					
		Ki	iP	22 34 22.0	"	3	Up	iP	11 33 36
				microns sec				iPP	11 37 02
			M	E 0.5 14					
			M	N 0.5 12					

cont.

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965							
Apr.	4	Up	iP	13 41 28.3 C	Apr.	4	Ka	iPKP	16 01 32.0		
			ipP	13 41 38.2				Tonga-Kermadec Islands.			
			iS	13 50 20				Origin-time = 15 41 47.			
			iP'P'	14 09 41.2							
			i	14 09 53.5		"	4	Up	iPKP	16 12 22.7 C	
				microns sec					i	16 12 32.9	
			P	Z' 0.4 1.4						microns sec	
			S	E 0.9 7					PKP	Z' 0.1 1.0	
			P'P'	Z' 0.1 1.2			Gb	iPKP	16 12 31.1		
			M	E 1.0 17			Um	ePKP	16 12 12		
			M	N 2.2 18			Ka	iPKP	16 12 33.5		
			M	Z 1.7 18				Tonga-Kermadec Islands			
				D = 7450 km = 67°.				(h = 30 km).			
		Ki	iP	13 40 35.7		"	4	Up	iPKP	16 29 44.4 C	
			ipP	13 40 44.6				Gb	iPKP	16 29 53.8	
			iS	13 48 43				Um	iPKP	16 29 31.8	
			eP'P'	14 10 15				Ka	iPKP	16 29 54.6	
				microns sec					Tonga-Kermadec Islands		
			P	Z' 0.1 1.0					(h = 30 km).		
			S	E 1.2 10							
			S	N 0.6 6			"	4	Up	iPKP	16 52 20.8
			M	E 2.2 17				Gb	iPKP	16 52 29.0	
			M	N 1.8 17				Um	iPKP	16 52 10.1	
			M	Z 2.5 18					i	16 52 14.5	
				D = 6550 km = 59°.				Ka	iPKP	16 52 31.5	
		Sk	iP	13 41 09.4					Tonga-Kermadec Islands		
		Gb	eP	13 41 46					(h = 10 km).		
			i	13 41 48.8							
			ipP	13 41 54.4			"	4	Up	eP	16 56 53
		Um	iP	13 41 01.0							
			iS	13 49 29			"	4	Up	iP	17 25 59.2
			iP'P'	14 09 53.8			"	4	Up	iP	18 20 24.9
		Ka	iP	13 41 53.3 C			"	4	Up	iP	20 12 04.5
			i	13 41 59.4			"	4	Up	iP	20 23 04.2
				Aleutian Islands.			"	4		ipP	20 23 41.6
				h = 40 km (Up, Ki, Gb).					Ki	iP	20 23 48.3
				Magn. = 5.9 (Up, Ki).					Gb	iP	20 22 51.1
"	4	Up	iP	14 01 50.7			"	4	Um	iP	20 23 10.7
		Um	iP	14 01 24.9						Peru-Brazil.	
				Kurile Islands (h = 60 km).						h = 150 km (Up).	
"	4	Up	iPKP	15 55 47.1 C			"	4	Um	iP	22 18 16.4 D
			i	15 55 54.7							
				microns sec							
			PKP	Z' 0.1 1.0			"	4	Up	iP	22 59 31.0
		Ki	iPKP	15 55 30.4					Um	iP	22 59 03.6
		Gb	iPKP	15 55 56.0						Aleutian Islands	
		Um	ePKP	15 55 34						(h = 20 km).	
		Ka	iPKP	15 55 58.0 C			"	5	Up	iPKP	02 16 15.7
				Tonga-Kermadec Islands						(h = 30 km).	
				(h = 30 km).							
"	4	Up	iPKP	16 01 21.2			"	5	Ki	iP	02 23 40.7
		Gb	iPKP	16 01 30.8							
		Um	iPKP	16 01 11.0							
cont.							"	5			
							cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	5	Um	iP	02 23 58.3	Apr.	5	Up	eL	07 14
cont.				Japan (h = 50 km).					microns sec
"	5	Up	iP	02 58 34.3				M	N 1.1 18
		Um	iP	02 58 29.5				M	Z 1.2 19
		Ka	iP	02 58 40.5 C		Ki	eL		07 10
									microns sec
"	5	Up	iP	03 17 49.3				M	E 1.6 24
			i	03 17 59				M	N 0.8 18
			iS	03 21 51				M	Z 1.9 20
									Bismarck Sea (h = 10 km).
				microns sec					
			P	Z' 1.2 0.8	"	5	Um	eP	10 46 25
			S	E 14 16					
			S	N 9.9 10	"	5	Up	iP	11 16 48.0
			M	E 50 14			Um	iP	11 16 56.3
			M	N 35 19					
			M	Z 24 18	"	5	Ki	iPg	12 30 02.0
			D = 2500 km = $22\frac{1}{2}^{\circ}$.					iSn	12 30 25.9
		Ki	iP	03 19 03.0				iSg	12 30 30.9
			i	03 19 07.4					D = 230 km = 2.1° .
			iPP	03 20 07					Probably northwest coast
			iS	03 23 59					of Norway.
			i	03 24 13					Origin time = 12 29 21.
			eSS	03 25 37	"	5	Ki	iPg	13 39 59.7
			iLg2	03 29 32				iSg	13 40 26.4
									D = 220 km = 2.0° .
				microns sec					Probably northwest coast
			P	N 0.6 6					of Norway.
			P	Z' 0.5 1.3					Origin time = 13 39 20.
			PP	N 1.2 7	"	5	Up	iP	14 03 11.5 C
			M	E 65 21				ipP	14 03 33.6
			M	N 16 14				eS	14 12 11
			M	Z 21 13					microns sec
			D = 3350 km = 30° .						P Z' 1.0 0.8
		Sk	iP	03 18 30.0					M E 2.5 19
			i	03 18 37.1					M N 3.2 22
		Gb	iP	03 17 36.4					M Z 2.9 22
			i	03 17 47.3					D = 7700 km = $69\frac{1}{2}^{\circ}$.
		Um	iP	03 18 26.3					Ki iP 14 02 24.6 C
			i	03 18 35					iPP 14 04 38.4
			iS	03 22 54					iS 14 10 46
			i	03 23 08.7					microns sec
		Ka	iP	03 17 12.4 C					P Z 1.2 5
			iS	03 20 41.6					P Z' 1.1 1.2
									S E 0.8 9
				Greece (h = 30 km).					M E 4.0 18
				Magn. = 6.2 (Up, Ki).					M N 2.4 19
				The P-phase is multiple,					M Z 3.1 18
				with several successively					D = 6900 km = 62° .
				larger onsets. There is					Sk iP 14 02 59.8
				also clear evidence of					Gb iP 14 03 32.0 C
				shear-coupled waves on the					Um iP 14 02 46.4 C
				long-period records.					iS 14 11 24
"	5	Um	iP	03 48 28.9					
				Aleutian Islands					
				(h = 40 km).					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
Apr.	5	Ka	iP	14 03 33.6 C	Apr.	6	Um	iP	03 29 22.4 C	
cont.					cont.			i(pP)	03 29 34.5	
								Ka	iP	03 30 14.1
								Aleutian Islands		
								(h = 30 km).		
								Magn. = 7.0 (Up, Ki).		
"	5	Ki	iPg	14 10 36.0	"	6	Up	iPKP	04 38 50.4	
			iSg	14 11 03.5			Gb	iPKP	04 38 58.9	
				D = 230 km = 2.1°.			Ka	iPKP	04 38 59.7	
		Sk	eSg	14 13 08			Tonga-Kermadec Islands			
			e	14 13 26			(h = 50 km).			
		Um	iSg	14 12 58.4						
		Northwest coast of Norway,								
		near Västerålen.								
		Origin time = 14 09 55.								
"	5	Up	iPKP	14 53 10.9			Up	iP	05 43 24.0 C	
		Ka	ePKP	14 53 23					microns sec	
		Tonga-Kermadec Islands						P	Z' 0.3 0.7	
		(h = 50 km).					Ki	iP	05 42 45.8 C	
								iPP	05 45 13.3	
									microns sec	
"	5	Up	iP	16 20 08.5				P	Z' 0.2 1.0	
								PP	Z' 0.1 1.0	
"	5	Up	iP	17 06 34.7			Sk	iP	05 43 18.6 C	
		Ki	iP	17 05 41.3				iPP	05 45 58.7	
		Um	iP	17 06 06.5			Gb	iP	05 43 44.4 C	
		Ka	iP	17 06 58.0				iPP	05 46 38.5	
		Aleutian Islands					Um	iP	05 43 02.4 C	
		(h = 40 km).					Ka	iP	05 43 42.9	
"	5	Up	iP	17 57 23.7				iPP	05 46 33.7	
		Aleutian Islands						Japan (h = 70 km).		
		(h = 20 km).						Magn. = 6.3 (Up, Ki).		
"	5	Up	iP	18 14 49.6	"	6	Up	iP	09 55 57.7	
		Um	iP	18 14 23.3				ePP	09 59 52	
		Aleutian Islands						eSKS	10 06 23	
		(h = 40 km).						eS	10 07 12	
"	5	Up	eP	18 28 30					microns sec	
"	6	Up	iP	02 38 39.4				PP	Z 1.1 7	
		Aleutian Islands						M	E 1.9 20	
		(h = 90 km).						M	N 6.3 22	
"	6	Um	iP	03 04 06.5				M	Z 3.4 21	
"	6	Um	iP	03 15 12.6				D = 10800 km = 97°.		
"	6	Up	iP	03 29 50.0 C			Ki	iP	09 55 41.4	
				microns sec				iSKS	10 06 18	
				P				iS	10 06 47	
				Z' 0.1 1.0					microns sec	
		Ki	iP	03 28 56.9 C				P	Z' 0.3 1.9	
				microns sec				SKS	E 1.0 5	
				P				M	E 3.6 17	
				Z' 0.1 1.0				M	N 3.2 22	
		Sk	iP	03 29 30.9				M	Z 4.4 20	
		Gb	iP	03 30 08.3				D = 10400 km = 93½°.		
cont.							Sk	ePP	10 00 11	
							Gb	iP	09 56 11.3	
							Um	iP	09 55 46.6	
								iPP	09 59 41	
								iSKS	10 06 20	
								iS	10 06 51	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965								
Apr. cont.	6	Ka	iP	09 55	58.7	Apr.	6	Um	iP	18 54	19.9	
			i	09 58	57.0			ipP	18 54	29.9		
			i(PP)	10 00	06.1			Alaska. h = 40 km (Um).				
			Celebes (h = 30 km).									
			Magn. = 6.2 (Up, Ki).									
"	6	Ki	iP	12 19	14.8	"	6	Up	iP	22 01	21.9	
		Um	iP	12 19	05.0			Kurile Islands (h = 15 km).				
"	6	Ki	iPg	12 25	10.4	"	7	Um	iP	02 22	02.7	
			iSn	12 25	42.3	"	7	Um	iP	02 35	38.8	
			iSg	12 25	59.2	"	7	Sk	iP	04 22	18.0	
			D = 420 km = 3.8°.					Ka	iP	04 21	01.5	
		Origin time = 12 23 54.					Greece (h = 70 km).					
"	6	Up	iP	12 45	33.2	"	7	Ki	iSg	04 35	56.8	
		Um	eP	12 45	05			Sk	iSg	04 36	01.2	
		Aleutian Islands (h = 30 km).						Um	iSg	04 36	24.2	
"	6	Up	iP	13 29	59.3			Nordlands Fylke, Norway, 66.4°N, 14.5°E.				
				microns sec				Origin time = 04 34 27.				
			P	Z'	0.2 0.9	"	7	Ki	iPn	05 30	56.6	
		Ki	iP	13 29	06.0			iSn	05 31	52.5		
		Sk	iP	13 29	38.9			iSg	05 32	15.4		
		Gb	iP	13 30	15.7			D = 510 km = 4.6°.				
		Um	iP	13 29	32.1			Sk	eSg	05 34	42	
		Ka	iP	13 30	22.2			Um	iSn	05 32	37.2	
		Aleutian Islands (h = 50 km).						i	05 32	54.2		
"	6	Ki	iPg	13 35	29.9			iSg	05 33	16.9		
				iSn	13 36	00.4			D = 710 km = 6.4°.			
				iSg	13 36	12.9			Northwest Russia, 67.9°N, 32.6°E.			
				D = 370 km = 3.3°.				Origin time = 05 29 45.				
		Origin time = 13 34 24.						Explosion?				
"	6	Up	iP	13 41	49.0	"	7	Sk	iP	06 54	52.6	
		Ki	iP	13 40	56.6			Crete (h = 30 km).				
		microns sec				"	7	Up	iP	07 01	31.2	
			P	Z'	0.1 1.0	"	7	Ki	ePn	10 49	21	
		Gb	iP	13 42	05.3			iPg	10 49	27.8		
		Um	iP	13 41	21.4			iSg	10 49	56.0		
		Ka	iP	13 42	12.1			D = 240 km = 2.2°.				
		Aleutian Islands (h = 40 km).						Um	i	10 50	58.4	
"	6	Up	iP	14 28	03.0			iSg	10 51	58.4		
		Aleutian Islands (h = 40 km).					Possibly off northwest coast of Norway.					
"	6	Sk	eP	17 06	25			Origin time = 10 48 43.				
		Um	iP	17 06	40.6							
		Mexico (h = 60 km).					"	7	Ki	iP	11 05	53.2
"	6	Up	iPKP	17 46	21.1	"	7	Up	iP	16 32	32.9	
		Tonga-Kermadec Islands (h = 40 km).										

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965						1965					
Apr.	8	Sk	iP	14 41 40.5	C	Apr.	9	Ki	e(PKP)	11 04 46	
cont.		Gb	iP	14 42 16.5		cont.			iPKP	11 04 54.8	
		Um	iP	14 41 32.1	C				i	11 15 03	
			ipP	14 41 37.0						microns sec	
			iPP	14 43 45.3					M	E 0.8 18	
		Aleutian Islands.							M	N 0.9 19	
		h = 20 km (Um).							M	Z 1.9 20	
		Magn. = 5.7 (Up,Ki).						Sk	iPKP	11 05 09.8	
"	8	Um	iP	14 58 14.3				Gb	iPKP	11 05 17.1	
"	8	Up	iP	15 55 10.8				Um	iPKP	11 05 04.3	C
		Ki	iP	15 54 17.9				Kermadec Islands			
		Um	iP	15 54 44.0				(h = 50 km).			
		Aleutian Islands				"	9	Um	iP	11 15 20.1	C
		(h = 30 km).				"	9	Up	iP	11 39 59.9	C
"	8	Up	iP	17 54 52.5					P	Z' 0.1 0.7	
		Ki	iP	17 53 58.8							
		Um	iP	17 54 25.0		"	9	Ki	eP	14 16 49	
		Aleutian Islands				"	9	Up	iP	14 43 27.1	
		(h = 40 km).								microns sec	
"	8	Um	iP	18 59 18.7					P	Z' 0.1 0.5	
"	8	Ki	iP	19 09 04.8				Ki	iP	14 42 51.9	
		Um	iP	19 09 31.1						microns sec	
		Aleutian Islands							P	Z' 0.1 1.0	
		(h = 30 km).						Sk	iP	14 43 23.2	
"	9	Up	iP	01 22 41.9				Um	iP	14 43 06.7	
		Ki	iP	01 22 46.9					i	14 43 13.2	
		Um	iP	01 22 38.9				Japan (h = 330 km).			
		Ka	iP	01 22 49.7				Magn. = 5.7 (Up,Ki).			
		Tadzhik SSR (h = 150 km).				"	9	Ki	eP	17 42 52	
"	9	Up	eP	03 13 47				Sk	iP	17 43 20.9	
		Ki	iP	03 12 54.1				Um	eP	17 43 24	
		Um	iP	03 13 20.0					i(pP)	17 43 34.8	
		Aleutian Islands						Alaska (h = 50 km).			
		(h = 30 km).				"	9	Up		--	
"	9	Up	iP	03 31 02.9						microns sec	
		Aleutian Islands						M	E 1.7 22		
		(h = 40 km).						M	N 2.4 20		
"	9	Ki	iP	05 58 52.2				M	Z 2.3 23		
		Um	iP	05 59 19.8						microns sec	
		Aleutian Islands						M	E 2.6 20		
		(h = 40 km).						M	N 2.0 22		
"	9	Up	e(PKP)	11 05 15				M	Z 3.2 20		
			iPKP	11 05 22.1				Um	iP	23 06 23.5	
				microns sec				New Guinea (h = 30 km).			
			PKP	Z' 0.5 1.3				Magn. = 6.0 (Up,Ki).			
			M	E 0.7 18		"	9	Up	iP	23 10 21.0	
			M	N 1.1 18				Um	iP	23 09 59.0	
			M	Z 1.2 19				Aleutian Islands			
								(h = 50 km).			

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965						1965						
Apr.	10	Sk	eSg	16 33 29		Apr.	10	Um	iPKP	22 50 57.8		
cont.		Um	iSg	16 33 51.6		cont.			iPP	22 53 27		
		Nordlands Fylke, Norway,							iSKP	22 53 36.6		
		66.4°N, 14.5°E.							iPKS	22 54 21		
		Origin time = 16 31 55.						Ka	isPKS	22 57 27		
"	10	Up	iP	17 05 39.5 C				Ka	iPKP	22 51 06.3		
			ipP	17 05 45.6					iSKP	22 54 00.7		
				microns sec				Fiji Islands (h = 540 km).				
			P	Z' 0.3 1.0		"	10	Up	iPKP	23 11 03.0		
		Ki	iP	17 04 45.9 C					iSKP	23 13 27.0		
				microns sec					i	23 15 10.8		
			P	Z' 0.4 1.0						microns sec		
			M	N 0.8 17					SKP	Z' 0.8 0.8		
		Sk	iP	17 05 20.4				Ki	iPKP	23 10 47.4		
		Gb	iP	17 05 57.9				Sk	iPKP	23 10 59.9		
		Um	iP	17 05 11.8 C					iSKP	23 13 20.9		
			ipP	17 05 17.6				Gb	iSKP	23 13 39.3		
		Ka	iP	17 06 00.5				Um	iPKP	23 10 53.5		
			i	17 06 03.4					iSKP	23 13 14.4		
			iPcP	17 06 25.7				Ka	iSKP	23 13 40.6		
		Aleutian Islands.						New Hebrides Islands				
		h = 20 km (Up, Um).						(h = 640 km).				
		Magn. = 6.4 (Up, Ki).						The amplitudes of PKP and SKP exhibit a remarkable variation at our stations, as evidenced by the following table:				
"	10	Up	iP	21 28 56.1					D	PKP Z'	SKP Z'	
		Ki	eP	21 29 02						microns	microns	
		Sk	iP	21 29 21.6								
		Um	iP	21 28 53.0				Ki	122°	0.13	0	
		Ka	iP	21 29 02.1 C				Um	125	0.34	0.07	
		Afghanistan-USSR						Sk	126	0.06	0.14	
		(h = 140 km).						Up	128	0.01	0.77	
"	10	Up	i(PKP)	22 50 58.6				Gb	131	0	0.24	
			iPKP	22 51 07.3				Ka	132	0	0.69	
			iSKP	22 53 51.0								
				microns sec				"	11	Up	i(PKP2)	00 31 36.3
			SKP	Z' 0.5 1.5							iPKP2	00 31 44.1
		Ki	i(PKP)	22 50 44.8								microns sec
			iPKP	22 50 50.9							PKP2	Z' 0.1 1.0
			i	22 52 58.8				Ki	ePKP	00 30 56		
			ipPKP	22 53 07					i	00 31 00.6		
			iSKP	22 53 25.7					i	00 31 09.4		
			iPKS	22 54 13								microns sec
				microns sec							PKP	Z' 0.7 1.5
			PKP	Z' 0.2 1.3					M	E 1.1 20		
			SKP	Z 1.5 5					M	N 0.7 20		
			SKP	Z' 1.9 2.0					M	Z 1.7 19		
			PKS	E 0.9 6				Sk	iPKP	00 31 12.5		
		Sk	i(PKP)	22 50 54.8					iPKP2	00 31 41.3		
			iPKP	22 51 04.0				Gb	iPKP2	00 32 01.9		
			i(SK P)	22 53 39.4				Um	iPKP	00 31 07.7		
			iSKP	22 53 42.6				Ka	iPKP2	00 31 58.2		
		Gb	iPKP	22 51 06.8				New Zealand (h = 5 km).				
			iSKP	22 53 55.1				Note that PKP dominates at				
		Um	i(PKP)	22 50 49.7								
cont.						cont.						

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1965					1965				
Apr. cont.	11	the nearer of our stations (Ki, Um), but PKP2 at the more distant stations (Up, Ka, Gb), while Sk (intermediate) records both phases.			Apr.	11	Up	iPKP	19 10 06.1 D
									microns sec
								PKP	Z' 0.6 0.7
						Ki	ePKP	19 09 47	
							i	19 09 53.9	
						Sk	iPKP	19 09 59.2	
						Gb	iPKP	19 10 16.6	
"	11	Um	iP	01 48 28.1			i	19 10 20.2	
							ipPKP	19 12 21.7	
"	11	Up	iPKP	02 30 21.2		Um	iPKP	19 09 54.6	
		Sk	iPKP	02 30 15.1		Ka	iPKP	19 10 17.2	
		Um	iPKP	02 30 09.2 C			i	19 10 21.7	
		Kermadec Islands (h = 70 km).					ipPKP	19 12 21.7	
							South of Fiji Islands. h = 560 km (Gb,Ka).		
"	11	Ki	i	05 09 45.4					
			iSg	05 10 10.7	"	11	Up	iP	22 43 04.6 C
		Sk	eSg	05 12 43			ipP	22 43 18.0	
		Um	iSg	05 11 03.4					microns sec
		Northwest Russia. Explosion?					P	Z' 0.1 0.5	
"	11	Ki	iP	05 12 17.0		Ki	iP	22 42 58.4	
		Revilla Ggedo Islands (h = 30 km).				Sk	iP	22 43 21.1	
						Um	iP	22 42 56.9 C	
"	11	Um	iP	07 42 48.0 C			ipP	22 43 10.1	
						Ka	iP	22 43 13.0 C	
							ipP	22 43 26.5	
"	11	Up	iP	14 38 13.8		India. h = 50 km (Up,Um,Ka).			
		Szechwan (h = 30 km).			"	12	Up	iP	02 05 12.9 C
"	11	Gb	iPKP	17 13 07.3	"	12	Up	iP	04 10 09.6
		Santa Cruz Islands (h = 80 km).					Ki	iP	04 09 15.5
									microns sec
"	11	Up	iPKP	17 21 14.5			P	Z' 0.1 1.5	
		Sk	iPKP	17 21 08.8		Sk	iP	04 09 41.9	
		Um	iPKP	17 21 02.9		Gb	eP	04 10 23	
		Kermadec Islands. Origin time = 17 01 36. This interpretation agrees with readings in the New Zealand network.				Um	iP	04 09 44.6	
						Ka	iP	04 10 32.5	
						Kodiak Island (h = 30 km).			
"	11	Up	iPKP	17 23 24.9	"	12	Up	iP	04 47 08.9
			i	17 23 34.2			Ki	iP	04 46 15.9
							Um	iP	04 46 42.4
						Aleutian Islands (h = 15 km).			
					"	12	Up	iP	04 54 06.8
							Ki	iP	04 53 12.9 C
							Um	iP	04 53 40.3 C
						Aleutian Islands (h = 20 km).			
					"	12	Up	iPKP	09 11 08.3
							Ki	iPKP	09 10 49.5
							Sk	iPKP	09 11 01.2

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	12	Gb	ePKP2	09 11 27	Apr.	12	Gb	iPKP	20 45 57.2
cont.		Um	iPKP	09 10 55.5	cont.		Um	iPKP	20 45 36.7
				South of Kermadec Islands			Ka	iPKP	20 45 59.2
				(h = 20 km).					South of Kermadec Islands
"	12	Ki	iP	09 21 46.3	"	12	Up	iP	20 52 30.2
				Unimak Island (h = 40 km).				i(X)	20 52 51.4
"	12	Um	iP	10 36 40.3				iPP	20 55 33.8
"	12	Um	iP	11 06 52.4				iS	21 01 45
"	12	Um	iP	11 42 23.7					microns sec
"	12	Um	iP	13 11 52.9			Ki	iP	Z' 0.4 0.8
"	12	Um	iP	15 30 05.0					20 51 57.4 C
"	12	Um	iPKP	15 32 54.1					microns sec
				South of Kermadec Islands					Z' 0.1 0.9
				(h = 10 km).			Sk	iP	20 52 26.9
"	12	Up	iP	16 02 03.5				iPP	20 54 03.5
		Ki	iP	16 01 25.5				iPP	20 55 25.9
		Sk	iP	16 01 59.5			Gb	iP	20 52 49.0
		Um	iP	16 01 42.1				iX	20 53 13.8
				Japan (h = 80 km).				iS	21 02 22.8
"	12	Up	iPn	17 28 53.7 D			Um	iP	20 52 11.4 C
			iSn	17 29 42.3				iX	20 52 36.3
			iSg	17 29 58.2				iPP	20 53 49.0
				D = 400 km = 3.6°.				iS	21 01 09
		Um	eSg	17 31 26			Ka	iP	20 52 46.5
				Northwest Russia,					South of Japan,
				68.8°N, 30.0°E.					h = 440 km (Sk,Um).
				Origin time = 17 28 00.	"	12	Up	iPKP	21 47 47.5
				Explosion?			Ki	iPKP	21 47 25.4
"	12	Up	iP	18 32 03.0			Sk	iPKP	21 47 41.7
"	12	Up	iP	19 18 01.0 C				iPKP2	21 48 02.9
			iS	19 20 47.6			Gb	iPKP2	21 48 16.1
				microns sec			Um	iPKP	21 47 36.2
				P Z' 0.1 0.5					South of Kermadec Islands
				D = 1650 km = 15°.					(h = 30 km).
		Ki	iP	19 19 26.3	"	13	Um	iP	04 01 26.3
		Um	iP	19 18 42.6					Japan (h = 80 km).
			eS	19 22 22	"	13	Up	eP	12 11 26
				Pumania (h = 60 km).	"	13	Up	iP	13 47 31.7
"	12	Up	iPKP	20 45 49.0	"	13	Ki	iP	15 33 03.0
			i	20 45 54.0			Um	iP	15 33 29.3
				microns sec				i	15 33 44.6
				PKP Z' 0.1 1.0					Aleutian Islands
		Ki	ePKP	20 45 31					(h = 40 km).
		Sk	iPKP	20 45 42.1	"	13	Up	iP	17 34 22.2 C
cont.					"	13	Up	iPKP	17 42 13.5
								i	17 42 24.2
									microns sec
									PKP Z' 0.1 0.9

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	13	Gb	ePKP	17 42 22	Apr.	14	Gb	iP	07 46 24.4
cont.			i	17 42 33.6	cont.			ipP	07 46 32.5
		Um	i(PKP)	17 41 52.3			Um	iP	07 45 46.3
			i	17 42 20.6				ipP	07 45 54.2
		Ka	iPKP	17 42 28.2			Kodiak Island.		
			i	17 42 39.1			h = 30 km (Up,Sk,Gb,Um).		
		Tonga-Kermadec Islands							
		(h = 30 km).			"	14	Up	iP	10 31 14.5
"	13	Up	iP	17 56 04.0					microns sec
				microns sec				P	Z' 0.1 0.7
			P	Z' 0.3 1.4			Sk	iP	10 30 54.7
		Ki	iP	17 55 10.8 C			Um	iP	10 31 09.9
				microns sec			Ka	iP	10 31 17.6
			P	Z' 0.1 1.0			Mexico (h = 110 km).		
		Sk	iP	17 55 48.6	"	14	Up	iP	11 05 42.6
		Gb	iP	17 56 23.4					microns sec
		Um	iP	17 55 35.9 C				P	Z' 0.1 1.1
		Ka	iP	17 56 26.5			Gb	iP	11 06 02.7
		Kamchatka (h = 30 km).					Um	iP	11 05 14.4 C
		Magn. = 6.0 (Up,Ki).						ipP	11 05 21.2
							Kamchatka. h = 25 km (Um).		
"	13	Up	iP	18 06 34.6	"	14	Up	iPKP	12 09 11.7
		Ki	iP	18 05 43.3			Sk	iPKP	12 09 04.6
		Um	iP	18 06 07.3			Um	iPKP	12 08 58.6
		Aleutian Islands					South of Kermadec Islands		
		(h = 30 km).					(h = 30 km).		
"	13	Up	iP	20 45 29.0	"	14	Up	iP	13 06 40.1
"	13	Up	iP	21 17 15.5				i	13 06 44.6
		Aleutian Islands							
		(h = 40 km).			"	15	Up	iP	05 21 17.5 C
"	13	Up	iP	21 55 01.6					microns sec
"	13	Up	iP	23 33 42.3				P	Z' 0.3 0.5
		Ki	iP	23 32 48.5			Sk	iP	05 21 20.3
				microns sec			Gb	iP	05 21 36.8 C
			P	Z' 0.1 1.4			Um	iP	05 21 01.3 C
		Gb	iP	23 33 56.8				iPcP	05 21 17.5
		Um	iP	23 33 16.9			Ka	iP	05 21 31.1
			iPcP	23 33 56.3			Formosa (h = 190 km).		
		Unimak Island (h = 40 km).			"	15	Um	iP	07 57 10.0 C
"	14	Um	iP	02 56 45.3	"	15	Up	ePKP	08 04 11
			ipP	02 56 57.1				i	08 04 18.0
		Kurile Islands.					Sk	iPKP	08 04 06.9
		h = 50 km (Um).					Gb	iPKP	08 04 20.0
"	14	Um	eP	04 28 55			Um	iPKP	08 04 00.7
							South of Kermadec Islands		
							(h = 150 km).		
"	14	Up	iP	07 46 12.4 C	"	15	Up	iP	15 22 57.5
			ipP	07 46 19.5			Um	iP	15 22 29.1
		Sk	iP	07 45 45.4 C			Aleutian Islands		
			ipP	07 45 53.9			(h = 40 km).		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	15	Ki	iPn	16 43 57.3 C	Apr.	17	Up	iP	00 11 14.0
			iSn	16 44 45.3				ipP	00 11 26.2
			iSg	16 45 01.4					microns sec
			D = 410 km	= 3.7°.				P	Z' 0.2 0.9
		Sk	eSg	16 47 46			Sk	iP	00 10 54.6
		Um	i	16 46 10.8			Gb	iP	00 11 31.7
			iSg	16 46 31.1			Um	iP	00 10 46.1
				Northwest Russia,				ipP	00 10 58.4
				69.0°N, 30.1°E.			Ka	iP	00 11 37.5
				Origin time = 16 43 00.					Aleutian Islands.
				Explosion?					h = 50 km (Up,Um).
"	15	Ki	eL	23 14	"	17	Up	iP	02 56 59.7
				microns sec				ipP	02 57 07.1
		M	E	1.1 20					microns sec
		M	N	1.3 23				pP	Z' 0.1 1.0
		M	Z	1.9 20			Um	iP	02 57 09.1 C
				Southeast Indian Rise				ipP	02 57 15.8
				(h = 30 km).					Indian Ocean.
									h = 30 km (Up,Um).
"	16	Gb	iPKP	00 35 13.8	"	17	Um	iP	03 16 49.7
		Ka	iPKP	00 35 16.8					
			i	00 35 27.1					
				Tonga Islands (h = 120 km).	"	17	Up	iP	03 48 01.5
"	16	Ki	iPKP	10 18 05.6			Um	iP	03 47 42.8
		Sk	iPKP	10 18 16.5					Scuth of Japan
				New Hebrides Islands					(h = 490 km).
				(h = 60 km).	"	17	Up	iP	06 19 58.2 C
"	16	Up	iP	14 44 52.9					Aleutian Islands
		Um	eP	14 44 25					(h = 50 km).
				Aleutian Islands	"	17	Up	iP	12 34 15.2
				(h = 40 km).					Aleutian Islands
"	16	Up	iP	23 31 57.4 C					(h = 40 km).
			i	23 32 12.9	"	17	Up	iP	19 17 19.6
			iS	23 39 42					Aleutian Islands
				microns sec					(h = 10 km).
			P	Z' 0.1 1.3	"	17	Up	eP	19 21 13
			S	E 1.1 6			Sk	iP	19 21 50.5
			M	E 5.1 22					Greece.
			M	N 8.5 24	"	18	Up	iPKP	02 53 01.8 D
			M	Z 4.3 22					South of Fiji Islands
			D = 6150 km	= 55½°.					(h = 470 km).
		Ki	--	--	"	18	Up	iP	06 45 39.5
				microns sec			Sk	eP	06 45 11
		M	E	7.4 23			Gb	iP	06 45 41.1
		M	N	4.8 23			Um	iP	06 45 21.6
		M	Z	6.6 18				i	06 45 26.5
		Sk	iP	23 31 29.5				i	06 45 31.5
			i	23 31 33.8					California (h = 20 km).
		Gb	iP	23 32 11.1	"	18	Up	iPKP	09 58 13.4
		Um	iP	23 31 28.4 C					cont.
			iS	23 38 50					
		Ka	iP	23 32 23.0 C					
				Alaska (h = 5 km).					
				Magn. = 5.8 (Up,Ki).					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
Apr. cont.	18	Up	i	09 58 20.9	Apr.	18	Up	iP	18 23 30.4 C	
				microns sec				ipP	18 23 41.1	
			PKP	Z' 0.1 0.5			Ki	iP	18 23 08.6	
			M	E 3.1 23			Sk	eP	18 23 50	
			M	N 2.6 21			Um	iP	18 23 16.6 C	
			M	Z 3.8 23				ipP	18 23 28.4	
		Ki	iPKP	09 58 28.0 C			Philippine Islands.			
			iPKS	10 01 55			h = 45 km (Up,Um).			
				microns sec		"	18	Up	iPKP 19 45 58.1	
			PKS	E 1.7 5				Um	iPKP 19 46 06.4	
			PKS	N 1.2 6			South Sandwich Islands			
			M	E 1.9 20			(h = 30 km).			
			M	N 3.3 20			"	18	Sk	e 23 20 51
			M	Z 6.4 21					iSg	23 21 14.8
		Sk	ePKP	09 58 22		"	18	Sk	e 23 20 51	
			i	09 58 52.1					iSg	23 21 14.8
		Um	iPKP	09 58 21.1 C		"	19	Up	iPKP 04 59 41.8	
			i	09 58 35.4				i	04 59 44.9	
			iPP	10 00 27			Sk	iPKP	04 59 34.4	
			iPKS	10 01 40			Um	iPKP	04 59 28.8	
		South Sandwich Islands					Kermadec Islands			
		(h = 30 km).					(h = 30 km).			
		Magn. = 6.2 (Up,Ki).				"	19	Up	iP 06 52 07.6	
"	18	Up	iPKP	13 00 49.9	"	19	Up	i	06 52 35.9	
				microns sec			Ki	iP	06 53 12.8 C	
			M	E 2.2 23			Sk	iP	06 52 46.2 C	
			M	N 2.8 20			Rhodes Island (h = 30 km).			
			M	Z 1.9 20		"	19	Ki	iP 07 24 57.8	
		Ki	iPKP	13 01 04.8			Alaska (h = 80 km).			
			ePKS	13 04 30		"	19	Up	iP 08 18 25.6	
				microns sec			Ki	iP	08 18 26.0	
			M	E 1.4 19				ipP	08 18 42.3	
			M	N 2.3 20					microns sec	
			M	Z 3.5 21				pP	Z' 0.2 1.3	
		Um	iPKP	13 00 58.5 D			Sk	iP	08 18 41.6	
			iPKS	13 04 14			Gb	iP	08 18 47.6	
		South Sandwich Islands					Um	eP	08 18 23	
		(h = 25 km).						i	08 18 28.8	
		Magn. = 6.1 (Up,Ki).						i	08 18 35.7	
"	18	Sk	iP	13 15 44.6			Sumatra (h = 60 km).			
		Central America				"	19	Ki	iP 09 01 52.3	
		(h = 30 km).					Alaska (h = 30 km).			
"	18	Up	iPKP	14 27 35.6	"	19	Ki	iP 16 19 01.1		
				microns sec			Aleutian Islands			
			PKP	Z' 0.1 1.0			(h = 15 km).			
		Ki	ePKP	14 27 22		"	19	Up	iSKP 17 21 34.6	
		Gb	iPKP	14 27 45.1			New Hebrides Islands			
		Um	iPKP	14 27 31.2			(h = 650 km).			
		Ka	iPKP	14 27 48.0 D		"	19	Sk	iPKP 18 37 15.8	
		Tonga-Kermadec Islands					Fiji Islands (h = 500 km).			
		(h = 30 km).				"	18	Um	iP 16 30 58.9 C	
"	18	Um	iP	16 30 58.9 C	"	19	Sk	iPKP 18 37 15.8		
			i	16 31 11.3			Fiji Islands (h = 500 km).			
			i	16 31 19.7						

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965							
Apr.	19	Up	iP	23 53 29.5 C	Apr.	20	Sk	iP	07 00 20.6		
			ipP	23 53 41.7			cont.	Gb	iP	07 00 58.0	
			iS	00 02 55				Um	iP	07 00 09.1	
				microns sec				Ka	iP	07 01 02.5	
			P	Z' 0.3 1.0				Kamchatka (h = 30 km).			
			S	N 0.8 4			"	20	Um	iP	07 05 35.1
			M	E 2.9 19					i	07 05 39.6	
			M	N 2.7 19				Japan (h = 40 km).			
			M	Z 5.7 18							
				D = 8150 km = $73\frac{1}{2}^{\circ}$.			"	20	Ki	eP	14 06 58
		Ki	iP	23 52 52.5							
			iS	00 01 47							
				microns sec							
			P	Z' 0.1 1.0			"	20	Um	iP	14 53 06.1
			S	E 0.8 7					i	14 53 17.6	
			S	N 1.4 8			"	20	Ki	iP	17 28 11.1
			M	E 9.5 17					Um	iP	17 28 19.8
			M	N 7.2 18				Mariana Islands			
			M	Z 11 17				(h = 60 km).			
				D = 7500 km = $67\frac{1}{2}^{\circ}$.			"	20	Um	iP	19 08 55.7
		Sk	iP	23 53 25.5			"	20	Ki	iP	22 32 59.7
		Gb	iP	23 53 50.0 C					Um	iP	22 33 28.9
		Um	iP	23 53 08.6 C				Aleutian Islands (h = 50 km).			
			iS	00 02 15							
			eSS	00 06 38			"	21	Up	iP	00 11 57.7
		Ka	iP	23 53 48.2					Ki	iP	00 11 31.9 C
			ipP	23 54 00.2					Sk	iP	00 11 59.9
		Japan. h = 50 km (Up,Ka).							Gb	iP	00 12 17.3
		Magn. = 6.3 (Up,Ki).							Um	iP	00 11 41.5 C
"	20	Up	iP	05 24 05.6 C				Ryukyu Islands (h = 100 km).			
		Tibet (h = 30 km).				"	21	Ki	ePn	05 47 28	
"	20	Up	iP	06 53 54.3 C					iSn	05 48 10.3	
			ipP	06 54 05.4					iSg	05 48 24.7	
				microns sec					D = 390 km = 3.5° .		
			P	Z' 0.2 0.9				Sk	eSg	05 51 04	
		Ki	iP	06 53 00.6 C				Um	iSn	05 48 55.8	
				microns sec					iS ^X	05 49 12.5	
			P	Z' 0.3 1.0					iSg	05 49 35.6	
			M	E 0.6 17					D = 610 km = 5.5° .		
			M	N 0.4 15				Northwest Russia,			
			M	Z 0.9 15				67.8°N, 29.8°E. Origin time =			
		Sk	iP	06 53 35.0				05 46 30. Explosion?			
		Gb	iP	06 54 12.3			"	21	Um	iP	07 55 53.3
			ipP	06 54 23.7			"	21	Um	iP	15 11 24.3 C
		Um	iP	06 53 26.6 C			"	21	Um	iP	16 25 12.0
			ipP	06 53 37.7			"	21	Um	iP	21 36 45.9
		Ka	iP	06 54 17.5 C				Kurile Islands (h = 30 km).			
			ipP	06 54 27.7			"	21	Up	iP	21 48 35.8
		Aleutian Islands.							Ki	iP	21 47 43.7
		h = 40 km (Up,Gb,Um,Ka).							Um	iP	21 48 09.9
		Magn. = 6.3 (Up,Ki).						Aleutian Islands (h = 40 km).			
"	20	Up	iP	07 00 37.5			"	21	Um	iP	22 11 35.3
		Ki	iP	06 59 42.9			"	21	Um	iP	23 03 43.9
				microns sec				Japan (h = 70 km).			
			P	Z' 0.1 0.8							

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	24	Up	iP	08 14 33.5	Apr.	24	Up	---	
			i	08 14 41.5				microns sec	
		Ki	iP	08 14 12.2 D			M	E 2.2 19	
				microns sec			M	N 1.4 18	
			M	E 0.8 18			M	Z 3.0 19	
			M	N 0.7 18		Ki	iP	22 08 19.7 C	
			M	Z 0.8 16				microns sec	
		Sk	iP	08 14 37.9			P	Z' 0.1 1.0	
		Um	iP	08 14 19.4 D			M	E 3.6 22	
			ipP	08 14 30.0			M	N 1.5 17	
		Philippine Islands					M	Z 2.5 18	
		(h = 40 km).				Sk	eP	22 08 44	
"	24	Sk	iP	10 30 35.7		Um	iP	22 08 29.3 C	
		Gb	iP	10 31 15.5 D				Caroline Islands (h = 60 km).	
		Um	iP	10 30 36.0	"	25	Ki	iP	00 31 48.3
		Kodiak Island (h = 60 km).					Um	iP	00 32 01.9
"	24	Um	iP	12 41 04.1					Volcano Islands (h = 80 km).
"	24	Ki	iPn	19 21 07.9	"	25	Up	iPKP	00 45 03.1
			iP*	19 21 16.6				i	00 45 16.2
			iSn	19 21 56.3			Ki	ePKP	00 44 47
			iSg	19 22 10.6			Sk	iPKP	00 44 56.9
			D = 430 km = 3.8°.				Um	iPKP	00 44 52.4 C
		Sk	iPn	19 22 19.0					South of Kermadec Islands
			eSn	19 24 02					(h = 30 km).
			eSg	19 24 57	"	25	Up	iP	01 12 44.9 C
			D = 990 km = 8.9°.				i	01 12 56.8	
		Um	iPn	19 21 44.8			iPP	01 16 02.0	
			iSn	19 23 02.4			iS	01 23 07	
			iS*	19 23 18.7				microns sec	
			iSg	19 23 39.1			P	Z' 0.2 0.8	
			D = 720 km = 6.5°.				S	E 1.5 7	
		Northwest Russia, 68.9°N,					S	N 0.7 4	
		30.7°E.					M	E 3.4 18	
		Origin time = 19 20 06.					M	N 3.2 22	
		Explosion?					M	Z 3.8 17	
"	24	Ki	eP	20 09 34				D = 9450 km = 85°.	
			ePP	20 11 08		Ki	iP	01 12 14.7 C	
		Sk	eP	20 09 46			iS	01 22 10	
		Um	iP	20 09 19.7				microns sec	
			i	20 09 24.1			P	Z 1.0 8	
		Hindu Kush (h = 30 km).					P	Z' 0.3 0.9	
"	24	Up	iP	20 23 25.5			S	E 3.5 8	
		Ki	iP	20 22 31.5 C			S	N 1.7 7	
				microns sec			M	E 4.6 18	
			P	Z' 0.1 0.9			M	N 5.5 21	
		Sk	iP	20 23 05.9			M	Z 8.1 18	
		Gb	iP	20 23 43.6				D = 8800 km = 79°.	
		Um	iP	20 22 57.5 C		Sk	iP	01 12 42.1 C	
		Aleutian Islands					i	01 12 50.4	
		(h = 25 km).					iPP	01 15 55.9	
						Gb	iP	01 13 02.6 C	
							i	01 13 09.8	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Apr. cont.	25	Um	iP	01 12 28.0 C	Apr.	25	Up	iP	14 18 09.4 C
			iS	01 22 33				i	14 18 28.2
		Ka	iP	01 13 01.1 C			Ki	iP	14 17 36.5
		Volcano Islands (h = 15 km).							microns sec
		Magn. = 6.2 (Up,Ki).						P	Z' 0.1 1.0
"	25	Up	iP	01 27 12.6			Sk	iP	14 18 05.1
							Gb	iP	14 18 27.2
"	25	Ki	iP	01 53 28.1			Um	iP	14 17 50.4
		Um	iP	01 53 55.4				i	14 17 50.8
		Aleutian Islands (h = 50 km).					Ka	iP	14 18 25.4
							Bonin Islands (h = 50 km).		
"	25	Ki	iP	01 59 04.9	"	25	Up	iP	14 42 36.3
		Sk	iP	01 59 32.3			Ki	iP	14 41 48.5
		Um	iP	01 59 18.3			Um	iP	14 42 10.5 D
			i	01 59 23.7			Kurile Islands (h = 30 km).		
"	25	Ki	iP	02 35 15.5 C	"	25	Up	iP	15 03 48.6
		Um	iP	02 35 04.3	"	25	Ki	iP	15 33 40.5
			ipP	02 35 51.0				ipP	15 33 51.2
		Hindu Kush. h = 230 km (Um).							microns sec
							P	Z' 0.1 1.3	
"	25	Up	ePKP	03 05 28			Um	iP	15 34 06.1
			i	03 05 34.9				ipP	15 34 16.8
		Sk	iPKP	03 05 21.4			Aleutian Islands. h = 40 km (Ki,Um).		
			i	03 05 38.4					
		Um	iPKP	03 05 16.6 C	"	25	Ki	iP	15 42 33.8
		South of Kermadec Islands (h = 30 km).						ipP	15 42 44.4
							Um	eP	15 43 00
"	25	Up	iP	05 50 01.8				ipP	15 43 10.8
			ipP	05 50 24.0			Aleutian Islands. h = 40 km (Ki,Um).		
		Ki	iP	05 50 03.4 C	"	25	Up	eP	16 46 51
			ipP	05 50 24.6			Ki	iP	16 47 30.0
		Um	iP	05 49 58.8			Um	eP	16 47 05
			ipP	05 50 20.1			Iran (h = 30 km).		
		Nicobar Islands. h = 80 km (Up,Ki,Um).			"	25	Up	eP	21 26 33
"	25	Ki	iP	08 49 28.0 C			Ki	iP	21 25 39.5
		Sk	iP	08 50 01.2 C				iPcP	21 26 23.5
		Gb	iP	08 50 38.7			Um	eP	21 26 06
		Um	iP	08 49 54.0 C				iPcP	21 26 39.4
		Aleutian Islands (h = 50 km).					Aleutian Islands (h = 40 km).		
"	25	Ki	iP	10 12 23.5	"	25	Up	iP	21 40 21.4
				microns sec					microns sec
			P	Z' 0.1 1.5			M	E	0.9 16
		Um	iP	10 11 58.8			M	N	1.0 17
		Lake Tanganyika (h = 15 km).					M	Z	1.4 15
"	25	Um	iP	12 50 37.9			Ki	iP	21 39 50.5
			ipP	12 50 49.1					microns sec
		Volcano Islands. h = 45 km (Um).					M	E	1.5 20
							M	N	0.8 17
							M	Z	2.5 20

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr. cont.	25	Um	iP	21 40 02.9	Apr.	26	Ki	iP	13 38 40.1 C
				Ryukyu Islands (h = 30 km).			Sk	eP	13 38 56
"	25	Ki	iPKP	22 04 55.9			Um	iP	13 38 42.9
				South Sandwich Islands (h = 30 km).				i	13 38 55.7
"	26	Up	iP	02 07 24.1	"	26	Up	i(P)	15 35 41.3 C
		Ki	iP	02 06 30.3					microns sec
		Sk	iP	02 06 54.4				(P)	Z' 0.1 0.5
		Gb	iP	02 07 34.5	"	26	Ki	iP	19 37 06.8
		Um	iP	02 06 58.4			Um	iP	19 37 11.4
		Ka	iP	02 07 46.8					Molucca Sea (h = 120 km).
				Alaska.	"	26	Up	iP	20 39 49.6 C
				Origin time = 01 57 03.					microns sec
"	26	Up	iP	02 07 34.9 D				P	Z' 0.3 1.0
				microns sec				M	E 0.8 20
				P	Z' 0.1 1.4			M	N 1.4 18
		Ki	iP	02 06 40.8				M	Z 1.5 19
				microns sec			Ki	iP	20 38 56.4 C
				P	Z' 0.2 1.3			eS	20 47 07
				M	E 0.8 17				microns sec
				M	N 0.7 18			P	Z' 0.6 1.1
				M	Z 1.3 18			S	N 0.2 8
		Sk	iP	02 07 06.3				M	E 1.1 22
		Gb	iP	02 07 45.7				M	N 0.8 18
		Um	iP	02 07 08.8				M	Z 1.7 19
				iS	02 14 59				D = 6450 km = 58°.
		Ka	iP	02 07 58.0			Sk	iP	20 39 25.7 C
				Alaska (h = 30 km).			Gb	iP	20 40 04.2 C
				Magn. = 5.8 (Up,Ki).			Um	iP	20 39 23.6
				The P-phases of this shock have amplitudes which are 2.5-5.0 times those of the preceding shock. An alternative interpretation would be that these P are instead pP to the preceding earthquake.				i	20 39 43.3
								iP'P'	21 08 31.7
							Ka	iP	20 40 13.4 C
									Alaska (h = 50 km).
									Magn. = 6.5 (Up,Ki).
"	26	Ki	iP	09 07 25.2	"	26	Gb	eP	21 17 38
		Sk	eP	09 07 59					Unimak Island (h = 30 km).
		Um	iP	09 07 51.4	"	26	Um	eP	21 48 33
				Aleutian Islands (h = 30 km).					Kurile Islands (h = 30 km).
"	26	Ki	eP	10 00 59	"	26	Up	iP	22 12 12.0 D
				microns sec					Iran (h = 30 km).
				M	E 1.0 19	"	26	Up	iP
				M	N 0.7 21				iS
				M	Z 1.3 18				
		Um	eP	10 01 02					
				ePP	10 05 04				
									microns sec
								P	Z' 0.4 1.0
								S	E 1.6 10
								S	N 2.2 10
								M	E 15 17
								M	N 9.8 18
"	26	Up	iP	11 32 23.9					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	26	Up	microns sec		Apr.	27	Ki	iP	01 01 21.8
cont.			M Z 18 16				Um	iP	01 01 13.2
			D = 8650 km = 78°.						Kashmir (h = 140 km).
		Ki	iP 22 27 18.7 D		"	27	Um	iP	02 29 19.1 C
			ipP 22 27 31.0						Japan (h = 30 km).
			ePa 22 31 53		"	27	Um	iP	07 30 38.9
			iS 22 36 53		"	27	Up	iP	11 08 56.6
			microns sec				Ki	iP	11 08 20.6 C
			P E 0.5 7					ePP	11 12 38
			P Z 1.1 5				Sk	eP	11 08 41
			P Z' 0.4 1.1					ePP	11 12 45
			pP Z' 0.5 1.1				Um	iP	11 08 25.5 C
			S E 2.1 11						Banda Sea (h = 70 km).
			S N 2.3 9		"	27	Ki	eP	11 51 04
			M E 13 18						Kodiak Island (h = 25 km).
			M N 7.0 17		"	27	Up	iP	13 47 08.0
			M Z 15 18		"	27	Up	iP	14 14 21.5 D
			D = 8300 km = 74 1/2°.					i	14 14 43.9
		Sk	iP 22 27 44.6 D					iS	14 18 37
			iPP 22 30 47.0						microns sec
		Gb	iP 22 27 59.1 D						P N 1.1 5
		Um	iP 22 27 26.0 D						P Z' 0.1 0.6
			ipP 22 27 37.3						S E 2.8 6
			iPa 22 32 07						S N 6.3 8
			iS 22 37 05						M E 3.6 11
		Ka	iP 22 27 52.7						M N 11 18
			Formosa. h = 45 km (Ki,Um).						M Z 8.6 18
			Magn. = 6.4 (Up,Ki).						D = 2700 km = 24 1/2°.
			The group velocities of Pa				Ki	iP	14 15 31.1 D
			are 8.53 km/sec both to Ki					iS	14 20 39
			and Um, i.e. a rather extreme						microns sec
			continental velocity. Compare						P Z' 0.3 0.8
			Bâth and Lopez Arroyo, Geofis.						S E 1.1 8
			pura e appl., 56: 67-92, 1963.						S N 1.0 8
"	26	Up	iP 22 35 07.8						M E 9.5 13
		Um	iP 22 34 54.0						M N 7.0 16
			ipP 22 35 04.4						M Z 13 17
			Formosa. h = 40 km (Um).						D = 3550 km = 32°.
"	26	Up	iPKP 22 46 55.1				Sk	iP	14 15 00.1 D
			i 22 47 00.8					iS	14 19 47.0
			i 22 47 08.4				Gb	iP	14 14 10.6 D
		Sk	iPKP 22 46 47.8					eS	14 18 23
		Gb	iPKP 22 47 13.5				Um	iP	14 14 54.9 D
		Um	iPKP 22 46 42.8 C					i	14 15 22.3
			i 22 46 54.5					iS	14 19 37
		Ka	ePKP 22 47 18				Ka	iP	14 13 47.0
			e 22 47 26					iS	14 17 39.6
			Kermadec Islands (h = 30 km),						Crete (h = 50 km).
"	26	Up	eP 23 09 08						Magn. = 5.8 (Up,Ki).
			Aleutian Islands (h = 50 km).						
"	27	Um	iP 00 46 01.4						

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Apr.	27	Up	iP	15 00 47.7	Apr.	28	Sk	ePKP	14 45 13
			i	15 00 52.6			Ka	eP	14 41 05
			iPcP	15 01 16.6				i	14 41 06.9
				microns sec					Banda Sea (h = 160 km).
			P	Z' 0.1 0.5					
		Ki	iP	15 00 01.2 D	"	28	Um	iP	16 43 45.5
				microns sec					Japan (h = 80 km).
			P	Z' 0.1 1.0					
		Sk	iP	15 00 37.0 D	"	28	Up	iPKP	17 01 45.2
		Um	iP	15 00 22.5 D				i	17 02 12.6
			iPcP	15 01 00.5					Tonga-Kermadec Islands
				Okhotsk Sea (h = 430 km).					(h = 30 km).
"	27	Up	iPKP	15 06 11.5	"	28	Up	iP	17 42 23.6
		Gb	iPKP	15 06 24.2			Gb	i(P)	17 42 09.9
				South of Fiji Islands					
				(h = 410 km).	"	29	Up	iP	09 52 09.0
"	27	Um	iP	19 57 20.7					microns sec
"	27	Up		---				M	E 1.4 18
				microns sec				M	N 0.8 14
			M	E 1.5 25				M	Z 1.5 16
			M	N 0.9 21		Ki	iP		09 53 14.9
			M	Z 2.5 25					microns sec
		Um	eS	20 33 51				M	E 2.2 17
				Off coast of Ecuador			Sk	eP	09 52 40
				(h = 30 km).			Gb	iP	09 51 59.9
"	27	Um	iP	21 45 37.7				i	09 52 12.1
"	28	Up	iP	01 36 37.7			Um	eP	09 52 31
		Ki	iP	01 35 44.1				e	09 52 41
				Aleutian Islands (h = 50 km).					Dodecanese Islands
"	28	Ki	iPn	07 25 09.8					(h = 30 km).
			iPg	07 25 18.6	"	29	Gb	iPKP	10 03 03.3 D
			iSn	07 25 56.3			Um	iPKP	10 02 51.4
			iSg	07 26 11.6				iSKP	10 05 29.8
				D = 410 km = 3.7°			Ka	iPKP	10 03 05.2
		Sk	eSg	07 29 00					South of Fiji Islands
		Um	iSg	07 27 49.6					(h = 540 km).
				Northwest Russia, 69.5°N,	"	29	Um	iP	11 32 11.4
				29.6°E.					Mariana Islands (h = 130 km).
				Origin time = 07 24 09.	"	29	Up	iPKP	11 48 02.6 C
				Explosion?				i	11 48 09.2
"	28	Up	iPKP	10 46 19.1			Sk	iPKP	11 47 57.0 C
		Ki	ePKP	10 45 59			Um	iPKP	11 47 50.4
				Tonga-Kermadec Islands				i	11 47 51.7
				(h = 30 km).					South of Kermadec Islands
"	28	Up	iP	12 19 10.7					(h = 60 km).
		Ki	iP	12 18 43.1	"	29	Up	iP	15 39 39.0 D
		Sk	iP	12 19 12.2				ipP	15 39 57.9
		Gb	iP	12 19 29.9				iS	15 48 31
		Um	iP	12 18 53.8				eP'P'	16 07 50
				Ryukyu Islands (h = 30 km).	cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965								
Apr.	29	Up	microns	sec	Apr.	29	Up					
			P	N 2.1 3			iP	16 01 30.6				
			P	Z 2.6 2			iFP	16 05 32.1				
			P	Z' 2.1 1.0				microns sec				
			pP	E 0.8 4			P	Z' 0.2 0.6				
			pP	N 2.6 5		Ki	iP	16 01 24.9				
			pP	Z 4.7 6				microns sec				
			S	E 21 9			P	Z' 0.1 0.7				
			S	N 13 10		Sk	iP	16 01 41.7 D				
			P'P'	Z 5.0 7			iPP	16 05 53.1				
			P'P'	Z' 1.0 2.0		Gb	iPP	16 05 57.6				
			M	E 9.0 19		Um	iP	16 01 24.6				
			M	N 18 18			i	16 01 25.4				
			M	Z 23 19			iPP	16 05 16.9				
			D = 7550 km = 68°.			Ka	ePP	16 05 38				
		Ki	iP	15 38 56.8 D		Java Sea (h = 500 km).						
			ipP	15 39 15.2		Magn. = 6.3 (Up,Ki).						
			iS	15 47 13		"	29	Up				
			iP'P'	16 08 05.4				iP	19 18 02.5			
								i	19 18 18.9			
				microns sec		"	29	Up	iP	21 23 51.5		
			P	E 1.0 5		"	29	Up	iPKP	22 51 53.2		
			P	N 1.3 5				Sk	iPKP	22 51 47.2		
			P	Z 6.5 5				Gb	iPKP	22 52 00.7		
			P	Z' 2.4 1.5				Um	iPKP	22 51 42.2 C		
			pP	E 2.2 5				South of Kermadec Islands				
			pP	N 2.8 6				(h = 30 km).				
			pP	Z 6.9 6				"	30	Ki	iPg	03 12 43.7 C
			S	E 38 10							iS*	03 13 09.9
			S	N 18 9							iSg	03 13 12.6
			S	Z 7.4 8								microns sec
			P'P'	Z 4.7 6							Sg	Z' 0.2 0.5
			M	E 19 22							D = 240 km = 2.2°.	
			M	N 11 17				Sk	i(Pg)	03 13 15.6		
			M	Z 22 20					iSg	03 14 16.0		
			D = 6850 km = 61 1/2°.					Um	iSg	03 14 23.0		
		Sk	iP	15 39 10.6					i	03 14 27.3		
			eS	15 47 45				Northwest coast of Norway,				
			eP'P'	16 07 59				67.7°N, 14.9°E.				
		Gb	iP	15 39 42.6				Origin time = 03 12 00.				
			ipP	15 40 00.1				"	30	Up	eP	06 12 31
			eP'P'	16 07 41				"	30	Sk	iP	07 23 42.2
			i	16 07 49.5						Um	iP	07 23 19.0
		Um	iP	15 39 19.6 D				India-China (h = 30 km).				
			i	15 39 35				"	30	Ki	ePn	11 20 29
			ipP	15 39 39.2							iSg	11 21 04.1
			iS	15 47 55							D = 240 km = 2.2°.	
			iP'P'	16 07 57.8				Sk	iSg	11 22 03		
			i	16 08 18.5				Um	iPn	11 20 58.7		
		Ka	iP	15 39 55.9					iSg	11 22 12.0		
			ipP	15 40 14.3				D = 490 km = 4.4°.				
			iP'P'	16 07 41.6								
			i	16 07 44.8								
		Washington State, USA.										
		h = 70 km (Up,Ki,Gb,Um,Ka).										
		Magn. = 7.2 (Up,Ki).										

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965

Apr. 30 Northwest coast of Norway,
cont. 67.7°N, 14.9°E.
Origin time = 11 19 49.

" 30 Up iP 11 57 05.1
Ki iP 11 57 14.6
Sk iP 11 56 53.3 C
Venezuela (h = 90 km).

" 30 Up iP 16 11 50.4
Um iP 16 11 24.1
Ka iP 16 12 14.1
Aleutian Islands
(h = 30 km).

" 30 Um iP 19 41 53.5
i(pP) 19 42 06.3
South of Japan
(h = 40 km).

" 30 Ki eSg 22 29 09.2
Sk eSg 22 31 41
Um i 22 29 58.3
iSg 22 30 04.9
Northwest Russia,
67.5°N, 30.7°E.
Origin time = 22 27 00.
Explosion?

Markus Båth
December 14, 1965

Seismological Institute
Uppsala

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,
UMEÅ and KARLSKRONA

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

M A Y 1 - 31, 1965
.....

1965	May	1	Up	iP	02 04 56.0	1965	May	1	Up	eP	04 23 23	
					microns sec				Ki		---	
				M	E 1.1 15						microns sec	
				M	N 0.9 12					M	E 1.3 16	
				M	Z 0.9 12					M	N 0.6 19	
			Ki	iP	02 06 02.1					M	Z 1.2 16	
					microns sec				Um	iP	04 22 58.2	
				M	E 0.9 15					iS	04 32 35	
			Sk	eP	02 05 35					South of Japan (h = 40 km).		
			Gb	iP	02 04 47.4			"	1	Ki	ePKP 08 56 42	
				i	02 04 57.7					Um	iPKP 08 56 51.3	
			Um	iP	02 05 27.8					New Zealand (h = 170 km).		
			Ka	iP	02 04 21.2				"	1	Ki	iP 13 15 47.5
			Turkey (h = 30 km).									microns sec
"		1	Up	iP	02 08 05.7					M	E 0.5 18	
				ipP	02 08 11.2					M	N 0.5 17	
			Ki	iP	02 07 09.7 C				Um	iP	13 15 58.2	
					microns sec					i	13 16 01.8	
				P	Z' 0.1 1.0					Mariana Islands (h = 5 km).		
			Sk	iP	02 07 36.5 C			"	1	Ki	eL 19 48	
			Gb	iP	02 08 16.8 C						microns sec	
			Um	iP	02 07 38.9 C					M	E 0.5 16	
			Ka	iP	02 08 28.1					M	N 0.3 13	
			Alaska. h = 20 km (Up).							M	Z 0.6 16	
"		1	Up	iP	02 27 29.6 D					East China Sea (h = 110 km).		
				i	02 27 39.1							
					microns sec				"	1	Up	iP 21 18 22.0 D
				P	Z' 0.1 0.7				"	1	Up	iP 21 37 55.2 C
			Ki	iP	02 26 53.9 D						iS	21 46 03
			Sk	iP	02 27 25.0							microns sec
			Gb	iP	02 27 49.4					P	Z' 0.1 1.0	
			Um	iP	02 27 09.3 D					D = 6600 km = 59.1/2°.		
			South of Japan (h = 230 km).						Ki	iP	21 36 59.9 C	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965						
May	1	Ki	iS	21 44 14	May	2	Up	iPKP	11 10 25.8 C		
cont.				microns sec			Ki	ePKP	11 10 18		
			P	Z' 0.2 1.0			Sk	ePKP	11 10 19		
			S	N 0.4 10			Um	ePKP	11 10 17		
			M	E 0.7 19				i	11 10 26.5		
			M	N 0.8 19			Ka	iPKP	11 10 36.6		
			M	Z 1.3 20			Fiji Islands (h = 580 km).				
			D = 5700 km = 51 1/2°.			"	2	Up	eP	22 38 40	
		Sk	iP	21 37 25.9 C			Ki	iP	22 39 49.8 C		
			ipP	21 37 30.5			Sk	iP	22 39 18.8		
		Gb	iP	21 38 06.3			Um	iP	22 39 14.1		
			ipP	21 38 10.9			Ka	iP	22 38 05.3		
		Um	iP	21 37 28.3 C			Crete (h = 40 km).				
			ipP	21 37 33.8			"	2	Up	iSg	22 48 46.2
			iS	21 45 14			Ki	iPn	22 45 53.3		
		Ka	iP	21 38 18.4 C				iS ^x	22 46 34.0		
			ipP	21 38 22.9				iSg	22 46 38.8		
		Alaska. h = 20 km (Sk, Gb, Um, Ka).						D = 310 km = 2.8°.			
		Magn. = 5.5 (Up, Ki).					Sk	ePg	22 46 01		
"	2	Up	iP	00 15 21.5				iSg	22 46 42.0		
		Ki	iP	00 14 45.7 C				D = 320 km = 2.9°.			
			iS	00 24 10			Um	iPn	22 46 05.7 C		
				microns sec				iSn	22 46 54.8		
			M	E 0.7 19				i(S ^x)	22 47 10.1		
			M	N 0.3 15				iSg	22 47 14.3		
			M	Z 0.9 17				D = 440 km = 4.0°.			
			D = 8050 km = 72 1/2°.				Nordlands Fylke, Norway, 66.6°N, 14.0°E.				
		Sk	iP	00 15 23.3			Origin time = 22 45 05.				
		Um	iP	00 15 01.5 C			"	3	Um	iPKP	01 28 11.2
		South of Japan (h = 30 km).						e	01 39 10		
"	2	Um	iP	00 46 30.2			Chile-Argentina (h = 80 km).				
		South of Japan (h = 30 km).				"	3	Up	eP	04 08 51	
"	2	Up		---				i(pP)	04 08 58.3		
				microns sec			Ki	iP	04 09 37.9		
			M	E 2.5 19			Um	iP	04 09 12.7		
			M	N 3.9 21				i(pP)	04 09 19.5		
			M	Z 1.7 18			South Atlantic Ocean (h = 30 km).				
		Ki		---			"	3	Ki	i(Sg)	04 49 36.5
				microns sec			"	3	Up	iP	10 14 22.4
			M	E 2.4 18				iSKS	10 24 51		
			M	N 3.3 18					microns sec		
			M	Z 2.7 17				M	E 1.4 19		
		Um	iS	07 34 22				M	N 1.6 20		
			eSS	07 39 06				M	Z 4.0 24		
		Ryukyu Islands (h = 30 km).					Ki	eP	10 14 10		
		Magn. = 6.0 (Up, Ki).						eSKS	10 24 20		
"	2	Up	iP	09 15 41.8					microns sec		
		Ki	iP	09 14 52.3				P	Z' 0.1 1.3		
		Um	iP	09 15 15.1							
		Sakhalin (h = 5 km).									

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
May cont.	3	Ki	microns sec	May	4	Up	eP 05 18 38
		SKS	E 1.2 12			Ki	eP 05 19 23
		SKS	N 0.7 10			Sk	eP 05 19 19
		M	E 2.6 20			Iran (h = 15 km).	
		M	N 2.8 17	"	4	Ka	iP 07 59 37.4
		M	Z 4.1 16	"	4	Up	i(P) 08 42 27.4
		Sk	iP 10 14 00.6				iP 08 42 33.6 C
		Um	iP 10 14 17.1				i(PP) 08 44 06
			i 10 14 27.1				iPP 08 44 12.8
			iS 10 24 52				i 08 47 52
		Ka	eP 10 14 24				iS 08 48 39
		El Salvador (h = 25 km).					iSa 08 51 14
		Magn. = 5.8 (Up,Ki).					iScS 08 52 37
"	3	Sk	iPKP 11 18 17.4				iLgl 08 56 03
		Um	iPKP 11 18 12.2				microns sec
		Kermadec Islands					P Z' 0.5 1.1
		(h = 30 km).					S E 0.3 5
"	3	Ki	iP 12 54 52.6				M E 4.9 9
		Um	iP 12 55 17.8				M N 3.9 13
		Aleutian Islands					M Z 8.2 12
		(h = 40 km).					D = 4550 km = 41°.
"	3	Up	iP 17 51 49.2 C			Ki	i(P) 08 42 20.9 C
			microns sec				iP 08 42 27.7
		P	Z' 0.1 0.5				i 08 42 32.0
		Ki	iP 17 50 55.3 C				ePP 08 43 59
			ipP 17 51 08.5				ePcS 08 48 18
			microns sec				iS 08 48 28
		P	Z' 0.1 0.9				eSS 08 51 28
		Sk	iP 17 51 28.4 C				eLgl 08 55 44
		Gb	iP 17 52 05.1				microns sec
		Um	iP 17 51 21.3 C				P Z' 0.3 1.5
			ipP 17 51 34.3				M E 24 13
		Ka	eP 17 52 11				M N 12 14
		Aleutian Islands.					M Z 29 13
		h = 50 km (Ki,Um).					D = 4500 km = 40 1/2°.
		Magn. = 5.9 (Up,Ki).				Sk	i(P) 08 42 46.4 C
"	3	Up	iP 21 14 00.8				iP 08 42 52.9 C
		Um	iP 21 13 41.2			Gb	iP 08 42 58.8 C
		South of Japan					i 08 43 03.5
		(h = 90 km).					iPP 08 44 35.8
"	3	Um	iP 22 07 44.8 D				i 08 54 25.2
"	3	Um	iP 22 36 44.3			Um	i(P) 08 42 17.5
"	4	Ki	iP 00 13 25.9				iP 08 42 23.9 C
		Um	iP 00 13 22.2				iPP 08 43 52.1
		Sumatra (h = 40 km).					iLi 08 54 15
"	4	Ki	iPKP 03 59 44.6			Ka	e(P) 08 42 42
		South Sandwich Islands					iP 08 42 44.2 C
		(h = 30 km).					iPP 08 44 25.4
"	4	Ki	iPKP 03 59 44.6			Kirghiz-Sinkiang	
		South Sandwich Islands				(h = 5 km).	
		(h = 30 km).				Magn. = 5.9 (Up,Ki).	
						The P-phase is multiple, the	
						time difference P - (P) =	
						6.5 sec and the amplitude	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
May cont.	4	ratio P/(P) = 3-6 (Up,Ki, SK,Um), the probable reason being <u>two</u> shocks in the same place. This earthquake has given exceptionally well developed higher-mode surface waves at our stations.		May.	5	Up iP 23 36 41.6 Ki iP 23 36 14.2 Um iP 23 36 25.8 Mariana Islands (h = 60 km).	
"	4	Ki eP 17 53 19		"	6	Up iP 00 26 14.6	
"	4	Ki iSg 18 13 48.4 Sk iSg 18 13 52.8 Um iSn 18 13 58.0 iSg 18 14 16.0 D = 420 km = 3.8°. Nordlands Fylke, Norway, 66.7°N, 14.0°E. Origin time = 18 12 11.		"	6	Ki iPn 05 26 50.3 iSn 05 27 45.5 iSg 05 28 08.9 D = 510 km = 4.6°. Sk e(Sg) 05 30 48 Um iSn 05 28 30.9 iSg 05 29 18.3 D = 720 km = 6.5°. Northwest Russia, 68.1°N, 32.5°E. Origin time = 05 25 38. Explosion?	
"	4	Um iP 22 50 12.0 South of Japan (h = 180 km).		"	6	Up iPg 10 03 07.0 iSg 10 03 23.6 iRg 10 03 28.2 D = 140 km = 1.3°. Sk iSg 10 04 41.6 Um iSg 10 05 02.7 Near Ludvika, central Sweden, 60.2°N, 17.0°E. Origin time = 10 02 41. 48	
"	5	Ki eL 18 24 microns sec M E 0.7 15 M N 0.4 15 M Z 0.7 13 East China Sea (h = 30 km).		"	6	Up iPg 13 20 57.6 eSg 13 21 11 D = 110 km = 1.0°. Sk eSg 13 23 35 Um iSg 13 23 10.9 Baltic Sea, off Swedish coast, 59.3°N, 19.1°E. Origin time = 13 20 38. Probably underwater explosion.	
"	5	Up iP 20 42 20.1		"	6	Um i(P) 14 50 43.5 C	
"	5	Up iP 21 44 59.1 Ki iP 21 44 14.5 C Sk iP 21 44 49.9 Um iP 21 44 34.5 iPcP 21 45 06.9 Japan (h = 30 km).		"	6	Ki iPg 16 29 05.6 i 16 29 17.5 iSg 16 29 22.4	
"	5	Up iP 23 12 48.0 C microns sec P Z' 0.2 0.8 Ki iP 23 11 54.4 C i(pP) 23 12 08.7 microns sec P Z' 0.1 0.9 M N 0.8 19 M Z 1.0 18 Sk iP 23 12 28.4 C Gb iP 23 13 05.9 C Um iP 23 12 20.1 C Ka iP 23 13 11.7 C Aleutian Islands (h = 30 km). Magn. = 6.0 (Up,Ki).		"	6	Up iP 23 50 38.4 Ki iP 23 50 21.3 Um iP 23 50 27.1 Mindanao (h = 550 km).	
"	5	Up iP 23 12 48.0 C microns sec P Z' 0.2 0.8 Ki iP 23 11 54.4 C i(pP) 23 12 08.7 microns sec P Z' 0.1 0.9 M N 0.8 19 M Z 1.0 18 Sk iP 23 12 28.4 C Gb iP 23 13 05.9 C Um iP 23 12 20.1 C Ka iP 23 13 11.7 C Aleutian Islands (h = 30 km). Magn. = 6.0 (Up,Ki).		"	7	Ki iP 01 10 12.4 Um iP 01 09 50.7 i 01 09 58.1 Iran (h = 30 km).	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
May	7	Ki	iP	02 41 54.6	May	7	Ki	iPn	16 33 43.0
		Um	iP	02 42 05.5				iPg	16 33 52.4
		Mariana Islands						iSn	16 34 31.4
		(h = 60 km).						iSg	16 34 45.2
"	7	Up		---				D = 400 km = 3.6°.	
				microns sec			Sk	eSg	16 37 35
		M	E	0.6 15			Um	eSg	16 36 19
		M	N	0.6 13			Northwest Russia,		
		M	Z	0.7 14			69.2°N, 29.6°E.		
		Ki		---			Origin time = 16 32 45.		
				microns sec			Explosion?		
		M	E	0.8 16					
		M	N	0.7 16		"	7	Up	iPKP 16 52 18.4 C
		M	Z	1.0 14				iX	16 52 32.9
		Um	eSS	07 56 56				microns sec	
		East China Sea (h = 130 km).						PKP Z'	0.2 1.5
		It is remarkable that					Ki	iPKP	16 52 01.2
		surface waves seem to be					Sk	iPKP	16 52 12.8 C
		better recorded than P waves						i	16 52 26.8
		(especially at Ki) in this					Gb	ePKP	16 52 23
		earthquake as well as in two						iX	16 52 39.1
		preceding earthquakes in the					Um	iPKP	16 52 08.2 C
		same area, (May 1, 19 48,						iX	16 52 21.7
		and May 5, 18 24), even if					Ka	ePKP	16 52 40
		the focal depth is more than					South of Kermadec Islands		
		100 km in at least two of					(h = 30 km).		
		these cases.					"	7	Up
"	7	Um	iP	11 47 57.1				iPKP	17 12 00.6
"	7	Ki	iPKP	13 21 18.6				iX	17 12 19.0
			i(sPKP)	13 22 03.5			Ki	ePKP	17 11 42
		Um	iPKP	13 21 11.7			Sk	ePKP	17 11 57
		South Sandwich Islands					Gb	ePKP	17 12 10
		(h = 100 km).					Um	iPKP	17 11 49.7
"	7	Ki	iP	14 39 56.7				iX	17 12 08.8
		Kirghiz (h = 30 km).					Ka	iPKP	17 12 22.2
"	7	Up	iP	14 47 20.5 C			South of Kermadec Islands		
			i	14 47 49.1			(h = 30 km).		
		Ki	iP	14 48 27.4			If the phases marked X in this		
		Sk	iP	14 48 00.1			and the preceding case are		
		Ka	iP	14 46 49.4			interpreted as pPKP, this		
		Dodecanese Islands					would mean somewhat greater		
		(h = 160 km).					depth to the foci.		
"	7	Up	iPKP	16 03 10.9 C			"	7	Up
		Ki	iPKP	16 02 56.5				iP	21 32 19.6 C
		Sk	iPKP	16 03 05.0 C				Sk	eP
		Gb	iPKP	16 03 18.6				Um	iP
		Um	iPKP	16 03 00.6 C					i
			i	16 03 05.4					
		South of Kermadec Islands					"	7	Ki
		(h = 30 km).							iPg
								iSg	22 21 44.6
								D = 80 km = 0.7°.	
							Sk	eSg	22 23 58
							Um	eSg	22 23 08
							Gällivare, north Sweden,		
							67.1°N, 20.3°E.		
							Origin time 22 21 22.		
							Mine explosion?		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
May	7	Um	iP i	23 27 41.7 23 27 54.1	May	10	Ki Um	iSg iSn iSg	05 27 40.1 05 28 25.2 05 29 03.3
"	8	Um	iSKS iS i iSS Chile (h = 80 km).	00 20 56 00 22 29 00 24 10 00 30 16	"	10	Um	iP	10 34 52.9
"	8	Up Ki	iP iP	01 29 13.3 01 28 03.3	"	10	Up	iP	11 42 12.1
				microns sec	"	10	Up	iP	14 51 32.5 D
				M E 0.3 15	"	11	Ki	iP	05 51 00.4
		Sk	iP i	01 28 49.5 01 28 58.3	"				Caspian Sea (h = 30 km).
		Gb	iP	01 29 38.7	"	11	Ki Sk	iP iP	06 46 37.4 C 06 47 08.4
		Um	eP	01 28 37	"				Kazakh SSR.
		Ka	iP i	01 29 46.3 01 29 58.9	"				Underground explosion?
				Arctic Ocean (h = 30 km).	"	11	Ki	e(P)	08 17 27
"	8	Up	iP	03 17 45.2 C	"	11	Sk	iP	08 17 42.1
				microns sec	"				Puerto Rico (h = 70 km).
				P Z' 0.1 0.7	"	11	Up	iP	10 49 31.2
				M E 0.6 21	"	11	Ki	iP	12 14 35.8
				M N 0.7 17	"				Aleutian Islands
		Ki	iP	03 17 25.4 C	"				(h = 30 km).
				microns sec	"	11	Up	iP	17 47 30.3
				M E 0.5 16	"				iS
				M N 0.9 23	"				microns sec
				M Z 0.7 17	"				P Z' 0.1 0.5
		Sk	iP	03 17 51.0	"				D = 6450 km = 58°.
		Gb	iP	03 18 03.3	"				Ki
		Um	iP	03 17 31.9 C	"				iP
		Ka	iP	03 17 57.1 C	"				ipP
				Luzon (h = 60 km).	"				iS
				Magn. = 6.0 (Up,Ki).	"				microns sec
"	8	Up	iP	07 33 37.3	"				pP Z' 0.1 1.0
"	9	Um	iP i	14 24 04.4 14 24 10.2	"				M E 0.5 15
				South of Panama (h = 60 km).	"				M N 0.8 22
"	9	Up Ki	iSg eS ^x	23 34 13.6 23 31 34	"				M Z 1.6 22
				iSg	"				D = 5650 km = 51°.
		Sk	eSg	23 34 05	"	Sk	iP	17 47 02.1	
		Um	eS ^x	23 32 03	"		ipP	17 47 17.0	
				iSg	"	Gb	eP	17 47 43	
				Kola Peninsula, 66 1/4° N, 39° E.	"		i	17 47 48.2	
				Origin time 23 27 53.	"	Um	iP	17 47 04.2	
"	10	Up Gb	iPKP iPKP	00 09 45.0 00 09 55.8	"		ipP	17 47 19.4	
				South of Fiji Islands (h = 560 km).	"		i	17 47 26.9	
					"		eS	17 54 54	
					"	Ka	iP	17 47 55.0	
					"		i	17 48 16.7	
					"				Alaska.
					"				h = 60 km (Ki,Sk,Um).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
May	11	Up	iP 22 39 26.9 i 22 39 38.1 iS 22 42 07.3 D = 1650 km = 15°.	May	12	Up	ePKP 17 31 07 South of Fiji Islands (h = 560 km).
		Ki	iP 22 40 52.1 iS 22 44 56.3 eLgl 22 47 13 D = 2450 km = 22°.	"	12	Um	iP 23 28 19.0
		Sk	iP 22 40 23.3 eS 22 44 05 iLgl 22 46 07.2	"	13	Um	iP 00 19 31.6 Puerto Rico (h = 30 km).
		Um	iP 22 40 10.4 iS 22 43 22.3	"	13	Ki	eP 01 36 23
		Ka	iP 22 39 03.3 i 22 39 20.8 iS 22 41 09.4 Rumania (h = 80 km).	"	13	Um	iP 04 38 13.3 Ka iP 04 38 20.8 Hindu Kush (h = 90 km).
"	12	Sk	eP 00 39 14 Japan (h = 170 km).	"	13	Up	iP 11 00 15.9 Ki iP 11 00 19.3 C Sk iP 11 00 38.1 Um iP 11 00 12.3 C Ka iP 11 00 21.6 C Napal-India (h = 30 km).
"	12	Up	iP 10 47 43.4 iPKP 10 51 54.2 iSKS 10 58 08 eS 10 59 15 microns sec M E 0.6 20 M N 1.1 21 (D = 11900 km = 107°).	"	13	Up	iP 11 35 10.6 C
		Ki	iP 10 47 27.7 C iPKP 10 51 47.0 iSS 11 06 18 microns sec P Z' 0.1 1.3 PKP Z' 0.2 2.0 M E 0.8 16 M N 0.7 21 M Z 1.4 21 (D = 11550 km = 104°).	"	13	Up	iPg 14 23 56.7 eSg 14 24 12 eRg 14 24 18 D = 130 km = 1.2°. Possibly underwater explosion in the Baltic Sea.
		Sk	ePKP 10 51 57	"	13	Gb	iP 14 28 55.0 C
		Gb	ePKP 10 52 37	"	13	Up	iP 16 11 37.0 C
		Um	iP 10 47 33.0 iPKP 10 51 50.4 iSKS 10 57 54 iS 10 59 00	"	13	Ki	iP 16 47 30.2 Um iP 16 47 51.6 Kurile Islands (h = 70 km).
		Ka	iPKP 10 52 18.1 Banda Sea (h = 130 km).	"	13	Up	iP 19 34 24.7 D microns sec P Z' 0.1 0.5 Ki iP 19 33 49.5 D Sk iP 19 34 20.9 Um iP 19 34 04.2 D Ka iP 19 34 42.3 Japan (h = 320 km).
"	12	Um	iP 11 41 44.5	"	13	Up	iP 21 13 52.3 i 21 13 57.9 Greece-Albania (h = 30 km).
"	12	Um	iP 11 54 29.2 ipP 11 54 38.1 Bonin Islands. h = 35 km (Um).	"	13	Ki	eP 22 58 10
"	12	Ki	eP 15 51 04	"	14	Up	iPKP 02 08 12.1 Kermadec Islands (h = 80 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
May	14	Up	iP	09 57 09.8	May	16	Um	eP	00 12 35
				Aleutian Islands	cont.			i	00 12 40.8
				(h = 50 km).					New Guinea (h = 30 km).
"	14	Up	iP	17 01 20.0 C	"	16	Up	iP	01 41 19.8
				Aleutian Islands					microns sec
				(h = 30 km).				M	E 0.3 11
"	15	Um	iP	04 09 01.3				M	N 0.8 14
				Japan (h = 340 km).				M	Z 0.9 14
"	15	Ki	iP	09 38 02.9			Ki	iP	01 42 25.0
									microns sec
"	15	Ki	iP	10 04 21.8				M	E 0.4 12
								M	N 0.3 14
"	15	Um	i(Sg)	11 58 53.4				M	Z 0.5 14
							Sk	iP	01 41 59.0
"	15	Ki	ePKP2	16 59 05			Gb	eP	01 41 19
			i	16 59 10.0			Um	eP	01 41 52
		Um	iPKP2	16 59 13.7			Ka	iP	01 40 53.0
			eSS	17 22 36					South of Rhodes Island
				New Zealand (h = 15 km).					(h = 30 km).
"	15	Ki	iP	18 49 40.3	"	16	Ki	eSn	05 13 42
		Um	iP	18 49 01.3				iSg	05 14 02.6
				Caucasus (h = 30 km).			Um	eSg	05 14 52
"	15	Up	iP	21 12 08.7					Probably northwest Russia.
		Ki	iP	21 11 15.3					Explosion?
				microns sec	"	16	Ki	iP	05 51 03.2
			P	Z' 0.1 1.2			Um	iP	05 51 21.2
		Sk	iP	21 11 49.5					Colombia (h = 180 km).
		Gb	iP	21 12 26.0	"	16	Um	iPKP	06 14 43.0
		Um	iP	21 11 41.3					Santa Cruz Islands
				Aleutian Islands					(h = 170 km).
				(h = 10 km).	"	16	Up	iP	11 35 09.2
"	15	Up	iP	22 53 48.2				iS	11 39 45
				Aleutian Islands					microns sec
				(h = 30 km).				S	N 0.3 5
"	15	Um	iPKP	23 51 54.9					D = 2850 km = 25 1/2°.
				Tonga Islands (h = 250 km).			Ki	iP	11 35 59.2
"	16	Up	eP	00 12 53			Um	iP	11 35 33.5
				microns sec				iS	11 40 36
			M	E 1.1 20					Turkey (h = 30 km).
			M	N 1.1 18	"	16	Up	iP	11 45 39.0 D
			M	Z 1.2 19					microns sec
		Ki	iP	00 12 29.9				P	Z' 0.1 0.9
				microns sec			Ki	iP	11 44 51.5
			M	E 1.1 20			Sk	iP	11 45 26.9
			M	N 1.0 20			Um	iP	11 45 13.5 D
			M	Z 1.9 20					Kurile Islands (h = 10 km).

cont.

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Ka = Karlskrona

1965				1965							
May	18	Up	iP	01 16 29.0	May	19	Up	iPKP	03 19 46.7		
				microns sec			Ki	iPKP	03 19 34.7 C		
				P Z' 0.1 1.0			Sk	iPKP	03 19 45.5		
		Ki	iP	01 17 02.2			Um	iPKP	03 19 40.0		
				microns sec			Ka	iPKP	03 19 53.2		
				P Z' 0.2 1.4			Solomon Islands (h = 50 km).				
		Sk	iP	01 16 52.3		"	19	Up	iP	03 21 57.8	
		Gb	iP	01 16 28.4			Ki	iP	03 21 04.2		
		Um	iP	01 16 44.5 D			Um	iP	03 21 30.1		
		Ka	iP	01 16 15.2			Aleutian Islands (h = 50 km).				
		Madagascar (h = 30 km).									
		Magn. = 5.8 (Up,Ki).					"	19	Up	iPKP	04 40 44.8
"	18	Um	iP	08 16 37.0			Ki	iPKP	04 40 39.9		
		Volcano Islands (h = 10 km).					Gb	i	04 41 18.6		
"	18	Um	iP	08 43 46.0			Um	ePKP	04 40 42		
"	18	Um	iPKP	09 54 45.0				iPKS	04 44 17.8		
			i	09 54 56.8			Ka	iPKP	04 40 59.4		
		South of Kermadec Islands (h = 30 km).						i	04 41 22.3		
		South of Fiji Islands (h = 30 km).					"	19	Ki	iSn	05 22 03.9
"	18	Up	eL	12 50				iSg	05 22 22.0		
				microns sec			Possibly northwest Russia. Explosion?				
			M	E 0.4 14			"	19	Ki	iP	06 17 10.4 C
			M	N 0.7 15						microns sec	
			M	Z 0.6 13				M	E	0.9 18	
		Ki	eL	12 45				M	N	0.7 16	
				microns sec				M	Z	1.0 18	
			M	E 0.9 15			Sunda Strait (h = 70 km).				
			M	N 0.6 16			"	19	Up	iPg	10 55 38.8
			M	Z 0.8 14				i	10 55 40.2		
		East China Sea (h = 30 km).						iSg	10 55 53.2		
		Compare remark to an East China Sea earthquake on May 7, 07 56.						D = 120 km = 1.1°.			
"	18	Um	iP	19 49 17.7			Um	iSg	10 57 55.3		
		Costa Rica (h = 30 km).					Baltic Sea, off Swedish coast, 59°N, 19°E.				
"	18	Up	iP	22 12 49.0			Origin time = 10 55 17. Probably underwater explosion.				
"	18	Up	iP	22 57 30.3			"	19	Up	iP	18 07 06.7
		Ki	iP	22 56 45.8				Ki	iP	18 06 19.5 C	
		Sk	eP	22 57 24				Um	iP	18 06 41.2	
			e	22 57 49			Kurile Islands (h = 30 km).				
		Gb	iP	22 57 52.9			"	19	Up	iP	22 18 08.2 C
		Um	iP	22 57 06.6						microns sec	
		Kurile Islands (h = 50 km).						P	Z' 0.1 1.0		
"	18	Um	iPKP	23 47 18.8 C			Ki	iP	22 17 14.9 C		
		South of Kermadec Islands (h = 370 km).					Sk	iP	22 17 48.3		

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965						1965				
May	22	Um	i	16 21 53.5		May	23	Ki	iP	07 59 09.4 D
cont.				South Atlantic Ocean		cont.				microns sec
				(h = 30 km).					P	Z' 0.1 1.2
				Magn. = 5.6 (Up,Ki).				Sk	iP	07 58 41.3
"	22	Ki	i(Pn)	16 30 49.1 C						South Atlantic Ocean
				iSn 16 31 37.9						(h = 30 km).
				iSg 16 31 53.0						Magn. = 5.7 (Up,Ki).
				D = 380 km = 3.4°.		"	23	Up	iP	16 16 24.6 C
		Sk	eSg	16 34 42				Ki	iP	16 16 11.4
		Um	iSn	16 32 43.0						microns sec
			iSg	16 33 21.3					M	N 1.1 23
				D = 670 km = 6.0°.				Sk	eP	16 16 34
				Northwest Russia,						Yunnan (h = 30 km).
				68.7°N, 29.5°E.		"	23	Up	iP	23 57 03.1 C
				Origin time = 16 30 00.					iS	00 05 50.7
				Explosion?					iP'P'	00 25 10.2
"	22	Sk	iP	20 12 07.0					i	00 25 32.5
				Italy.						microns sec
"	22	Ki	iP	19 02 58.8					P	Z' 0.7 0.8
		Um	iP	19 03 17.3					S	E 0.4 7
				Japan (h = 40 km).					S	N 0.7 5
"	22	Up	iPKP2	22 34 45.0					P'P'Z'	0.1 1.2
		Ki	iPKP	22 34 14.9 C					M	E 2.2 19
				microns sec					M	N 8.1 23
				PKP Z' 0.1 1.2					M	Z 8.3 23
		Sk	ePKP	22 34 29				Ki	iP	23 56 09.7 C
		Um	iPKP	22 34 24.7					eS	00 04 12
									eP'P'	00 25 43
"	22	Ki	iPKP	23 46 28.3						microns sec
			i	23 46 40.0					P	N 0.7 6
		Um	iPKP	23 46 37.5					P	Z 1.2 5
"	23	Ki	iP	00 26 26.4					P	Z' 0.7 0.8
				Sinkiang.					S	E 0.8 9
"	23	Ki	iP	01 46 55.4					S	N 1.0 8
		Um	iP	01 47 21.2					P'P'Z'	0.1 1.5
				Aleutian Islands					M	E 3.3 20
				(h = 40 km).					M	N 4.4 23
"	23	Up	iP	01 57 54.9					M	Z 7.8 23
		Um	iP	01 57 36.2						D = 6550 km = 59°.
"	23	Up	iP	04 09 27.6				Sk	iP	23 56 43.7
		Ki	iP	04 08 45.4					i	23 56 49.6
		Um	iP	04 09 04.4 C				Gb	iP	23 57 21.4 C
			i	04 09 13.1				Um	iP	23 56 35.3 C
				East of Japan (h = 30 km).					iPcP	23 57 16.1
"	23	Up	iP	07 58 29.6 D					ePa	00 00 40
				microns sec					iS	00 04 57
			P	Z' 0.1 1.0					iP'P'	00 25 43.3
cont.								Ka	iP	23 57 27.3 C
										Aleutian Islands (h = 20 km).
										Magn. = 6.2 (Up,Ki).
						"	24	Ki	eP	03 45 45
								Sk	iP	03 46 33.4
										Laptev Sea (h = 15 km).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
May	24	Ki	iP	13 59 12.8	May	25	Up	iP	13 18 46.1 C
		Sk	iP	13 59 46.5			eS	13 27 43	
		Um	iP	13 59 30.4 C				microns sec	
			i	13 59 41.2			P	Z' 0.1 0.6	
				East of Japan (h = 30 km).			M	E 1.8 19	
"	24	Ki	eP	16 53 28			M	N 1.5 19	
		Um	iP	16 53 33.1			M	Z 1.5 19	
				Molucca Sea (h = 70 km).			D	= 7500 km = 67 1/2°.	
"	24	Up	iP	23 33 53.4 C		Ki	iP	13 17 54.7	
			ipP	23 34 03.4			eS	13 25 54	
			i	23 34 45.7				microns sec	
			iS	23 44 23			P	Z 0.5 6	
				microns sec			S	E 0.4 12	
			P	Z' 0.2 0.8			S	N 0.3 9	
			S	E 0.8 9			M	E 3.1 18	
			S	N 1.0 7			M	N 1.5 17	
			M	E 1.9 20			M	Z 3.6 17	
			M	N 3.1 19			D	= 6650 km = 60°.	
			M	Z 2.9 22		Sk	eP	13 18 26	
			D	= 9650 km = 87°.			i	13 18 51.9	
		Ki	iP	23 33 34.9 C		Gb	eP	13 19 02	
			ipP	23 33 43.7		Um	iP	13 18 20.5 C	
			iS	23 43 51			iPcP	13 18 55.3	
			iScS	23 44 06			iS	13 26 49	
				microns sec			ePS	13 27 10	
			P	E 0.4 6			iP'P'	13 47 13.6	
			P	Z 1.3 7			i	13 47 23.4	
			P	Z' 0.3 0.9		Ka	iP	13 19 10.4	
			pP	Z' 0.8 1.5			i(pP)	13 19 20.7	
			S	N 1.6 10			i	13 19 42.6	
			M	E 3.0 16				Aleutian Islands (h = 40 km).	
			M	N 1.9 18				Magn. = 5.7 (Up,Ki).	
			M	Z 3.4 19		"	25	Up	iPKP2 17 43 40.8
			D	= 9200 km = 83°.				Ki	iPKP 17 43 11.2 C
		Sk	iP	23 33 57.2 C					i 17 43 22.1
			ipP	23 34 10.8					microns sec
		Gb	iP	23 34 10.0 C					PKP Z' 0.1 1.0
			ipP	23 34 22.2			Sk	iPKP	17 43 25.7
		Um	iP	23 33 41.2 C			Um	iPKP	17 43 24.4
			ipP	23 33 51.0					New Zealand (h = 30 km).
			iPP	23 36 58		"	25	Up	---
			iS	23 44 01					microns sec
			iScS	23 44 13				M	E 0.8 20
		Ka	iP	23 34 04.7				M	N 0.6 20
			ipP	23 34 17.1				M	Z 0.7 21
				Samar. h = 40 km (Up,Ki,			Ki	iPKP	18 53 36.4
				Sk,Gb,Um,Ka).					microns sec
				Magn. = 6.2 (Up,Ki).				M	E 0.6 18
"	25	Ki	iP	01 42 19.3				M	N 0.4 18
			ipP	01 42 40.6				M	Z 1.2 22
		Um	iP	01 42 33.2			Um	eSS	19 13 15
			ipP	01 42 53.9					Fiji Islands (h = 15 km).
				Volcano Islands.		"	26	Up	iP 05 11 21.8
				h = 80 km (Ki,Um).					cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
May	26	Up	i	05 11 48.4	May	26	Ki	iP	14 22 56.1
cont.		Sk	eP	05 11 03			Um	iP	14 23 05.0
		Gb	iP	05 11 12.1		"	26	Um	iP
		Um	iP	05 11 19.9					14 24 00.2
		Guatemala (h = 40 km).				"	26	Um	iP
"	26	Up	iPKP	07 02 43.5		"	26	Ki	iP
			i	07 02 48.1				Sk	eP
			iPKP2	07 02 54.9				Um	iP
			microns sec						19 03 33.3
			PKP2 Z'	0.1 0.5					19 04 20
		Ki	iPKP	07 02 24.6 C		"	26	Up	iP
			microns sec						19 26 41.5
			PKP Z'	0.2 1.0					microns sec
		Sk	iPKP	07 02 39.1 C			Ki	iP	P Z' 0.1 0.9
			iPKP2	07 02 52.5			Sk	iP	19 25 48.2 C
		Gb	iPKP2	07 03 07.7			Um	iP	19 26 21.9 C
		Um	iPKP	07 02 34.2 C			Um	iP	19 26 14.4 C
		New Zealand (h = 60 km).					Ka	iP	19 27 05.2 C
							Aleutian Islands (h = 40 km).		
"	26	Up	iPKP2	08 53 26.7	"	26	Up	iPKP	20 02 47.5
		Ki	iPKP	08 52 56.6				ipPKP	20 03 18.8
			iPKP2	08 53 05.7				iPKKP	20 12 50.8
			microns sec					i	20 16 04.3
			PKP Z'	0.1 1.3				microns sec	
			PKP2 Z'	0.3 1.5				PKP Z'	0.1 0.6
		Sk	iPKP	08 53 10.7 C				M E	0.5 18
			iPKP2	08 53 21.9				M N	0.5 18
		Um	iPKP	08 53 06.3			Ki	iPKP	20 03 03.2 C
			iPKP2	08 53 17.5				ipPKP	20 03 33.1
		New Zealand (h = 50 km).						iSKP	20 06 09.2
"	26	Ki	ePn	10 46 02				microns sec	
			iSg	10 46 35.1				PKP Z'	0.5 1.0
			D = 210 km = 1.9°.					M E	0.7 20
		Sk	iSg	10 47 31.4				M N	1.0 20
		Um	i	10 47 29.8				M Z	1.6 20
			iSg	10 47 36.6			Sk	iPKP	20 02 52.7 C
		Nordlands Fylke, Norway, 67.1°N, 15.5°E. Origin time = 10 45 31.						ipPKP	20 03 24.2
"	26	Ka	eP	11 33 30			Gb	iPKP	20 02 42.0
"	26	Up	iP	14 04 09.6			Um	iPKP	20 02 56.1 C
			microns sec					i	20 03 02.2
			M N	0.8 19				ipPKP	20 03 26.8
		Ki	iP	14 04 55.1				ipPP	20 05 22.4
			microns sec					iPKS	20 06 17.7
			M E	0.9 18				i	20 11 46.3
			M N	0.8 18				i	20 15 54.9
			M Z	0.8 12			Ka	iPKP	20 02 41.3 C
		Sk	iP	14 04 47.9				ipPKP	20 03 12.6
		Um	iP	14 04 27.3				iPKKP	20 13 04.6
			i	14 04 48.9			South Sandwich Islands. h = 110 km (Up,Ki,Sk,Um,Ka).		
		Ka	iP	14 03 57.2		"	26	Up	iPKP
		Iraq (h = 50 km).							22 19 50.7
								i	22 19 59.9
							Sk	iPKP	22 19 45.9
								i	22 19 50.3
							cont.		

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1965				1965						
May cont.	26	Um	iPKP	22 19 40.6	D	May	28	Up	i	03 59 55.5
		Ka	iPKP2	22 20 15.2					eS ^x	04 00 11
		South of Kermadec Islands (h = 100 km).							iSg	04 00 19.9
									microns sec	
"	26	Up	iPKP	23 38 32.2				Ki	Sg Z'	0.3 0.6
									e	04 00 07
									i	04 00 27.9
			PKP	Z' 0.1 0.5					iSg	04 00 56.7
		Sk	iPKP	23 38 24.6				Sk	ePn	03 57 44
		Gb	iPKP	23 38 40.1					iSg	03 58 28.3
		Um	ePKP	23 38 20				Gb	eSn	03 59 39
		Ka	iPKP	23 38 42.5					iS ^x	04 00 08.1
		Kermadec Islands (h = 170 km).							iSg	04 00 15.2
								Um	ePn	03 58 30
									iP ^x	03 58 37.8
									iSn	03 59 31.7
"	26	Up	iP	23 43 03.0					iS ^x	04 00 11.6
		Ki	iP	23 42 14.3					iSg	04 00 16.6
		Sk	iP	23 42 52.8				Ka	eSn	04 00 36
		Um	iP	23 42 38.3					i	04 00 50.7
		Kurile Islands (h = 30 km).							iSg	04 01 23.0
"	27	Ki	eP	13 06 43				Coast of Norway. The agreement between these data and the BCIS solution is not quite satisfactory.		
		Unimak Island (h = 30 km).								
"	27	Up	iPKP	13 24 33.1	C					
			PKP	Z' 0.1 0.6		"	28	Up	iP	05 28 36.3
		Um	iSKP	13 27 19.5					ipP	05 28 46.3
		Ka	iPKP	13 24 44.0				Ki	eP	05 28 16
		South of Fiji Islands (h = 470 km).							ipP	05 28 24.7
								Sk	eP	05 28 52
								Um	iP	05 28 30.9
"	27	Up	iP	14 07 31.2				Philippine Islands. h = 40 km (Up, Ki).		
		Aleutian Islands (h = 30 km).								
"	27	Up	iP	19 40 13.8		"	28	Gb	iP	07 14 29.8
		Ki	iP	19 39 20.9				Um	iP	07 13 42.4
								Kurile Islands (h = 30 km).		
			P	Z' 0.1 1.3		"	28	Up	iP	09 38 30.6
		Sk	iP	19 39 48.2				Ki	iP	09 38 40.1
		Gb	iP	19 40 25.4				Sk	iP	09 38 56.1
			ipP	19 40 35.7				Gb	iP	09 38 51.7
		Um	iP	19 39 48.7				Um	iP	09 38 29.6
			iS	19 48 19				Ka	iP	09 38 35.1
		Ka	iP	19 40 36.1					ipP	09 39 33.5
			ipP	19 40 45.6					i	09 39 55.6
		South of Alaska. h = 40 km (Gb, Ka).						Hindu Kush. h = 290 km (Ka).		
"	27	Up	iP	22 40 38.3		"	28	Up	iP	14 19 58.8
		Ki	iP	22 39 44.6	C					
		Sk	iP	22 40 20.0		"	28	Up	iP	14 52 07.0
		Gb	iP	22 40 56.6						
		Um	iP	20 40 11.3	C	"	28	Up	iP	18 24 59.3
		Ka	iP	22 41 02.6	C					
		Aleutian Islands (h = 40 km).								

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1965					1965				
May	28	Ki	iP	18 24 06.1	May	29	Um	iP	12 06 29.8
cont.		Gb	iP	18 25 16.9			Panama-Colombia (h = 30 km).		
		Um	iP	18 24 31.0					
		Aleutian Islands (h = 70 km).			"	29	Up	iP	13 05 36.2
"	29	Up	iP	01 53 04.3	"	29	Um	iP	14 02 46.6
		Ki	iP	01 54 15.7	"	29	Ka	iP	14 13 36.0
			i	01 54 19.7	"	29	Up		---
		Sk	eP	01 53 43					microns sec
			i	01 53 50.8			M	E	1.1 23
		Ka	eP	01 52 31			M	N	1.2 20
			i	01 52 34.1			M	Z	1.6 20
		Crete (h = 70 km).							microns sec
"	29	Ki	eL	02 34			Ki	e	16 12 38
				microns sec					microns sec
		M	E	0.7 19			M	E	1.1 20
		M	N	0.5 19			M	N	1.0 20
		Indian Ocean (h = 70 km).					M	Z	2.6 23
"	29	Up	iP	04 20 14.2 C			Um	iSS	16 22 57
			i	04 20 17.3			South Pacific Ocean (h = 30 km).		
			iS	04 24 37			Magn. = 5.8 (Up,Ki).		
				microns sec	"	29	Up	iP	19 13 31.1
		P	Z'	0.1 1.1	"	29	Up	iP	22 49 26.4
		M	E	0.5 13			Hindu Kush (h = 200 km).		
		M	N	1.0 16	"	29	Ki		---
		M	Z	0.6 13					microns sec
		D = 2700 km = 24 1/2°.					M	E	0.4 16
		Ki	iP	04 21 24.6			M	N	0.4 15
				microns sec			M	Z	0.8 16
		P	Z'	0.1 1.0			Um	iP	23 00 41.9
		M	E	0.3 12			Iceland (h = 30 km).		
		M	N	0.3 13	"	30	Up	iP	01 25 11.2 C
		M	Z	0.6 13				ipP	01 25 20.9
		Sk	iP	04 20 52.4			Um	iP	01 24 43.5
		Gb	eP	04 20 02			Aleutian Islands. h = 40 km (Up).		
		Um	iP	04 20 48.7 C	"	30	Up	iPKP	02 46 41.2
		Ka	iP	04 19 39.1			South of Fiji Islands (h = 570 km).		
			i	04 19 43.2	"	30	Sk	iP	03 09 22.5
			iS	04 23 32.4	"	30	Um	iP	05 02 45.9
		Crete (h = 60 km).						i	05 02 59.3
		Magn. = 5.5 (Up,Ki).			"	30	Um	iP	05 57 09.2
		The Up PZ' exhibits a first arrival of lower frequency (period 1.1 sec), followed after 3.1 sec by waves of higher frequency (period 0.4 sec). Ka Z' shows a similar picture.							
"	29	Up	iP	09 28 14.2					
				microns sec					
		P	Z'	0.1 0.6					
		Ka	iP	09 28 49.7					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
May	30	Up	iP	08 58 29.6	May	31	Ki		microns sec
				Burma-India (h = 90 km).	cont.			P	Z' 0.1 1.0
"	30	Ki	iP	09 24 32.4				M	E 0.8 11
				Luzon (h = 50 km).				M	N 1.9 14
"	30	Ki	eSn	09 37 44				M	Z 1.3 12
			iSg	09 38 07.6			Sk	iP	02 13 40.8
		Sk	iSg	09 40 35.3			Gb	eP	02 13 40
		Um	i(S ^x)	09 38 52.6				i	02 13 44.3
			iSg	09 39 12.8			Ka	iP	02 13 23.4
				Northwest Russia.					Kashmir-Tibet (h = 30 km).
				Explosion?	"	31	Up	iP	03 31 40.1
"	30	Up	iP	11 46 00.8				i	03 31 46.4
			ipP	11 46 42.9			Sk	iP	03 31 11.3
		Ki	iP	11 46 11.2					Vancouver Island
			ipP	11 46 55.2					(h = 10 km).
		Sk	epP	11 47 08	"	31	Up	iP	04 11 38.6
		Ka	epP	11 46 36	"	31	Ki	iP	04 51 39.2
			i	11 46 47.6			Sk	iP	04 51 51.6
				Hindu Kush.					Afghanistan.
				h = 210 km (Up,Ki).	"	31	Up	iP	08 49 27.1 C
"	30	Gb	i(P)	13 04 27.3					microns sec
"	30	Up	eSS	14 01 34				P	Z' 0.3 0.7
		Ki	iP	13 57 02.7			Ki	iP	08 48 49.4 C
			i	13 57 09.2				iPP	08 51 13.6
		Sk	iP	13 57 09					microns sec
			i	13 57 19.6				P	Z' 0.2 0.9
			iS	13 59 04.5			Sk	PP	Z' 0.1 1.0
		Um	iP	13 57 38.7				iP	08 49 22.5 C
			iS	13 59 55.5				iPP	08 52 01.6
			iSS	14 00 27.0			Gb	iP	08 49 47.7 C
				Jan Mayen (h = 15 km).				ipP	08 50 14.3
"	30	Ki	iP	22 53 01.2			Ka	iP	08 49 45.7 C
"	31	Up	iP	00 20 44.5				i	08 49 53.6
			i	00 21 17.8					Japan.
		Ki	eP	00 20 11					h = 100 km (Gb).
		Sk	eP	00 20 34					Magn. = 6.2 (Up,Ki).
			i	00 20 45.4	"	31	Sk	eP	09 27 02
"	31	Up	iP	02 13 17.3					Italy (h = 30 km).
			eLg2	02 30 38	"	31	Up	iP	11 03 23.6
				microns sec			Ki	iP	11 02 29.0
		M	E	1.4 13			Sk	iP	11 02 56.9 D
		M	N	3.2 16					Kodiak Island (h = 30 km).
		M	Z	1.8 14	"	31	Ki	iP	11 35 06.6
		Ki	iP	02 13 21.2					South of Japan (h = 40 km).
			i	02 15 39.2	"	31	Up	iPKP	11 57 01.5
			iSS	02 23 57				iSKS	12 03 11
cont.					cont.				

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1965

May	31	Up		microns sec
cont.			M	E 0.8 21
			M	N 2.0 24
			M	Z 1.4 21
		Ki	iP	11 52 28.0
			iPKS	12 00 36
			iSKS	12 02 57
				microns sec
			SKS	E 0.9 7
			M	E 1.8 22
			M	N 0.9 19
			M	Z 1.8 21
		Banda Sea (h = 40 km).		
		Magn. = 5.8 (Up, Ki).		
"	31	Up	iP	14 14 45.0
"	31	Ka	iP	14 25 29.3 C
"	31	Up	iP	14 33 31.7
"	31	Sk	iP	15 10 32.7
		Atlantic Ocean (h = 30 km).		
"	31	Ki	eP	20 29 23
		Alaska (h = 30 km).		
"	31	Ki	iP	23 56 56.2
		New Zealand (h = 30 km).		

Markus Båth
 January 17, 1966

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,

UMEÅ and KARLSKRONA

Uppsala (Up): 59°51.5'N, 17°37.6'E; h = 14 m
 Kiruna (Ki): 67°50.4'N, 20°25.0'E; h = 390 m
 Skalstugan (Sk): 63°34.8'N, 12°16.8'E; h = 580 m
 Göteborg (Gb): 57°41.9'N, 11°58.7'E; h = 66 m
 Umeå (Um): 63°48.9'N, 20°14.2'E; h = 16 m
 Karlskrona (Ka): 56°09.9'N, 15°35.5'E; h = 11 m

JUNE 1 - 30, 1965

1965					1965				
June	1	Up	iP	04 43 29.4 C	June	1	Up	iP	08 01 45.4 C
			i	04 43 45.2				eS	08 09 06
			ipP	04 43 51.5					microns sec
				microns sec				P	Z' 0.1 0.9
			P	Z' 0.1 0.6				M	E 0.6 17
		Ki	iP	04 43 25.1				M	N 1.1 19
			ipP	04 43 45.2				M	Z 1.4 21
			i	04 43 51.5				D = 5950 km = 53 1/2°.	
				microns sec			Ki	iP	08 01 46.3 C
			P	Z' 0.1 1.0				eSa	08 13 40
		Sk	iP	04 43 45.2 C					microns sec
			ipP	04 44 07.7				P	Z' 0.1 0.9
		Gb	iP	04 43 48.2				M	E 1.5 18
			ipP	04 44 10.4				M	N 1.4 18
		Ka	iP	04 43 36.6				M	Z 2.5 18
			ipP	04 43 58.8			Sk	iP	08 02 05.6 C
		Burma. h = 80 km (Up,Ki,Sk, Gb,Ka).					Gb	iP	08 02 05.4 C
		Magn. = 6.0 (Up,Ki).					Ka	iP	08 01 51.1 C
		Searching bulletins, we find that our interpretation pP - P = 22 sec is confirmed by readings at 11 other stations, whereas only one station suggested pP - P = 16 sec. However, in our records we find a small phase about 16 sec after P, but P and pP are much larger. Other interpretations than the one given above are naturally possible.						i	08 01 55.1
								i	08 02 00.9
							Nepal (h = 30 km). Magn. = 5.8 (Up,Ki).		
					"	1	Up	iP	15 25 18.9
							Ki	iP	15 26 03.9
								i	15 26 09.2
							Azores Islands (h = 5 km).		
					"	1	Up	iP	15 36 45.6
					"	1	Up	iP	21 29 35.1
					"	1	Ki	iP	23 48 31.7 C
								i	23 48 39.7
							Sk	iP	23 48 36.6
								iS	23 50 25.3
							D = 1050 km = 9 1/2°.		
							Jan Mayen.		
							Origin time = 23 46 20.		
"	1	Ki	iPn	07 55 31.4					
			iSn	07 56 08.5					
			iSg	07 56 25.6					
		Probably northwest Russia. Explosion?							

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965					
June	2	Up	iPKP	05 31 24.3	June	2	Sk	iP	23 50 43.8	
				microns sec	cont.		Gb	iP	23 50 29.0 D	
			PKP	Z' 0.2 0.9			Ka	iP	23 50 38.3 D	
		Ki	i(PKP)	05 30 58.9				i	23 50 49.7	
			iPKP	05 31 13.9			North Atlantic Ocean			
			iSKP	05 33 54.6			(h = 30 km).			
				microns sec			Magn. = 6.0 (Up,Ki).			
		Sk	PKP	Z' 0.1 1.0		"	3	Up	iP	07 54 28.2 C
		Gb	iPKP	05 31 16.3				ipP	07 54 39.0	
			ipPKP	05 33 40.9					microns sec	
		Ka	iPKP	05 31 35.0				P	Z' 0.1 1.0	
			i	05 31 58.8			Ki	iP	07 53 34.5 C	
			ipPKP	05 33 42.5				ipP	07 53 45.3	
		South of Fiji Islands.							microns sec	
		h = 570 km (Gb,Ka).						P	Z' 0.2 1.0	
"	2	Up	iPKP	15 03 59.2			M	E	0.8 19	
			i	15 04 04.0			M	N	0.7 21	
			iSKP	15 06 42.9			M	Z	1.0 18	
		Ki	ePKP	15 03 52			Sk	iP	07 54 08.2 C	
			i	15 03 53.1			Gb	iP	07 54 45.1 C	
			iSKP	15 06 15.6			Ka	iP	07 54 51.3 C	
			ipKS	15 07 16.0				ipP	07 55 00.7	
				microns sec			Aleutian Islands.			
		Sk	SKP	Z' 0.1 1.2			h = 40 km (Up,Ki,Ka).			
			ePKP	15 03 52			Magn. = 5.9 (Up,Ki).			
		Gb	iSKP	15 06 33.4		"	3	Up	eP	11 08 37
			iPKP	15 04 07.1				Ki	iP	11 08 39.3 C
			iSKP	15 06 51.3					microns sec	
		Ka	iPKP	15 04 10.7				P	Z' 0.1 1.5	
		Fiji Islands (h = 640 km).						M	E	0.8 21
"	2	Up	iP	15 23 40.7 D				M	N	0.7 21
								M	Z	1.0 20
"	2	Up	iP	23 50 51.1 D			Sk	iP	11 08 21.7 C	
			iS	23 59 23				ipP	11 08 33.4	
				microns sec			Gb	iP	11 08 23.0	
			P	E 0.2 3				ipP	11 08 34.3	
			P	Z 0.5 3			Ka	iP	11 08 34.8	
			P	Z' 0.6 2.0				ipP	11 08 46.2	
			S	E 0.6 7			Dominican Republic.			
			S	N 1.2 7			h = 40 km (Sk,Gb,Ka).			
			M	E 2.4 18		"	3	Up	iP	15 38 13.9
			M	N 2.0 17		"	3	Up	iP	18 36 25.9
			M	Z 2.9 18				iS	18 40 08	
			D = 7000 km = 63°.						microns sec	
		Ki	iP	23 51 13.1				M	E 2.7 18	
			eS	00 00 03				M	N 1.5 13	
			iPS	00 00 28				M	Z 1.3 17	
				microns sec			D = 2300 km = 20 1/2°.			
			P	Z' 0.7 2.0			Ki	eP	18 37 31	
			S	N 1.3 9				i	18 37 48.1	
			M	E 5.4 22					microns sec	
			M	N 2.6 23				M	E 2.3 15	
			M	Z 6.3 22			cont.			
		D = 7400 km = 66 1/2°.					cont.			

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

Year	Month	Day	Station	Type	Time	Location	Height	Year	Month	Day	Station	Type	Time	Location	Height	
1965	June	6	Ki	eP	09 47 49			1965	June	8	Up	iS	14 03 15			
				i	09 47 56.7								microns sec			
				iT	09 53 21.6							M	E 0.5 18			
			Sk	iP	09 48 19.6							M	N 0.7 18			
				iS	09 50 00.0							M	Z 1.1 18			
			Jan Mayen-Spitsbergen									Ki	iP	13 52 16.0		
			(h = 30 km).											microns sec		
"		6	Up	iP	11 33 08.2 C							P	Z' 0.1 2.0			
			Ki	iP	11 32 45.5							M	E 1.1 17			
					microns sec							M	N 0.9 16			
				M	E 0.5 15							M	Z 1.0 14			
				M	N 0.3 13							Gulf of California				
				M	Z 0.4 13							(h = 30 km).				
			Sk	eP	11 33 14			"		8	Up	iP	23 35 21.7 C			
			Formosa (h = 40 km).										iPcP	23 35 48.5		
"		6	Sk	iP	15 52 32.6						Ki	iP	23 34 33.8			
			Ka	iP	15 51 21.6						Sk	iP	23 35 09.3			
			Crete (h = 90 km).								Gb	iP	23 35 41.6			
"		6	Up	iP	20 37 30.2						Ka	iP	23 35 44.0			
			Hindu Kush (h = 30 km).								Kurile Islands (h = 25 km).					
"		6	Up	iPKP	21 48 13.0			"		9	Ki	iP	01 21 26.0			
			South of Fiji Islands									Up	iP	13 37 39.2		
			(h = 420 km).									Ki	iP	13 36 45.4		
"		7	Up	iP	05 01 40.0							ipP	13 36 54.6			
			Kurile Islands (h = 70 km).										microns sec			
"		7	Up	iPKP	06 36 32.9							P	Z' 0.1 1.0			
				i	06 36 38.2						Sk	iP	13 37 19.8			
			Sk	iP	06 36 26.8						Gb	iP	13 37 56.9			
			Gb	iPKP	06 36 40.9						Ka	iP	13 38 02.8			
			Kermadec Islands									Aleutian Islands.				
			(h = 280 km).									h = 35 km (Ki).				
"		7	Ka	i(P)	06 50 45.7			"		9	Ka	iPg	13 56 26.4			
				i	06 50 52.2							iSg	13 56 51.1			
"		7	Up	iP	10 32 02.4						South Baltic. Explosion.					
			Ki	iP	10 32 01.5			"		9	Up	i(P)	15 04 18.5			
			Sumatra (h = 30 km).									Ki	i(P)	15 06 42.1		
"		7	Ki	iP	13 53 46.2			"		9	Up	iP	15 18 54.9			
			Sk	iP	13 53 32.4							Up	iPKP	16 14 20.0 D		
			Ethiopia (h = 40 km).										microns sec			
"		7	Up	iP	15 43 50.6							PKP	Z' 0.1 0.7			
"		7	Ki	iPg	19 50 29.0						Ki	ePKP	16 13 59			
				iSg	19 50 33.9							i	16 14 04.7			
			D = 40 km = 0.4°.									Sk	iPKP	16 14 16.3		
"		8	Ki	iP	06 25 26.5			"		9	Ka	iPKP	16 14 30.7			
			Japan (h = 60 km).									Kermadec Islands				
											(h = 200 km).					
"		8	Ki	iP	06 25 26.5			"		9	Sk	e	18 02 13			
			Japan (h = 60 km).									i(Sg)	18 02 16.6			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
June	9	Up	iP	18 27 54.8 C	June	11	Up	iP	02 48 25.7 C
"	10	Up	iP	05 56 33.0				ipP	02 48 35.8
				microns sec				iS	02 57 16
			P	Z' 0.2 0.8					microns sec
		Ki	iP	05 56 43.0				P	Z' 0.3 1.0
			i	05 56 52.7				S	N 0.3 4
			iPP	05 58 12.5				M	E 0.8 17
				microns sec				M	N 0.9 17
			P	Z' 0.1 1.0				M	Z 0.8 16
		Sk	iP	05 56 59.7				D = 7450 km = 67°.	
		Gb	iP	05 56 54.3			Ki	iP	02 47 32.6 C
		Ka	iP	05 56 38.0				ipP	02 47 41.3
		Hindu Kush (h = 130 km).						i	02 47 49.4
		Magn. = 6.0 (Up,Ki).						i	02 48 11.9
									microns sec
"	10	Up	iP	07 04 53.3				P	Z' 0.2 1.0
		Ki	i(P)	07 04 59.9				M	E 1.5 18
								M	N 0.9 16
"	10	Up	iP	15 29 18.9				M	Z 1.4 15
		Ki	iP	15 30 26.7			Sk	iP	02 48 06.6 C
		Sk	iP	15 29 58.9			Gb	iP	02 48 43.3 C
		Gb	eP	15 29 13				ipP	02 48 53.1
		Ka	iP	15 28 48.1 C			Ka	iP	02 48 49.3 C
			iS	15 32 32.2				ipP	02 48 58.7
		Dodecanese Islands					Aleutian Islands.		
		(h = 150 km).					h = 40 km (Up,Ki,Gb,Ka).		
							Magn. = 6.0 (Up,Ki).		
"	10	Ki	iP	15 29 59.3	"	11	Up	iP	03 25 28.2
		Molucca Passage					Aleutian Islands		
		(h = 110 km).					(h = 40 km).		
"	10	Sk	i(P)	15 36 35.4	"	11	Up	iP	03 44 42.4 C
"	10	Up	iP	18 07 48.9					microns sec
"	10	Up	eL	20 46				P	E 0.4 5
				microns sec				P	N 0.8 5
			M	E 0.5 17				P	Z 1.6 5
			M	N 0.9 17				P	Z' 0.5 0.8
			M	Z 0.8 17			Ki	iP	03 43 55.5 C
		Ki	eL	20 47				i	03 43 57.4
				microns sec				eS	03 52 16
			M	E 0.6 18					microns sec
			M	N 0.5 16				P	E 2.3 6
		North Atlantic Ocean						P	Z 3.1 8
		(h = 30 km).						P	Z' 0.1 0.8
"	10	Up	iP	23 25 25.6				D = 6800 km = 61°.	
		Ki	iP	23 24 32.6			Sk	iP	03 44 32.5 C
		Aleutian Islands					Gb	iP	03 45 03.8 C
		(h = 40 km).					Ka	iP	03 45 05.3 C
							Kurile Islands.		
							Magn. = 6.4 (Up,Ki).		
"	11	Ka	iPKP	01 53 40.5	"	11	Up	iP	03 44 58.6
		Easter Island Rise						iS	03 53 56
		(h = 30 km).						eP'P'	04 13 05

cont.

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1965					1965				
June	11	Up		microns sec	June	11	Ki	iP	03 54 45.9
cont.			P	N 2.7 5	cont.		Gb	iP	03 55 53.8
			P	Z 5.5 5			Ka	iP	03 55 55.2
			P	Z' 0.5 0.5			Kurile Islands.		
			S	E 7.0 12			Origin time = 03 44 35.		
			S	N 11 16		"	11	Up	iP 03 57 53.3 C
			M	E 77 18				Ki	iP 03 57 07.0
			M	N 110 18			Kurile Islands.		
			M	Z 120 18			Origin time = 3 46 56.		
			D = 7550 km = 68°.			"	11	Up	iP 04 03 57.3 C
		Ki	iP	03 44 13.6			microns sec		
			iS	03 52 29			P	Z' 0.1 0.9	
			eP'P'	04 13 18			Ki	iP 04 03 13.1	
			microns sec				Sk	iP 04 03 47.2	
			P	N 3.1 9			Gb	iP 04 04 17.8 C	
			P	Z 8.2 9			Ka	iP 04 04 19.4 C	
			P	Z' 0.3 1.0			i	04 04 32.0	
			S	E 16 16			Kurile Islands.		
			S	N 7.5 15			Origin time = 03 53 00.		
			M	E 150 19		"	11	Up	iP 04 11 46.5
			M	N 100 18			microns sec		
			M	Z 210 18			P	Z' 0.1 0.9	
			D = 6800 km = 61°.				Gb	iP 04 12 07.4	
		Sk	iP	03 44 49.5			Ka	iP 04 12 08.6	
			eP'P'	04 13 04			Kurile Islands.		
		Gb	iP	03 45 21.3			Origin time = 04 00 49.		
		Ka	iP	03 45 20.8		"	11	Up	iP 04 14 16.3
		Kurile Islands.						Gb	iP 04 14 37.3
		Origin time = 03 34 02.						Ka	iP 04 14 38.2
		Magn. = 6.9 (Up,Ki).					Kurile Islands.		
		It should be noted that					Origin time = 04 03 18.		
		this is the main shock in				"	11	Up	iP 04 25 51.2
		this sequence and is distinct						Ki	iP 04 25 04.5
		from the preceding (fore)						Gb	iP 04 26 12.1
		shock. An interpretation in						Ka	iP 04 26 13.4
		terms of P and pP phases of					Kurile Islands (h = 50 km).		
		one and the same shock does				"	11	Up	iP 04 55 54.0 C
		not seem possible in this					microns sec		
		case. In this and the following					P	Z' 0.2 0.6	
		cases, we give approximate					Ki	iP 04 55 07.4	
		origin times, only when USCGS					Sk	iP 04 55 44.8	
		have given no report.					Gb	iP 04 56 15.8	
"	11	Up	iP	03 51 56.5			Ka	iP 04 56 17.1 C	
"	11	Up	iP	03 52 01.9			Kurile Islands (h = 40 km).		
"	11	Sk	iP	03 51 51.0		"	11	Up	eSg 05 05 15
"	11	Gb	iP	03 52 22.7				Ki	iPn 05 00 56.0
"	11	Ka	iP	03 52 24.0				i	05 01 08.2
"	11	Kurile Islands.						iSn	05 01 50.8
"	11	Origin time = 03 41 04.						iSg	05 02 14.6
"	11	Up	iP	03 54 57.3			D = 440 km = 4.0°.		
"	11	Up	iP	03 55 32.6			cont.		
			microns sec				cont.		
		P	Z' 0.2 0.7						

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
June	11	Sk	iSg	05 04 44.3	June	11	Ka	iP	06 08 33.4
cont.				Northwest Russia, 67.6°N, 31.2°E. Origin time = = 05 00 00. Explosion?	cont.				Kurile Islands (h = 50 km).
"	11	Up	iP	05 08 57.8	"	11	Up	iP	06 15 26.3
		Ka	iP	05 09 19.2					Kurile Islands (h = 30 km).
				Kurile Islands (h = 40 km).	"	11	Up	iP	06 59 10.1
"	11	Up	iP	05 10 38.1	"	11	Up	iP	07 22 04.5 C
		Gb	iP	05 10 59.2					microns sec
		Ka	iP	05 11 00.7					P Z' 0.3 1.0
				Kurile Islands (h = 40 km).					M E 1.0 17
				It is a remarkable fact that					M N 1.1 19
				Gb and Ka exhibit an unusually					M Z 1.4 18
				great sensitivity for these			Ki	iP	07 21 17.9
				aftershocks (Gb and Ka are					microns sec
				otherwise our least sensitive					M E 1.1 17
				stations). As the noise level					M N 0.7 16
				is practically the same at					M Z 1.6 16
				all our stations, the reason			Sk	iP	07 21 54.6 C
				is probably related to the			Gb	iP	07 22 26.3 C
				focal mechanism, shown up			Ka	iP	07 22 27.3 C
				as a distance effect (Gb					Kurile Islands (h = 50 km).
				and Ka are the most distant	"	11	Up	iP	07 38 46.5
				of our stations in relation					microns sec
				to the Kurile Islands).					P Z' 0.1 0.6
				This is verified by the					M E 1.7 18
				fact that in all these					M N 1.0 17
				shocks the PZ'-amplitudes					M Z 1.3 17
				show a steady increase over			Ki	iP	07 37 59.5
				the range of our stations,					microns sec
				from Ki (61°) to Ka (71 1/2°),					M E 2.4 18
				the Ka PZ' having about 5					M N 1.4 18
				times the amplitude of Ki PZ'.					M Z 2.0 16
				This demonstrates the necessity			Sk	iP	07 38 36.0
				to take mechanism effects into			Gb	iP	07 39 07.4
				account in absorption				ipP	07 39 19.7
				measurements of body waves.			Ka	iP	07 39 07.9
"	11	Up	iP	05 22 26.0				ipP	07 39 21.4
"	11	Up	iP	05 37 52.8					Kurile Islands.
				Kurile Islands (h = 30 km).					h = 50 km (Gb,Ka).
"	11	Up	iP	05 56 01.5	"	11	Up	iP	08 27 30.2 D
				microns sec					Kurile Islands (h = 30 km).
				P Z' 0.1 0.8	"	11	Ka	iPg	08 32 00.4
		Gb	iP	05 56 22.4				iSg	08 32 23.3
		Ka	iP	05 56 23.6 C					South Baltic. Explosion.
				Kurile Islands (h = 60 km).	"	11	Up	iP	08 43 59.9
"	11	Up	iP	06 08 11.2					Kurile Islands (h = 30 km).
				microns sec	"	11	Up	iP	08 52 00.9
				P Z' 0.1 0.6	cont.				
		Gb	iP	06 08 32.0					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
June	11	Up		microns sec	June	11	Ka	iP	10 31 11.5 C
cont.			P	Z' 0.3 0.9	cont.				Kurile Islands.
			M	E 1.4 19					Origin time = 10 19 52.
			M	N 1.7 17	"	11	Up	iP	10 32 40.5
			M	Z 1.4 18			Gb	iP	10 33 00.6
		Ki	iP	08 51 16.0			Ka	iP	10 33 02.0 C
				microns sec					Kurile Islands.
			P	Z' 0.1 0.9					Origin time = 10 21 43.
			M	E 1.8 16	"	11	Ka	iPg	10 33 26.0
			M	N 1.4 16				iSg	10 33 48.8
			M	Z 2.8 16					South Baltic. Explosion.
		Sk	iP	08 51 50.0 C	"	11	Up	iP	10 52 12.1 C
		Gb	iP	08 52 21.6 C				ipP	10 52 25.0
		Ka	iP	08 52 22.6 C					microns sec
			ipP	08 52 29.4				P	Z' 0.1 0.6
				Kurile Islands.			Ki	iP	10 51 24.7
				h = 25 km (Ka).				ipP	10 51 36.7
				Magn. = 5.8 (Up,Ki).			Gb	iP	10 52 32.4
"	11	Up	iP	09 07 49.2 C				ipP	10 52 44.9
		Ka	iP	09 08 10.7			Ka	iP	10 52 33.5 C
				Kurile Islands (h = 30 km).				ipP	10 52 46.4
"	11	Up	iP	09 18 58.3					Kurile Islands.
		Sk	iP	09 18 54.5					h = 50 km (Up,Ki,Gb,Ka).
		Ka	iP	09 19 21.4	"	11	Ka	iP	11 18 01.2
				Kurile Islands (h = 60 km).					Kurile Islands (h = 50 km).
"	11	Ka	iPg	09 46 43.0	"	11	Ka	iPg	11 51 43.3
			iSg	09 47 05.8				iSg	11 52 06.4
				South Baltic. Explosion.					South Baltic. Explosion.
"	11	Up	iP	10 10 34.3	"	11	Up	iP	12 11 03.3
		Ka	iP	10 10 56.0					microns sec
				Kurile Islands (h = 50 km).				P	Z' 0.1 0.5
"	11	Up	iP	10 27 38.9				M	E 1.4 19
				microns sec				M	N 1.6 20
			P	Z' 0.1 0.5				M	Z 1.7 18
		Ki	iP	10 26 54.6			Ki	iP	12 10 16.7
		Gb	iP	10 28 00.1					microns sec
		Ka	iP	10 28 01.5				M	E 1.9 17
				Kurile Islands (h = 30 km).				M	N 1.5 19
"	11	Up	iP	10 30 49.6 C				M	Z 2.7 17
				microns sec			Gb	eP	12 11 24
			P	Z' 0.1 0.6			Ka	iP	12 11 25.0
			M	E 1.1 19					Kurile Islands (h = 30 km).
			M	N 1.1 19	"	11	Up	iP	12 12 06.5
			M	Z 1.1 18					microns sec
		Ki	iP	10 30 01.5				M	E 0.9 16
				microns sec	"	11	Ka	iPg	12 54 53.3
			M	E 1.0 16				iSg	12 55 16.2
			M	N 0.8 17					South Baltic. Explosion.
			M	Z 1.5 18					
		Gb	iP	10 31 10.3					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965				1965						
June	11	Up	iP	12 56 37.0	June	11	Up	iP	17 23 11.2	
			i(pP)	12 56 48.6			Ka	iP	17 23 31.6	
		Ka	iP	12 58 07.4			Kurile Islands (h = 50 km).			
		Kurile Islands (h = 30 km).				"	11	Up	iP	18 12 39.6
"	11	Up	iP	12 57 45.1			Ka	iP	18 13 01.1	
		Kurile Islands (h = 140 km).					Kurile Islands.			
"	11	Up	iP	13 51 34.2 C			Origin time = 18 01 42.			
				microns sec	"	11	Up	iP	18 40 47.2	
		P	Z'	0.1 0.5				ipP	18 40 59.7	
"	11	Up	iP	13 55 08.1			Kurile Islands. h = 50 km (Up).			
		Ka	iP	13 55 30.6	"	11	Up	iP	19 11 49.9	
		Kurile Islands (h = 60 km).			"	11	Up	iP	20 43 25.3	
"	11	Ka	iPg	13 57 11.5	"	11	Up	iP	20 55 21.9 C	
			iSg	13 57 33.9			Gb	eP	20 55 41	
		South Baltic. Explosion.					Ka	iP	20 55 43.7	
"	11	Up	iP	14 39 57.0				ipP	20 55 54.3	
		Ka	iP	14 40 18.7			Kurile Islands.			
		Kurile Islands.					h = 40 km (Ka).			
		Origin time = 14 29 00.			"	11	Up	iP	23 03 30.7	
"	11	Ka	iPg	14 54 35.3			Kurile Islands (h = 30 km).			
			iSg	14 54 57.7	"	12	Ka	iP	00 11 46.3	
		South Baltic. Explosion.			"	12	Up	iP	00 31 58.9	
"	11	Up	iP	15 25 51.3			Ki	iP	00 31 15.1	
		Kurile Islands (h = 50 km).					Ka	iP	00 32 20.6	
"	11	Up	iP	15 50 35.2 C			Kurile Islands (h = 30 km).			
		Gb	iP	15 50 56.2	"	12	Ki	i(P)	02 13 43.8	
		Ka	iP	15 50 56.8 C	"	12	Up	iP	02 14 05.7	
		Kurile Islands (h = 60 km).					Kurile Islands (h = 30 km).			
"	11	Up	iP	15 53 22.9	"	12	Up	iP	03 20 48.0	
		Ki	iP	15 53 15.2				ipP	03 20 54.4	
		Ka	iP	15 53 31.3					microns sec	
			ipP	15 54 04.7			P	Z'	0.1 0.8	
		Burma. h = 140 km (Ka).					Ki	iP	03 20 02.5 C	
"	11	Ka	iPg	15 58 41.6			Sk	iP	03 20 39.2	
			iSg	15 59 04.3			Ka	iP	03 21 10.6 C	
		South Baltic. Explosion.					Kurile Islands.			
"	11	Up	iP	16 32 10.1			h = 25 km (Up).			
		Ki	iP	16 31 17.3	"	12	Up	iP	05 39 27.8	
		Ka	iP	16 32 34.9			Ka	iP	05 39 49.0	
		Aleutian Islands (h = 60 km).					Kurile Islands (h = 30 km).			
"	11	Ka	iPg	16 44 45.4	"	12	Up	iP	05 39 42.0	
			iSg	16 45 08.0					microns sec	
		South Baltic. Explosion.					P	Z'	0.1 0.9	

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona,

1965	12	Up		microns sec	1965	13	Ki		microns sec
June			M	N 1.0 19	June			P	E 0.4 6
cont.			M	Z 1.1 18	cont.			P	N 0.5 6
		Ki		---				P	Z 1.2 6
				microns sec				P	Z' 0.3 1.5
			M	E 0.8 17				S	E 1.5 8
			M	N 0.5 15				S	N 1.2 8
			M	Z 1.0 16				M	E 14 20
		Kurile Islands (h = 50 km).						M	N 5.8 19
"	13	Up	iP	02 31 53.2 C				M	Z 7.7 17
			i	02 31 55.8				D = 6950 km = 62 1/2°.	
				microns sec			Sk	iP	07 17 10.6 C
			P	Z' 0.2 0.9				i	07 17 30.7
			M	E 0.7 19			Gb	iP	07 17 39.6 C
			M	N 1.1 18			Um	iP	07 16 56.5 C
			M	Z 1.0 16			Ka	iP	07 17 40.0 C
		Ki	iP	02 31 06.6			Japan, h = 40 km (Ki).		
				microns sec			Magn. = 6.3 (Up,Ki).		
			M	E 0.8 17	"	13	Ka	iPg	09 40 52.1
			M	N 0.5 17				iSg	09 41 15.2
			M	Z 0.7 15			South Baltic. Explosion.		
		Sk	iP	02 31 42.5	"	13	Ka	iPg	10 22 04.7
		Gb	iP	02 32 13.8 C				iSg	10 22 27.7
			ipP	02 32 20.7			South Baltic. Explosion.		
		Um	iP	02 31 29.4 C	"	13	Up	iP	11 10 19.8
		Ka	iP	02 32 15.0 C			Ki	iP	11 09 35.6
			ipP	02 32 21.7			Um	iP	11 09 54.2
		Kurile Islands.					Sea of Japan (h = 30 km).		
		h = 25 km (Gb,Ka).			"	13	Ki		---
"	13	Ki		microns sec	"	13	Ka	iPg	11 45 48.8
			M	E 0.3 9				iSg	11 46 11.8
			M	N 0.3 12			South Baltic. Explosion.		
			M	Z 0.4 10	"	13	Ka	iPg	12 37 12.8
		Um	iP	04 28 54.5				iSg	12 37 37.5
		Afghanistan (h = 60 km).					South Baltic. Explosion.		
"	13	Up	iP	07 17 18.2 C	"	13	Ka	iPg	13 19 14.3
			iPP	07 19 51				iSg	13 19 37.3
			iS	07 26 21			South Baltic. Explosion.		
				microns sec	"	13	Ka	iPg	13 26 10.8
			P	N 0.3 3				iSg	13 26 35.8
			P	Z' 0.2 0.9			South Baltic. Explosion.		
			S	E 0.9 10	"	13	Ka	iPg	14 05 39.2 D
			S	N 0.8 7				iSg	14 06 02.1
			M	E 7.2 22			South Baltic. Explosion.		
			M	N 10 20	"	13	Um	iP	14 28 00.0
			M	Z 7.9 22	"	13	Ka	iPg	14 42 12.3
		D = 7650 km = 69°.						iSg	14 42 37.3
		Ki	iP	07 16 35.6 C			South Baltic. Explosion.		
			ipP	07 16 45.1	"	13	Um	iP	14 28 00.0
			iS	07 25 01	"	13	Ka	iPg	14 42 12.3
			iScS	07 26 25				iSg	14 42 37.3
cont.							South Baltic. Explosion.		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
June cont.	14	Sk	iP	09 51 08.8	June ccnt.	14	Um	iP	13 26 08.3 D
		Gb	iP	09 51 44.0				ipP	13 26 12.0
		Um	iP	09 51 13.8			Ka	iP	13 26 26.2
			i	09 51 22.6				ipP	13 26 29.8
			iS	10 00 21			Tibet. h = 15 km (Up,Ki,Sk, Gb,Um,Ka).		
		Off coast of Oregon (h = 30 km).					Magn. = 6.1 (Up,Ki).		
"	14	Ka	iPg	09 51 22.9			The onset interpreted as pP has slightly larger amplitude than P and apparently opposite phase.		
			iSg	09 51 46.1					
		South Baltic. Explosion.							
"	14	Um	iPKP	10 21 39.2	"	14	Um	iP	14 39 13.8
		South Sandwich Islands (h = 30 km).					Japan (h = 150 km).		
"	14	Ka	iPg	10 41 52.8	"	14	Up	iP	16 58 07.6
			iSg	10 42 20.1					microns sec
		South Baltic. Explosion.						P	Z' 0.1 1.2
"	14	Ka	iPg	11 35 31.6			Ki	iP	16 58 37.5
			iSg	11 35 56.1					microns sec
		South Baltic. Explosion.						P	Z' 0.1 1.2
"	14	Ka	iPg	11 43 56.0			Sk	iP	16 58 06.7 C
			iSg	11 44 19.1			Gb	iP	16 57 44.6
		South Baltic. Explosion.						ipP	16 57 52.2
"	14	Ka	iPg	12 35 45.2			Um	iP	16 58 25.7
			iSg	12 36 09.3				ipP	16 58 34.5
		South Baltic. Explosion.					Ka	iP	16 57 50.4
"	14	Ka	iPg	12 45 05.9				ipP	16 57 58.3
			iSg	12 45 28.3			Atlantic Ocean.		
		South Baltic. Explosion.					h = 30 km (Gb,Um,Ka).		
"	14	Up	iP	13 26 16.7 D	"	14	Up	iP	20 51 19.7
			ipP	13 26 20.1				i	20 51 26.4
				microns sec					microns sec
			P	Z' 0.2 0.7				P	Z' 0.1 0.6
			pP	Z' 0.3 0.8	"	14	Up	iP	21 27 55.6
			M	E 0.6 15					microns sec
			M	N 0.6 16				P	Z' 0.1 0.5
			M	Z 0.7 15	"	15	Up	iP	01 56 15.0
		Ki	iP	13 26 10.8 D			Ki	iP	01 55 18.6
			ipP	13 26 14.1				ipP	01 55 29.1
				microns sec			Gb	eP	01 56 36
			P	Z' 0.1 1.0			Um	iP	01 55 46.8
			M	E 0.6 13			Ka	iP	01 56 36.8
			M	N 1.9 18			Kurile Islands.		
			M	Z 0.9 13			h = 40 km (Ki).		
		Sk	iP	13 26 34.5	"	15	Up	iP	04 57 18.3
			ipP	13 26 38.1				i	04 57 19.6
		Gb	iP	13 26 38.8 D				eS	05 06 24
			ipP	13 26 42.1					microns sec
								P	Z' 0.1 0.9
								M	E 0.6 20

cont.

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
June cont.	15	Up	microns sec	June 15	Up	iP	13 03 13.9 D
		M	N 0.8 20		Gb	iP	13 03 34.6
		M	Z 1.1 23		Um	iP	13 02 48.9
		D = 7650 km = 69°.			Ka	iP	13 03 35.6
		Ki	iP 04 56 26.5 C		Kurile Islands (h = 30 km).		
		eS	05 04 45				
			microns sec	" 15	Up	iPKP	13 11 26.3
		P	N 0.2 7			i	13 11 38.1
		P	Z 0.4 6		Gb	iPKP	13 11 29
		P	Z' 0.1 1.2		Ka	iPKP	13 11 36.7
		S	N 0.4 8		Kermadec Islands (h = 50 km).		
		M	E 0.7 17				
		M	N 0.6 18	" 15	Ki	eP	13 17 17
		M	Z 0.9 17		Um	iP	13 18 02.6
		D = 6800 km = 61°.		" 15	Up	iP	13 20 22.7
		Sk	iP 04 56 59.6 C		Ka	iP	13 20 44.7
		Gb	iP 04 57 35.8		Kurile Islands (h = 30 km).		
			i(pP) 04 57 46.1	" 15	Up	iP	13 29 48.2 D
		Um	iP 04 56 52.8 C		Kurile Islands (h = 30 km).		
		eS	05 05 28	" 15	Um	iP	13 44 08.4
		Ka	iP 04 57 41.4	" 15	Up	iP	14 30 01.2
		Aleutian Islands					microns sec
		(h = 30 km).					P Z' 0.1 0.6
		Magn. = 5.6 (Up,Ki).					M E 0.6 20
"	15	Up	iP 05 54 54.2				M N 0.6 16
			microns sec		Ki	eP	14 29 11
		P	Z' 0.1 0.5				microns sec
"	15	Up	iP 08 09 16.9				M E 0.8 17
			microns sec				M N 0.7 20
		M	N 0.6 14				M Z 0.8 16
		Ki	iP 08 09 05.7 C		Um	iP	14 29 37.4 D
			microns sec		Ka	iP	14 30 22.6
		M	N 0.5 17		Kurile Islands (h = 20 km).		
		M	Z 0.6 13	" 15	Up	iP	15 25 48.8
		Sk	iP 08 09 31.0 C				microns sec
		Um	iP 08 09 06.4				P Z' 0.1 0.6
		Ka	iP 08 09 27.9		Ki	iP	15 24 55.2
		India-China (h = 30 km).			Sk	iP	15 25 29.0 C
"	15	Up	iPKP2 09 40 34.9		Um	iP	15 25 21.6
		i	09 42 54.1		Ka	iP	15 26 12.1
			microns sec		Aleutian Islands (h = 40 km).		
		PKP2	Z' 0.4 0.8				
		Ki	iPKP 09 40 00.9	" 15	Up	iP	16 18 12.3
		i	09 40 03.4		Um	iP	16 17 47.2
			microns sec		Kurile Islands (h = 30 km).		
		PKP	Z' 0.1 1.0	" 15	Up	iP	16 25 07.8
		Sk	iPKP 09 40 16.9 C	" 15	Up	iP	16 37 05.7
		Gb	iPKP2 09 40 51.0	" 15	Up	iP	16 37 38.6
		Um	iPKP 09 40 11.8 C	cont.			
		Ka	iPKP2 09 40 50.6				
		New Zealand (h = 60 km).					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965							
June cont.	15	Um	iP	16 37 11.8	June cont.	16	Ki	e(PKP)	04 14 27		
				Aleutian Islands (h = 40 km).				iPKP	04 14 44.1		
"	15	Up	iP	16 50 21.3				e	04 17 38		
				microns sec				ePKS	04 18 20		
			M	E 1.1 20				PKS	N 0.2 6		
			M	N 2.4 20				M	E 1.4 19		
			M	Z 1.1 18				M	N 0.6 19		
		Ki	iP	16 50 59.9 C				M	Z 2.3 19		
				microns sec			Um	iPKP	04 14 48.3		
			M	E 0.9 18				Easter Island Rise			
			M	N 1.0 15				(h = 30 km).			
			M	Z 1.5 18			"	16	Up	iP	05 09 35.8
		Sk	iP	16 50 52.9				Ki	iP	05 09 02.1	
		Um	iP	16 50 37.3 C				Sk	iP	05 09 31.4	
			i	16 50 49.1				Um	iP	05 09 16.4	
			eS	16 58 05				Ka	eP	05 09 51	
			i	17 02 23				South of Japan (h = 40 km).			
		Ka	iP	16 50 06.9			"	16	Up	iPKP	06 27 16.8
				Gulf of Aden (h = 30 km).					i	06 27 26.1	
"	15	Um	iP	18 01 12.4				Sk	iPKP	06 27 06.6	
"	15	Up	iP	19 13 10.5				Gb	iPKP2	06 27 31.7	
		Ki	iP	19 12 17.4				Ka	iPKP2	06 27 27.1	
		Um	iP	19 12 44.1				Kermadec Islands (h = 10 km).			
			iPcP	19 13 18.2			"	16	Ka	iPg	07 34 11.4
		Ka	iP	19 13 33.7					iSg	07 34 34.8	
				Aleutian Islands (h = 40 km).				South Baltic. Explosion.			
"	15	Up	iP	22 08 56.3			"	16	Up	iP	07 51 31.1
"	15	Up	i	23 33 46				Gb	iP	07 51 53.2	
				microns sec				Um	iP	07 51 06.7	
			M	E 2.8 21				Kurile Islands (h = 30 km).			
			M	N 6.4 21			"	16	Ka	iPg	12 26 51.5
			M	Z 5.5 21					iSg	12 27 14.3	
		Ki	ePKP	23 29 35				South Baltic. Explosion.			
			ePKS	23 32 49			"	16	Ka	iPg	13 44 00.5
				microns sec					iSg	13 44 24.4	
			M	E 5.3 21				South Baltic. Explosion.			
			M	N 3.0 18			"	16	Sk	iP	14 46 42.0
			M	Z 9.9 21			"	16	Up	iP	14 56 34.6
		Um	ePKP	23 29 35			"	16	Um	iP	22 30 36.7
			iPP	23 32 07			"	16	Up	iP	23 58 18.7
			iPKS	23 33 08					ipP	23 58 22.5	
			eSS	23 49 56					microns sec		
			iSSP	23 50 23					Z' 0.1 0.5		
				New Hebrides Islands				Ki	iP	23 58 13.0	
				(h = 20 km).				cont.			
				Magn. = 6.5 (Up,Ki).							
"	16	Up	ePKS	04 18 17							
				microns sec							
			M	E 0.8 18							
			M	N 0.8 16							
			M	Z 1.4 18							

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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Year	Date	Location	Station	Time	Magnitude	Depth (km)	Notes
1965	June cont.	16	Ki	M E 0.4 14 M N 0.6 18 M Z 0.6 13			
			Sk	iP 23 58 36.6			
			Gb	iP 23 58 40.7			
			Um	iP 23 58 10.3			
			Tibet. h = 15 km (Up).				
"		17	Up	iP 03 03 34.9 iS 03 07 43			
				M N 1.2 9 M E 0.6 12 M N 0.8 13 M Z 0.6 10			
			Ki	iP 03 04 35.3 iLg1 03 14 30			
				M E 0.5 12 M N 0.3 10 M Z 0.6 12			
			Sk	iP 03 04 12.4			
			Gb	iP 03 03 26.8			
			Um	iP 03 04 00.7 C eS 03 08 35			
			Ka	eP 03 03 07			
			Turkey (h = 10 km).				
"		17	Up	iP 03 51 52.9 C iPP 03 52 59.1			
				P Z' 0.1 0.5			
			Ki	iP 03 51 37.0 C iPP 03 52 39.0			
				P Z' 0.1 0.5			
			Sk	iP 03 52 07.7 C iPP 03 53 29.7 iPcP 03 54 30.2			
			Gb	iP 03 52 22.0 C iPP 03 53 46.2			
			Um	iP 03 51 37.6 i 03 51 54.5 iPP 03 52 41.4 iPcP 03 54 18.7			
			Ka	iP 03 52 08.7 iPP 03 53 30.9			
			Kazakh SSR. Magn. = 5.8 (Up,Ki). Underground explosion. The seismic energy corresponds approximately to that of an earthquake of 0.7 lower magnitude, i.e. magnitude 5.1 (see Båth, Earthquake				
1965	June cont.	17					energy and magnitude, Phys. and Chem. of the Earth, in press).
"		17	Ka	iPg 07 17 55.4 iSg 07 18 18.9			South Baltic. Explosion.
"		17	Ka	iPg 08 04 15.4 iSg 08 04 40.4			South Baltic. Explosion.
"		17	Ka	iPg 08 10 54.9 iSg 08 11 18.0			South Baltic. Explosion.
"		17	Ka	iPg 09 33 22.9 i(Sg) 09 33 52.2			South Baltic. Explosion.
"		17	Ka	eP 09 39 41			
"		17	Ka	iPg 09 42 49.8 iSg 09 43 16.4			South Baltic. Explosion.
"		17	Up	iP 10 55 24.2			
				P Z' 0.1 0.7			
			Ki	iP 10 54 59.3			
				M E 0.8 19 M N 0.4 15 M Z 0.6 13			
			Sk	iP 10 55 27.1 C			
			Gb	iP 10 55 31.5			
			Um	iP 10 55 08.4			
			Ka	iP 10 55 38.3			
			Ryukyu Islands (h = 50 km).				
"		17	Up	iPKP 11 11 27.4 i 11 11 34.7			
			Ki	iPKP 11 11 06.6			
			Sk	iPKP 11 11 18.4 C i 11 11 22.9			
			Um	iPKP 11 11 10.5 i 11 11 17.6			
			South of Kermadec Islands (h = 30 km).				
"		17	Ka	ePg 12 21 16 iSg 12 21 40.7			South Baltic. Explosion.
"		17	Up	iP 13 13 14.8			

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
June	17	Ki	ePg	14 17 35	June	17	Ki	microns sec	
			e	14 19 10	cont.		M	N 16 17	
		Sk	iP ^x	14 17 11.7			M	Z 7.2 13	
			iPg	14 17 17.4			D = 5800 km = 52°.		
			iSn	14 17 52.8		Sk	iP	20 24 24.6	
			iSg	14 18 13.8			ipP	20 24 29.8	
			D = 470 km = 4.2°.			Gb	iP	20 24 29.4	
		Um	iSg	14 19 20.0			ipP	20 24 33.5	
		Norwegian Sea, 67 1/2°N, 8°E.				Um	iP	20 23 58.9	
		Origin time = 14 15 55.					ipP	20 24 02.8	
"	17	Up	iP	15 43 33.9			iS	20 31 23	
"	17	Ki	i(P)	17 46 02.9			eSa	20 35 23	
			iSg	17 46 51.2		Ka	iP	20 24 17.6	
"	17	Up	i(P)	17 47 58.6 C			ipP	20 24 21.4	
"	17	Up	iP	19 15 55.8	"	18	Up	iP	01 27 52.2 D
			ipP	19 16 06.5			ipP	01 27 56.2	
			microns sec					microns sec	
			P	Z' 0.1 0.9			P	Z' 0.1 0.5	
		Ki	iP	19 15 03.2			M	E 0.4 10	
			ipP	19 15 11.9			M	N 0.6 14	
			microns sec				M	Z 0.5 10	
			P	Z' 0.1 1.2		Ki	iP	01 27 46.4	
			M	E 0.5 15			ipP	01 27 49.7	
			M	N 0.5 16			microns sec		
			M	Z 1.0 18			P	Z' 0.1 1.2	
		Sk	iP	19 15 37.2 D			M	E 0.6 14	
			ipP	19 15 47.1			M	N 1.7 18	
		Um	iP	19 15 29.3 D			M	Z 1.0 14	
		Ka	iP	19 16 20.3		Sk	iP	01 28 10.1 D	
			ipP	19 16 30.7		Gb	iP	01 28 14.6	
		Aleutian Islands.					ipP	01 28 18.8	
		h = 40 km (Up,Ki,Sk,Ka).				Um	iP	01 27 44.2 D	
		Magn. = 5.7 (Up,Ki).					i	01 27 47.8	
"	17	Up	iP	20 24 07.1	"	18	Up	iP	08 27 52.7
			ipP	20 24 11.7			ipP	08 28 06.4	
			iS	20 31 40			microns sec		
			iLgl	20 43 19			P	Z' 0.1 0.9	
			microns sec				pP	Z' 0.2 0.9	
			P	Z' 0.1 0.6		Ki	---		
			S	E 0.3 6			microns sec		
			M	E 2.8 15			M	E 0.6 18	
			M	N 4.1 16			M	Z 0.9 17	
			M	Z 3.3 15		Sk	iP	08 28 09.1	
			D = 5900 km = 53°.				ipP	08 28 23.7	
		Ki	iP	20 24 01.4		Gb	iP	08 28 13.3	
			ipP	20 24 05.6		Um	iP	08 27 45.2 C	
			eS	20 31 28			ipP	08 27 59.3	
			microns sec			Ka	iP	08 28 01.1	
			pP	Z' 0.2 1.5			ipP	08 28 15.5	
			M	E 5.8 14			India.		
cont.							h = 60 km (Up,Sk,Um,Ka).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
June	18	Up	iP	12 37 04.1	June	19	Um	iP	13 00 10.4
"	18	Up	iP	13 56 46.8	cont.		Ka	iP	13 01 02.9
				Iran (h = 50 km).					Kamchatka (h = 100 km).
"	18	Sk	iP	22 58 41.6	"	20	Up	iP	00 45 32.3
			ipP	22 59 11.5				e	00 53 01
				Peru. h = 120 km (Sk).			Sk	iP	00 46 14.0
"	18	Up	iP	23 09 51.8			Um	iP	00 46 11.6
		Sk	iP	23 09 47.2					Greece.
		Um	iP	23 09 31.3 C	"	20	Up	iP	02 08 24.5 C
				Japan (h = 50 km).					microns sec
"	19	Up	iP	06 48 56.8 C			P	Z'	0.1 0.6
			ipP	06 49 08.9			M	E	0.8 18
			i	06 52 14.7			M	N	1.1 19
				microns sec			M	Z	1.1 18
			P	Z' 0.2 1.0		Ki	iP		02 07 36.8
			M	E 0.6 16					microns sec
			M	N 0.6 16			M	E	0.7 15
			M	Z 0.9 15			M	N	0.7 18
		Ki		----			M	Z	1.3 18
				microns sec		Sk	iP		02 08 13.3
			M	E 0.8 16		Gb	iP		02 08 44.9
			M	N 0.4 14		Um	iP		02 07 58.8 C
			M	Z 0.8 14		Ka	iP		02 08 45.2
		Sk	iP	06 48 37.3 C	"				Kurile Islands (h = 40 km).
		Gb	iP	06 49 14.2	"	20	Um	iP	06 15 45.6
			ipP	06 49 26.3					Banda Sea (h = 150 km).
		Um	iP	06 48 28.7 C	"	20	Up	iP	12 04 07.7
			i	06 48 34.2	"	20	Up	iP	16 40 29.8
			iS	06 56 52			Ki	iP	16 41 08.6
		Ka	iP	06 49 20.4 C					microns sec
			ipP	06 49 32.5			M	E	0.4 16
				Aleutian Islands.			M	N	0.3 13
				h = 50 km (Up,Gb,Ka).		Sk	iP		16 41 02.2
"	19	Up	iP	09 09 58.7		Um	iP		16 40 46.8 D
"	19	Sk	iP	11 14 23.0 C					Gulf of Aden (h = 30 km).
				North Atlantic Ocean	"	20	Up	eP	18 16 05
				(h = 30 km).			i		18 16 10.0
"	19	Up	iP	11 57 21.7		Ki	eP		18 15 24.
"	19	Up	iP	12 37 17.8			i		18 15 29.7
		Ki	eP	12 37 54			iS		18 24 19
		Um	iP	12 37 27.6					microns sec
				Caucasus (h = 30 km).			P	Z'	0.1 1.5
"	19	Um	i(P)	12 46 01.1			S	E	0.4 9
"	19	Up	iP	13 00 38.8			M	E	0.5 15
		Ki	iP	12 59 45.2			M	N	0.3 15
		Sk	iP	13 00 22.5					D = 7400 km = 66 1/2°.
cont.						Sk	eP		18 15 39
						Um	eP		18 15 48
							i		18 15 51.9
							iS		18 25 03
									Off coast of Oregon (h = 30 km).
									Magn. = 5.7 (Ki).

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
June	20	Up	iP	18 18 44.9	June	21	Ka	iP	00 28 47.5
		Ki	iP	18 18 53.2 C	cont.			i(pP)	00 28 53.2
		Sk	iP	18 19 10.2				iS	00 34 43.9
		Um	iP	18 18 42.7 C				Iran (h = 30 km).	
		Ka	iP	18 18 49.5 C				Magn. = 6.0 (Up,Ki).	
		Hindu Kush (h = 180 km).						Well developed higher mode surface waves.	
"	20	Ki	iP	19 28 26.6	"	21	Up	iP	01 38 14.9
				microns sec			Ki	iP	01 38 48.1
		M	E	0.4 14			Sk	iP	01 38 49.5
		M	N	0.2 13			Um	iP	01 38 27.4
		M	Z	0.5 14			Ka	iP	01 38 09.4
		Um	iP	19 28 41.6 C			Iran (h = 30 km).		
				i(pP) 19 28 47.3					
		Gulf of California (h = 30 km).			"	21	Ki	iP	11 23 28.1
"	20	Ki	eP	22 01 20				ipP	11 23 34.7
		Um	iP	22 01 48.0			Um	iP	11 23 03.8
		Kamchatka (h = 40 km).					Tanganyika. h = 25 km (Ki).		
"	21	Up	iP	00 28 55.5 C	"	21	Ki	iP	13 31 46.5
			ePP	00 30 37			Atlantic Ocean (h = 30 km).		
			iPcS	00 34 46	"	21	Up	iP	22 23 58.2
			iS	00 35 05			Ki	eP	22 23 04
				microns sec			Aleutian Islands (h = 40 km).		
		P	Z'	0.4 1.0	"	22	Um	iP	01 07 44.3
		PF	E	0.4 5			Molucca Sea (h = 30 km).		
		S	N	1.1 9	"	22	Up	iP	05 57 30.5 C
		M	E	1.5 16				i	05 57 55.7
		M	N	2.5 18					microns sec
		M	Z	1.4 15					Z' 0.1 0.5
		D = 4550 km = 41°.					Ki	iP	05 57 31.5 C
		Ki	iP	00 29 29.1				i	05 58 09.7
			iS	00 36 05			Sk	iP	05 57 52.5 C
			iSS	00 39 22			Um	iP	05 57 24.9 C
				microns sec			Ka	iP	05 57 37.5 C
		P	E	0.4 5			Kashmir-Sinkiang (h = 30 km).		
		P	N	0.4 5	"	22	Ki	i(P)	14 01 23.0
		P	Z	0.6 5				iSg	14 02 09.5
		P	Z'	0.7 1.0	"	22	Ki	eL	14 18
		S	E	2.4 6					microns sec
		S	N	0.9 7				M	E 1.0 23
		M	E	1.7 12				M	N 0.8 22
		M	N	2.7 12				M	Z 1.9 24
		M	Z	3.1 12			New Hebrides Islands (h = 80 km).		
		D = 5000 km = 45°.							
		Sk	iP	00 29 29.2					
			i	00 29 46.2					
			i	00 36 37.3					
		Gb	iP	00 29 08.5					
			iPP	00 30 52.9					
		Um	iP	00 29 07.3 C	"	22	Ki	iP	20 12 06.5 C
			i	00 29 28.4	"	23	Up	iP	00 01 08.6 C
			iPP	00 30 48				eSKS	00 11 32
			iS	00 35 17	cont.				
			iSS	00 38 21					

cont.

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1965 June cont.	23	Up	eS	00 12 10		1965 June cont.	23	Ki	i(sP)	11 26 56	
				microns sec					iScS	11 28 36	
			P	Z' 0.2 0.8						microns sec	
			M	E 6.1 20				P	N 1.5 8		
			M	N 6.8 21				P	Z 3.2 9		
			M	Z 8.4 20				P	Z' 0.6 1.0		
			D = 10200 km = 92°.					S	E 2.9 9		
		Ki	iP	00 00 52.8 C				S	N 5.8 11		
			i	00 00 53.9				M	E 10 19		
			iPP	00 04 25.0				M	N 9.6 18		
			iSKS	00 11 17				M	Z 18 17		
			iS	00 11 38				D = 6150 km = 55 1/2°.			
				microns sec			Sk	iP	11 19 17.5 C		
			P	Z 0.9 8				eP'P'	11 49 00.4		
			P	Z' 0.2 1.0			Gb	iP	11 19 56.8 C		
			PP	E 0.4 10				eP'P'	11 48 45		
			PP	Z 0.9 9			Um	iP	11 19 18.5 C		
			SKS	E 1.0 9				ipP	11 19 32.6		
			S	N 0.9 7				iS	11 27 27		
			M	E 7.3 15			Kodiak Island.				
			M	N 6.3 18			h = 60 km (Ki,Um).				
			M	Z 8.9 16			Magn. = 6.5 (Up,Ki).				
			D = 9800 km = 88°.				"	23	Up	iP	12 13 15.0
		Sk	iP	00 01 14.0				Ki	iP	12 12 21.2	
		Gb	iP	00 01 24.3				Sk	iP	12 12 48.1	
		Um	iP	00 00 58.3 C					ipP	12 12 54.9	
			iPP	00 04 30			Kodiak Island.				
			eSKS	00 11 14			h = 25 km (Sk).				
			iS	00 11 44			"	23	Sk	eP	12 29 39
		Ka	iP	00 01 18.4 C			"	23	Up	iP	12 33 52.9
			i	00 01 22.9						microns sec	
		Mindanao (h = 60 km).							P	Z' 0.1 0.7	
		Magn. = 6.3 (Up,Ki).						Ki	iP	12 32 58.7 C	
"	23	Up	iPKP	11 18 58.5						microns sec	
		Sk	iPKP	11 18 53.0 C				P	Z' 0.1 1.0		
		Um	iPKP	11 18 48.0 C			Sk	iP	12 33 25.9		
		South of Kermadec Islands						ipP	12 33 34.7		
		(h = 80 km).					Gb	iP	12 34 04.7		
"	23	Up	iP	11 19 44.8 C			Um	iP	12 33 26.8 C		
			iS	11 28 17			Kodiak Island.				
			iPS	11 28 30			h = 35 km (Sk).				
			iF'P'	11 48 49.3			Magn. = 5.8 (Up,Ki).				
				microns sec			"	23	Up	i(P)	13 35 30.5
			P	N 2.4 6				Ki	e(P)	13 35 03	
			P	Z 1.5 4			"	23	Ki	iP	14 32 19.3
			P	Z' 0.5 1.0				Sk	iP	14 32 46.6	
			M	E 7.2 19				Um	iP	14 32 47.5	
			M	N 8.3 18			Kodiak Island (h = 30 km).				
			M	Z 9.1 19			"	23	Ki	iP	16 23 00.3
			D = 7050 km = 63 1/2°.								
		Ki	iP	11 18 50.0 C							
			ipP	11 19 04.7							
			iS	11 26 35							
cont.						cont.					

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Ka = Karlskrona

1965				1965						
Month	Day	Station	Type	Time	Time	Time	Time			
June	23	Um	iP	16 23 06.3	June	24	Up	iPKP	14 27 49.8	
cont.		New Guinea (h = 30 km).					Ki	e(PKP)	14 27 30	
"	23	Up	iP	16 28 41.3 C				iPKP	14 27 37.6	
"	24	Up	iP	04 59 46.3			Sk	e(PKP)	14 27 42	
		Ki	iP	04 59 10.6			Gb	iPKP	14 27 56.6 C	
		Sk	iP	04 59 43.7				i	14 28 41.3	
		Um	iP	04 59 26.1 D			Um	i(PKP)	14 27 37.9	
			i	04 59 36.3				iPKP	14 27 44.9	
			ipP	05 00 48.4				iSKP	14 31 12.5	
		Japan. h = 370 km (Um).					Ka	iPKP	14 27 59.3	
"	24	Up	iP	07 58 22.8				i	14 28 07.9	
			eSKS	08 09 05				ipPKP	14 28 24.5	
				microns sec			South of Fiji Islands. h = 90 km (Ka).			
		P	Z'	0.1 1.0	"	24	Ka	iPg	14 53 23.1	
		M	E	1.7 22				iSg	14 53 47.8	
		M	N	3.2 22			South Baltic. Explosion.			
		M	Z	1.8 22	"	24	Ka	iPg	15 34 08.4	
		Ki	iP	07 58 05.6 C				iSg	15 34 34.9	
			iSKS	08 08 29			South Baltic. Explosion.			
			iS	08 08 54	"	24	Gb	eSg	16 23 29	
				microns sec			Ka	iPg	16 22 24.4	
		P	Z'	0.4 1.0				iSg	16 22 50.2	
		S	N	0.9 8			South Baltic. Explosion.			
		M	E	2.2 20	"	24	Ka	iPg	16 58 02.5	
		M	N	2.6 25				iSg	16 58 28.9	
		M	Z	3.8 20			South Baltic. Explosion.			
				D = 9900 km = 89°.	"	24	Ka	iPg	17 36 04.5	
		Sk	iP	07 58 27.7 C				iSg	17 36 29.5	
			ipP	07 58 41.1			South Baltic. Explosion.			
		Um	iP	07 58 11.6 C	"	24	Ka	iPg	18 11 10.0	
			ipP	07 58 27.0			Um	iP	18 10 44.6	
			iSKS	08 08 37			Kurile Islands (h = 30 km).			
			iS	08 09 01	"	24	Up	eP	23 20 47	
			iPS	08 10 11					microns sec	
		Mindanao. h = 55 km (Sk,Um).					M	E	1.0 14	
		Magn. = 6.0 (Up,Ki).					M	N	0.9 15	
"	24	Um	iP	10 12 18.7			M	Z	1.4 15	
"	24	Up	iP	11 01 16.6			Ki	eP	23 20 21	
		Um	iP	11 01 31.4					microns sec	
		Iran (h = 30 km).					M	E	0.9 15	
"	24	Um	iP	12 30 10.6			M	N	0.8 15	
"	24	Ka	iPg	13 38 39.9			Um	iP	23 20 27.1	
			iSg	13 39 03.3				i	23 20 30.4	
		South Baltic. Explosion.					Philippine Islands (h = 30 km).			
"	24	Ka	iPg	14 18 22.6	"	25	Ki	iP	03 35 30.0	
			iSg	14 18 45.4						
		South Baltic. Explosion.								

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Ka = Karlskrona

1965				1965					
June	25	Ki	eP	04 37 54	June	26	Ka	iPg	08 23 11.0
"	25	Ki	iP	08 00 22.0 C				iSg	08 23 35.4
"	25	Up	iSn	09 43 41.3	"	26	Ka	iPg	09 00 03.5
			iSg	09 44 11.5				iSg	09 00 27.9
		Sk	e(Sg)	09 45 49				South Baltic. Explosion.	
		Gb	eSg	09 42 40	"	26	Ka	iPg	10 30 03.6
		Um	iSg	09 46 24.8				iSg	10 30 27.6
		Ka	iPg	09 41 46.9				South Baltic. Explosion.	
			iSg	09 42 13.8	"	26	Ka	iPg	11 13 09.4
			D = 230 km = 2.1°.					iSg	11 13 34.6
			South Baltic, 54.8°N,					South Baltic. Explosion.	
			12.6°E.						
			Underwater explosion.						
"	25	Ka	iPg	12 39 30.0	"	26	Up	iP	16 59 29.2
			iSg	12 39 55.0			Ki	iP	16 58 58.2
			South Baltic. Explosion.					microns sec	
"	25	Up	iP	13 03 26.9				M	E 0.8 19
			Mindanao (h = 70 km).					M	N 0.6 18
"	25	Ka	iPg	14 26 44.0	"	26	Um	iP	16 59 11.0
			iSg	14 27 11.0				Ryukyu Islands (h = 30 km).	
			South Baltic. Explosion.						
"	25	Ka	iPg	15 01 14.3	"	26	Ki	eP	22 13 03
			iSg	15 01 39.7				i	22 13 09.4
			South Baltic. Explosion.					Nicobar Islands (h = 90 km).	
"	25	Ka	iPg	15 32 17.7	"	26	Up	i(P)	22 54 01.8
			iSg	15 32 41.0					
			South Baltic. Explosion.		"	27	Up	iPKP	01 14 57.3
"	25	Ka	iPg	16 11 25.3			Ki	ePKP	01 14 45
			iSg	16 11 49.0			Sk	iPKP	01 14 52.8
			South Baltic. Explosion.					i	01 15 24.6
"	25	Ka	iPg	16 49 34.5			Um	iPKP	01 14 47.7
			iSn	16 50 22.8				i	01 14 58.7
			iSg	16 50 38.1				South of Kermadec Islands	
			D = 410 km = 3.7°.					(h = 30 km).	
			Possibly northwest Russia.		"	27	Up	iP	01 16 07.9
			Origin time = 16 48 36.				Ki	iP	01 16 09.4
			Explosion?				Sk	iP	01 16 25.3
"	25	Um	iP	21 54 39.6			Gb	iP	01 16 32.6
			Japan (h = 70 km).				Um	iS	01 25 35
"	26	Ka	iPg	07 12 01.9				Nicobar Islands (h = 10 km).	
			iSg	07 12 27.4	"	27	Up	iP	01 20 26.3
			South Baltic. Explosion.				Ki	iP	01 20 27.6 C
"	26	Gb	iSg	07 50 24.6				ipP	01 20 35.6
		Ka	iPg	07 49 20.1			Um	iP	01 20 23.4
			iSg	07 49 45.5				ipP	01 20 31.2
			South Baltic. Explosion.					Nicobar Islands.	
"	26	Gb	iSg	07 50 24.6				h = 30 km (Ki,Um).	
		Ka	iPg	07 49 20.1				Origin time = 01 08 42.	
			iSg	07 49 45.5	"	27	Ki	iPn	05 30 39.1
			South Baltic. Explosion.		cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
June	27	Ki	iSn	05 31 35.2	June	27	Ki		microns sec	
cont.			iSg	05 31 53.3	cont.			M	E 8.6 13	
				D = 490 km = 4.4°.				M	N 3.9 15	
		Sk	iSg	05 34 30.6		Um	eP		11 47 41	
		Um	iSn	05 32 20.9			i		11 47 55.7	
			iSg	05 32 59.2			eS		11 57 14	
				D = 700 km = 6.3°.		Ka	iP		11 48 10.3	
		Northwest Russia,				Formosa (h = 25 km).				
		67.9°N, 32.2°E.				Magn. = 6.3 (Up,Ki).				
		Origin time = 05 29 30.								
		Explosion?				"	27	Up	iP	14 56 32.3
"	27	Up	iP	07 35 40.8			Ki	iP	14 55 39.1	
		Ki	iP	07 35 08.5			Um	iP	14 56 05.1	
		Um	iP	07 35 22.4 C			Aleutian Islands (h = 50 km).			
		South of Japan (h = 470 km).				"	27	Ki	iP	15 54 47.1
							Alaska (h = 30 km).			
"	27	Ki	iPKP	10 04 39.6 C		"	27	Up	iP	17 48 49.5
				microns sec			Ki	iP	17 48 12.1	
		PKP	Z'	0.1 1.3			Talaud Islands (h = 90 km).			
		M	E	0.6 18		"	27	Up	iP	22 11 21.5
		M	N	0.7 18			Um	eP	22 11 02	
		Bouvet Island (h = 30 km).					South of Japan (h = 10 km).			
"	27	Up	iP	11 18 56.9		"	28	Up	iPKP	03 52 13.9
				microns sec					microns sec	
		M	E	0.6 17			M	E	1.5 20	
		M	N	0.9 17			M	N	1.7 21	
		M	Z	1.7 18			M	Z	3.0 19	
		Ki	iP	11 18 02.0 C			Ki	iPKP	03 52 04.0	
			iS	11 25 31				microns sec		
				microns sec			M	E	2.0 19	
		P	Z'	0.1 1.0			M	N	2.6 23	
		S	N	0.6 7			Um	iPKP	03 52 09.3	
		M	E	0.5 14				iS	04 00 07	
		M	N	0.6 15				eSS	04 08 40	
		D = 5700 km = 51 1/2°.					New Ireland (h = 50 km).			
		Sk	iP	11 18 27.3		"	28	Ki	iP	12 23 35.1
		Um	iP	11 18 31.2			West Pakistan (h = 30 km).			
		Ka	iP	11 19 19.4		"	28	Up	---	
		Alaska (h = 10 km).						microns sec		
"	27	Ki	iP	11 33 52.3			M	E	0.6 15	
		Sk	iP	11 34 17.6 D			M	N	0.7 15	
		Alaska (h = 40 km).					M	Z	1.4 15	
"	27	Up	iP	11 47 56.9 C			Ki	eP	15 56 17	
				microns sec				i	15 56 30.0	
		M	E	6.4 17				microns sec		
		M	N	14 21			M	E	1.0 12	
		M	Z	9.8 18			M	N	0.4 13	
		Ki	iP	11 47 33.0 C			Formosa (h = 30 km).			
			ePa	11 52 02		"	28	Ki	iPKP	18 15 47.0
			e(S)	11 57 09				iSKP	18 18 20.1	
				microns sec						
		(S)	E	1.4 11						
		(S)	N	1.1 10						
cont.					cont.					

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1965					1965				
June cont.	28	Ki	microns sec		June	29	Ka	iP	16 30 00.3
			SKP Z'	0.1 1.4					
		Gb	iPKP	18 16 05.3 C	"	29	Up	i(P)	20 47 15.0
		Um	iPKP	18 15 48.7					
			iSKP	18 18 32.1	"	30	Up	---	
		Ka	iPKP	18 16 07.3				microns sec	
		Fiji Islands (h = 560 km).					M	E	0.8 18
"	28	Up	iP	20 36 46.5			M	N	1.4 23
"	28	Up	iP	22 54 39.3			M	Z	1.5 19
"	28	Up	iP	22 59 15.5			Ki	iP	03 06 45.7 C
"	29	Sk	iP	00 47 39.4			ePP		03 10 43
		Austria (h = 40 km).						microns sec	
"	29	Up	iP	02 15 22.3			PP	E	0.8 8
		Ki	iP	02 14 35.6			M	E	1.7 19
			microns sec				M	N	0.9 19
		M	E	0.7 19	"	30	Um	iP	03 06 50.3
		M	N	0.7 21			iPP		03 10 56
		Um	iP	02 14 57.1			iSKS		03 17 28
		Kurile Islands (h = 30 km).					Molucca Sea (h = 30 km).		
"	29	Up	iPKP	02 25 24.9	"	30	Ki	iP	03 16 05.9
		Um	iPKP	02 25 09.4			Um	iP	03 16 15.8
		New Hebrides Islands (h = 640 km).					Ryukyu Islands (h = 110 km).		
"	29	Up	iP	04 34 06.4 C	"	30	Up	iP	08 44 22.3 C
		Ki	iP	04 35 00.0			ipP		08 44 38.9
		Um	iP	04 34 36.8			iS		08 53 14
		North Atlantic Ocean (h = 30 km).						microns sec	
"	29	Up	iP	05 20 06.6			P	Z'	0.6 0.8
		Kurile Islands (h = 30 km).					M	E	1.1 19
"	29	Up	iP	10 50 49.6 C			M	N	1.8 22
"	29	Up	iPKP	15 06 20.9			M	Z	3.0 23
		Sk	iPKP	15 06 14.3			D = 7450 km = 67°.		
		Gb	iPKP	15 06 29.1			Ki	iP	08 43 29.1 C
		Um	iPKP	15 06 09.2 C				microns sec	
			i	15 06 12.4			P	Z'	0.4 1.0
		Ka	iPKP	15 06 29.8			M	E	1.7 19
		Kermadec Islands (h = 70 km).					M	N	1.8 19
"	29	Up	iP	15 46 03.6			M	Z	3.4 19
		Ki	iP	15 47 10.5			Sk	iP	08 44 02.6 C
		Sk	iP	15 46 42.0			Gb	iP	08 44 39.7 C
		Um	iP	15 46 35.0			ipP		08 44 53.8
			i	15 47 08.4			Um	iP	08 43 55.0 C
		Ka	eP	15 45 30			Ka	iP	08 44 45.3 C
			i	15 45 36.8			ipP		08 45 00.7
		Crete (h = 15 km).					i		08 45 35.6
							Aleutian Islands. h = 60 km (Up,Gb,Ka). Magn. = 6.4 (Up,Ki).		
"	29	Up	iP	15 46 03.6	"	30	Up	iP	12 47 04.9
		Ki	iP	15 47 10.5				microns sec	
		Sk	iP	15 46 42.0			P	Z'	0.1 1.0
		Um	iP	15 46 35.0			Ki	iP	12 46 11.1 C
			i	15 47 08.4				microns sec	
		Ka	eP	15 45 30			P	Z'	0.1 1.0
			i	15 45 36.8			cont.		
		Crete (h = 15 km).							

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1965

June 30 Sk iP 12 46 48.1
cont. Gb iP 12 47 25.4
Um iP 12 46 36.6 C
Ka iP 12 47 29.3
Kamchatka (h = 30 km).
Magn. = 5.7 (Up,Ki).

" 30 Up iP 17 21 42.8
microns sec
P Z' 0.1 0.8
Ki iP 17 20 50.0 C
microns sec
P Z' 0.1 1.0
Um iP 17 21 16.0 C
ipP 17 21 32.1
Aleutian Islands.
h = 60 km (Um).
Magn. = 5.8 (Up,Ki).

Markus Båth
February 17, 1966

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965					
July	2	Up	iP	05 18 02.1	July	2	Up	microns sec	
		Ki	iP	05 17 09.0 C	cont.		P	N 4.6 2	
		Um	iP	05 17 34.0			P	Z 8.3 2	
				Aleutian Islands (h = 100 km).			P	Z' 1.1 0.5	
"	2	Up	iPKP2	05 27 19.0			S	E 2.5 4	
		Ki	ePKP	05 26 45			S	N 14 9	
		Um	iPKP	05 26 54.9			P'P'	Z' 1.0 1.5	
				New Zealand (h = 60 km).			M	E 20 20	
							M	N 24 20	
"	2	Up	iP	08 44 59.8			M	Z 19 19	
				microns sec			D = 7400 km = 66 1/2°.		
			P	Z' 0.1 0.6		Ki	iP	21 08 36.0 C	
"	2	Ki	iP	12 03 26.7			ipP	21 08 50	
				microns sec			iPP	21 10 44	
			P	Z' 0.1 1.5			i(Pa)	21 12 50	
		Um	eP	12 03 35			iS	21 16 32	
"	2	Gb	eP	12 18 23			iP'P'	21 38 11.5	
"	2	Up	iP	15 23 10.6				microns sec	
"	2	Up	iP	15 34 43.7			P	N 8.1 8	
"	2	Up	i(Sn)	19 00 28.0			P	Z 14 9	
			iSg	19 00 50.6			pP	E 2.3 8	
		Um	iPg	19 00 29.2			PP	N 8.6 13	
			iSg	19 01 36.3			S	E 7.7 10	
			D = 520 km = 4.7°.				S	N 12 11	
		Ka	iSg	19 02 08.0			P'P'	Z' 0.7 1.3	
			Off north coast of Esthonia,				M	E 36 22	
			59.6°N, 24.4°E.				M	N 36 22	
			Origin time = 18 58 57.				M	Z 44 21	
			Explosion?				D = 6500 km = 58 1/2°.		
"	2	Up	iP	20 22 23.9		Gb	iP	21 09 43.3 C	
"	2	Up	iP	20 30 31.5 C			eP'P'	21 37 35	
			i(pP)	20 30 43.2			i	21 37 44.9	
			microns sec			Um	iP	21 09 02.8 C	
			P	Z' 0.1 0.8			iS	21 17 24	
		Ki	iP	20 29 38.0			eP'P'	21 37 56	
			microns sec			Ka	iP	21 09 52.0 C	
			P	Z' 0.2 1.2			iP'P'	21 37 40.1	
		Gb	iP	20 30 49.3			Aleutian Islands.		
			i	20 30 54.4			h = 60 km (Ki).		
		Um	iP	20 30 03.9 C			Magn. = 7.3 (Up,Ki).		
				Aleutian Islands (h = 40 km).			This earthquake exhibits an		
				Magn. = 5.9 (Up,Ki).			unusually long-period		
"	2	Up	iP	21 09 29.3 C			character, both in body and		
			iPa	21 13 59			surface waves. For instance,		
			iS	21 18 14			on Up long-period records S		
			iScS	21 19 24			has a pronounced period of		
			iP'P'	21 37 45.7			about 35 sec, in addition to		
							the one reported above.		
cont.					"	2	Up	iP	21 43 01.1
							Ki	iP	21 42 32.5
							Um	iP	21 42 44.8
					"	2	Up	iP	23 04 51.1

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
July	6	Ki	iP	01 21 55.4	July	6	Um	iP	03 24 10.5 D
		Um	iP	01 22 24.1 C				iS	03 28 37
		Alaska (h = 50 km).					Ka	eP	03 22 55
"	6	Ki	e	02 22 09				i	03 22 56.1
			iSg	02 22 12.9			Greece (h = 30 km).		
		Sk	e	02 22 16			Magn. = 6.6 (Up,Ki).		
			iSg	02 22 19.8			Well developed higher modes.		
		Um	iPg	02 21 52.4			Um (especially N) exhibits		
			iSn	02 22 27.7			long-period motion (periods		
			iSg	02 22 40.4			around 50 sec) between P and S.		
		D = 380 km = 3.4°.			"	6	Sk	iP	03 27 42.9
		Nordlands Fylke, Norway,					Um	iP	03 27 41.6
		66.4°N, 15.0°E.			"	6	Um	iP	03 31 18.9
		Origin time = 02 20 47.			"	6	Ka	iP	03 52 37.8
"	6	Ki	iPKP	03 23 27.2	"	6	Up	iP	04 19 40.2 C
		Um	ePKP	03 23 31				iPcP	04 20 07.0
		Loyalty Islands (h = 40 km).							microns sec
"	6	Up	iP	03 23 32.5 D				P	Z' 0.1 0.5
			iS	03 27 28			Ki	iP	04 18 52.3 C
			iLg1	03 30 20					microns sec
			iL(3.23)	03 31 05				P	Z' 0.1 0.8
				microns sec			Sk	iP	04 19 27.7 C
		P	E	1.4 5			Gb	iP	04 20 00.8 C
		P	N	11 7			Um	iP	04 19 14.0
		P	Z	14 7			Ka	iP	04 20 02.4 C
		P	Z'	1.5 1.0			Kurile Islands (h = 40 km).		
		S	E	21 9			Magn. = 5.9 (Up,Ki).		
		S	N	20 13	"	6	Ki	iP	04 47 14.0
		S	Z	22 11				i	04 47 23.8
		M	E	110 19			Philippine Islands		
		M	N	68 9			(h = 50 km).		
		M	Z	80 10					
		D = 2400 km = 21 1/2°.			"	6	Up	iP	05 01 24.0
		Ki	iP	03 24 45.5 D			Ki	eP	05 01 17
			iPP	03 25 41			Um	iP	05 01 16.7
			iS	03 29 35			Borneo (h = 40 km).		
			iSa	03 30 46	"	6	Up	iP	05 09 13.7
			iLg2	03 34 42					microns sec
				microns sec			M	E	0.7 15
		P	N	2.8 7			M	N	0.8 19
		P	Z	3.2 7			M	Z	0.7 15
		P	Z'	0.3 1.3			Ki	iP	05 08 18.1
		PP	N	4.9 6					microns sec
		PP	Z	4.1 5			M	E	1.0 16
		S	E	4.1 9			M	N	0.6 17
		S	N	8.8 11			M	Z	1.1 17
		M	E	100 15			Sk	iP	05 08 54.9
		M	N	35 10			Gb	iP	05 09 33.5
		M	Z	40 10			Um	iP	05 08 43.4
		D = 3200 km = 29°.					Ka	iP	05 09 38.1
		Sk	iP	03 24 13.6 D			Kamchatka (h = 30 km).		
			iS	03 28 55.2					
		Gb	iP	03 23 20.4 D					

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965					1965				
July	6	Ki	iP	05 27 59.4	July	6	Up	iY	19 01 47
				Mindanao (h = 100 km).	cont.			eSP	19 04 27
"	6	Ka	iP	05 55 04.7				i	19 05 04.1
"	6	Sk	iP	06 28 10.1				iPKKP	19 05 11.7
		Um	eP	06 28 06					microns sec
				Greece.				PP	N 0.4 5
"	6	Ki	iP	13 19 52.3				PP	Z' 0.1 1.0
				Philippine Islands				SKS	E 0.7 6
				(h = 30 km).				SKS	N 0.8 5
"	6	Up	eP	13 28 42				M	E 0.7 18
		Ki	iP	13 28 45.2				M	N 0.8 19
		Sk	eP	13 29 07				M	Z 0.9 18
		Um	iP	13 28 36.7					(D = 12800 km = 115°).
			i	13 28 41.2				Ki	ipP
				Kashmir (h = 170 km).					18 52 18.7
"	6	Ki	iP	13 40 46.8 C					iPKP
		Sk	iP	13 40 18.6					18 54 19.9
		Um	iP	13 40 10.6					iPP
				Crete (h = 60 km).					18 54 57.8
"	6	Up	iP	13 57 21.1					iSKS
				microns sec					19 00 08
			P	Z' 0.1 0.7					iY
"	6	Up	iPKP	15 08 21.3					19 01 07
		Ki	iPKP	15 08 35.6					iSP
		Um	iPKP	15 08 29.3					19 03 38
				South Sandwich Islands					i
				(h = 60 km).					19 05 24.7
"	6	Up	iP	15 39 14.4					iPKKP
				microns sec					19 05 38.2
			P	Z' 0.1 0.9					microns sec
"	6	Ki	iP	15 38 20.5					PP
		Sk	iP	15 38 54.9 C					E 0.4 6
		Gb	iP	15 39 32.9					PP
		Um	iP	15 38 46.8					N 0.3 6
				Aleutian Islands (h = 50 km).					PP
"	6	Up	iP	16 17 08.4					Z 1.0 4
				microns sec					SKS
			P	Z' 0.1 0.5					E 1.1 10
"	6	Ki	iP	17 07 27.8					SKS
				Algeria.					N 0.8 10
"	6	Up	iPKP	18 54 31.3					PKKP
		iX		18 55 22.4					Z' 0.1 1.2
		iPP		18 55 43.3					M
		ipPP		18 57 23					E 0.5 16
		iSKS		19 00 30					M
									N 0.5 17
									M
									Z 0.7 17
									(D = 12000 km = 108°).
"	6	Up	iP	16 17 08.4					Sk
				microns sec					iPKP
			P	Z' 0.1 0.5					18 54 29.6
"	6	Ki	iP	17 07 27.8					iX
				Algeria.					18 55 18.0
"	6	Up	iPKP	18 54 31.3					iPP
		iX		18 55 22.4					18 55 38.1
		iPP		18 55 43.3					iPKKP
		ipPP		18 57 23					19 05 06.7
		iSKS		19 00 30					Gb
									iPP
									18 55 50.6
									i
									18 56 06.9
									iPKKP
									19 04 52.8
									i
									19 06 06.1
									Um
									ipP
									18 52 25
									i
									18 53 51.7
									iPKP
									18 54 24.6
									iPP
									18 55 01.8
									i!
									18 55 17
									ipPP
									18 56 57
									isPP
									18 57 41
									iSKS
									19 00 17
									iY
									19 01 22
									iSP
									19 03 46
									i
									19 05 16.4
									iPKKP
									19 05 26.5
									Ka
									iPKP
									18 54 37.9
									ePP
									18 55 49
									Solomon Islands (h = 510 km).
									Magn. = 6.4 (Up,Ki).

cont.

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

Year	Month	Day	Location	Phase	Time	Notes
1965	July	6	X (Up,Sk) and Y (Up,Ki,Um)			are significant but unidentified phases.
"	"	6	Um	i(Sg)	22 58 02.7	
"	"	7	Ki	iP	00 05 46.0	Jan Mayen (h = 40 km).
"	"	7	Ki	iP	02 22 05.9	C
"	"	7	Um	iP	04 08 49.3	
"	"	7	Ki	iP	04 59 00.1	
"	"	"	Sk	iP	04 59 20.9	
"	"	"	Um	iP	04 58 52.9	D
"	"	"				Tadzhik-Sinkiang (h = 30 km).
"	"	7	Um	iP	11 23 04.3	
"	"	7	Ki	iPKP	12 27 54.0	
"	"	"	Sk	ePKP	12 27 59	
"	"	"	Um	iPKP	12 27 50.4	
"	"	"				South of Australia (h = 30 km).
"	"	7	Up	iP	14 32 57.7	
"	"	"	Ki	iP	14 32 03.9	C
"	"	"	Sk	iP	14 32 37.8	
"	"	"	Um	iP	14 32 30.0	C
"	"	"				Aleutian Islands (h = 50 km).
"	"	7	Up	iP	17 26 48.0	
"	"	"		ipP	17 26 57.8	
"	"	"	Ki	iP	17 25 55.2	
"	"	"	Sk	iP	17 26 28.6	C
"	"	"	Um	iP	17 26 21.0	
"	"	"				Aleutian Islands. h = 40 km (Up).
"	"	7	Up	iP	21 50 13.4	
"	"	"		ipP	21 51 09.9	
"	"	"				microns sec
"	"	"		P	Z' 0.3 0.7	
"	"	"	Ki	iP	21 49 38.0	
"	"	"		i	21 49 50.6	
"	"	"		ipP	21 50 32.1	
"	"	"		iS	21 58 29	
"	"	"				microns sec
"	"	"		P	Z' 0.2 1.2	
"	"	"		S	E 0.7 7	
"	"	"		M	E 0.5 16	
"	"	"		M	N 0.4 18	
"	"	"		M	Z 0.7 17	
"	"	"				D = 7800 km = 70°.
cont.						
1965	July	7	Sk	iP	21 50 09.1	C
cont.	"	"		eS	21 59 31	
"	"	"	Gb	iP	21 50 32.8	C
"	"	"	Um	iP	21 49 53.3	C
"	"	"		ipP	21 50 50.3	
"	"	"	Ka	iP	21 50 31.3	
"	"	"	Um	iS	21 58 57.4	
"	"	"		i	21 59 33	
"	"	"		i	21 59 59	
"	"	"				South of Japan. h = 240 km (Up,Ki,Um). Magn. = 6.1 (Up,Ki).
"	"	7	Up	iP	23 13 17.7	
"	"	"	Ki	iP	23 13 15.7	D
"	"	"				microns sec
"	"	"		P	Z' 0.1 0.9	
"	"	"	Sk	iP	23 13 30.2	
"	"	"	Um	iP	23 13 14.3	
"	"	"				Sunda Strait (h = 110 km).
"	"	7	Um	iP	23 16 30.5	
"	"	"		i	23 16 45.4	
"	"	7	Up	iP	23 46 23.0	C
"	"	"		ipP	23 46 32.5	
"	"	"				microns sec
"	"	"		P	Z' 0.1 1.0	
"	"	"		M	E 0.7 19	
"	"	"		M	N 0.9 18	
"	"	"		M	Z 1.0 16	
"	"	"	Ki	iP	23 45 30.2	C
"	"	"				microns sec
"	"	"		M	E 2.2 17	
"	"	"		M	N 1.4 15	
"	"	"		M	Z 2.8 16	
"	"	"	Sk	iP	23 46 02.7	C
"	"	"	Gb	iP	23 46 40.0	
"	"	"		ipP	23 46 50.7	
"	"	"	Um	iP	23 45 55.8	C
"	"	"		ipP	23 46 07.6	
"	"	"	Ka	iP	23 46 46.1	
"	"	"				Aleutian Islands. h = 40 km (Up,Gb,Um).
"	"	8	Up	eP	00 17 13	
"	"	"		i	00 17 22.5	
"	"	"	Ki	iP	00 15 59.1	
"	"	"				microns sec
"	"	"		P	Z' 0.1 1.0	
"	"	"	Sk	iP	00 16 14.2	
"	"	"		iS	00 18 00.8	
"	"	"	Gb	iP	00 17 33.6	
"	"	"		i	00 17 38.9	
"	"	"	Um	iP	00 16 36.9	
"	"	"	Ka	iP	00 17 54.6	
"	"	"				Jan Mayen (h = 30 km).

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1965				1965							
July	8	Ki	iP	04 12 02.4	July	8	Up	iPKP	20 47 12.4		
				microns sec			Ki	iPKP	20 46 41.7		
			P	Z' 0.1 1.0			Sk	iPKP	20 46 54.5		
		Sk	iP	04 12 10.9			Um	iPKP	20 46 51.4 C		
		Sunda Strait (h = 90 km).					New Zealand (h = 220 km).				
"	8	Ki	iPn	05 25 02.0	"	9	Up	i(P)	08 15 06.7		
			iSn	05 25 57.2	"	9	Up	iP	16 10 22.5		
			iS ^x	05 26 10.5	"	9	Up	i(P)	21 09 46.1		
			iSg	05 26 20.5			Um	i(P)	21 09 30.0		
			D = 490 km = 4.4°.		"	10	Up	---			
		Sk	eSg	05 28 48				microns sec			
			i	05 29 00.1			M	E	0.9 19		
		Um	iPn	05 25 30.9			M	N	1.5 19		
			iSn	05 26 40.3			M	Z	2.0 21		
			iSg	05 27 30.5			Sk	iP	04 36 48.9		
			D = 690 km = 6.2°.				Kamchatka (h = 30 km).				
		Northwest Russia, 67.8°N, 32.1°E. Origin time = 05 23 55. Explosion?					"	10	Up	iP	08 15 14.3
"	8	Sk	iP	06 30 51.2			Sk	iP	08 15 51.6 C		
"	8	Ki	ePn	08 25 20			Ka	iP	08 14 39.5 C		
			iSg	08 25 53.2			Crete (h = 30 km).				
		Sk	eSg	08 26 37	"	10	Up	iP	13 03 22.3 D		
		Um	iSg	08 26 50.5				microns sec			
		Nordlands Fylke, Norway, 67.2°N, 14.8°E. Origin time = 08 24 37.						P	Z' 0.1 1.0		
"	8	Ka	iPg	10 50 40.7			Sk	eP	13 03 10		
			iSg	10 51 07.5			Kurile Islands (h = 30 km).				
		South Baltic. Explosion.			"	10	Sk	iSg	14 19 05.5		
"	8	Sk	iPKP	13 32 11.2			Um	iSg	14 19 28.2		
		Um	iPKP	13 32 04.2			Possibly Nordlands Fylke, Norway.				
"	8	Up	iP	17 08 55.8	"	10	Um	eP	17 36 19		
"	8	Ki	iPn	18 34 32.0	"	10	Um	iP	19 32 44.6		
			iSn	18 35 20.4			Japan (h = 140 km).				
			iSg	18 35 35.8	"	11	Up	iP	06 22 35.9		
			D = 420 km = 3.8°.				Sk	iP	06 22 08.7		
		Sk	eSg	18 38 21			Um	iP	06 22 09.8		
		Um	iPn	18 35 09.5			Kodiak Island (h = 30 km).				
			iSg	18 37 04.3	"	11	Sk	iP	07 22 53.6		
			D = 720 km = 6.5°.				Um	iP	07 22 55.2 D		
		Northwest Russia, 69.0°N, 30.4°E. Origin time = 18 33 30. Explosion?					Kodiak Island (h = 10 km).				
"	8	Ka	iPg	09 58 55.5	"	11	Ka	iPg	09 58 55.5		
			iSg	09 59 22.7				iSg	09 59 22.7		
		South Baltic. Explosion.									

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1965				1965					
July	11	Ka	iPg	10 42 53.2	July	12	Up	iP	14 00 01.8
			iSg	10 43 20.0			Ki	iP	14 00 04.4
				South Baltic.				i	14 00 11.0
				Explosion.			Sk	iP	14 00 27.2
"	11	Ka	iPg	11 46 01.2			Um	iP	14 00 00.1
			iSg	11 46 28.5			Ka	iP	14 00 06.6
				South Baltic.					Hindu Kush (h = 220 km).
				Explosion.	"	12	Ki	iPKP	14 15 43.4 C
"	11	Ka	iPg	12 31 44.9					Argentina (h = 120 km).
			iSg	12 32 11.9	"	12	Up	iP	16 30 33.1
				South Baltic.	"	12	Up	iP	18 52 46.8
				Explosion.			Ki	iP	18 52 45.9
"	11	Ka	iPg	13 37 01.6				i	18 52 48.7
			iSg	13 37 28.5					microns sec
				South Baltic.				P	Z' 0.1 1.0
				Explosion.			Sk	iP	18 52 59.8 D
"	11	Um	iP	13 41 26.3			Um	iP	18 52 44.1 D
			i	13 41 38.7					Sumatra (h = 70 km).
"	11	Up	eP	16 26 42	"	12	Up	iP	21 54 39.8
		Sk	eP	16 26 38	"	13	Ki	ePn	06 44 18
		Um	iP	16 26 21.3				iSn	06 45 13.9
			ipP	16 26 35.8				iSg	06 45 33.4
				Japan.					D = 490 km = 4.4°.
				h = 60 km (Um).			Sk	eSg	06 48 04
"	12	Sk	i(P)	01 16 29.5					Northwest Russia.
		Um	ePn	01 15 57					Origin time = 06 43 09.
			iSn	01 17 04.6					Explosion?
			iSg	01 17 36.0	"	13	Ki	iP	10 17 01.8
				D = 620 km = 5.6°.					Java (h = 60 km).
				Region of northern	"	13	Up	iP	14 20 17.7 D
				Fennoscandia.				i	14 20 52.6
				Origin time = 01 14 31.			Ki	iP	14 19 23.1
"	12	Um	iP	03 17 24.6					Aleutian Islands (h = 60 km).
"	12	Um	iP	06 53 28.2	"	13	Ki	eL	15 26
				Unimak Island (h = 20 km).					microns sec
"	12	Um	iP	09 39 34.0				M	E 0.6 21
"	12	Um	iP	09 57 23.2				M	N 0.7 23
			iS	10 02 03				M	Z 1.3 23
			i	10 02 15					Celebes (h = 100 km).
				Turkey (h = 20 km).	"	13	Um	iP	15 48 19.8
"	12	Um	iP	11 32 23.4	"	13	Up	iP	23 17 17.1
				Japan (h = 60 km).			Ki	iP	23 17 26.0 C
"	12	Um	iP	12 56 00.5			Sk	iP	23 17 42.7
							Um	iP	23 17 15.4
							Ka	iP	23 17 22.1
									Hindu Kush (h = 160 km).

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1965				1965			
July	14	Ki eP	02 38 56	July	15	Up i	06 20 22.4
		Gulf of Alaska (h = 10 km).		cont.		Ki ePg	06 17 13
"	14	Ki iP	12 26 39.6 C			iSg	06 17 50.4
		Gb iP	12 27 47.3			microns sec	
		Um iP	12 27 06.2 C			Sg Z' 0.2	0.8
		Ka iP	12 27 55.9 C			D = 300 km = 2.7°.	
		Aleutian Islands				Sk ePg	06 17 22
		(h = 20 km).				i	06 17 40.7
"	14	Ki iP	13 56 00.7			iS ^x	06 18 01.9
		Um iP	13 56 27.7			iSg	06 18 07.9
		Ka iP	13 57 17.5			D = 360 km = 3.2°.	
		Aleutian Islands (h = 20 km).				Gb iSg	06 21 16.8
"	14	Up eP	17 09 19			Um iPn	06 17 25.2
		Sk i(P)	17 09 28.6			iSn	06 18 13.4
"	14	Up iP	18 06 50.0			i	06 18 30.2
			microns sec			iSg	06 18 34.1
		P	Z' 0.1 1.0			D = 440 km = 4.0°.	
		Ki iP	18 05 57.2	"	15	Up iPg	10 21 20.3
			microns sec			iSg	10 21 47.4
		P	Z' 0.2 1.0			iL(2.78)	10 21 59.8
		Sk iP	18 06 27.6			microns sec	
		ePcP	18 07 02			Sg Z' 0.1	0.5
		Gb iP	18 07 05.1			Sk iSg	10 23 12.7
		Um iP	18 06 24.2			Um iPg	10 21 34.8
		Ka iP	18 07 13.9			iSg	10 22 11.1
		Aleutian Islands (h = 10 km).				iL(2.80)	10 22 31.2
		Magn. = 5.8 (Up,Ki).				Gulf of Bothnia.	
"	14	Up iP	18 07 32.7			Explosion.	
		Ki iP	18 06 39.0	"	15	Up iPg	13 47 37.0
		Um iP	18 07 06.3			iSg	13 48 03.0
		Ka iP	18 07 55.1			microns sec	
		Aleutian Islands.				Sg Z' 0.1	0.5
		Origin time = 17 56 33.				Sk eSg	13 49 28
		An alternative interpretation				Um iPg	13 47 49.7
		would be that these are pP-				iSg	13 48 26.6
		phases to the preceding				Gulf of Bothnia.	
		shock, which then would have				Explosion.	
		a focal depth of 180 km.		"	15	Up iP	14 26 13.8
"	14	Up iP	18 12 27.1			Ki eP	14 26 20
		Ki iP	18 11 34.0			Sk iP	14 25 48.6
		Um iP	18 12 00.7 D			Um eP	14 26 11
		Ka iP	18 12 50.5			Ka iP	14 26 16.6
		Aleutian Islands (h = 25 km).				Off east coast of USA.	
"	15	Sk iPKP	02 36 00.1			Explosion.	
		Fiji Islands (h = 590 km).		"	15	Up iPg	15 27 34.6
"	15	Up iSn	06 19 26.6			iSg	15 27 59.1
		i	06 19 41.3			microns sec	
		iSg	06 20 10.2			Sg Z' 0.3	0.5
cont.				cont.			

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1965					1965				
July	17	Sk	eSg	11 28 12	July	17	Um	iPg	14 29 48.2
cont.		Um	iSn	11 28 20.7	cont.			iSg	14 30 23.5
			iSg	11 28 35.0					Gulf of Bothnia.
				Nordlands Fylke, Norway,					Explosion.
				66.5°N, 14.6°E.					
				Origin time = 11 26 37.	"	17	Ki	iP	16 03 42.2
"	17	Up	iPg	12 46 33.0			Sk	iP	16 03 19.9
			iSg	12 46 57.1			Um	iP	16 03 41.0
				microns sec					Leeward Islands (h = 40 km).
			Pg	Z' 0.1 0.5	"	17	Up	iP	18 32 17.2 C
			Sg	Z' 0.1 0.5			Ki	iP	18 31 23.1 C
		Um	iPg	12 46 48.2			Sk	iP	18 31 53.0
			iSg	12 47 23.8			Gb	iP	18 32 30.8
				Gulf of Bothnia.			Um	iP	18 31 50.8 C
				Explosion.					Alaska (h = 30 km).
"	17	Sk	iPP	13 07 47.3	"	18	Ki	iP	07 33 38.6
		Um	ePKP	13 06 24					Alaska (h = 30 km).
			ePP	13 07 29	"	18	Ki	eP	08 08 33
			i	13 18 26			Um	iP	08 08 51.9
				New Britain (h = 30 km).					Japan (h = 100 km).
"	17	Up	iPKP	13 18 45.9 C	"	18	Ki	eP	10 09 52
			i	13 18 51.5			Um	iP	10 10 13.6
			i	13 19 07.0					Kurile Islands (h = 20 km).
				microns sec	"	18	Ki	iP	12 50 16.9
			PKP	Z' 0.4 1.1			Um	iP	12 49 49.8 C
		Ki	iPKP	13 18 36.8	"	18	Up	iPKP	13 51 20.6
				microns sec			Um	ePKP	13 51 16
			PKP	Z' 0.1 1.2					Kermadec Islands (h = 30 km).
			M	E 0.8 19	"	18	Up	iP	18 00 13.1
			M	N 0.6 18			Ki	iP	17 59 20.5
			M	Z 1.3 20			Um	eP	17 59 46
		Sk	iPKP	13 18 43.5					Aleutian Islands (h = 15 km).
			i	13 18 50.1	"	18	Up	iP	22 26 01.8 C
		Gb	iPKP	13 18 54.2					microns sec
			i	13 18 59.0					P Z' 0.1 0.9
		Um	iPKP	13 18 41.6					M E 0.7 19
		Ka	iPKP	13 18 57.2					M N 0.5 18
			i	13 19 02.1					M Z 0.9 18
				Kermadec Islands (h = 25 km).			Ki	iP	22 25 15.0
				PKP is multiple at Up, Sk,				ipP	22 25 26.2
				Gb, Ka with a smaller onset					microns sec
				followed after 5-6 sec by a					P Z' 0.2 1.0
				much larger onset.					M E 0.8 18
"	17	Up	iPg	14 29 33.3 C					M N 0.6 17
			iSg	14 29 55.6					M Z 1.1 19
				microns sec			Sk	iP	22 25 50.4 C
			Pg	Z' 0.2 0.5			Gb	iP	22 26 23.0
			Sg	Z' 0.2 0.5			Um	iP	22 25 36.7 C
		Ki	eSn	14 31 57					
			eSg	14 32 29					
		Sk	iPg	14 30 20.1					
			iSg	14 31 18.2					
cont.					cont.				

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1965				1965									
July cont.	18	Um	ipP	22 25	47.2	July	19	Up	iP	10 26	55.7		
		Ka	iP	22 26	24.3 C			Kurile Islands (h = 60 km).					
		Kurile Islands. h = 40 km (Ki,Um). Magn. = 5.8 (Up,Ki).						"	19	Um	iP	13 30	06.7
"	19	Up	iP	00 14	52.4		"	19	Ka	iPg	13 46	03.1	
		Ki	iP	00 14	05.7					iSg	13 46	24.3	
		Sk	eP	00 14	41			South Baltic. Explosion.					
		Um	iP	00 14	26.8		"	19	Ka	iPg	14 45	00.5	
		Kurile Islands (h = 30 km).									iSg	14 45	21.7
"	19	Up	eP	04 25	33			South Baltic. Explosion.					
			ipP	04 25	41.9		"	19	Up	iPn	22 41	16.7	
		Ki	iP	04 25	38.5					iSn	22 42	25.1	
			ipP	04 25	44.9					iSg	22 43	03.6	
				microns sec							D = 670 km = 6.0°.		
			P	Z'	0.1 1.3			Ki	e	22 43	11		
		Sk	iP	04 25	20.9 C				iSg	22 43	46.1		
			ipP	04 25	30.7			Sk	ePn	22 41	48		
		Gb	iP	04 25	17.7				e(Sn)	22 43	33		
			ipP	04 25	26.1				eSg	22 44	13		
		Um	iP	04 25	39.2				D = 900 km = 8.1°.				
			ipP	04 25	47.3			Um	ePn	22 41	06		
			iS	04 35	55				iSg	22 42	25.1		
		Ka	iP	04 25	30.1				i	22 42	38.7		
		Venezuela. h = 30 km (Up,Ki,Sk,Gb,Um).								D = 520 km = 4.7°.			
"	19	Up	iP	06 58	43.5			Finland-USSR border region, 61.7°N, 29.4°E. Origin time = 22 39 47. Explosion?					
		Ki	iP	06 58	12.1		"	20	Up	iPKP	00 12	31.1 D	
		Sk	iP	06 58	41.2					microns sec			
		Gb	iP	06 59	01.4					PKP	Z'	0.1 0.6	
		Um	iP	06 58	25.7			Ki	eSKP	00 15	07		
		Bonin Islands (h = 490 km).							Gb	iPKP	00 12	40.6 D	
"	19	Ki	iP	07 44	52.7			Um	iSKP	00 15	16.9		
		Um	iP	07 45	19.2			South of Fiji Islands (h = 480 km).					
		Unimak Island (h = 40 km).					"	20	Up	iP	01 05	16.6	
"	19	Ki	iP	09 19	31.8 C			Ki	iP	01 04	47.1		
		Sk	iP	09 19	45.8					microns sec			
		Um	iP	09 19	27.5 C					M	E	0.4 14	
		Sumatra (h = 60 km).									M	N	0.3 15
"	19	Up	iP	09 21	57.7 C			Sk	iP	01 04	52.3		
		Ki	iP	09 21	59.2			Gb	iP	01 05	15.2		
			ipP	09 22	05.3			Um	eP	01 05	02		
				microns sec				Ka	iP	01 05	28.4		
			P	Z'	0.1 1.0			Lower California. Origin time = 00 52 50.					
		Sk	iP	09 22	13.0		"	20	Um	iP	04 15	10.0	
		Gb	iP	09 22	19.7			Japan (h = 30 km).					
		Um	iP	09 21	55.3								
		Sumatra. h = 25 km (Ki).											

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1965				1965				
July	23	Up Gb	iP i(P)	03 53 10.9 D 03 54 33.3	July	24	Um Kurile Islands (h = 30 km).	iP 03 58 13.2 C
"	23	Um	iPKP	05 20 25.0	"	24	Up Ki	iP 11 55 29.3
			South Sandwich Islands (h = 130 km).					----
								microns sec
								M E 0.5 18
"	23	Um	iP i	16 53 15.1 16 53 35.5				M N 0.6 18
								M Z 0.6 16
								Kamchatka (h = 30 km).
"	23	Up	iP	17 11 48.6 C	"	24	Up	iP 18 05 04.8 C
				microns sec				microns sec
				P Z' 0.1 0.9				P Z' 0.1 0.6
		Sk	iP	17 11 22.4 C			Sk	iP 18 05 30.1 C
		Gb	iP	17 11 48.6			Gb	iP 18 05 26.8
		Um	iP	17 11 34.0 C			Um	iP 18 05 02.7 C
			i	17 12 09.5			Ka	iP 18 05 09.5 C
		Ka	iP	17 12 02.1				Hindu Kush (h = 230 km).
				Nevada, USA.				
				Origin time = 17 00 00.	"	25	Up	iP 03 53 01.7
				Probably underground explosion.				iS 04 03 26
"	23	Up	iPn iSn iLgl iSg	20 31 58.9 20 33 17.4 20 33 48.6 20 34 00.5				microns sec
				microns sec				P Z' 0.1 1.0
				Sg Z' 0.1 0.7				M E 1.1 19
				D = 760 km = 6.8°.				M N 1.4 18
								M Z 1.5 19
								D = 9400 km = 84 1/2°.
		Sk	ePg iSn iS ^x iSg	20 31 47 20 32 21.4 20 32 37.7 20 32 49.1			Ki	iS 04 03 24
				D = 520 km = 4.7°.				microns sec
								S E 0.7 6
		Gb	e(P) iSn i iSg	20 31 42 20 32 34.0 20 33 01.1 20 33 06.6				S N 0.5 10
				D = 580 km = 5.2°.				M E 1.8 18
								M N 1.5 17
		Um	ePn i(Sn) iS ^x iSg	20 32 14 20 33 42.9 20 34 25.3 20 34 45.2				M Z 2.0 18
				D = 910 km = 8.2°.			Sk	iP 03 53 18.2
							Gb	iP 03 53 16.2
		Ka	eSn e iSg	20 33 40 20 33 51 20 34 23.7				ipP 03 53 39.8
				D = 840 km = 7.6°.			Um	iP 03 52 57.6
				Norwegian Sea, 61.0°N, 4.0°E.				i 03 53 02.8
				Origin time = 20 30 15.				iS 04 03 19
								Sumatra. h = 90 km (Gb).
								Magn. = 6.0 (Up,Ki).
"	23	Up	iP	21 38 02.1	"	25	Sk	e(Sg) 05 16 32
		Um	iP	21 38 07.8				i 05 16 55.3
				West Pakistan (h = 30 km).			Um	iSn 05 14 38.0
"	24	Um	iP	03 22 23.6				iSg 05 15 19.3
								Probably northwest Russia.
								Explosion?
"	25	Up	iP	07 28 35.8	"	25	Up	iP 08 56 04.7 C
"	25	Up	iP	08 56 04.7 C				iP 08 55 39.8
				Off coast of northern California				i 08 55 46.8
				(h = 30 km).				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965	July	25	Up	iP	13 44 20.1 D	1965	July	26	Sk	iP	00 46 10.4
				iS	13 53 32				Um	iP	00 45 33.8
					microns sec					i	00 45 39.6
				P	Z' 0.3 0.8					Kirghiz SSR (h = 30 km).	
				S	N 0.4 4			"	26	Ki	---
				M	E 1.2 16						microns sec
				M	N 0.9 15					M	E 0.7 19
				M	Z 1.6 17					M	N 0.8 22
				D = 7900 km = 71°.						M	Z 1.3 20
			Ki	iP	13 43 37				Um	iPP	15 45 14
				eS	13 52 10					iPKS	15 46 20
					microns sec				Samoa Islands (h = 25 km).		
				P	Z 0.7 8			"	26	Up	iP
				S	E 0.8 9					i	16 29 08.0
				S	N 0.6 9						16 29 35.3
				M	E 1.5 18						microns sec
				M	N 1.3 14					P	Z' 0.1 0.5
				M	Z 1.4 17				Sk	iP	16 29 04.4
				D = 7100 km = 64°.					Um	iP	16 28 48.9 D
			Sk	iP	13 44 10.9				Ka	iP	16 29 23.4
			Um	iP	13 43 55.6 D				i	16 29 35.5	
				iS	13 52 44				South of Japan (h = 400 km).		
				iSS	13 57 03			"	26	Um	iP
			Ka	iP	13 44 39.7						18 34 11.8 C
				ipP	13 44 49.7						Atlantic Ocean (h = 30 km).
			Japan. h = 40 km (Ka).					"	27	Up	iPKP
			Magn. = 6.0 (Up,Ki).							i	08 46 19.9
"		25	Up	iPKP	17 38 03.5					iPKP2	08 46 24.2
			South of Fiji Islands							iPKP2	08 46 29.3
			(h = 470 km).						Sk	iPKP	08 46 16.1
"		25	Up	iP	21 57 39.3 C					i	08 46 19.5
				iS	22 06 35					iPKP2	08 46 29.1
					microns sec				South of Kermadec Islands		
				P	Z' 0.3 1.0				(h = 15 km).		
				M	E 0.8 17			"	27	Up	iP
				M	N 1.0 17						11 31 24.5 C
				M	Z 1.6 17						microns sec
				D = 7500 km = 67 1/2°.						P	Z' 0.2 1.0
			Ki	iP	21 56 46 C				Sk	iP	11 31 04.4
				iS	22 04 56					ipP	11 31 13.5
					microns sec				Aleutian Islands.		
				M	E 1.7 17				h = 35 km (Sk).		
				M	N 1.5 17			"	27	Up	iP
				M	Z 3.6 18						17 16 37.8 C
				D = 6600 km = 59 1/2°.				"	27	Up	iP
			Sk	iP	21 57 19.9					ipP	17 57 10.6
			Um	iP	21 57 12.2 C					i	17 57 21.0
				iS	22 05 43					i	17 59 16.6
			Ka	iP	21 58 03.1 C				Sk	iP	17 56 58.4
			Aleutian Islands						Kurile Islands.		
			(h = 40 km).						h = 40 km (Up).		
"		25	Up	iP	22 02 41.6			"	27	Up	iP
			Um	iP	22 02 13.9					ipP	21 29 23.9
			Aleutian Islands (h = 25 km).						Ki	iP	21 26 09.0 D
			cont.								

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
July	27	Ki	microns sec		July	28	Sumatra. h = 130 km (Up,Ki,Um).		
cont.			Z' 0.1 0.7		cont.		Magn. = 6.3 (Up,Ki).		
		Sk	iP 21 26 43.2 D			"	29	Ki iP 03 11 37.3 C	
			iPP 21 29 10.8					Sk iP 03 12 08.5	
		Um	iP 21 26 26.2					Um iP 03 11 38.4	
			i 21 26 42.2					Kazakh SSR.	
		Japan	(h = 200 km).					Underground explosion?	
"	27	Ki	iP 21 46 12.6		"	29	Up	iP 08 40 27.9 D	
		Um	iP 21 46 57.9					ipP 08 40 33	
		North of Svalbard	(h = 30 km).					iS 08 49 36	
								iScS 08 50 27	
"	28	Ki	iP 02 35 12.6					iP'P' 09 08 32.7	
"	28	Ki	ePn 05 21 31					microns sec	
			iSn 05 22 16.9					P Z' 1.6 0.8	
			iSg 05 22 30.8					pP N 10 5	
			D = 420 km = 3.8°.					pP Z 16 5	
		Sk	eSg 05 25 13					S E 9.8 9	
		Um	iSn 05 23 02.4					S N 16 8	
		Northwest Russia.						M E 42 17	
		Origin time = 05 20 30.						M N 72 23	
		Explosion?						M Z 60 23	
								D = 7700 km = 69 1/2°.	
"	28	Up	iP 22 41 48.2				Ki	iP 08 39 34.1 D	
			i 22 45 03.2					ipP 08 39 40.1	
			iPP 22 45 19.6					iS 08 47 56	
			iSKS 22 52 01					iScS 08 49 25	
			iS 22 52 20					e(P'P') 09 08 45	
			isS 22 53 20					iP'P' 09 09 00.1	
			iSS 22 58 27					microns sec	
								P N 7.4 8	
								P Z 14 7	
								pP E 2.3 8	
								pP Z' 2.4 1.3	
								S E 14 10	
								S N 17 9	
								S Z 11 10	
								P'P' Z' 1.5 2.5	
								M E 48 20	
								M N 56 18	
								M Z 110 18	
								D = 6800 km = 61°.	
							Sk	iP 08 40 05.0 D	
								ipP 08 40 10.4	
								iS 08 48 54.8	
								iP'P' 09 08 46.3	
							Um	iP 08 40 00.7 D	
								ipP 08 40 06.2	
								iS 08 48 45	
								e(P'P') 09 08 35	
								iP'P' 09 08 47.0	
							Ka	iP 08 40 49.8	
								ipP 08 40 56.4	
								eS 08 50 16	
								eP'P' 09 08 38	
cont.					cont.				

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
July	29	Aleutian Islands.			July	29	Up	iP	15 21 15.8
cont.		h = 25 km (Up,Ki,Sk,Um,Ka).					Ki	iP	15 20 23.1
		Magn. = 7.3 (Up,Ki).						ipP	15 20 35.2
		The PZ'-amplitudes increase					Um	iP	15 20 49.0
		from north to south over							Aleutian Islands.
		Sweden (compare remark to							h = 50 km (Ki).
		the Kurile Islands earthquake							
		on June 11, 1965). An			"	30	Up	iP	07 32 23.7
		alternative interpretation to							microns sec
		the above would be that P and							Z' 0.1 0.6
		pP in fact are multiple P, the					Ki	iP	07 32 27.8 C
		first smaller and of longer						i	07 32 32.6
		period followed after 5-6 sec							microns sec
		by a much larger onset of							Z' 0.4 1.2
		shorter period.					Sk	iP	07 32 11.7
							Gb	iP	07 32 09.8
"	29	Ki iP 09 05 17.9					Um	iP	07 32 29.0 C
		Sk iP 09 04 54.7							Colombia (h = 170 km).
		Um iP 09 05 17.4 C							Magn. = 6.1 (Up,Ki).
		Leward Islands (h = 30 km).			"	30	Up	iP	08 21 14.4
"	29	Up iP 11 19 36.3					Ki	iP	08 20 20.2
		Ki iP 11 18 41.7					Um	iP	08 20 49.6
		Aleutian Islands							Aleutian Islands
		(h = 30 km).							(h = 60 km).
"	29	Up iP 12 31 27.4			"	30	Up	iP	08 42 22.5
		i 12 31 39.7							Aleutian Islands
		Ki iP 12 30 35.2							(h = 30 km).
		microns sec			"	30	Up	iP	19 11 48.0
		P Z' 0.4 2.5							
		Sk iP 12 31 05.2			"	30	Sk	iP	19 15 27.6
		Gb iP 12 31 43.1					Um	iP	19 15 04.8
		Um iP 12 31 01.5							Iran (h = 50 km).
		Ka iP 12 31 50.5			"	30	Up	iP	21 01 07.7
		Aleutian Islands					Ki	iP	21 00 41.5
		(h = 30 km).					Gb	iP	21 01 42.9
		PZ' has an exceptionally long			"	31	Up	iP	07 48 03.9
		period (2.5 sec) at all our						iS	07 57 37
		stations.							microns sec
"	29	Up iP 14 29 20.9							S E 0.4 9
"	29	Up iP 15 19 42.4 C							M E 1.0 17
		microns sec							M N 1.5 15
		P Z' 0.1 1.0							M Z 1.2 15
		Ki iP 15 18 48.4 C							D = 8150 km = 73 1/2°.
		ipP 15 19 03.3					Ki	iP	07 47 25.7
		Sk iP 15 19 19.7						eS	07 56 21
		ipP 15 19 32.6							microns sec
		Gb iP 15 19 57.0							S E 0.7 9
		Um iP 15 19 15.0							S N 0.3 10
		ipP 15 19 28.5							M E 2.5 21
		iS 15 27 53							M N 1.8 17
		Ka iP 15 20 04.0							M Z 3.6 16
		Aleutian Islands.							D = 7500 km = 67 1/2°.
		h = 55 km (Ki,Sk,Um).							

cont.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
July	31	Sk	eP	07 47 56	July	31	Um	iSS	17 28 28
cont.		Gb	iP	07 48 26.1	cont.		Tibet (h = 30 km).		
		Um	iP	07 47 42.0					
			i	07 47 51.5	"	31	Up	iP	19 10 39.5
			iS	07 56 52			Ki	iP	19 10 28.3 C
			iSS	08 01 24					microns sec
		Japan (h = 50 km).						M	E 0.3 12
		Magn. = 5.7 (Up,Ki).						M	N 0.3 11
								M	Z 0.3 11
"	31	Up	eP	11 26 37			Sk	iP	19 10 54.2
		Ki	iP	11 25 42.3			Um	iP	19 10 31.9
			ipP	11 25 50.4			Tibet (h = 30 km).		
		Sk	iP	11 26 11.2					
		Um	iP	11 26 11.9					
			ipP	11 26 21.3					
			iS	11 34 34					
		Kodiak Island.							
		h = 35 km (Ki,Um).							
"	31	Up	iP	11 30 21.6					
"	31	Gb	iPKP	12 06 34.6					
		Tonga Islands (h = 30 km).							
"	31	Up	iPKP	14 45 05.6 C					
				microns sec					
			PKP	Z' 0.2 0.6					
		Sk	iPKP	14 44 58.5					
		Gb	iPKP	14 45 15.3					
		South of Fiji Islands							
		(h = 460 km).							
"	31	Up	iP	16 46 25.3					
				microns sec					
		M	N	0.8 16					
		Ki		---					
				microns sec					
		M	N	0.4 15					
		Sk	iP	16 46 40.1					
		Tibet (h = 30 km).							
"	31	Up	iP	17 17 25.4 C					
				microns sec					
		P	Z'	0.1 0.5					
		M	E	0.7 16					
		M	N	1.4 17					
		M	Z	1.1 17					
		Ki	iP	17 17 13.9					
				microns sec					
		M	E	1.3 16					
		M	N	0.8 15					
		M	Z	1.0 14					
		Sk	iP	17 17 37.2					
			i	17 17 40.1					
		Um	iP	17 17 11.5					
			iS	17 24 48					

cont.

Markus Båth
March 7, 1966

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,

UMEÅ and KARLSKRONA

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

AUGUST 1 - 31, 1965

1965					1965				
Aug.	1	Ki	ePn	05 12 30	Aug.	1	Up	iP	15 12 53.9 D
			iSn	05 13 26.0				iS	15 21 02
			iSg	05 13 44.1					microns sec
			D = 460 km = 4.1°					P	Z' 0.4 0.8
		Sk	eSg	05 16 15				D = 7150 km = 64 1/2°	
		Um	iSn	05 14 11.2			Ki	iP	15 12 08.3
			i	05 14 25.4				ipP	15 13 33.7
			iSg	05 14 50.2				iPP	15 14 21.8
			D = 670 km = 6.1°					iS	15 19 33
			Northwest Russia,					iScS	15 21 16
			67.9°N, 31.2°E.						microns sec
			Origin time = 05 11 30.					P	Z' 0.3 0.8
			Explosion?					S	E 0.3 8
"	1	Up	iPKP	07 47 15.5				M	E 0.8 21
		Sk	ePKP	07 47 13				M	N 0.8 22
			i	07 47 29.8				M	Z 1.6 22
			Fiji Islands (h = 260 km).					D = 6450 km = 58°	
"	1	Ki	e(Pn)	08 57 16			Sk	iP	15 12 44.4 D
			iSn	08 58 22.0				iPP	15 15 05.5
			iSg	08 58 51.0			Gb	iP	15 13 16.8
			D = 580 km = 5.2°				Um	iP	15 12 28.3
		Sk	eSg	09 01 11				iPP	15 14 44.6
		Um	iSg	08 59 34.0				iScS	15 21 38
			Northwest Russia,				Ka	iP	15 13 16.2
			67.1°N, 33.8°E.				Sakhalin.		
			Origin time = 08 56 00.				h = 420 km (Ki).		
			Explosion?		"	1	Up	iP	16 50 49.8 D
"	1	Ki	iP	09 33 12.5					microns sec
			Molucca Passage (h = 90 km).					P	Z' 0.6 0.6
"	1	Up	iP	14 23 34.8			Ki	iP	16 49 59.2 D
		Ki	iP	14 23 24.1					microns sec
		Sk	iP	14 23 49.8				P	Z' 0.6 0.7
		Um	eP	14 23 24			Sk	iP	16 50 35.3 D
			Tibet (h = 30 km).				i	16 50 40.7	
							Gb	iP	16 51 10.7 D
							Um	iP	16 50 22.4 D
								iPcP	16 51 07.3
							Ka	iP	16 51 13.3
							Okhotsk Sea (h = 460 km).		
							Magn. = 6.3 (Up,Ki).		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
Aug.				Aug.					
1	Up	iPKP	19 47 24.5	2	(cont.)				
	Gb	iPKP	19 47 34.7		Um	iPKP	00 04 01.0 C		
	Ka	iPKP	19 47 38.5			iPP	00 07 20		
	South of Tonga Islands (h = 30 km).				Ka	iPKP	00 04 21.8		
"	1	Up	iP	20 18 49.4	"	i	00 04 37.8		
			i	20 18 51.9		South of Kermadec Islands (h = 40 km).			
			microns sec		"	2	Up	iP	05 05 30.0
		P	Z'	0.1 0.5			Ki	iP	05 06 06.5
		M	E	0.7 16			Sk	eP	05 06 02
		M	N	0.8 16		Arabian Sea (h = 40 km).			
		M	Z	1.0 16	"	2	Up	ePKP	13 39 56
	Ki	iP	20 18 38.3				i	13 40 36.7	
		i	20 18 40.9				iPKP2	13 40 42.8	
		microns sec					i	13 45 37	
		M	E	0.6 15			microns sec		
		M	N	0.6 16			PKP2	Z	1.9 5
		M	Z	0.8 14			PKP2	Z'	0.2 1.0
	Sk	iP	20 19 04.0 D				M	E	13 22
		i	20 19 06.2				M	N	19 21
	Gb	iP	20 19 14.1				M	Z	26 22
	Um	iP	20 18 38.1				(D = 17550 km = 158°).		
		i	20 18 41.1			Ki	iPKP	13 39 54.2	
		eS	20 26 15				iPKP2	13 40 28.3	
		eSa	20 30 36				ePP	13 44 09	
	Ka	iP	20 19 02.6				microns sec		
	Tibet (h = 30 km).						PKP	Z	2.1 10
	PZ' is multiple: a small first phase is followed after 2.6 sec (average) by a much larger phase.						PKP2	Z	3.1 6
							PKP2	Z'	0.6 1.5
"	1	Ki	iPKP	20 53 09.8			PP	E	1.4 5
		Sk	iPKP	20 53 20.8			PP	Z	4.0 5
	New Hebrides Islands (h = 30 km).						M	E	22 20
"	2	Up	iPKP	00 04 12.8 C			M	N	14 21
			microns sec				M	Z	39 23
		PKP	Z'	0.1 0.6			(D = 17350 km = 156°).		
		M	E	0.8 20		Sk	ePKP	13 40 00	
		M	N	1.3 21			i	13 40 08.8	
		M	Z	1.7 21			iPKP2	13 40 47.7	
	Ki	iPKP	00 03 51.7		Gb	e(PKP)	13 40 13		
		i	00 03 55.3			iPKP2	13 40 48.4		
		ePP	00 07 07			i	13 40 56.1		
		microns sec			Um	iPKP	13 39 52 C		
		PKP	Z	0.3 5		i	13 40 19.3		
		M	E	1.0 23		iPKP2	13 40 38.0		
		M	N	0.7 20		iPP	13 44 08		
		M	Z	2.0 22		iSKSP	13 54 20		
	Sk	iPKP	00 04 04.4			iSS	14 03 57		
		i	00 04 07.5		Ka	i(PKP)	13 39 46.6		
	Gb	iPKP	00 04 21.7			i	13 40 07.5		
		i	00 04 37.1			iPKP2	13 40 44.4		
(cont.)				"	2	Up	iP	14 47 04.7	
						(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Aug.	2	(cont.)			Aug.	2	Up	iP	17 59 16.5
		Ki	iP	14 47 04.9			Ki	iP	17 59 06.2
			ipP	14 47 12.0			Sk	iP	17 59 32.1
				microns sec			Tibet (h = 30 km).		
			P	Z' 0.2 1.5					
		Sk	iP	14 46 51.8 C	"	2	Ki	iP	18 17 38.4
			ipP	14 46 58.5			Sk	iP	18 17 25.0
		Um	iP	14 47 08.3			Panama (h = 30 km).		
			ipP	14 47 14.1					
		Ka	iP	14 47 03.2	"	2	Ki	iP	18 57 04.1
		Panama.					Sk	eP	18 56 50
		h = 25 km (Ki,Sk,Um).					Panama (h = 30 km).		
"	2	Up	iP	14 48 53.8	"	2	Up	iP	19 20 38.7 C
		Ki	iP	14 48 52.4 C				iSKS	19 31 03
				microns sec			Ki	iP	19 20 38.8 C
			P	Z' 0.1 1.5				eSKS	19 31 04
		Sk	eP	14 48 39					microns sec
		Um	iP	14 48 55.8				P	Z' 0.1 1.5
			ipP	14 49 01.6				SKS	E 0.6 9
		Ka	iP	14 48 51.9 C				SKS	N 0.3 9
		Panama. h = 25 km (Um).						M	E 0.5 19
		Origin time = 14 36 10.						M	N 0.4 17
		This is no doubt another						M	Z 0.7 17
		shock in Panama 01 48 after					Sk	iP	19 20 25.3 C
		the preceding one and slightly					Um	iP	19 20 42.3 C
		smaller. USCGS reports only						iSKS	19 31 08
		the preceding shock.						iS	19 31 21
"	2	Up	iP	16 55 55.9 C			Ka	iP	19 20 36.7 C
			i	16 55 58.8			Panama (h = 30 km).		
			iSKS	17 06 23	"	2	Ki	iP	19 30 28.8
				microns sec			Panama (h = 40 km).		
			M	E 0.9 23					
			M	N 0.9 23	"	2	Ki	iP	19 48 51.1
			M	Z 1.3 20			Japan (h = 30 km).		
			D = 9650 km = 87°.						
		Ki	iP	16 55 55.9 C	"	2	Up	iP	20 56 11.8
			i	16 56 04.1				ipP	20 56 17.9
			iPP	16 59 19			Ki	iP	20 56 11.5
			eSKS	17 06 20				ipP	20 56 16.7
				microns sec			Sk	iP	20 55 58.0
			P	E 0.4 6			Um	iP	20 56 14.9
			P	Z 0.8 6				ipP	20 56 21.1
			P	Z' 0.4 2.0			Panama.		
			SKS	E 0.7 9			h = 25 km (Up,Ki,Um).		
			SKS	N 0.4 8					
			M	E 1.1 22	"	2	Up	i(P)	21 20 41.8
			M	N 0.9 23			Ka	iP	21 21 42.3
			M	Z 2.9 26					
			D = 9650 km = 87°.		"	3	Up	iPP	02 19 47
		Sk	iP	16 55 42.5 C			Ki	ePP	02 19 52
		Gb	iP	16 55 46.4				ePS	02 28 51
		Um	iP	16 55 59.1					microns sec
			i	16 56 21.3				PP	Z 0.3 6
		Ka	iP	16 55 54.1				M	E 1.1 24
		Panama (h = 5 km).					(cont.)		
		Magn. = 6.4 (Ki).							

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965				
Aug.	3	(cont.)		Aug.	3	Ki	iPKP 09 54 46.2	
		Ki	microns sec			Ka	iPKP 09 55 04.7	
		M	N 0.6 22			Fiji Islands (h = 570 km).		
		M	Z 1.0 20		"	3	Ki	iP 14 00 51.5
		Sk	iP 02 15 26.2			Um	iP 14 01 07.5 C	
		Um	iPP 02 19 45			Japan (h = 90 km).		
			iSKS 02 26 22		"	3	Um	iP 14 29 51.8
		Peru (h = 50 km).			"	3	Um	iP 15 52 44.7
"	3	Ki	eP 07 10 12		"	3	Up	iP 16 22 32.9
		Sk	iP 07 10 39.5		"	3	Ki	iPKP 18 19 14.3
		Um	iP 07 10 11.0 C			Sk	ePKP 18 19 25	
		Ka	iP 07 10 16.6			Um	iPKP 18 19 21.2	
		Hindu Kush (h = 100 km).			"	New Hebrides Islands		
"	3	Up	iP 07 44 41.0		"	3	Um	iP 20 09 00.3
			i 07 44 44.3			Panama (h = 30 km).		
		Ki	iP 07 44 31.1		"	4	Up	iP 01 18 23.4
			microns sec				ipP 01 18 47.9	
		M	N 0.3 10				iSKS 01 28 36	
		Sk	iP 07 44 56.9 C			Ki	iP 01 18 09.7	
		Um	iP 07 44 30.1				ipP 01 18 35.2	
			i 07 44 34.1				eSKS 01 28 18	
		Ka	eP 07 44 53				microns sec	
		Tibet (h = 40 km).				Sk	SKS E 0.5 7	
		If the second phase, 3-4 sec					iP 01 18 03.5 C	
		after P (Up,Um), is pP, the					ipP 01 18 30.4	
		depth is reduced to around				Gb	iP 01 18 13.8	
		15 km. See remark to Aug.					ipP 01 18 39.6	
		1, 20 18.					i 01 19 01.3	
"	3	Up	iP 08 42 19.8			Um	iP 01 18 17.8	
			iS 08 51 54				ipP 01 18 44.3	
			microns sec				iSKS 01 28 31	
		M	N 0.5 12				iS 01 28 45	
		D = 8150 km = 73 1/2°.				Ka	iP 01 18 26.2	
		Ki	eP 08 41 42				ipP 01 18 51.0	
			i 08 41 48.6			Mexico.		
			eS 08 50 44			h = 100 km (Up,Ki,Sk,Gb,Um,Ka).		
			microns sec		"	4	Um	iPKP 06 59 04.5
		S	E 0.3 6			South of Kermadec Islands		
		S	N 0.2 8			(h = 30 km).		
		M	E 0.8 18		"	4	Up	iP 08 26 43.0
		M	N 0.6 16		"	4	Up	iPKP 09 05 51.5
		M	Z 0.6 13			Ki	iPKP 09 05 37.6 C	
		D = 7550 km = 68°.					ipPKP 09 15 40.1	
		Sk	eP 08 42 16			(cont.)		
		Um	iP 08 41 59.0 C					
			iS 08 51 12					
		Japan (h = 70 km).						
"	3	Um	iP 08 47 44.8					
		Japan (h = 110 km).						
"	3	Ki	iP 09 23 24.2					
			i 09 23 56.8					
		Alaska (h = 60 km).						

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1965	4	(cont.)			1965	4	(cont.)		
Aug.		Ki		microns sec	Aug.		Um i(P)		20 49 29.4
			FKP	Z' 0.1 0.7					Some of these onsets must be related to different events.
		Sk	iPKP	09 05 48.6 C					
		Gb	iPKP	09 05 58.6					
			iSKP	09 09 07.9	"	4	Up iP		21 00 37.0
			i	09 09 10.5					
		Um	iPKP	09 05 43.5	"	4	Up iP		21 38 56.6
		Ka	iPKP	09 05 58.8			Um iP		21 38 37.9
			iSKP	09 09 06.3					South of Japan (h = 490 km).
		New Hebrides Islands							
		(h = 240 km).			"	4	Up iP		23 54 17.8
"	4	Up	i(P)	10 59 44.4	"	5	Up iP		00 22 40.9
"	4	Ki	iPn	11 37 10.8			iPKP		00 26 28.0
			ePg	11 37 18			i		00 26 32.5
			iSn	11 37 57.1			ePP		00 27 23
			iSg	11 38 08.2			iSKS		00 33 07
			D = 360 km = 3.2°.				iPKKP		00 37 02.8
		Sk	eSg	11 40 47			iSKSP		00 37 18
		Um	iSg	11 39 45.3					microns sec
		USSR-Finland border region,					M	E	6.7 23
		69°N, 28 1/2°E.					M	N	7.7 22
		Origin time = 11 36 20.					M	Z	12 23
		Explosion?					(D = 12650 km = 114°).		
"	4	Up	iP	11 53 45.2			Ki	eP	00 22 08
		Ki	eP	11 55 07				iPKP	00 26 16.5
			i	11 55 21.7				iPP	00 26 48
				microns sec				i	00 27 04.5
		M	E	0.3 10				iSKS	00 32 48
		M	N	0.2 8				iPKKP	00 37 22.7
		M	Z	0.3 8				i	00 37 34.4
		Sk	eP	11 54 25					microns sec
			i	11 54 28.9			PP	E	0.4 10
		Um	iP	11 54 32.5			PP	Z	1.0 10
			iS	11 58 30			SKS	N	0.5 10
		Italy (h = 30 km).					M	E	12 23
							M	N	7.5 23
							M	Z	18 24
							(D = 12100 km = 109°).		
"	4	Ki	iPn	16 38 19.2			Sk	iPKP	00 26 27.0
			iSn	16 39 07.3				ePP	00 27 25
			iSg	16 39 19.9				iPKKP	00 37 11.8
			D = 400 km = 3.6°.				Gb	iPKP	00 26 35.0
		Possibly northwest Russia.					Um	iP	00 22 22
		Explosion?						iPKP	00 26 22.1
"	4	Up	iP	17 25 19.4 C				iPP	00 27 00
"	4	Up	iP	19 20 33.5				i	00 27 21.7
		Ki	iP	19 21 30.8				iSKS	00 32 48
		Ka	iP	19 19 58.7			Ka	iPKP	00 26 34.0
		Crete (h = 30 km).					New Britain (h = 50 km).		
							Magn. = 6.5 (Up,Ki).		
"	4	Up	i(P)	20 49 31.9	"	5	Ki	iP	04 37 23.8
		Ki	iP	20 48 31.3 C	"	5	Up	iSg	07 18 30.1
		(cont.)					(cont.)		

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Year	Month	Day	Station	Type	Time	Distance (km)	Other Info
1965	Aug.	8	(cont.)				
			Ki	iP	05 29 18.5	C	
			Sk	iP	05 29 52.6		
			Um	iP	05 29 44.4		
			Ka	iP	05 30 35.8		
					Aleutian Islands (h = 40 km).		
"	"	8	Up	iP	10 00 07.4		
				ipP	10 00 17.5		
			Ki	iP	09 59 37.6		
				ipP	09 59 50.4		
					microns sec		
			P	Z'	0.1 1.5		
			M	E	0.6 16		
			M	N	0.5 17		
			M	Z	0.9 17		
			Um	iP	09 59 44.9		
				ipP	09 59 56.0		
					Halmahera.		
					h = 45 km (Up,Ki,Um).		
"	"	8	Up	iP	13 00 19.1		
					microns sec		
			P	Z'	0.1 1.0		
			M	E	0.8 21		
			M	N	1.4 23		
			M	Z	1.9 23		
			Ki	iP	12 59 26.1		
				ipP	12 59 37.6		
					microns sec		
			M	E	0.7 19		
			M	N	0.5 17		
			M	Z	1.0 18		
			Sk	iP	12 59 57.3		
			Um	iP	12 59 51.3		
			Ka	iP	13 00 42.0		
					Aleutian Islands.		
					h = 45 km (Ki).		
"	"	8	Up	iP	16 25 29.4		
					microns sec		
			M	N	0.6 15		
			M	Z	0.9 14		
			Ki	iP	16 25 35.2		
					microns sec		
			M	E	0.5 12		
			M	N	0.4 12		
			M	Z	0.6 12		
			Um	iP	16 25 33.0		
					West Pakistan (h = 40 km).		
"	"	8	Up	iP	16 39 06.4	D	
					Kurile Islands (h = 30 km).		
"	"	9	Up	iP	02 20 45.2		
1965	Aug.	9	Ki	iP	02 47 10.3		
					Banda Sea		
					(h = 580 km).		
"	"	9	Up	iP	03 40 36.7		
			Ki	iP	03 39 44.3		
				i	03 40 17.8		
					Aleutian Islands (h = 30 km).		
"	"	9	Ki	ePg	05 40 05		
				iSn	05 40 32.6		
				iSg	05 40 50.1		
					D = 420 km = 3.8°		
					Possibly northwest Russia.		
					Explosion?		
"	"	9	Um	iP	10 28 28.1		
				ipP	10 28 39.3		
					Japan. h = 45 km (Um).		
"	"	9	Ki	iP	16 52 32.6		
					Halmahera (h = 130 km).		
"	"	10	As in June and July, 1965, Karlskrona and several of our other stations recorded numerous explosions in the South Baltic on August 10, 13, 14, 15, 16 and 20. These readings are excluded from the bulletin.				
"	"	10	Up	iP	04 18 28.9		
			Ki	iP	04 17 32.7		
			Um	iP	04 17 59.9		
					Aleutian Islands (h = 30 km).		
"	"	10	Up	iP	08 28 06.9	D	
					Davis Strait (h = 30 km).		
"	"	10	Ki	iPn	10 58 25.0		
				iSn	10 59 11.3		
				iSg	10 59 23.4		
					D = 380 km = 3.4°		
			Sk	eSg	11 02 17		
			Um	iSg	11 01 00.6		
					Northwest Russia-Finland border region, 69.3°N, 29.0°E.		
					Origin time = 10 57 30.		
					Explosion ?		
"	"	10	Up	iP	11 26 05.3		
			Ki	iP	11 25 11.6	C	
				ipP	11 25 20.3		
			Sk	iP	11 25 45.7		
			Um	iP	11 25 37.3		

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1965	Aug.	11	(cont.)			1965	Aug.	11	(cont.)		
			Up		microns sec				Ki		microns sec
			M	E	0.6 16				PP	N	0.8 12
			M	N	1.7 21				PP	Z	3.2 16
			M	Z	1.7 21				M	E	20 23
			D = 6650 km = 60°.						M	N	13 22
			Ki	iP	18 38 51.5				M	Z	20 22
				i	18 39 04.2				(D = 13650 km = 123°).		
				eS	18 46 22			Sk	i(PKP)	20 11 32.1	
					microns sec				iPKP	20 11 39.6	
			S	E	0.5 12				iPKS	20 14 59.4	
			S	N	0.5 9			Gb	e(PKP)	20 11 41	
			M	E	1.2 18				iPKP	20 11 51.9	
			M	N	1.5 19				iPKS	20 15 17.5	
			M	Z	2.5 20			Um	iP	20 08 14	
			D = 5850 km = 52 1/2°.						iPKP	20 11 28	
			Sk	iP	18 39 17.9				iPP	20 13 11	
			Gb	iP	18 39 57.6			Ka	iPKP	20 11 48.2	
			Um	iP	18 39 25 C				iPKS	20 15 17.6	
				iS	18 47 10			New Hebrides Islands			
			Ka	eP	18 40 09			(h = 30 km).			
			Alaska (h = 25 km).					Magn. = 6.8 (Up,Ki).			
"		11	Sk	eP	19 09 26		"	11	Ki	iPKP	20 27 49.0
"		11	Up	iPKS	20 10 14				Sk	ePKP	20 27 59
			Ki	iPKP	20 06 38.6			New Hebrides Islands.			
			Sk	iPKP	20 06 49.6			Origin time = 20 08 50.			
			New Hebrides Islands					In this series of New Hebrides			
			(h = 40 km).					earthquakes, we give (as			
"		11	Up	eP	20 08 28 C			usual) approximate origin times			
				iPKP	20 11 42.9			only when USCGS has not			
				ePP	20 13 53		"	11	Up	ePKP	20 33 09
				iPKS	20 15 01					iPKS	20 36 29.1
					microns sec						microns sec
			PKP	Z	1.1 9				PKS	Z'	0.2 1.1
			PKP	Z'	0.1 0.5			Ki	i(PKP)	20 32 51.9	
			PP	E	0.9 16				iPKP	20 32 56.1	
			PP	N	1.8 15			Sk	i(PKP)	20 33 02.6	
			PP	Z	3.8 15				iPKP	20 33 06.2	
			PKS	E	2.0 9				iPKS	20 36 25.4	
			PKS	N	4.7 10				i	20 36 31.9	
			PKS	Z	1.7 9			Gb	ePKP	20 33 13	
			PKS	Z'	0.2 1.0				iPKS	20 36 42.2	
			M	E	15 22				i	20 36 49.1	
			M	N	30 22			Ka	iPKP	20 33 17.6	
			M	Z	39 21				iPKS	20 36 41.6	
			(D = 14450 km = 130°).						i	20 36 49.3	
			Ki	i(PKP)	20 11 25.2			New Hebrides Islands.			
				iPKP	20 11 29.2			Origin time = 20 13 56.			
				ePP	20 13 06		"	11	Up	iPKS	21 17 49.0
					microns sec				Ki	e(PKP)	21 14 08
			PKP	Z	0.6 10					iPKP	21 14 10.9
			PKP	Z'	0.2 0.7			Sk	ePKP	21 14 22	
			PP	E	1.0 16			(cont.)			
			(cont.)					(cont.)			

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1965	Aug.	12	(cont.)		
				Ki	iPKP 02 40 27.0 C
				Sk	iPKP 02 40 38.9
					ePKS 02 44 00
				New Hebrides Islands (h = 50 km).	
"		12		Sk	iP 03 42 13.3
				Lake Tanganyika (h = 30 km).	
"		12		Up	iPKP 08 20 53.0
					iPP 08 23 04
					i(PKS) 08 24 11.9
					iPKS 08 24 18.0
					microns sec
				PKP	Z' 0.1 0.5
				PP	E 0.8 15
				PP	N 1.6 16
				PP	Z 2.8 15
				PKS	E 2.2 12
				PKS	N 1.8 6
				PKS	Z' 1.8 1.5
				M	E 9.9 23
				M	N 27 25
				M	Z 26 25
				(D = 14450 km = 130°).	
				Ki	iPKP 08 20 39.0 C
					iPP 08 22 06
					microns sec
				PKP	Z' 0.3 1.0
				PP	E 0.8 18
				PP	N 0.6 14
				PP	Z 0.6 10
				M	E 22 23
				M	N 12 22
				M	Z 23 23
				(D = 13650 km = 123°).	
				Sk	i(PKP) 08 20 42.1
					iPKP 08 20 49.4
					iPKS 08 24 10.5
				Gb	i(PKP) 08 20 50.1
					iPKP 08 21 01.2
					iPKS 08 24 28.1
				Um	eP 08 17 24
					i(PKP) 08 20 38.8
					iPKP 08 20 44.4
					iPP 08 22 44
					iPKS 08 24 02
				Ka	e(PKP) 08 20 48
					iPKP 08 21 00.7
					iPKS 08 24 27.9
				New Hebrides Islands (h = 25 km).	
				Magn. = 6.7 (Up,Ki).	
				(cont.)	

1965	Aug.	12	(cont.)		
				In this series of New Hebrides shocks, PKP is multiple with a small onset, (PKP), followed by a larger one, PKP, after a few seconds. The time difference PKP - (PKP) seems to increase with distance over the range of our stations, being around 4 sec at Ki (123°) and around 11 sec at Gb (133°), although there are individual variations.	
"		12		Up	eP 13 12 00
					iPKP 13 15 57.6
					iPP 13 16 48
					iSKS 13 22 40
					microns sec
				PP	E 1.2 16
				PP	N 1.6 16
				PP	Z 2.8 15
				M	E 14 22
				M	N 23 22
				M	Z 30 20
				(D = 12800 km = 115°).	
				Ki	e(PKP) 13 15 41
					iPKP 13 15 47.6
					ePP 13 16 19
					iSKS 13 22 10
					iPS 13 25 30
					microns sec
				PP	E 1.4 17
				PP	N 0.7 16
				PP	Z 1.3 12
				SKS	E 0.9 10
				SKS	N 0.6 9
				M	E 29 22
				M	N 27 24
				M	Z 31 22
				(D = 12200 km = 110°).	
				Sk	e(PKP) 13 15 46
					iPKP 13 15 54.1
				Gb	e(PKP) 13 16 02
					iPKP 13 16 06.8
				Um	eP 13 11 44
					i(PKP) 13 15 41.3
					iPKP 13 15 49.1
					iPP 13 16 26
					iPS 13 25 51
					iSKSP 13 26 07
				Ka	i(PKP) 13 16 01.8
					iPKP 13 16 05.9
				New Britain (h = 40 km).	
				Magn. = 6.8 (Up,Ki).	

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1965				1965				
Aug.	12	Up	iP	14 08 39.8	Aug.	13	(cont.)	
"	12	Ki	iPn	16 31 17.6			Ki	
			iSn	16 32 06.2			M	
			iSg	16 32 21.6			M	
			D = 410 km = 3.7°.				M	
			Possibly northwest Russia,				Sk	
			Origin time = 16 30 19.				Um	
			Explosion?				iS	
							Ka	
							Mindoro (h = 40 km).	
"	12	Up	iPKP	18 24 17.1 D	"	13	Up	
			iPKS	18 27 26			i(PKP)	
			iPKS2	18 27 39			iPKS	
			microns sec				microns sec	
			PKS	Z' 0.1 1.0			PKS	Z' 0.3 1.5
			M	E 0.9 23			M	E 0.6 22
			M	N 1.9 23			M	N 1.2 24
			M	Z 1.8 22			M	Z 1.4 22
		Ki	i(PKP)	18 23 48.5			Ki	i(PKP)
			iPKP	18 24 03.0			iPKP	05 00 04.3
			microns sec				microns sec	
			PKP	Z' 0.1 1.0			M	E 1.2 23
			M	E 2.0 23			M	N 0.7 21
			M	N 1.2 22			M	Z 1.6 22
			M	Z 2.2 23			Sk	i(PKP)
		Sk	e(PKP)	18 23 59			iPKP	05 00 14.2
			iPKP	18 24 12.5			iPKS	05 03 21.2
			iPKS	18 27 22.2			Gb	iPKP
		Gb	i(PKP)	18 24 09.4			Um	i(PKP)
			iPKP	18 24 22.3			iPKP	05 00 09.9
		Um	i(PKP)	18 23 54.3			New Hebrides Islands	
			iPKP	18 24 07.8			(h = 30 km).	
			ePP	18 25 53			Magn. = 5.7 (Up,Ki).	
		Ka	iPKP	18 24 21.5			In this as well as the shock	
		New Hebrides Islands					of Aug. 12 at 18 24, the time	
		(h = 50 km).					difference PKP - (PKP) is	
		Magn. = 6.0 (Up,Ki).					13.7 sec in average, and does	
"	12	Up	iP	18 52 52.2			not show the distance variation	
"	12	Um	iP	19 02 43.0 C			mentioned under Aug. 12 at	
"	12	Up	iP	19 34 36.8			08 20. Evidently, the shocks	
		Ki	iP	19 34 19.9			can be grouped into classes	
		Sk	eP	19 34 43			according to this behaviour.	
		Mindoro.					A probable explanation is that	
		Origin time = 19 22 07.					the phases Po", Pl" and P"	
							(in the notation of Payo	
							Subiza and Bâth, Geophys. J.,	
							8:496-513, 1964) show up to	
							varying degrees, although	
							complications from pPKP	
							cannot be excluded.	
"	13	Up	iP	02 25 44.0	"	13	Up	iP
			microns sec				Ki	iP
			P	Z' 0.1 0.5			Ka	iP
			M	E 0.7 19			Hindu Kush.	
			M	N 1.0 24				
			M	Z 1.0 20				
		Ki	iP	02 25 28.0				
		(cont.)						

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1965					1965				
Aug.	13	Up	iPKS	11 47 23	Aug.	13	(cont.)		
				microns sec				Ki	iPP
			M	E 0.8 21					13 00 53
			M	N 1.5 19					microns sec
			M	Z 1.6 20				PKP	Z 1.4 8
		Ki	iPKP	11 43 50.8 C				PKP	Z' 0.2 1.0
				microns sec				PP	E 3.0 19
			M	E 1.5 20				PP	N 1.8 16
			M	N 0.9 21				PP	Z 5.3 16
			M	Z 2.1 21				M	E 50 22
		Sk	iPKP	11 44 01.7				M	N 31 20
		Um	iPKP	11 43 58.0				M	Z 46 19
			i	11 44 12.3				(D = 13650 km = 123°).	
			iPKS	11 47 10			Sk	iPKP	12 59 40.6
		New Hebrides Islands						iPKS	13 03 03.2
		(h = 30 km).					Gb	iPKP	12 59 48.1
		Magn. = 5.8 (Up,Ki).						i	13 00 25.4
"	13	Ki	iP	12 09 20.7				iPKS	13 03 18.1
		Sk	iP	12 09 49.6			Um	iPKP	12 59 33.5
		Formosa (h = 70 km).						iPP	13 01 12
"	13	Ki	e(PKP)	12 59 05			Ka	i(PKP)	12 59 42.5
			iPKP	12 59 11.7				iPKP	12 59 52.0
		Sk	ePKP	12 59 23				iPKS	13 03 24.9
		Um	iPKP	12 59 18.9			New Hebrides Islands		
		New Hebrides Islands					(h = 30 km).		
		(h = 30 km).					Origin time = 12 40 32.		
		This shock, identified					Magn. = 7.1 (Up,Ki).		
		with the one for which					This series does not conform		
		USCGS gives the origin					to the rule $M - M_1 = 1.2$ and		
		time 12 40 08.3, is only					it rather seems to be an earth-		
		a minor foreshock to the					quake swarm. But, on the other		
		following larger earthquake,					hand, it agrees well with the		
		which occurred 24 sec later.					generalized relation between		
"	13	Up	i(PKP)	12 59 43.8			magnitudes of main shocks and		
			iPKP	12 59 46.3			aftershocks, indicated by		
			iPP	13 01 50			M. Båth (Tectonophysics,		
			i	13 02 12.6			2: 483-514, 1965).		
			iPKS	13 03 03			"	13	Up
				microns sec					i
			PKP	Z' 0.1 0.6					15 29 50.5
			PP	E 1.8 16				Ki	iP
			PP	N 2.9 16					15 28 11.2
			PP	Z 6.1 16				Alaska (h = 100 km).	
			PKS	E 3.8 9			"	13	Up
			PKS	N 6.5 9					iPKS
			PKS	Z 6.2 10					18 19 07
			PKS	Z' 0.3 1.0					microns sec
			M	E 33 22					M
			M	N 78 21					E 2.8 21
			M	Z 81 21					M
			(D = 14450 km = 130°).						N 7.1 23
		Ki	e(PKP)	12 59 28					M
			iPKP	12 59 32.3					Z 6.8 21
		(cont.)						Ki	iPKP
									18 15 22.1
									microns sec
									M
									E 4.5 20
									M
									N 4.4 21
									M
									Z 6.3 22
								Um	iPP
									18 17 44
									i
									18 18 53
									iPKS
									18 19 10
								New Hebrides Islands	
								(h = 40 km).	
								Magn. = 6.5 (Up,Ki).	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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Year	Month	Day	Station	Type	Time	Time	Time	Notes
1965	Aug.	13	Up	---				
					microns sec			
			M	E	1.7	22		
			M	N	1.9	19		
			M	Z	3.7	19		
			Ki	iPKP	22 16	06.7		
				i	22 26	15		
					microns sec			
			M	E	3.0	20		
			M	N	2.1	19		
			M	Z	2.5	18		
			Um	iPP	22 16	50		
				iSKS	22 22	47		
				i	22 26	16		
					New Britain (h = 50 km).			
					Magn. = 6.1 (Up,Ki).			
"		14	Ki	eP	00 35	33		
				iS	00 37	43.4		
				i	00 38	37.6		
					D = 1350 km = 12°.			
			Um	i	00 41	22.6		
					Barent's Sea.			
					Origin time = 00 32 48.			
					By combination with Finnish reports.			
"		14	Up	iPKP	00 51	46.3		
				i	00 51	50.7		
			Ki	ePKP	00 51	21		
			Gb	iPKP	00 51	54.0		
			Um	iPKP	00 51	34.6 C		
					Kermadec Islands (h = 30 km).			
"		14	Up	iSn	03 27	05.9		
				iSg	03 27	21.0		
			Gb	eSg	03 29	13		
			Um	iSn	03 26	49.8		
				iSg	03 27	13.8		
				iRg	03 27	31.1		
			Ka	iSg	03 28	54.5		
					Lathis, Finland.			
					Explosion of 200 tons of explosives.			
"		14	Up	iPn	03 26	43.5		
				iSn	03 27	33.6		
				iSg	03 27	51.1		
			Ki	ePn	03 27	26		
				iSn	03 28	40.8		
				iSg	03 29	24.6		
			Gb	iSg	03 29	36.0		
			Um	iSg	03 27	39.9		
				iRg	03 27	59.0		
			Ka	iPn	03 27	22.1		
					(cont.)			
1965	Aug.	14	(cont.)					
			Ka	iSg	03 29	19.4		
					Lathis, Finland.			
					Explosion of 300 tons of explosives.			
"		14	Ki	iPn	04 01	36.9		
				iSg	04 02	05.9		
					microns sec			
				Sg	Z'	0.3 0.5		
			Um	iPn	04 02	31.5		
				iSg	04 04	08.5		
					Explosion at 69.7°N, 18.1°E (according to Bergen).			
"		14	Up	iP	04 52	38.2 C		
					Greece (h = 60 km).			
"		14	Ki	iPKP	09 52	08.3		
					New Hebrides Islands (h = 15 km).			
"		14	Up	iPKS	11 30	17		
					microns sec			
			M	E	1.2	21		
			M	N	2.1	21		
			M	Z	2.7	21		
			Ki	iPKP	11 26	46.0		
					microns sec			
			M	E	1.2	18		
			M	N	0.8	17		
			M	Z	1.9	20		
			Um	iPP	11 28	48		
				i	11 36	46		
				iSS	11 45	47		
					New Hebrides Islands (h = 30 km).			
					Magn. = 5.9 (Up,Ki).			
"		14	Ki	iP	11 49	45.9 C		
					Japan (h = 90 km).			
"		14	Up	---				
					microns sec			
			M	E	0.9	22		
			M	N	1.0	20		
			M	Z	1.4	21		
			Ki	e(PKP)	13 36	49		
				iPKP	13 37	07.4		
					microns sec			
			M	E	1.0	23		
			M	N	0.7	20		
			M	Z	1.0	20		
			Sk	e(PKP)	13 36	51		
				iPKP	13 36	59.8		
					Santa Cruz Islands (h = 50 km).			

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1965				1965			
Aug.	14	Up	iP	13 58 57.7	Aug.	16	(cont.)
"	14	Gb	iPKP	14 33 24.3			Um iSg 04 04 08.2
		Tonga Islands (h = 25 km).					Explosion at 69.7°N, 18.1°E (Bergen).
"	14	Ki	iSKP	16 27 20.2	"	16	Up iP 04 44 25.2
		Fiji Islands (h = 580 km).					eS 04 50 40
"	14	Up	iP	17 22 11.5			microns sec
		Ki	iP	17 22 18.0			M E 1.1 20
		Sk	iP	17 22 36.6			M N 1.4 18
		Um	iP	17 22 08.4 C			M Z 1.3 20
		Ka	iP	17 22 17.5			D = 4600 km = 41 1/2°.
		Hindu Kush (h = 220 km).				Ki	eP 04 44 55
							i 04 45 09.3
"	15	Up	iP	04 56 52.4			eS 04 51 27
		Ki	iP	04 56 35.7			microns sec
		Sk	iP	04 56 58.0 C			M E 1.1 17
		Um	iP	04 56 42.2			M N 2.0 22
		Luzon (h = 100 km).					M Z 1.1 19
							D = 5000 km = 45°.
"	15	Ki	iPn	05 17 43.2			Um iP 04 44 41.6
			iSn	05 18 39.3			iS 04 51 16
			iSg	05 18 52.9			iSS 04 54 27
		Sk	iSg	05 21 40.3			North Atlantic Ocean
		Um	iSn	05 19 24.2			(h = 30 km).
			iSg	05 20 03.9			Magn. = 5.1 (Up, Ki).
		Northwest Russia.			"	16	Up iP 11 04 08.3
		Explosion?			"	16	Up iP 12 29 41.2
"	15	Up	iP	06 07 11.8 C			eSKS 12 40 03
		Ki	iP	06 07 20.2 C			iS 12 40 22
		Sk	iP	06 07 37.3 C			D = 9900 km = 89°.
		Gb	iP	06 07 33.2			Ki iP 12 29 42.3
		Um	iP	06 07 10.0 C			ipP 12 29 50.7
		Ka	iP	06 07 16.4 C			eSKS 12 40 09
		Hindu Kush (h = 210 km).					iS 12 40 27
							microns sec
"	15	Up	iP	20 02 46.5			S E 1.1 8
		Um	iP	20 02 45.3			S N 0.6 9
		Ka	iP	20 02 51.3			D = 9900 km = 89°.
		Hindu Kush.				Sk	iP 12 29 27.9
						Gb	iP 12 29 28.7
"	15	Ki	iP	23 01 15.3			Um iP 12 29 37.5
		Alaska (h = 30 km).					iSKS 12 40 10
							iS 12 40 28
"	16	Up	iSg	04 06 16.9			Ka iP 12 29 38.5
		Ki	iPn	04 01 37.0 C			Colombia.
			iSg	04 02 04.7			h = 30 km (Ki).
							microns sec
			Pn	Z' 0.3 0.5	"	16	Ki iP 12 32 25.6
			Sg	Z' 0.5 0.5			ipP 12 32 34.8
		Sk	iPn	04 02 39.6			iS 12 42 53
			iSn	04 03 54.3			D = 9850 km = 88 1/2°.
			iSg	04 04 27.9			Sk iP 12 32 12.0
		Um	iPn	04 02 31.3			Gb iP 12 32 11.5
		(cont.)					(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965			
Aug.	16	(cont.)		Aug.	16	(cont.)	
		Um	iP 12 32 19.6			Ki	microns sec
			ipP 12 32 28.1			M	E 0.9 22
		Ka	iP 12 32 22.0			M	N 0.7 20
			ipP 12 32 31.4			M	Z 1.1 19
		Colombia. h = 35 km (Ki,Um,Ka).				Balleny Islands (h = 30 km).	
"	16	Up	iP 12 47 13.3 C	"	16	Up	iPKKP 18 20 51.7
			iS 12 56 05			Ki	iPKP 18 10 35.1
			microns sec			Sk	ePKS 18 14 09
		P	E 0.4 4			Um	iPKP 18 10 43.0
		P	N 0.7 4			i	18 10 50.3
		P	Z 1.5 4			New Hebrides Islands (h = 20 km).	
		P	Z' 1.5 2.0	"	16	Up	---
		S	E 1.8 9				microns sec
		S	N 2.2 7			M	E 0.6 16
		M	E 2.9 19			M	N 0.8 16
		M	N 4.7 18			M	Z 1.0 16
		M	Z 7.2 24			Ki	eP 20 01 30
		D = 7450 km = 67°.					microns sec
		Ki	iP 12 47 55.5 C			M	E 0.5 16
			i 12 48 07.6			M	N 0.8 22
			iS 12 57 26			M	Z 1.0 18
			microns sec			Sk	iP 20 00 58.8
		P	Z 1.8 4			Gb	iP 20 00 36.9
		P	Z' 1.2 2.0			Um	iP 20 01 28.0
		S	E 2.2 10			Ka	iP 20 00 56.5
		S	N 3.6 10			North Atlantic Ocean (h = 30 km).	
		M	E 5.9 23	"	16	Up	iP 20 43 48.4
		M	N 3.0 16	"	16	Ki	ePKP 23 18 26
		M	Z 4.6 18			Um	iPKP 23 18 26.7 C
		D = 8200 km = 74°.				New Hebrides Islands (h = 30 km).	
		Sk	iP 12 47 22.3 C	"	17	Ki	eP 00 30 41
		Gb	iP 12 46 51.1 C				microns sec
		Um	iP 12 47 36.7 C			M	E 0.6 18
			iS 12 56 51			M	N 0.9 23
		Ka	iP 12 46 51.1 C			M	Z 1.1 19
		Atlantic Ocean (h = 30 km). Magn. = 6.4 (Up,Ki). P(Z') is exceptionally long- period, equal to 2.0 sec at all our stations.				Um	iP 00 30 32.5
"	16	Ki	iPKP 15 03 47.0			North Atlantic Ocean (h = 30 km).	
		Um	iPKP 15 04 00.4	"	17	Ki	iP 00 34 39.0
		New Hebrides Islands (h = 20 km).				Um	iP 00 34 46.3
"	16	Up	i 15 28 27.0	"	17	Up	iP 07 49 00.8
			iSg 15 28 54.1				iS 07 59 42
"	16	Um	i(P) 16 57 23.2				microns sec
"	17	Ki	iPKP 17 21 29.6			M	E 0.5 17
			iPKP2 17 22 05.6			M	N 0.8 19
		(cont.)				(cont.)	

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1965	Aug. 17	(cont.)			1965	Aug. 17	(cont.)		
		Up	microns sec				Ki	microns sec	
		M	Z 0.9 18				P	Z' 0.2 1.0	
			D = 9700 km = 87 1/2°.				M	E 7.7 18	
		Ki	iP 07 48 42.4				M	N 8.4 21	
			eS 07 59 05				M	Z 10 19	
			microns sec				Sk	iP 10 47 24.9	
		S	N 0.4 7				Gb	iP 10 47 22.5	
		M	E 0.6 17				Um	iP 10 47 06.2 C	
		M	N 0.8 22					ipP 10 47 15.6	
		M	Z 0.8 16				Ka	iP 10 47 11.5	
			D = 9300 km = 83 1/2°.					ipP 10 47 21.6	
		Sk	iP 07 49 04.1				Sumatra.		
		Um	iP 07 48 48.4				h = 40 km (Um,Ka).		
			iS 07 59 14				Magn. = 6.3 (Up,Ki).		
		Ka	iP 07 49 11.6						
		Samar	(h = 80 km).		"	17	Up	iP 10 57 07.6	
							Ki	iP 10 57 09.3	
"	17	Up	iP 07 53 29.6 C				Um	iP 10 57 04.6	
		Ki	iP 07 53 11.1				Ka	iP 10 57 15.7	
			i 07 53 21.2				Sumatra.		
		Sk	eP 07 53 33				Origin time = 10 45 04.		
		Um	iP 07 53 17.5				These P arrive at about the		
		Ka	iP 07 53 40.8				same time that S from the		
		Samar.					preceding shock should arrive.		
		Origin time = 07 40 46.					That this is nevertheless a		
		This shock is slightly					new shock is testified both		
		larger than the preceding,					by the appearance of these		
		the PZ'-amplitudes being					PZ' and by reports from other		
		in the ratio of 1.3:1.					stations where this coincidence		
							does not occur.		
"	17	Ki	iP 08 18 30.2		"	17	Ki	eP 13 04 42	
			microns sec				Sk	iP 13 04 58.7	
		M	E 0.5 16				Sumatra (h = 100 km).		
		M	N 0.6 19						
		M	Z 0.8 16						
		Um	iP 08 18 36.2		"	17	Ki	iPKP 13 22 51.0 C	
		Ka	iP 08 18 59.0				New Guinea (h = 90 km).		
		Samar	(h = 120 km).						
"	17	Ki	iP 08 55 34.7		"	17	Up	iP 13 27 09.5 C	
		Ka	iP 08 56 53.1				Ki	iP 13 26 17.0	
		Kamchatka	(h = 5 km).				Sk	eP 13 26 49	
							Ka	iP 13 27 32.8	
							Aleutian Islands	(h = 30 km).	
"	17	Ki	iP 10 30 32.8 D		"	17	Ki	iP 14 14 37.8 C	
		Um	iP 10 30 58.9				Sk	iP 14 14 30.9 C	
		Aleutian Islands					Um	iP 14 14 45.8	
		(h = 30 km).					isP	14 15 28.9	
"	17	Up	iP 10 47 08.5				Mexico-Guatemala		
			microns sec				(h = 120 km).		
		M	E 6.1 19						
		M	N 4.7 21		"	17	Up	---	
		M	Z 8.4 20					microns sec	
		Ki	iP 10 47 09.9 C				M	E 0.6 20	
		(cont.)					M	N 0.9 21	
							(cont.)		

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Year	Day	Station	Type	Time	Notes
1965	Aug. 17	(cont.)			
		Up			microns sec
		M	Z	1.3 20	
		Ki	iPKP	16 36 37.5	
					microns sec
		M	E	0.7 19	
		M	N	0.7 20	
		M	Z	0.9 19	
		Sk	iPKP	16 36 54.1	
		Um	iPKP	16 36 49.9	
			i	16 36 58.9	
		New Hebrides Islands			
		(h = 20 km).			
"	17	Up	eP	22 35 40	
"	17	Up	iPKP	23 25 32.3	
			i	23 25 37.9	
		Sk	iPKP	23 25 27.0	
		Gb	iPKP	23 25 38.9	
		Um	iPKP	23 25 21.7 D	
		Ka	ePKP	23 25 42	
			i	23 25 53.8	
"	18	Up	iPn	04 03 24.8	
			iSn	04 05 11.4	
			iSg	04 06 10.4	
		Ki	iPn	04 01 37.1	
			iSg	04 02 05.7	
					microns sec
			Pn	Z' 0.3 0.4	
			Sg	Z' 0.6 0.5	
		Sk	iPn	04 02 39.5	
			iSg	04 04 28.2	
		Um	iPn	04 02 30.4	
			iSn	04 03 40.5	
			iSg	04 04 08.6	
		Ka	e(Lgl)	04 08 10	
		Explosion at 69.7°N, 18.1°E			
		(Bergen).			
"	18	Up	iPn	04 31 19.1	
			iSn	04 32 19.1	
			iSg	04 32 48.4	
		Ki	iLgl	04 35 52.8	
		Sk	eSn	04 32 53	
			iLgl	04 33 03.8	
		Gb	iPn	04 30 38.0	
			iSg	04 31 05.7	
		Um	iLgl	04 34 17.7	
		Ka	eSn	04 31 58	
			iSg	04 32 18.7	
		Explosion at 58°N, 8°E			
		(Bergen).			
		In this case the largest Z'-			
		amplitudes occur in Sg for			
		(cont.)			
1965	Aug. 18	(cont.)			
					D < 6° but in Lgl for D > 6°.
					In addition to distance, also
					path properties may be
					significant.
"	18	Ki	eSn	07 38 12	
			iSg	07 38 31.6	
		Sk	eSg	07 41 18	
		Um	iSg	07 40 05.4	
		Northwest Russia, 69.1°N,			
		30.0°E.			
		Origin time = 07 36 30.			
		Explosion?			
"	18	Um	iP	10 03 38.5	
"	18	Um	iP	11 27 07.6	
		Banda Sea (h = 140 km).			
"	18	Ki	iPg	13 43 04.8	
			iSg	13 43 41.7	
			iRg	13 43 57.7	
		D = 340 km = 3.1°.			
		Sk	eSg	13 46 17	
		Um	iSg	13 44 53.4	
		Finland-Russia border region,			
		67.8°N, 28.8°E.			
		Origin time = 13 42 00.			
		Explosion?			
"	18	Gb	iP	14 16 49.0	
"	18	Gb	ePKP	14 34 04	
		Ka	ePKP	14 34 00	
		Tonga Islands (h = 20 km).			
"	18	Gb	iPKP	14 45 08.3	
		Tonga Islands (h = 20 km).			
"	18	Gb	iP	14 47 13.6	
"	18	Gb	iPKP	14 48 38.8	
		Ka	iPKP	14 48 21.9	
		Tonga Islands (h = 30 km).			
"	18	Up	iPKP	15 10 48.1	
			ePP	15 13 00	
			iPKS	15 14 01	
					microns sec
		PKS	E	0.7 8	
		PKS	N	0.9 8	
		M	E	3.6 21	
		M	N	8.5 23	
		M	Z	11 22	
		(cont.)			

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1965				1965				
Aug.	18	(cont.)		Aug.	19	(cont.)		
		Ki	e(PKP) 15 10 29			Ki	iP 19 58 01.6	
			iPKP 15 10 34.4				iPP 20 00 47.0	
			e 15 11 47			Sk	iP 19 58 30.9	
			microns sec				iPP 20 01 30.9	
		M	E 6.4 23			Um	iP 19 58 15.5	
		M	N 4.0 21			South of Japan (h = 440 km).		
		M	Z 8.5 21		"	19	Ka	iP 20 08 20.9
		Sk	e(PKP) 15 10 41		"	19	Up	iP 20 37 49.0
			iPKP 15 10 46.5		"	19	Ki	iP 23 56 51.5
			iPKS 15 14 14.7		"	20	Ki	i(Sg) 00 42 48.8
		Um	i(PKP) 15 10 37.2		"	20	Up	iPn 04 03 22.1
			iPKP 15 10 41.2				iSg 04 06 12.7	
			iPP 15 12 20			Ki	iPn 04 01 37.0 C	
			iPKS 15 13 51				iSg 04 02 05.7	
		Ka	iPKP 15 10 54.0			microns sec		
		New Hebrides Islands				Pn	Z' 0.3 0.4	
		(h = 5 km).				Sg	0.6 0.5	
		Magn. = 6.5 (Up,Ki).				Sk	iPn 04 02 39.5	
"	18	Ki	eP 15 28 53			iSn 04 03 53.8		
		Sk	iP 15 29 47.0			iSg 04 04 28.4		
		Um	eP 15 29 36			Um	iPn 04 02 31.1	
		Northwest of Svalbard				i 04 02 49.2		
		(h = 30 km).				iSn 04 03 40.5		
"	18	Gb	iPKP 16 15 57.0			iSg 04 04 08.5		
		Tonga Islands (h = 90 km).				Explosion at 69.7°N, 18.1°E		
"	18	Up	iP 17 36 16.0			(Bergen).		
"	19	Up	iP 01 01 03.3		"	20	Up	iPn 04 31 19.0
		Ki	iP 01 00 29.1				iSn 04 32 18.7	
		Um	iP 01 00 44.0 C				iSg 04 32 41.4	
		i	01 00 48.4			Ki	iLg1 04 35 55.6	
		Bonin Islands (h = 30 km).				Sk	e 04 32 30	
"	19	Um	iP 02 49 06.5				iLg1 04 33 03.4	
"	19	Ki	iP 03 06 52.8				i 04 33 12.4	
		Mindanao (h = 50 km).				Gb	iPn 04 30 37.6	
"	19	Up	iP 10 42 50.9				iSg 04 31 05.5	
"	19	Ka	iP 12 35 38.7			Um	iLg1 04 34 18.1	
"	19	Up	iP 14 11 50.1			Ka	ePg 04 31 23	
"	19	Ki	eP 18 25 05				iSg 04 32 17.4	
			iP 18 25 40.8			Explosion at 58°N, 8°E		
		Aleutian Islands.				(Bergen).		
		h = 150 km (Ki).			"	20	Ki	iPn 05 46 39.2
"	19	Up	iP 19 58 34.8				iSn 05 47 35.2	
			microns sec				iSg 05 47 53.2	
		P	Z' 0.1 0.5				D = 490 km = 4.4°	
		(cont.)				Sk	eSn 05 49 29	
							iSg 05 50 30.6	
						Um	iSn 05 48 19.4	
							iSg 05 48 58.7	
						(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965			
Aug.	20	Up	iPKP 21 41 08.5 iPKS 21 44 47.0 iPKS2 21 45 02.4 i 21 45 22	Aug.	21	Gb	iPKP 03 36 19.0 D Ka iPKP 03 36 21.0 South of Fiji Islands (h = 590 km).
			microns sec		"	21	Um iP 04 02 39.0 C
			PKP Z' 0.1 0.5		"	21	Up iPn 07 31 19.1 iSn 07 32 19.0 iSg 07 32 42.3
			PKS2 Z' 0.2 1.5				Ki iLgl 07 35 54.6
			M E 0.8 20				Sk eLgl 07 33 04
			M N 2.1 21				Gb iPn 07 30 38.2
			M Z 1.6 20				iSg 07 31 05.6
		Ki	i(PKP) 21 40 50.9				Um iLgl 07 34 19.2
			iPKP 21 41 00.8				Ka iSg 07 32 18.4
			iPKS 21 44 25.1				Explosion at 58°N, 8°E (Bergen).
			microns sec		"	21	Up i(P) 08 17 30.1
			PKS E 0.5 6				Ki i(P) 08 18 14.9
			PKS N 0.6 7				Um i(P) 08 16 53.7
			PKS Z' 0.9 2.0				Ka i(P) 08 16 51.7
			M E 1.9 20		"	21	Ki iPn 13 15 33.9
			M N 1.3 23				iPg 13 15 48.4
			M Z 3.2 20				iSg 13 16 29.1
		Sk	iPKP 21 41 03.5				i 13 16 36.2
			iPKS 21 44 38.2				D = 370 km = 3.3°.
		Gb	iPKP 21 41 18.0			Sk	iPn 13 15 40.3
			iPKS 21 44 53.6				iP ^x 13 15 48.7
		Um	i(PKP) 21 40 57.7				iSn 13 16 32.1
			iPKP 21 41 06.0				iSg 13 16 41.9
			i 21 41 09.8				D = 420 km = 3.8°.
			ipFKP 21 41 26.7			Um	iPn 13 15 59.6
			iPP 21 44 04				iP ^x 13 16 11.0
			iPKS 21 44 36.0				iSn 13 17 02.6
			eSS 22 01 53				iSg 13 17 26.4
		Ka	iPKP 21 41 20.7 D				D = 570 km = 5.1°.
			iPKS 21 44 56.1				Off coast of Norway, near Lofoten, 67.5°N, 11.8°E. Origin time = 13 14 40.
			South of Tonga Islands (h = 80 km).		"	21	Up iP 15 17 29.6
"	20	Up	iP 22 21 10.2				Ki iP 15 17 28.7 C
		Ki	iP 22 20 45.7				microns sec
			Formosa (h = 60 km).				M E 0.6 17
"	20	Ki	iP 23 52 28.2				M N 0.5 17
			Aleutian Islands (h = 30 km).				M Z 0.8 16
"	21	Up	iP 01 14 49.9 D			Sk	eP 15 17 43
		Ki	iP 01 14 32.4			Um	iP 15 17 26.3 C
		Sk	iP 01 15 01.6 D				ipP 15 17 36.7
		Um	iP 01 14 35.5				iS 15 28 32
			Tsinghai (h = 30 km).				Sumatra. h = 40 km (Um).
"	21	Up	iPKP 01 27 58.8		"	21	Um iP 16 32 35.4
			i 01 28 10.2				
		Ki	ePKP 01 27 43				
		Sk	iPKP 01 27 51.6				
		Um	iPKP 01 27 47.0				
			i 01 27 59.1				
			South of Kermadec Islands (h = 30 km).				

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Year	Date	Location	Station	Time	Amplitude	Phase	Distance	Angle			
1965	Aug. 24	(cont.)	Ki	iP	01 13	32.9	C				
			i		01 14	41.7					
				ePP	01 16	47					
				iPa	01 19	31					
				iS	01 24	06					
							microns	sec			
				P	Z	0.6	10				
				PP	Z	0.5	7				
				S	E	1.6	11				
				S	N	0.6	9				
				M	E	2.0	19				
				M	N	1.5	17				
				M	Z	2.3	19				
					D = 9450 km			85°			
				Sk	iP	01 13	28.0	C			
				Gb	iP	01 13	37.5				
				Um	iP	01 13	41.7	C			
					ePP	01 16	48				
					ePa	01 19	31				
					e	01 19	56				
	Ka	iP	01 13	50.1							
		Mexico (h = 30 km).									
		Magn. = 6.0 (Up,Ki).									
"	24		Up	iP	01 16	21.0	C				
			Ki	iP	01 17	31.0	C				
			Sk	iP	01 16	59.7					
			Gb	iP	01 16	08.8					
			Um	iP	01 17	03.9					
			Ka	iP	01 15	45.9	C				
				Crete (h = 30 km).							
			"	24	Up	i(PKP)	07 25	36.9			
						iPKP	07 25	38.6			
						iSKP	07 28	55.0			
									microns	sec	
							SKP	Z'	0.3	1.5	
Ki	iPKP	07 25				29.8					
	iSKP	07 28				32.2					
						microns	sec				
	SKP	Z'				0.6	1.8				
Sk	e(PKP)	07 25				29	Po"				
	iPKP	07 25				39.2	P"				
	iSKP	07 28				48.3					
	i	07 28	57.1								
Gb	iPKP	07 25	46.9								
	iSKP	07 29	03.5								
Um	i(PKP)	07 25	26.4	Po"							
	i	07 25	31.2	Pl"							
	iPKP	07 25	37.0	P"							
	iSKP	07 28	44.1								
Ka	iPKP	07 25	49.6	D							
	Fiji Islands (h = 290 km).										
1965	Aug. 24		Ka	i(P)	09 09	31.5					
				i	09 09	37.0					
			"	24	Ki	iP	12 58	19.1			
			iS			12 59	36.9				
				Sk	eP	12 58	29				
			eS		13 00	08					
				Um	iP	12 58	49.8				
				Jan Mayen-Svalbard.							
			"	24	Up	eP	13 22	28			
			i			13 22	44.2				
			iS			13 30	42				
								microns	sec		
						S	N	0.3	7		
						M	E	0.5	17		
						M	N	0.7	18		
						M	Z	1.0	20		
							D = 6800 km			61°	
						Ki	eP	13 21	33 C		
							i	13 21	47.3		
							eS	13 29	00		
					microns	sec					
		P	Z	0.5	8						
		S	E	0.4	9						
		S	N	0.7	8						
		M	E	0.6	16						
		M	N	1.0	20						
		M	Z	1.9	20						
		D = 5900 km			53°						
	Sk	iP	13 21	58.6							
	Um	iP	13 22	01.0 C							
		iS	13 29	51							
		Alaska (h = 20 km).									
		Magn. = 5.4 (Up,Ki).									
"	24	Up	i(P)	14 50	09.5						
"	24	Up	i(P)	16 42	09.5						
		iSg	16 42	40.0							
"	24	Ki	iPn	18 30	00.6						
		iPg	18 30	10.1							
		iSn	18 30	48.9							
		iSg	18 31	05.3							
		D = 420 km			3.8°						
	Sk	eSg	18 33	49							
	Um	eSg	18 32	34							
		Northwest Russia,									
		69.0°N, 30.4°E.									
		Origin time = 18 29 00.									
		Explosion?									
"	24	Um	iP	19 31	34.7						

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1965					1965				
Aug.	27	(cont.)			Aug.	29	(cont.)		
		Um	iP	18 32 36.9			Um	iP	01 58 29.0 C
		Ka	iP	18 33 24.3				i	01 58 50.5
		Kurile Islands.						iPP	02 01 44
		h = 40 km (Up,Ki).						eS	02 08 39
		Magn. = 6.2 (Up,Ki).					Guatemala (h = 110 km).		
"	28	Up	eLgl	05 04 16	"	29	Up	eSn	04 03 55
			iSg	05 04 21.4				eLgl	04 04 16
		Ki	eLgl	05 05 45			Ki	iLgl	04 05 45.5
		Sk	ePn	05 02 12			Sk	iPn	04 02 10.3
			iSn	05 03 01				iSn	04 03 01.0
			iSg	05 03 13			Um	iSn	04 04 24.7
		Um	iLgl	05 04 52.6				iLgl	04 04 51.4
		Ka	eLgl	05 04 58.5			Ka	iLgl	04 04 54.2
		Explosion at 61.4°N, 5.0°E						iSg	04 05 10.8
		(Bergen).					Explosion at 61.4°N, 5.0°E		
"	28	Up	iP	08 01 17.5 C			Comparing these records with		
		Ki	iP	08 00 24.2 C			those of the explosion on Aug.		
		Um	iP	08 00 49.4 C			28 in the same location, we		
		Kamchatka (h = 30 km).					find that Sg dominates at		
"	28	Ki	iP	13 39 16.4			D < 5°, Sg and Lgl can		
"	28	Up	iP	17 53 10.3			exist together at 5° - 7 1/2°,		
"	28	Up	iPKP	18 50 26.3 C			and Lgl dominates at greater		
			i	18 50 34.4			distances.		
		Sk	iPKP	18 50 19.2	"	29	Up	iP	06 30 22.6
		Kermadec Islands					Aleutian Islands		
		(h = 180 km).					(h = 30 km).		
"	28	Ki	iP	20 47 51.5 C	"	29	Up	iPKS	13 09 14.0
		Um	iP	20 48 18.8					microns sec
		Unimak Island (h = 25 km).					M	E	1.0 20
"	29	Up	eP	01 58 54			M	N	1.8 22
			iS	02 09 33			M	Z	2.0 21
				microns sec			Ki	iPKP	13 05 33.8
		S	N	0.6 7					microns sec
		M	E	0.9 24			M	E	1.6 21
		M	N	0.9 23			M	N	1.8 21
		M	Z	1.5 23			M	Z	1.9 20
		D = 10100 km = 91°.					Sk	ePKP	13 05 48
		Ki	iP	01 58 20.0 C			Um	iPKP	13 05 40.6
			i	01 58 46.1			New Hebrides Islands		
			iS	02 08 42			(h = 10 km).		
				microns sec			Magn. = 6.0 (Up,Ki).		
		S	E	0.4 12	"	29	Ki	ePKP	13 14 31
		M	E	1.5 20			Um	iPKP	13 14 39.4
		M	N	1.1 21			New Hebrides Islands		
		M	Z	5.3 25			(h = 30 km).		
		D = 9350 km = 84°.			"	29	Up	iP	13 44 03.1
		Sk	iP	01 58 13.3			Ki	iP	13 45 17.4
			i	01 58 32.5			Sk	iP	13 44 46.6 C
		(cont.)					Um	iP	13 44 41.0 C
							Aegean Sea (h = 20 km).		

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1965				1965					
Aug.	29	Up	iSKP	14 18 15.9	Aug.	30	Ki	iP	18 22 54.9 C
		Ki	iPKP	14 15 22.5					microns sec
			iSKP	14 17 52.0				P	Z' 0.1 1.0
				microns sec			Sk	iP	18 23 09.2
			SKP	Z' 0.3 2.0					Sunda Strait (h = 70 km).
		Sk	iSKP	14 18 10.5					
		Um	iPKP	14 15 28.6 C	"	31	Ki	iP	02 41 41.8
			iSKP	14 18 04.8			Um	eP	02 41 52
				Fiji Islands (h = 570 km).				i	02 41 58.9
									Sea of Japan (h = 30 km).
"	29	Up	iP	16 09 29.8	"	31	Up	iP	03 57 37.9
		Ki	iP	16 08 52.1			Ki	iP	03 57 39.7 D
		Um	iP	16 09 08.3			Um	iP	03 57 34.6
				Japan (h = 70 km).					Nicobar Islands (h = 25 km).
"	30	Ki	iPKP	01 15 06.5	"	31	Ki	ePg	07 31 42
			i	01 15 12.3				iSn	07 32 19.1
		Um	iPKP	01 15 18.7				iSg	07 32 31.1
				New Hebrides Islands					Possibly northwest Russia.
				(h = 10 km).					Origin time = 07 30 30.
"	30	Ki	iPKP	01 44 58.6					Explosion?
				New Hebrides Islands	"	31	Up	iP	07 35 12.6 D
				(h = 20 km).				iS	07 39 37
"	30	Ki	iPKP	02 35 42.3					microns sec
				New Hebrides Islands				P	Z' 0.2 1.0
				(h = 20 km).				S	E 1.7 13
"	30	Up	iPKS	03 54 35				S	N 2.4 15
			i	03 54 57				M	E 5.8 18
				microns sec				M	N 13 18
			M	E 1.1 22				M	Z 5.7 18
			M	N 2.6 21					D = 2850 km = 25 1/2°.
			M	Z 2.0 21			Ki	iP	07 36 02.6 D
		Ki	iPKP	03 51 02.9 D				iS	07 41 04
				microns sec				iLi	07 45 11
			M	E 1.1 20					microns sec
			M	N 0.8 20				P	Z' 0.3 1.3
			M	Z 1.9 20				S	E 0.9 8
		Sk	ePKP	03 51 12				S	N 1.7 13
			iPKS	03 54 40.0				M	E 12 18
		Um	iPKP	03 51 09.8				M	N 10 17
				New Hebrides Islands				M	Z 5.6 18
				(h = 15 km).					D = 3450 km = 31°.
				Magn. = 5.9 (Up,Ki).			Sk	iP	07 35 53.3
"	30	Up	iSg	04 04 22.0				iPP	07 36 38.9
		Sk	ePn	04 02 11			Um	iP	07 35 32.8
			iSn	04 03 00.8				iPP	07 36 03
			iSg	04 03 12.5			Ka	iP	07 34 58.4 D
				Explosion at 61.4°N, 5.0°E					Turkey (h = 20 km).
				(Bergen).					Magn. = 5.6 (Up,Ki).
"	30	Ki	iPKP	06 03 49.4 C	"	31	Up	iP	07 59 53.2
				New Hebrides Islands				i	08 00 12.7
				(h = 30 km).					microns sec
								M	E 0.6 16

(cont.)

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1965	Aug.	31	(cont.)					1965	Aug.	31	(cont.)						
			Up		microns	sec					Sk	iSg	16	59	24.5		
			M	N	1.0	19					Um	iPg	16	57	49.1		
			M	Z	1.0	16						iSg	16	58	25.2		
			Ki	iP		07 59 14.3							Gulf of Bothnia.				
			Japan (h = 30 km).										Explosion.				
"		31	Up	iP		08 15 34.3		"		31	Up	iP	19	55	46.7 C		
			Sk	iP		08 15 24.0					Ki	iP	19	55	19.3		
			Um	iP		08 15 09.1							microns sec				
			Ka	iP		08 15 56.8						P	Z'	0.1	1.3		
			Japan (h = 30 km).									Um	iP	19	55	30.4	
"		31	Up		---			"		31	Sk	iP	23	30	37.9		
					microns	sec					Um	iP	23	30	52.4 C		
			M	E	0.9	22						i	23	31	00.0		
			M	N	0.8	19					Mexico (h = 30 km).						
			M	Z	1.1	17											
			Um	eS		09 32 49											
				iPS		09 33 15											
			Atlantic Ocean														
			(h = 30 km).														
"		31	Up	iP		10 56 50.3											
				i		10 56 56.5											
			Ka	iP		10 56 18.7											
			Greece (h = 90 km).														
"		31	Um	iP		11 43 58.4											
"		31	Up	iPg		15 43 35.5											
				iSg		15 44 01.7											
					microns	sec											
			Sg	Z'	0.1	0.5											
			Sk	eSg		15 45 27											
			Um	iPg		15 43 49.6 D											
				iSg		15 44 25.8											
			Gulf of Bothnia.														
			Explosion.														
"		31	Ki	iPn		16 30 11.6 D											
				iSn		16 31 00.1											
				iSg		16 31 15.4											
			D = 410 km = 3.7°.														
			Possibly northwest Russia.														
			Origin time = 16 29 13.														
			Explosion?														
"		31	Ki	ePKP		16 55 31											
			New Hebrides Islands														
			(h = 30 km).														
"		31	Up	iPg		16 57 34.9											
				iSg		16 58 00.5											
					microns	sec											
			Sg	Z'	0.2	0.5											
			(cont.)														

Markus Båth
April 7, 1966

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Year	Month	Day	Location	Time	Time	Time	Notes	
1965	Sep.	2	(cont.)					
				D = 7450 km = 67°.				
			Ki	iP	04 36	36.1 C		
				ipP	04 36	44.5		
				iPcP	04 37	24.2		
				eS	04 44	35		
							microns sec	
				P	Z	0.4 5		
				P	Z'	0.3 1.0		
				S	E	0.3 8		
				S	N	0.3 9		
				M	E	1.4 19		
				M	N	1.1 18		
				M	Z	2.5 20		
				D = 6550 km = 59°.				
			Sk	iP	04 37	09.5 C		
				ipP	04 37	18.6		
			Gb	iP	04 37	46.6 C		
				ipP	04 37	55.4		
			Ka	iP	04 37	52.5 C		
				ipP	04 38	02.0		
			Aleutian Islands.					
			h = 35 km (Up, Ki, Sk, Gb, Ka).					
			Magn. = 6.1 (Up, Ki).					
"		2	Sk	eP	07 13	07		
				e	07 13	52		
"		2	Ki	eSn	09 08	50		
				iSg	09 09	04.6		
			Possibly northwest Russia.					
			Explosion?					
"		2	Up	eP	11 52	35		
				i	11 52	38.7		
			Ki	eSn	12 49	05		
				iSg	12 49	28.9		
			Sk	e(Sg)	12 51	08		
			Possibly northwest Russia.					
			Explosion?					
"		2	Up	iP	17 11	29.5		
"		2	Up	iP	19 39	39.4		
			Kurile Islands (h = 40 km).					
"		3	Up	iSn	04 03	34.5		
				iSg	04 04	20.7		
			Ki	iSg	04 06	07.4		
			Sk	ePg	04 02	19		
				iSg	04 03	18.8		
			Gb	iSg	04 03	23.7		
			Explosion at 60.8°N, 4.7°E					
			(Bergen).					
"		3	Up	iPn	04 31	13.6		
			(cont.)					
1965	Sep.	3	(cont.)					
			Up	iSn	04 32	09.5		
				eSg	04 32	28		
			Sk	e	04 32	44		
				iSg	04 32	56.2		
			Gb	iPg	04 30	33.4		
				iSg	04 30	58.2		
			Ka	iSg	04 32	13.7		
			Explosion at 58.3°N, 8.7°E					
			(Bergen).					
"		3	Up	iPg	08 19	33.7		
				iSg	08 19	57.2		
			Sk	eSg	08 21	20		
			Explosion at 61.1°N, 20.3°E;					
			08 19 01.3 (Helsinki).					
"		3	Up	iPg	08 54	33.2 C		
				iSg	08 54	56.3		
							microns sec	
				Pg	Z'	0.2 0.4		
				Sg	Z'	0.2 0.4		
			Sk	iSg	08 56	18.7		
			Ka	eSg	08 56	50		
			Explosion at 61.1°N, 20.2°E;					
			08 54 01.2 (Helsinki).					
"		3	Up	iPg	09 38	32.9 C		
				iSg	09 38	55.6		
							microns sec	
				Pg	Z'	0.2 0.4		
				Sg	Z'	0.2 0.4		
			Ki	eSn	09 40	56		
				iS ^x	09 41	15.1		
			Sk	iPg	09 39	20.0		
				iSg	09 40	18.0		
			Ka	eSg	09 40	54		
			Explosion at 61.1°N, 20.1°E;					
			09 38 01.3 (Helsinki).					
"		3	Up	iPg	11 40	31.3		
				iSg	11 40	54.0		
							microns sec	
				Pg	Z'	0.2 0.4		
				Sg	Z'	0.3 0.4		
			Ki	eS ^x	11 43	15		
			Sk	iPg	11 41	16.0		
				iSg	11 42	11.8		
			Ka	eSg	11 42	54		
			Explosion at 61.2°N, 19.7°E;					
			11 40 01.2 (Helsinki).					
"		3	Up	iPg	12 36	31.3		
				iSg	12 36	54.3		
							microns sec	
				Pg	Z'	0.3 0.4		
				Sg	Z'	0.4 0.4		
			(cont.)					

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Sep.	3	(cont.)			Sep.	4	(cont.)		
		Sk	iPg	12 37 16.9			Sk	iSn	04 32 29.3
			iSg	12 38 15.3				iSg	04 32 57.5
		Explosion at 61.2°N, 19.7°E;					Gb	iPg	04 30 33.9
		12 36 01.3 (Helsinki).						iSg	04 30 59.0
"	3	Up	iPg	13 35 31.8			Um	iSn	04 33 22.7
			iSg	13 35 53.8				iSg	04 34 05.7
				microns sec			Ka	iSn	04 31 55.0
			Pg	Z' 0.1 0.4				iSg	04 32 14.5
			Sg	Z' 0.2 0.4			Explosion at 58.3°N, 8.7°E		
		Sk	iPg	13 36 17.4		"	4	Up	iP
			iSg	13 37 14.9				ipP	07 59 43.1
		Ka	iSg	13 37 49.4				ipP	07 59 50.0
		Explosion at 61.1°N, 19.8°E;					Ki	iP	07 58 49.7 C
		13 35 01.2 (Helsinki).						ipP	07 58 57.4
"	3	Up	iPn	16 02 47.2					microns sec
			iSn	16 03 43.6				P	Z' 0.1 1.0
		Ki	eLgl	16 07 10				M	E 0.6 18
		Sk	e	16 04 14				M	N 0.5 17
			iSg	16 04 24.8				M	Z 0.7 17
		Gb	iPg	16 02 06.1			Sk	iP	07 59 23.8 C
			iSg	16 02 31.8			Gb	iP	07 59 58.8
		Ka	iPg	16 02 51.0				ipP	08 00 04.1
			iSg	16 03 47.8			Um	iP	07 59 16.4 C
		Explosion at 58.3°N, 8.7°E					Aleutian Islands.		
		(Bergen).					h = 25 km (Up,Ki,Gb).		
"	3	Up	iP	16 29 43.5 C		"	4	Up	iP
		Ki	iP	16 28 49.9 C					10 30 47.9 C
		Sk	iP	16 29 23.4 C					microns sec
		Aleutian Islands (h = 40 km).						P	Z 0.8 5
"	3	Um	iPKP	20 52 49.2				P	Z' 0.1 0.8
		New Hebrides Islands						M	E 1.9 17
		(h = 40 km).						M	N 2.4 17
"	4	Up	iP	03 36 19.6				M	Z 2.7 17
"	4	Up	iP	03 38 23.7			Ki	iP	10 29 59.5
		Mariana Islands						ipP	10 30 05.8
		(h = 220 km).						iPa	10 33 43
"	4	Up	iSg	04 04 20.6				eS	10 38 14
		Ki	iSg	04 06 07.5					microns sec
		Sk	ePg	04 02 19				P	N 0.6 6
			iSg	04 03 18.6				P	Z 1.2 5
		Gb	iSg	04 03 27.3				P	Z' 0.1 1.0
		Um	iSg	04 05 03.5				S	E 1.4 17
		Explosion at 60.8°N, 4.7°E						S	N 0.8 9
		(Bergen).						M	E 5.0 22
"	4	Up	iSn	04 32 09.9				M	N 4.1 18
			iSg	04 32 29.3				M	Z 6.3 20
		Ki	eLgl	04 35 38				D = 6700 km = 60 1/2°.	
		(cont.)					Sk	iP	10 30 35.9
								i	10 30 49.1
							Gb	iP	10 31 08.9
							Ka	iP	10 31 11.1
							Kurile Islands (h = 25 km).		
							Magn. = 5.9 (Up,Ki).		

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1965					1965				
Sep.	4	Up	iP	12 44 49.9	Sep.	4	(cont.)		
		Ki	iP	12 44 01.7			Complicated shock with several		
		Um	iP	12 44 23.5 C			successive onsets, especially		
				Kurile Islands (h = 30 km).			for P but also for S. The time		
"	4	Up	iP1	14 43 07.8 C			difference P2 - P1 is on the		
			iP2	14 43 16 D			average 8.3 sec; the amplitude		
			iS	14 51 19			ratio P2/P1 on Z' is almost		
			i	14 51 28			exactly 2; P1 is compressional,		
			i	14 51 36			but P2 dilatational. There is a		
			iP'P'	15 12 33.8			possibility that P2 is pP,		
			microns sec				which would mean a focal depth		
			P1	Z' 0.9 1.0			around 30 km, or else that		
			P2	N 4.1 4			more than one shock is involved.		
			P2	Z 4.5 3		"			
			M	E 25 20		4	Ki	iPn	16 31 08.6 C
			M	N 110 21				iPg	16 31 17.2
			M	Z 110 21				iSn	16 31 57.4
			D = 6900 km = 62°.					iSg	16 32 09.1°
		Ki	iP1	14 42 12.6 C				D = 450 km = 4.1°.	
			iP2	14 42 21 D			Sk	iSg	16 34 57.8
			iP3	14 42 36			Um	iPn	16 31 46.0
			iPcS	14 47 20				eSn	16 33 07
			iS	14 49 46				iSg	16 33 46.0°
			iPS	14 50 05				D = 770 km = 6.9°.	
			e(P'P')	15 12 22			Northwest Russia,		
			microns sec				69.3°N, 30.8°E.		
			P2	N 3.7 6			Origin time = 16 30 00.		
			P2	Z 6.3 6			Explosion?		
			P2	Z' 1.9 1.0		"	4	Ki	e(Sg) 17 38 53
			P3	N 6.1 7					
			P3	Z 11 8		"	4	Ki	---
			S	E 11 11				microns sec	
			M	E 77 21				M	E 0.6 18
			M	N 190 23				M	Z 0.9 19
			M	Z 400 23			Um	iSS	22 17 05
			D = 6000 km = 54°.				Southern Pacific Ocean		
		Sk	iP1	14 42 40.0 C			(h = 30 km).		
			iP2	14 42 48.7 D		"	5	Ki	eSn 05 04 22
			i	14 42 56.2				iSg	05 04 45.4
			iP'P'	15 12 53.6			Sk	eSg	05 07 17
		Gb	iP1	14 43 20.1 C			Um	iS ^x	05 05 23.9
			iP2	14 43 28.6 D				iSg	05 05 38.1
			iP'P'	15 12 20.0			Northwest Russia.		
		Um	iP1	14 42 41.1 C			Explosion?		
			iP2	14 42 49.9		"	5	Ki	eSg 17 19 26
			iPcP	14 43 36.7			Sk	iPg	17 17 51.7
			eS	14 50 34				iSg	17 18 16.4
			iP'P'	15 12 34.6			Possibly Nordlands Fylke,		
			i	15 12 47.7			Norway.		
		Ka	iP1	14 43 31.1 C		"	5	Up	iP 22 12 30.8
			iP2	14 43 38.1 D			Ki	iP 22 13 35.3	
			i(P'P')	15 12 33.6			(cont.)		
				Kodiak Island (h = 20 km).					
				Magn. = 7.1 (Up, Ki).					
				(cont.)					

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1965	8	(cont.)		1965	9	(cont.)	
Sep.		Ki	iP 11 26 15.2			Up	microns sec
			ipP 11 26 22.6			M	N 4.3 21
			iS 11 34 07			M	Z 6.8 23
			microns sec				D = 10200 km = 92°.
		P	Z' 0.2 111		Ki	iP	10 15 24.4
		M	E 1.4 17			ipP	10 15 32.0
		M	N 0.8 19			iSKS	10 26 00
		M	Z 1.6 20			iS	10 26 16
			D = 6300 km = 56 1/2°.				microns sec
		Sk	iP 11 26 42.9			P	Z 0.8 5
			ipP 11 26 50.7			P	Z' 0.3 2.0
		Gb	iP 11 27 22.3			SKS	E 4.4 12
		Um	iP 11 26 43.4 C			S	N 1.2 10
			iS 11 34 58			M	E 5.0 22
			Kodiak Island.			M	N 4.8 23
			h = 30 km (Up,Ki,Sk).			M	Z 6.1 23
							D = 10050 km = 90 1/2°.
"	8	Up	iPKP 12 05 12.6			Sk	iP 10 15 10.6
			i 12 05 26.0			Gb	iP 10 15 15.7
			i 12 05 32.7			Um	iP 10 15 28.3
			microns sec				iPP 10 19 03
			PKP Z' 0.1 1.0				iSKS 10 25 55
			Kermadec Islands			Ka	iP 10 15 27.0
			(h = 70 km).				Central America (h = 25 km).
							Magn. = 6.2 (Up,Ki).
"	8	Up	iP 12 50 26.0		"	9	Up eP 21 47 03
"	8	Up	i(P) 13 17 27.1		"	9	Up iP 23 38 45.0
			i 13 17 41.8				Hindu Kush (h = 250 km).
"	8	Up	iP 22 03 09.2		"	10	Up iP 03 05 42.8
"	9	Up	iP 04 50 40.1			Ki	iP 03 05 25.5
			microns sec			Sk	iP 03 05 48.9
		P	Z' 0.2 1.5				Mindoro (h = 140 km).
		M	E 1.1 19		"	10	Ki iPKP 07 38 21.1
		M	N 1.1 19				i 07 38 31.0
		M	Z 1.3 17			Sk	iPKP 07 38 33.4
		Ki	iP 04 50 02.7				New Hebrides Islands
			microns sec				(h = 40 km).
		M	E 1.5 18		"	10	Up i(P) 10 34 33.9
		M	N 0.6 15			Ka	i(P) 10 34 05.2
		M	Z 3.2 16		"	10	Up iP 14 29 17.5
		Sk	iP 04 50 38.0		"	10	Up iP 15 12 46.0 C
		Um	iP 04 50 15.5				microns sec
			Japan (h = 30 km).			P	Z' 0.1 1.0
						Ki	iP 15 12 02.3 C
"	9	Up	iP 06 10 38.7				microns sec
"	9	Up	iP 10 15 29.9			P	Z' 0.1 0.9
			iSKS 10 26 08			Sk	iP 15 12 37.6
			microns sec			Um	iP 15 12 21.9
		SKS	E 1.6 10				Japan (h = 110 km).
		SKS	N 1.1 11				Magn. = 5.5 (Up,Ki).
		M	E 3.4 20				
			(cont.)				

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1965					1965			
Sep.	10	Up	iP	19 05 20.7	Sep.	11	(cont.)	
"	10	Up	iP	19 37 12.5		Gb	iPKP	07 11 45.6
			iPP	19 39 51.7		Um	iPKP	07 11 31.9
		Ki	iP	19 36 32.7			iPP	07 12 25
		Sk	iP	19 37 05.7			iSKS	07 18 08
		Um	iP	19 36 49.4			iSKKS	07 19 15
		Ka	iP	19 37 33.7			iSP	07 21 38
		Japan (h = 80 km).					iPKKP	07 22 30.3
						Ka	iPKP	07 11 43.3
						New Britain (h = 70 km).		
"	11	Up	iP	04 53 52.8	"	11	Up	iP
		Ki	iP	04 55 08.2				10 46 29.2
		Sk	iP	04 54 35.7	"	11	Up	iP
		Um	iP	04 54 31.8				17 34 46.2
		Greece (h = 70 km).				Ki	eP	17 34 13
							i	17 34 25.8
"	11	Ki	iPn	06 36 29.0		Sk	iP	17 34 49.7
			iSn	06 37 24.0		Um	iP	17 34 29.8 C
			iSg	06 37 41.9			i	17 34 34.7
			D = 470 km = 4.2°.			Ryukyu Islands (h = 70 km).		
		Sk	e(Sg)	06 40 25	"	11	Ki	iP
		Um	iSn	06 38 10.0				22 27 53.6 C
			iSg	06 38 49.6		Sk	iP	22 27 37.0
			D = 690 km = 6.2°.			Venezuela (h = 15 km).		
		Northwest Russia,			"	12	Ki	eP
		68.1°N, 31.6°E.					Um	iP
		Origin time = 06 35 24.						03 23 39
		Explosion?						03 23 51.4
							Mariana Islands (h = 30 km).	
"	11	Up	iPKP	07 11 38.0	"	12	Up	iP
			eSKS	07 18 19				05 15 52.2
			iSKKS	07 19 36		Sk	eP	05 16 27
			i(PKKP)	07 22 09.4		Italy.		
			microns sec		"	12	Sk	iPKP
			SKS N	0.7 5				07 17 18.9
			(PKKP)Z	0.6 4		Um	iPKP	07 17 13.7
			M E	4.8 21		Santa Cruz Islands		
			M N	4.1 20		(h = 120 km).		
			M Z	8.4 20	"	12	Up	iPKP
			(D = 12800 km = 115°).					08 58 52.4
		Ki	e(PKP)	07 11 21				eSKKS
			ePP	07 12 10				09 06 51
			iSKS	07 17 56				iPKKP
			iSKKS	07 18 59				09 09 21.3
			iSP	07 21 22				iSP
			iPKKP	07 22 42.2				09 09 25
			microns sec					microns sec
			PP Z	0.6 10				M E
			SKS E	1.7 7				1.1 20
			SKS N	1.0 7				M N
			M E	7.8 21				2.4 23
			M N	5.7 23				M Z
			M Z	9.5 20				3.2 24
			(D = 12200 km = 110°).					(D = 12900 km = 116°).
		Sk	iPKP	07 11 40.4		Ki	iPKP	08 58 41.9
			ePKKP	07 22 33			i	08 58 48.3
							ePP	08 59 19
							iSKS	09 05 16
							iSKKS	09 06 15
							eSP	09 08 39
							iPKKP	09 09 40.2
								microns sec
								PKP Z' 0.1 1.0
		(cont.)					(cont.)	

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1965					1965				
Sep.	12	(cont.)			Sep.	12	(cont.)		
		Ki	microns	sec			Ki	microns	sec
		PP	Z	0.6 9			P	Z'	1.1 1.5
		SKS	N	0.4 10			PP	N	0.9 7
		M	E	2.1 18			S	E	3.1 9
		M	N	1.7 20			S	N	4.4 9
		M	Z	3.8 20			M	E	3.9 15
				(D = 12200 km = 110°).			M	N	4.1 15
		Sk	iPKP	08 58 52.5			M	Z	6.9 16
			iPKKP	09 09 23.1					D = 9100 km = 82°.
		Gb	iPKP	08 58 59.0			Sk	iP	22 14 53.8 D
			iPKKP	09 09 08.8				ipP	22 14 59.6
		Um	i(PKP)	08 58 43.7			Gb	iP	22 14 38.6 D
			iPKP	08 58 46.5				ipP	22 14 44.1
			i	08 59 18			Um	iP	22 14 39.3 D
			iPP	08 59 37				iPP	22 17 38
			iSKS	09 05 10				iS	22 24 29
			iSKKS	09 06 27			Ka	iP	22 14 24.6 D
			iSP	09 08 53				ipP	22 14 30.2
			iPKKP	09 09 32.1				iPP	22 17 25.6
			i	09 09 40.2					Chagos Islands. h = 25 km (Up, Sk, Gb, Ka). Magn. = 6.4 (Up, Ki).
		Ka	iPKP	08 58 56.9					
				New Britain (h = 50 km).		"	13	Up	iP 00 10 37.9
"	12	Up	iP	20 37 09.6		"	13	Ki	iP 00 55 56.9
									Aleutian Islands (h = 80 km).
"	12	Up	iP	21 35 31.6		"	13	Up	iP 13 18 09.8
				Kamchatka (h = 30 km).					ipP 13 18 15.6
									eS 13 26 29
"	12	Up	iP	22 06 52.7					microns sec
		Ki	iP	22 06 24.1 C				pP	Z 0.3 3
		Sk	iP	22 06 50.0 C				pP	Z' 0.4 1.4
		Gb	iP	22 07 09.3				S	E 0.5 10
		Um	iP	22 06 36.3				M	E 2.8 21
				Mariana Islands				M	N 3.7 20
				(h = 320 km).				M	Z 3.2 20
									D = 6950 km = 62 1/2°.
"	12	Up	iP	22 14 31.1 D			Ki	iP	13 17 14.5
			ipP	22 14 38.0				ipP	13 17 21.2
			iS	22 24 23				iPcP	13 18 25.9
								eS	13 24 50
				microns sec					microns sec
			P	Z 2.2 9				pP	N 0.5 5
			P	Z' 0.5 1.4				pP	Z 0.9 5
			S	E 1.5 5				pP	Z' 0.3 1.5
			S	N 1.7 7				S	E 1.0 10
			M	E 2.1 22				S	N 0.6 7
			M	N 5.7 23				M	E 3.0 20
			M	Z 3.6 22				M	N 2.1 19
				D = 8650 km = 78°.				M	Z 3.8 20
		Ki	iP	22 14 52.7 D					D = 6050 km = 54 1/2°.
			iPP	22 18 10			Sk	iP	13 17 50.9 C
			iS	22 25 03				ipP	13 17 57.3
				microns sec			Gb	i(P)	13 18 30.1
			P	E 0.7 8				ipP	13 18 34.7
			P	N 0.6 6			Um	iP	13 17 41.7
			P	Z 2.1 6					
		(cont.)					(cont.)		

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1965	13	(cont.)		1965	13	(cont.)	
Sep.		Um	ipP 13 17 47.0	Sep.		Um	ipg 16 39 49.1
			iPcP 13 18 39.3				iSg 16 40 24.4
			iPa 13 21 16			Explosion at 61.1°N, 20.6°E;	
			eS 13 25 36			16 39 01.1 (Helsinki).	
		Ka	iP 13 18 35.7	"	14	Up	ipg 04 32 30.7
			ipP 13 18 41.1				iSg 04 32 51.0
		Komandorsky Islands.					microns sec
		h = 25 km (Up,Ki,Sk,Um,Ka)				Pg	Z' 0.2 0.4
		Magn. = 5.9 (Up,Ki).				Sg	Z' 0.2 0.4
		On the average, the amplitude				Ki	eSg 04 35 29
		of pP(Z') is 2.4 times the				Sk	ipg 04 33 15.5
		amplitude of P(Z'). Another					iSg 04 34 11.0
		interpretation would be in				Um	ipg 04 32 47.5 C
		terms of two shocks in the					iSg 04 33 22.5
		same location.				Ka	eSg 04 34 47
"	13	Up	iSg 15 03 58.5	"	14	Up	ipg 06 02 30.5
		Explosion at 61.1°N, 20.3°E;					iSg 06 02 52.1
		15 03 00.8 (Helsinki).					microns sec
"	13	Up	iSg 15 25 58.5	"	14	Ki	i(Sg) 05 53 02.5
		Explosion at 61.1°N, 20.4°E;					
		15 25 00.6 (Helsinki).				Up	ipg 06 02 30.5
"	13	Up	iPKP 15 45 13.7				iSg 06 02 52.1
			i 15 46 02.1				microns sec
		Kermadec Islands				Pg	Z' 0.2 0.4
		(h = 140 km).				Sg	Z' 0.3 0.4
"	13	Up	ipg 16 03 34.4			Ki	i 06 05 12.7
			iSg 16 03 58.5				iSg 06 05 29.0
			microns sec			Sk	ipg 06 03 15.0
			Sg Z' 0.1 0.4				iSg 06 04 11.4
		Sk	iSg 16 05 22.8			Um	ipg 06 02 47.7 C
		Um	ipg 16 03 48.5				iSg 06 03 22.5
			iSg 16 04 24.1			Ka	eSg 06 04 50
		Explosion at 61.1°N, 20.5°E;				Explosion at 61.2°N, 19.6°E;	
		16 03 00.7 (Helsinki).				06 02 00.9 (Helsinki).	
"	13	Ki	---			In this series of underwater	
			microns sec			explosions in the Baltic, the	
		M	E 0.8 18			amplitudes of Pg and Sg are	
		M	N 0.6 19			up to now approximately equal	
		M	Z 1.0 18			on the Up Ben Z' for the	
		Um	iPKP 16 35 09.6			largest yields (300 kg) and	
			iPP 16 37 32			water depths over 100 m, whereas	
		Southeast Pacific Ocean				for smaller yields and/or	
		(h = 30 km).				smaller depths, the amplitudes	
						of Sg far exceed those of Pg.	
						However, also other factors	
						seem to influence this amplitude	
						ratio.	
"	13	Up	ipg 16 39 35.0	"	14	Up	ipg 07 00 27.7
			iSg 16 40 00.0				iSg 07 00 50.7
			microns sec				microns sec
			Sg Z' 0.1 0.4				Sg Z' 0.1 0.4
		Sk	iSg 16 41 22.6			Sk	iSg 07 02 08.9
		(cont.)				(cont.)	

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1965				1965					
Sep.	14	(cont.)		Sep.	14	Up	iPg	13 33	33.4
		Um	iPg				iSg	13 33	57.4
						Sk	iSg	13 35	28.2
						Um	iSg	13 34	30.3
		Explosion at 61.2°N, 19.5°E; 06 59 59.0 (Helsinki).				Explosion in the Gulf of Bothnia.			
"	14	Um	iPKP	"	14	Up	iP	14 29	00.5
		Tonga-Kermadec Islands (h = 200 km).				Ki	iP	14 28	08.6 C
						Sk	iP	14 28	41.8
"	14	Up	iPg			Um	iP	14 28	34.7
						Aleutian Islands (h = 10 km).			
				"	14	Up	iP	14 31	49.5
				"	14	Up	iP	16 27	41.8
				"	14	Ki	iP	21 13	50.3
								microns sec	
						M	E	0.3	12
						M	Z	0.4	12
		Ionian Sea (h = 30 km).				Formosa (h = 60 km).			
"	14	Up	iP	"	14	Ki	eP	22 06	47
"	14	Up	iP	"	14	Up	iP	22 25	18.1
				"	14	Up	iP	22 59	56.2 C
						Ki	iP	22 59	29.4
						Um	iP	22 59	39.1 C
						Formosa-Ryukyu Islands (h = 130 km).			
				"	15	Ki	iP	13 17	26.8
				"	15	Ki	iP	13 32	01.2 C
						Um	iP	13 32	28.6
						Aleutian Islands (h = 40 km).			
				"	15	Up	i(P)	18 11	07.0
				"	15	Up	i(P)	18 13	26.0
				"	15	Up	iPKP	22 36	31.7
								microns sec	
							PKP Z'	0.1	0.6
						South of Fiji Islands (h = 470 km).			
"	14	Up	eP	"	16	Up	iP	00 43	40.3
		Ki	iP				i	00 43	51.5
		Um	iP				iS	00 46	15.8
		Japan (h = 80 km).				Rumania (h = 30 km).			
"	14	Up	eP	"	16	Up	iP	04 22	05.2 C
		Ki	iP			(cont.)			
		Um	iP						

Up = Uppsala, Ki = Kiruna, Sk = Skälstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

Year	Date	Station	Type	Time	Value	Notes		
1965	Sep. 16	(cont.)						
		Ki	iP	04 21	26.8			
		Sk	iP	04 21	39.1			
		Um	iP	04 21	47.9			
		Off coast of northern California (h = 30 km).						
		"	16	Up	iP	06 09	46.2	
		"	16	Up	iP	11 39	37.6	
				Ki	iP	11 38	36.2	
		"	16	Up	iP	11 57	31.4	
				Ki	iP	11 57	06.3	
1965	Sep. 17	Up	iP	00 05	27.8			
		Sk	iP	00 05	53.9			
		Hindu Kush (h = 120 km).						
		"	17	Ki	iP	01 23	34.0 C	
		Alaska (h = 50 km).						
		"	17	Up	iP	04 06	52.9	
				Ki	iP	04 06	37.4 C	
					iPP	04 07	50.6	
						microns sec		
				P	Z'	0.1	0.6	
1965	Sep. 17	Sk	iP	04 07	08.5 C			
				iPP	04 08	24.9		
		Um	iP	04 06	38.0			
		Kazakh SSR.						
		Magn. = 5.5 (Up,Ki).						
		Underground explosion.						
		"	17	Up	iP	05 35	11.4	
		"	17	Up	iPKP	08 38	16.7	
				Ki	iSKP	08 40	47.4	
				Gb	iPKP	08 38	26.6	
		Ka	iPKP	08 38	28.2			
South of Fiji Islands (h = 540 km).								
1965	Sep. 17	Up	iP	11 22	46.6			
		"	17	Up	iP	11 26	54.3 C	
				ePP	11 30	33		
				ipPP	11 31	30.1		
				iSKS	11 37	08		
				iS	11 37	44		
				ipS	11 38	57		
					microns sec			
				P	Z'	0.5	1.5	
				SKS	E	2.2	8	
		SKS	N	0.5	5			
		S	N	1.4	8			
		M	E	2.3	20			
		M	N	3.0	24			
		M	Z	3.2	20			
		D = 10550 km = 95°.						
		Ki	iP	11 26	55.7 C			
		i		11 27	23.6			
		ipP		11 27	41			
		ePP		11 30	37			
		ipPP		11 31	28			
		iSKS		11 37	09			
		isS		11 39	14			
			microns sec					
		P	Z'	0.9	1.6			
		PP	E	0.7	8			
		SKS	E	9.2	9			
(cont.)								
1965	Sep. 16	Ka	e(PKP)	16 38	35			
				iPKP	16 38	49.6		
		Fiji Islands (h = 530 km).						
		"	16	Up	iP	20 09	07.4	
				Um	iP	20 09	11.9	
		"	17	Ki	iP	00 04	36.7 C	
		Molucca Passage (h = 140 km).						

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965
Sep. 17

(cont.)
Ki microns sec
SKS N 2.7 9
M E 2.6 20
M N 3.2 22
M Z 4.4 20
D = 10550 km = 95°.
Sk iP 11 26 41.5
Gb iP 11 26 40.7
Um iP 11 26 56.7 C
ipP 11 27 45.9
i 11 31 21
iSKS 11 37 13
Ka iP 11 26 49.6
Ecuador.
h = 190 km (Ki,Um).
Magn. = 6.6 (Up,Ki).

" 17 Ki iP 11 54 47.7
" 17 Up iP 13 10 45.6
ipP 13 10 55.8
microns sec
M E 1.0 18
M N 1.2 20
M Z 1.1 17
Ki iP 13 10 07.1 C
microns sec
P Z' 0.1 1.0
M E 1.5 18
M N 1.1 18
M Z 2.5 18
Sk iP 13 10 40.4
Gb iP 13 11 06.1
ipP 13 11 17.2
Um iP 13 10 24.1
ipP 13 10 32.4
Japan.
h = 40 km (Up,Gb,Um).

" 17 Up iP 13 32 27.6
ipP 13 32 38.2
microns sec
M E 1.0 17
M N 1.6 20
M Z 1.1 18
Ki iP 13 31 48.5
ipP 13 31 59.3
microns sec
M E 2.6 20
M N 1.4 15
M Z 3.6 18
Sk iP 13 32 22.0
ipP 13 32 33.3
Gb iP 13 32 48.3
ipP 13 32 58.7
(cont.)

1965
Sep. 17

(cont.)
Um iP 13 32 05.5 C
ipP 13 32 16.1
Ka iP 13 32 46.2 C
Japan.
h = 40 km (Up,Ki,Sk,Gb,Um).

" 17 Ki iPn 13 45 07.6
eSn 13 45 52
iSg 13 46 08.1
D = 400 km = 3.6°.
Possibly northwest Russia.
Explosion?

" 17 Up iP 14 34 08.2
ipP 14 34 19.7
iS 14 43 35

microns sec
P Z' 0.2 1.1
M E 0.8 15
M N 2.0 20
M Z 2.0 16
D = 8150 km = 73 1/2°.
Ki iP 14 33 28.0
i 14 33 51.3
iPP 14 35 56.4
iS 14 42 25
iSS 14 46 45
microns sec
P Z' 0.2 1.0
S E 0.7 8
M E 2.9 21
M N 2.1 19
M Z 4.5 17
D = 7450 km = 67°.
Sk iP 14 34 02.8 C
ipP 14 34 13.7
iPP 14 36 43.5
i 14 37 09.8
Gb iP 14 34 29.0 C
ipP 14 34 39.4
Um iP 14 33 45.7
Japan.
h = 40 km (Up,Sk,Gb).
Magn. = 5.9 (Up,Ki).

" 17 Up iP 15 30 05.9 C
ipP 15 30 15.7
eS 15 39 33
microns sec
P Z' 0.2 1.0
M E 1.4 19
M N 3.2 20
M Z 1.9 20
D = 8100 km = 73°.
Ki iP 15 29 27.2 C
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965						
Sep.	20	Up		---	Sep.	21	(cont.)				
				microns sec				Ka	iP 01 50 05.9		
		M	E	0.6 16					ipP 01 50 53.3		
		M	N	0.7 15				China Sea.			
		M	Z	1.1 18				h = 190 km (Up,Ki,Sk,Um,Ka).			
		Ki	eP	17 14 27				Magn = 6.5 (Up,Ki).			
				microns sec				P(Z') is essentially composed			
		M	E	0.8 17				of two periods, 3.0 and 0.5			
		M	N	0.8 14				sec. The long-period dominates			
		M	Z	1.4 15				the motion in the first 2-3			
		Um	iP	17 14 39.8				sec, and then the short-period			
			ipP	17 14 51.1				motion takes over.			
		Japan.									
		h = 45 km (Um).				"	21	Up	iP 03 34 52.2		
"	21	Up	iP	01 49 49.6 D					i 03 35 06.6		
			ipP	01 50 37.0					microns sec		
			iPa	01 55 38				M	E 1.1 22		
			iS	01 59 11				M	N 1.2 20		
				microns sec				M	Z 1.6 20		
		P	N	0.8 5				Ki	eP 03 35 00		
		P	Z	4.7 10					microns sec		
		P	Z'	0.2 0.5				M	E 1.2 18		
		P	Z'	4.2 3.0				M	N 0.8 19		
		pP	Z'	0.4 1.0				M	Z 1.0 18		
		S	N	1.1 4				Sk	iP 03 34 33.3		
		M	E	6.5 20					i 03 34 46.2		
		M	N	11 21				Um	iP 03 34 59.5		
		M	Z	6.9 18					i 03 35 06.3		
		D = 8350 km = 75°.						Ka	eP 03 34 55		
		Ki	iP	01 49 20.0 D					i 03 35 09.1		
			iPeP	01 49 42.7				North Atlantic Ocean			
			ipP	01 50 08.6				(h = 25 km).			
			iPP	01 51 56				Several successive onsets			
			eS	01 58 13				after P(Z'), with increasing			
			ipS	01 59 00				amplitudes.			
			ip'P'	02 17 19.2			"	21	Ki	iP 06 32 53.4	
				microns sec					Libya (h = 30 km).		
		P	E	3.3 14				"	21	Up	iP 13 14 46.1
		P	N	1.4 10				"	21	Ki	eP 15 54 19
		P	Z	5.8 9					Iran (h = 30 km).		
		P	Z'	2.7 3.0				"	21	Up	iP 20 40 38.0
		PP	Z	2.8 9				"	22	Up	iP 04 35 45.4
		S	E	3.8 11						i 04 35 52.2	
		S	N	2.7 10						iS 04 44 45	
		P'P'	Z'	1.2 2.5						microns sec	
		M	E	7.0 18				M	E 1.6 17		
		M	N	5.0 17				M	N 9.1 18		
		M	Z	11 16				M	Z 2.9 18		
		D = 7800 km = 70°.						D = 7550 km = 68°.			
		Sk	iP	01 49 49.6				Ki	iP 04 35 36.6		
			ipP	01 50 37.3					i 04 35 41.4		
		Um	iP	01 49 31.5 D				(cont.)			
			ipP	01 50 17.7							
			iPP	01 52 13							
			iS	01 58 25							
		(cont.)									

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1965					1965					
Sep.	22	Ki		microns sec	Sep.	22	(cont.)			
			M	E 3.0 20			Sk	iPKP	20 20 24.5	
			M	N 2.1 15			Um	iPKP	20 20 18.4	
			M	Z 4.9 21				ipPKP	20 20 30.7	
		Sk	eP	04 35 58			New Britain.			
		Um	iP	04 35 36.4			h = 45 km (Ki,Um).			
			i	04 35 48.7		"	22	Ki	i	20 21 13.8
			iS	04 44 29				iSg	20 21 51.5	
		Ka	iP	04 35 53.7				Um	eSg	20 23 34
		Burma (h = 40 km).				"	22	Up	iP	20 44 20.7
		Magn. = 5.8 (Up,Ki).								microns sec
"	22	Up	iP	06 56 35.6				P	Z'	0.1 0.5
"	22	Ki	iP	07 07 50.3		"	22	Up	iP	22 19 29.6 C
		Aleutian Islands						ipP	22 19 42.9	
		(h = 20 km).						iPP	22 22 12	
"	22	Ki	iP	07 37 50.0				iS	22 28 54	
		Aleutian Islands								microns sec
		(h = 40 km).						P	N	0.8 5
"	22	Ki	eP	09 49 06				P	Z	1.2 3
		New Guinea (h = 15 km).						P	Z'	1.7 2.0
"	22	Um	iPKP	12 58 38.7 C				PP	N	0.6 5
		Kermadec Islands						S	E	1.4 7
		(h = 30 km).						S	N	1.3 6
"	22	Up	iP	13 01 25.5 C				M	E	7.2 19
				microns sec				M	N	15 19
			M	E 1.2 16				M	Z	7.2 22
			M	N 1.6 20				D = 8100 km = 73°.		
			M	Z 1.6 17			Ki	iP	22 18 51.3 C	
		Ki	iP	13 00 52.9				iS	22 27 43	
				microns sec						microns sec
			M	E 1.9 17				P	E	1.1 6
			M	N 1.3 17				P	N	0.6 6
			M	Z 2.3 17				P	Z	2.4 6
		Japan (h = 5 km).						P	Z'	1.6 2.5
"	22	Up	iP	18 41 35.7				S	E	2.7 8
				microns sec				S	N	2.2 8
			P	Z' 0.1 0.5				M	E	27 18
		Ka	i(P)	18 42 13.9				M	N	12 20
"	22	Up		---				M	Z	31 18
				microns sec				D = 7450 km = 67°.		
			M	E 0.7 18			Sk	iP	22 19 24.0 C	
			M	N 0.9 18				ipP	22 19 35.2	
			M	Z 1.4 18			Gb	eP	22 19 56	
		Ki	iPKP	20 20 14.1 C			Um	iP	22 19 08.1 C	
			ipPKP	20 20 27.3				ePP	22 21 36	
				microns sec				iS	22 28 15	
			M	E 1.5 23			Ka	iP	22 19 49.0 C	
			M	N 1.5 21				ipP	22 20 02.2	
			M	Z 3.2 20			Japan.			
(cont.)							h = 50 km (Up,Sk,Ka).			
							Magn. = 6.6 (Up,Ki).			
					"	22	Ki	iPKP	23 56 40.1	
							Sk	iPKP	23 56 50.3	
					(cont.)				(cont.)	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Sep.	22	(cont.) Santa Cruz Islands (h = 120 km).		Sep.	24	Up i(Rg) 13 30 57.0 Explosion at 61.2°N, 18.7°E; 13 30 01.0 (Helsinki).	
"	23	Up iP 04 09 52.4 D Kamchatka (h = 30 km).		"	24	Um iP 14 19 59.4	
"	23	Up iP 15 25 48.9 C		"	24	Ki iP 17 26 18.4 i 17 26 23.2 Sk iP 17 26 17.7 Mexico (h = 30 km).	
"	23	Up iP 20 41 56.5		"	24	Um iP 18 39 15.5	
"	23	Sk iP 23 27 02.2 North Atlantic Ocean (h = 30 km).		"	24	Up iP 20 50 12.7 Ki iP 20 50 13.5 Sk iP 20 50 29.0 Sumatra (h = 30 km).	
"	24	Up iPg 05 23 27.0 iSg 05 23 47.6 iRg 05 23 56.4 microns sec Sg Z' 0.2 0.5 Ki iSg 05 26 27.4 Sk ePg 05 24 06 iSg 05 24 52.0 Um iPg 05 23 47.8 iSg 05 24 22.9 Ka iSg 05 25 46.0 Explosion at 61.3°N, 18.2°E; 05 23 00.7 (Helsinki).		"	25	Up iSKS 00 17 30 microns sec M E 1.0 17 M N 1.0 20 M Z 1.1 18 Ki iP 00 06 36.9 i 00 06 47.2 eSKS 00 17 08 microns sec P Z' 0.2 1.5 SKS E 0.3 9 M E 0.8 19 M N 1.3 25 M Z 1.0 18 Sk iP 00 07 01.1 Um iP 00 06 47.8 C i 00 06 52.6 iSKS 00 17 15 Mariana Islands (h = 60 km).	
"	24	Up iPg 06 15 26.4 iSg 06 15 48.9 Um iSg 06 16 24.6 Explosion at 61.3°N, 18.3°E; 06 15 00.7 (Helsinki).		"	25	Ki eF 00 23 53 i 00 23 57.6 Sk e(P) 00 24 23 Um iP 00 24 03.3 i 00 24 10.1 Mariana Islands (h = 70 km). If the second phase at Ki and Um is interpreted as pP, the focal depth will only be around 25 km.	
"	24	Up iPg 06 40 27.7 D i 06 40 29.0 eSg 06 40 49.9 microns sec Pg Z' 0.2 0.4 Sk iPg 06 41 07.4 iSg 06 41 54.0 Um iPg 06 40 47.8 iSg 06 41 22.6 Explosion at 61.3°N, 18.4°E; 06 40 01.0 (Helsinki). Exceptionally, Pg has a larger amplitude than Sg (Up,Um).		"	25	Um iPKP 01 02 05.9 South of Tonga Islands (h = 30 km).	
"	24	Up iPg 07 05 27.3 iSg 07 05 46.9 Um iPg 07 05 47.6 iSg 07 05 22.8 Explosion at 61.3°N, 18.5°E; 07 05 00.6 (Helsinki). Pg of larger amplitude than Sg (Um).		"	25	Sk iPKP 01 47 14.2 Um iPKP 01 47 08.9 Kermadec Islands (h = 30 km).	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965			
Sep.	25	Gb	iPKP 02 20 57.3 South of Tonga Islands (h = 20 km).	Sep.	25	(cont.)	
"	25	Up	iP 07 24 24.8 C			Sk	iP 14 48 23.4 C
"	25	Ki	e 08 52 17 iSg 08 52 41.5				e(PP) 14 50 48
"	25	Sk	iP 10 16 59.9 North Atlantic Ocean (h = 30 km).			Gb	iP 14 48 49.4 C
"	25	Up	iPKP 10 49 35.2 Kermadec Islands (h = 30 km).				ipP 14 49 03.6
"	25	Up	iP 11 06 56.5 Ki iP 11 07 37.2 Ka iP 11 06 34.7 Atlantic Ocean (h = 30 km).			Um	iP 14 48 06.7
"	25	Sk	eP 12 05 34 North Atlantic Ocean (h = 30 km). It is worth noting that earthquakes in this area are better recorded at Sk than at any other of our stations.				iS 14 57 03
"	25	Um	eP 12 10 47			Ka	iP 14 48 51.7
"	25	Up	iPKP 12 48 06.4 Gb iPKP 12 48 16.9 Ka iPKP 12 48 20.3 South of Tonga Islands (h = 240 km).	"	25	Up	iP 14 53 43.9 C
"	25	Up	iP 14 48 30.6 C iS 14 57 47 microns sec P Z' 0.1 1.0 M E 0.8 18 M N 1.4 18 M Z 1.6 20 D = 7900 km = 71°.			Ki	iP 14 53 02.5 C
		Ki	iP 14 47 48.8 ipP 14 47 59.1 iS 14 56 22 microns sec P Z' 0.1 1.0 S E 0.4 11 M E 5.2 20 M N 2.1 18 M Z 4.1 16 D = 7100 km = 64°.				ipP 14 53 14.3
(cont.)						Sk	iP 14 53 37.5
						Gb	iP 14 54 02.5
						Um	iP 14 53 20.8 C
							ipP 14 53 32.3
						Japan.	
						h = 50 km (Ki, Gb).	
						Magn. = 5.7 (Up, Ki).	
						h = 45 km (Ki, Um).	
						Japan.	
						h = 40 km.	
						Magn. = 5.9 (Up, Ki).	
				"	25	Up	iP 15 04 51.5 C
							microns sec
						P	Z' 0.2 1.0
						M	E 1.0 18
						M	N 1.0 17
						M	Z 1.6 20
						Ki	iP 15 04 09.3 C
							microns sec
						P	Z' 0.2 1.0
						M	E 2.3 15
						M	N 1.5 17
						M	Z 3.2 16
						Sk	iP 15 04 43.3 C
						Gb	iP 15 05 09.3 C
						Um	iP 15 04 27.5 C
						Ka	iP 15 05 09.2
						Japan (h = 40 km).	
						Magn. = 5.9 (Up, Ki).	
				"	25	Up	iP 15 55 25.9 C
							ipP 15 56 55
							iSa 16 04 39
							iLgl 16 08 28
							microns sec
						P	Z' 0.2 1.0
						M	E 0.7 13
						M	N 1.1 14
						M	Z 1.9 12
						Ki	iP 15 55 24.5 C
							iSa 16 04 05
							iLi 16 07 14
							microns sec
						P	Z' 0.2 1.0
						M	E 1.0 10
				(cont.)		(cont.)	

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965	25	(cont.)				1965	25	(cont.)			
			Ki		microns sec				Um	iPP	20 16 51.4
			M	N	1.5 9				i		20 21 25
			M	Z	1.0 8				North Atlantic Ocean		
			Sk	iP	15 55 47.5				(h = 30 km).		
				i	15 55 51.6				The phase appearing very		
				iLgl	16 09 52.6				clearly 17-22 sec after		
			Gb	iP	15 55 48.5				P could possibly belong to		
			Um	iP	15 55 18.2				another shock.		
				iPP	15 56 40.0		"	26	Ki	iP	00 48 47.5
				i	16 04 39					ipP	00 49 06.6
				i	16 07 31				Sk	iP	00 48 44.9
				iLgl	16 07 55				Um	iP	00 48 57.3
			Ka	eP	15 55 36					ipP	00 49 17.0
			Kirghiz SSR (h = 30 km).						Mexico.		
			Magn. = 5.9 (Up,Ki).						h = 70 km (Ki,Um).		
			Well developed higher-mode								
			surface waves.								
"	25	Up	eP		17 05 34		"	26	Up	iPKP	01 21 59.4
			ipP		17 05 43.7					i	01 22 06.1
					microns sec				Sk	iPKP	01 21 53.2
			M	E	0.6 16				Um	iPKP	01 21 48.5
			M	N	1.0 19				Kermadec Islands		
			M	Z	1.3 17				(h = 390 km).		
			Ki	iP	17 05 06.8		"	26	Ki	eP	04 13 39
					microns sec				Aleutian Islands		
			M	E	1.0 19				(h = 30 km).		
			M	N	0.6 18						
			M	Z	1.1 17		"	26	Ki	iSg	04 24 13.7
			Um	iP	17 05 17.9				Sk	eSg	04 26 49
				i	17 05 22.1				Um	i	04 24 56.8
			Mariana Islands (h = 40 km).							iSg	04 25 14.1
"	25	Ki	iP		17 55 18.9				Northwest Russia.		
		California (h = 15 km).							Explosion?		
"	25	Up	eP		20 16 02		"	26	Up	iPg	04 50 28.1 C
			e		20 16 23					iSg	04 50 47.1
			iPP		20 16 42.1				Ki	eSg	04 53 27
					microns sec				Sk	iSg	04 51 59.7
			M	E	1.5 20				Um	iPg	04 50 47.3
			M	N	2.1 21					iSg	04 51 22.6
			M	Z	2.9 22				Explosion at 61.2°N, 18.7°E;		
			Ki	iP	20 16 05.8 C				04 50 01.1 (Helsinki).		
				i	20 16 27.5		"	26	Up	iPg	05 30 27.6 C
				iPP	20 16 50.8					iSg	05 30 49.3
					microns sec				Sk	iSg	05 31 58.3
			M	E	0.8 18				Um	iPg	05 30 47.2 C
			M	N	0.8 19					iSg	05 31 23.3
			M	Z	1.3 18				Explosion at 61.2°N, 18.6°E;		
			Sk	iP	20 15 37.6				05 30 00.8 (Helsinki).		
				i	20 15 55.2		"	26	Up	iPg	05 50 28.2 C
				iPP	20 16 16.4					iSg	05 50 50.3
			Um	iP	20 16 06.7				(cont.)		
				i	20 16 29.4						
			(cont.)								

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965	
Sep.	26	(cont.)		Sep.	26
		Um	iPg 05 50 48.5	Up	iPg 14 27 28.2
			iSg 05 51 24.3		iSg 14 27 50.5
			Explosion at 61.3°N, 18.5°E;	Sk	iRg 14 27 58.5
			05 50 01.8 (Helsinki).	Um	eSg 14 29 02
"	26	Up	iPg 06 22 27.4	Um	iPg 14 27 47.5
			iSg 06 22 49.6		iSg 14 28 21.7
		Um	iPg 06 22 47.9		Explosion at 61.2°N, 18.9°E;
			iSg 06 23 23.1		14 27 01.0 (Helsinki).
			Explosion at 61.3°N, 18.5°E;	"	26
			06 22 00.9 (Helsinki).	Up	iPg 14 50 28.8
"	26	Up	iP 06 37 27.2		iSg 14 50 48.8
"	26	Um	iPKP 07 16 42.7	Sk	eSg 14 52 02
			Kermadec Islands	Um	iPg 14 50 47.6
			(h = 60 km).		iSg 14 51 23.4
"	26	Up	eP 10 09 17		Explosion at 61.2°N, 18.9°E;
			microns sec		14 50 01.3 (Helsinki).
		M	E 1.0 21	"	26
		M	N 1.1 21	Up	iPKP 21 52 45.8
		M	Z 1.7 21		iPKKP 22 02 39.9
		Ki	iP 10 09 17.9		microns sec
			microns sec		M N 1.0 17
		M	E 0.9 18		M Z 1.1 18
		M	N 0.5 14	Ki	iPKP 21 53 00.6 C
		M	Z 1.0 18		iPP 21 55 10.4
		Sk	eP 10 08 47		iSKP 21 56 20
		Um	iP 10 09 19.1		eScSP 22 05 26
			iS 10 14 17		microns sec
			North Atlantic Ocean		PKP Z' 0.4 1.2
			(h = 30 km).		SKP E 0.9 6
			P(Z') at Sk exhibits an		SKP N 0.9 6
			unusually regular wave		SKP Z 0.6 5
			train with constant period		M E 0.8 17
			and amplitude, lasting for		M N 0.6 16
			26 sec.		M Z 1.0 16
"	26	Up	iPg 12 59 28.0		(D = 14350 km = 129°).
			iSg 12 59 46.6	Sk	iPKP 21 52 49.8 C
		Ki	eSg 13 02 27		iPP 21 54 34.8
		Um	iPg 12 59 47.7	Um	iPKP 21 52 53.1 C
			iSg 13 00 32.7		iPP 21 54 46
			Explosion at 61.2°N, 18.7°E;		iSKP 21 56 08
			12 59 01.0 (Helsinki).		iScSP 22 04 56
"	26	Up	iPg 13 50 27.2	Ka	iPKP 21 52 39.3
			iSg 13 50 48.3		i 21 52 44.9
		Ki	iRg 13 50 57.1		iPP 21 53 57.9
		Um	eSg 13 53 28		South Georgia Island
		Sk	iSg 13 52 00.9		(h = 30 km).
		Um	iPg 13 50 47.6	"	27
			iSg 13 51 23.4	Up	iP 01 19 20.2
			Explosion at 61.2°N, 18.8°E;	Ki	iP 01 18 19.4
			13 50 01.0 (Helsinki).	Sk	iP 01 19 03.4
"	26	Up	iPg 13 50 27.2	Um	iP 01 18 47.5 C
			iSg 13 50 48.3		i 01 18 52.1
		Ki	iRg 13 50 57.1	Ka	iP 01 19 50.1
		Um	eSg 13 53 28		Siberia (h = 30 km).
		Sk	iSg 13 52 00.9	"	27
		Um	iPg 13 50 47.6	Um	iP 04 59 15.8 C
			iSg 13 51 23.4		i 04 59 23.8
			Explosion at 61.2°N, 18.8°E;		
			13 50 01.0 (Helsinki).		

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Year	Date	Station	Type	Time	Mag.	Location			
1965	Sep. 27	Up	iPg	05 15	27.5	Explosion at 61.2°N, 18.9°E; 05 15 00.1 (Helsinki).			
			iSg	05 15	50.1				
			iRg	05 15	57.6				
			Sk eSg	05 17	04				
			Um iPg	05 15	46.4				
					iSg		05 16	21.3	
"	27	Up	iP	05 20	04.0 C	Aleutian Islands. h = 30 km (Up,Ka). Magn. = 5.8 (Up,Ki).			
			ipP	05 20	12.1				
							microns sec		
			P	Z'	0.1 0.5				
			M	E	0.8 20				
					M		N	1.9 23	
					M		Z	1.9 23	
		Ki	iP	05 19	10.6 C				
					microns sec				
					P		Z'	0.1 0.9	
			M	E	0.9 20				
			M	N	0.8 20				
			M	Z	1.6 20				
		Sk	iP	05 19	44.3				
			iPcP	05 20	19.4				
		Gb	iP	05 20	24.7				
		Um	iP	05 19	36.4 C				
			iPcP	05 20	14.0				
		Ka	iP	05 20	27.2				
			ipP	05 20	35.7				
"	27	Up	iPg	05 40	29.1	Explosion at 61.2°N, 19.0°E; 05 40 01.2 (Helsinki).			
			iSg	05 40	51.3				
			Um iPg	05 40	46.9				
							iSg	05 41	22.8
"	27	Up	iPg	06 05	29.1	Explosion at 61.2°N, 19.1°E; 06 05 01.1 (Helsinki).			
			iSg	06 05	50.9				
			Um iPg	06 05	47.5				
							iSg	06 06	22.5
"	27	Up	iPg	06 40	29.3	Explosion at 61.2°N, 19.2°E; 06 40 01.1 (Helsinki).			
			iSg	06 40	51.7				
							microns sec		
			Pg	Z'	0.1 0.4				
			Sg	Z'	0.1 0.4				
		Sk	ePg	06 41	12				
					iSg		06 42	06.1	
		Um	iPg	06 40	47.4				
					iSg		06 41	22.3	
1965	Sep. 27	Up	iP	08 41	56.2	Aleutian Islands (h = 50 km).			
			Ki iP	08 41	03.5				
		"	27	Ki	iPKP		10 19	42.1	
				Um	iPKP		10 19	50.2	
								New Hebrides Islands (h = 10 km).	
"	27	Up	iPg	10 30	08.1	Baltic Sea, 58.6°N, 18.0°E. Origin time 10 29 44. Probably underwater explosion.			
			iSg	10 30	22.1				
							D = 130 km = 1.2°.		
			Sk	eLgl	10 32		43		
"	27	Up	iPg	11 16	38.3	Baltic Sea, 58.6°N, 18.0°E. Origin time = 11 16 14. Probably underwater explosion.			
			iSg	11 16	53.6				
							D = 130 km = 1.2°.		
			Sk	eLgl	11 19		11		
			Ka	iSg	11 17		47.5		
"	27	Up	iSg	15 01	20.3	Probably in the region southwest of Sweden. No satisfactory solution found.			
			Sk	iSg	15 02		33.1		
			Gb	i	14 59		16.7		
							iSg	14 59	30.3
							Um	i	15 02
"	27	Um	iP	15 48	05.2	Probably Nordlands Fylke, Norway.			
		"	27	Ki	eSg		19 55	05	
				Sk	iSg		19 55	18.1	
				Um	e		19 55	18	
								e(Sg) 19 55 32	
"	27	Up	iP	20 42	26.5	Kurile Islands (h = 30 km).			
		"	27	Up	iP		20 50	36.7	
				Ki	iP		20 49	49.5	
				Um	iP		20 50	10.5	
"	28	Up	i(PKP)	05 26	13.3	(cont.)			
			iPKP	05 26	17.4 C				
							e	05 27	14

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Year	Date	Location	Station	Time	Depth (km)	Magnitude	Notes
1965	Sep. 28	(cont.)	Up				
							microns sec
			PKP N	0.4	6		
			PKP Z	0.9	6		
			PKP Z'	0.1	1.0		
			M E	2.3	20		
			M N	11	24		
			M Z	12	24		
							(D = 16200 km = 146°).
		Ki	i(PKP)	05 26 08			
			ePP	05 28 55			
			ePKS	05 29 35			
							microns sec
			PP Z	0.5	8		
			PKS E	0.4	6		
			PKS N	0.5	7		
			M E	7.4	21		
			M N	5.1	21		
			M Z	7.8	22		
							(D = 15350 km = 138°).
		Sk	iPKP	05 26 09.8			
		Gb	iPKP	05 26 22.2			
		Um	iPKP	05 26 04.7			
			e	05 28 23			
			iSS	05 47 46			
			iSSP	05 48 15			
							Kermadec Islands (h = 30 km).
							Magn. = 6.5 (Up,Ki).
"	28	Up	iP	07 59 48.2			
		Ki	iP	07 59 11.6 C			
		Sk	iP	07 59 41.5			
		Um	iP	07 59 26.0 C			
			ipP	07 59 32.0			
							South of Japan.
							h = 25 km (Um).
"	28	Ki	iP	08 14 40.8			
		Sk	eP	08 15 10			
		Um	iP	08 14 55.0			
							South of Japan
							(h = 30 km).
"	28	Sk	iPKP	10 20 03.4			
		Um	iPKP	10 20 02.3			
			i	10 20 05.1			
							New Hebrides Islands
							(h = 25 km).
"	28	Ki	iP	22 16 10.0 D			
		Sk	iP	22 16 20.6			
"	29	Sk	iPKP	01 36 11.7			
		Um	iPKP	01 36 04.2			
							South of Kermadec Islands
							(h = 30 km).
1965	Sep. 29	Um	iPKP	05 26 10.1			
							South Sandwich Islands
							(h = 30 km).
"	29	Up	iPg	05 59 29.9			
			iSg	05 59 51.0			
			iRg	06 00 00.8			
							microns sec
			Pg Z'	0.1 0.4			
			Sg Z'	0.1 0.4			
		Ki	iSg	06 02 29.3			
		Sk	iSg	06 01 06.4			
		Um	iPg	05 59 47.7			
			iSg	06 00 22.8			
							Explosion at 61.2°N, 19.2°E;
							05 59 (Helsinki).
"	29	Up	iP	06 26 28.4			
			i	06 26 52.4			
		Ki	iP	06 26 23.5			
		Sk	iP	06 26 46.1			
			i	06 27 09.3			
		Um	iP	06 26 20.8			
			i	06 26 44.6			
"	29	Up	iPg	06 50 28.7			
			iSg	06 50 50.6			
							microns sec
			Sg Z'	0.2 0.5			
		Ki	iSg	06 53 32.1			
		Sk	ePg	06 51 13			
			iSg	06 52 07.0			
		Um	iPg	06 50 47.1			
			iSg	06 51 21.6			
							Explosion at 61.2°N, 19.3°E;
							06 50 01.6 (Helsinki).
"	29	Up	iPg	08 27 30.1			
			iSg	08 27 52.2			
			iRg	08 27 57.8			
							microns sec
			Pg Z'	0.1 0.4			
			Sg Z'	0.2 0.4			
		Sk	iSg	08 29 08.9			
		Um	iPg	08 27 46.9			
			iSg	08 28 22.3			
							Explosion at 61.2°N, 19.3°E;
							08 27 01.6 (Helsinki).
"	29	Up	iPg	09 09 30.2			
			iSg	09 09 53.3			
		Um	iPg	09 09 47.5			
			iSg	09 10 22.8			
							Explosion at 61.2°N, 19.4°E;
							09 09 01.2 (Helsinki).

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1965						1965				
Sep.	29	Up	iP	14 00	18.4	Sep.	30	(cont.)		
		Ki	iP	13 59	25.5 C			Up	microns	sec
		Sk	iP	13 59	56.8			S	E	0.8 11
			iPcP	14 00	30.5			M	E	1.8 19
		Um	iP	13 59	51.8			M	N	4.2 19
			iPcP	14 00	23.1			M	Z	2.9 18
		Ka	iP	14 00	41.0			D = 6650 km = 60°.		
		Aleutian Islands						Ki	iP	23 57 00.1
		(h = 60 km).							iX	23 57 18
"	29	Up	iPKP	21 46	11.7				iS	00 04 27
		Kermadec Islands							microns	sec
		(h = 80 km).						S	E	2.7 15
"	29	Up	iP	23 26	33.6 C			S	N	1.5 8
		Ki	iP	23 26	59.9			M	E	2.4 18
								M	N	6.2 21
								M	Z	6.8 19
								D = 5950 km = 53 1/2°.		
								Sk	iP	23 57 16.8
									i	23 57 52.8
								Gb	eP	23 57 56
								Um	iP	23 57 21.4
									i	23 57 29.8
									iX	23 57 37
									iPa	23 59 56
									iS	00 05 23
								Ka	iP	23 58 10.0
									iX	23 58 27.5
								Gulf of Alaska (h = 20 km).		
								Magn. = 5.8 (Up,Ki).		
"	30	Up	iP	00 24	56.2 C					
"	30	Ki	iP	01 32	24.0					
			i(Sg)	01 32	35.7					
"	30	Sk	eP	04 22	59					
		Mexico (h = 30 km).								
"	30	Ki	iSKP	07 27	08.8					
		Gb	iPKP	07 24	55.6					
		Fiji Islands (h = 630 km).								
"	30	Ki	iSKP	07 28	19.6					
		Sk	eSKP	07 28	36					
		Gb	iPKP	07 26	05.5					
		Fiji Islands (h = 600 km).								
"	30	Ki	iPn	16 50	09.6					
			iPg	16 50	18.9					
			iSn	16 50	58.1					
			iSg	16 51	13.3					
		Um	eSg	16 52	38					
		Probably northwest Russia.								
		Explosion?								
"	30	Up	eP	23 57	47					
			i	23 58	13					
			eS	00 06	09					
			iPS	00 06	24					
		(cont.)								

Markus Båth
 May 6, 1966

Seismological Institute
Uppsala

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,
UMEÅ and KARLSKRONA

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

OCTOBER 1 - 31, 1965
.....

1965					1965					
Oct.	1	Up	eP	04 25 04	Oct.	1	(cont.)			
"	1	Up	iP	09 03 11.1 D			Sk	iP	09 02 50.7	
			ipP	09 03 22.9				eP'P'	09 31 29	
			iPP	09 05 43			Gb	iP	09 03 24.0	
			iPa	09 07 27				iPa	09 07 53.5	
			iS	09 12 13			Um	iP	09 02 43.9 D	
			eP'P'	09 31 11				iS	09 11 22	
				microns sec				iP'P'	09 31 26.0	
			P	N 4.1 7			Ka	iP	09 03 33.4	
			P	Z 7.6 7				ipP	09 03 45.2	
			P	Z' 1.5 1.0				i	09 05 59.7	
			PP	Z 1.4 5				iPa	09 08 04.9	
			S	E 1.4 7			Aleutian Islands.			
			S	N 3.2 6			h = 45 km (Up,Ka).			
			M	E 9.0 23			Magn. = 6.9 (Up,Ki).			
			M	N 13 21		"	1	Up	iP	09 20 47.1
			M	Z 9.0 20				Ki	iP	09 19 55.1 C
			D = 7650 km = 69°.					Aleutian Islands (h = 30 km).		
		Ki	iP	09 02 18.8 D		"	1	Up	iP	12 41 35.1 C
			i	09 02 43						
			iS	09 10 34		"	1	Up	iPKP	13 40 40.9
			iScS	09 12 15					iSKP	13 43 29.7
			iP'P'	09 31 33.5					i	13 43 36.3
				microns sec						
			P	E 1.2 14						
			P	N 5.6 7						
			P	Z 11 7						
			P	Z' 1.1 1.0						
			S	E 5.6 14						
			S	N 7.4 9						
			P'P'	Z' 0.4 2.0						
			M	E 21 20				Sk	e(PKP)	13 40 33
			M	N 10 19					ipKP	13 40 43.7
			M	Z 13 19					iSKP	13 43 23.8
			D = 6800 km = 61°.					Gb	ipKP	13 40 45.4
									i	13 40 51.0
		(cont.)						(cont.)		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Oct.		(cont.)		Oct.		(cont.)	
		Gb	iSKP 13 43 34.8			68.0°N, 32.0°E.	
			i 13 43 48.9			Origin time = 05 17 05.	
		Um	i(PKP) 13 40 31.4			Explosion?	
			iPKP 13 40 40.1			This is definitely one of	
			i 13 43 05.0			the strongest events in this	
			iSKP 13 43 16.8			whole series.	
		Ka	iPKP 13 40 49.6				
			iSKP 13 43 38.9				
		New Hebrides Islands (h = 550 km).					
	1	Um	iP 13 56 32.1		2	Up	iP 07 50 39.6
			i 13 56 39.5				
	"	1	Um iP 18 43 44.9		"	2	Ki iP 08 45 06.2
			Italy.				Um eP 08 45 03
							Sumatra (h = 30 km).
	"	1	Up ePKP 20 04 05		"	2	Up iP 09 09 07.6
			Ki iPKP 20 03 57.6				Ki iP 09 08 43.2
			Sk iPKP 20 04 05.7				Sk iP 09 09 11.0
			Um iPKP 20 03 56.1				Um iP 09 08 52.2
		West of Macquarie Islands (h = 30 km).					Formosa.
	"	1	Up iP 22 23 05.1		"	2	Ki e 11 26 48
							Um i 11 26 03.5
	"	1	Up iP 22 53 19.5				i(Sg) 11 26 31.7
			iPP 22 55 07.2		"	2	Up iP 11 58 33.5
		Ki	iPKP 22 53 33.8 D		"	2	Up iP 12 19 34.1
			iPP 22 55 55.1				Ki iP 12 18 59.0
							Sk iP 12 19 31.5
							Um iP 12 19 14.5 D
							ipP 12 19 27.1
							South of Japan.
							h = 50 km (Um).
	"	2	Up iP 22 53 24.1		"	2	Up iP 13 23 55.6
			iPP 22 55 21.1				Um i(P) 13 23 35.6
		Um	iPKP 22 53 27.2		"	3	Up iP 10 57 13.0
			i 22 53 32.1				microns sec
			iPP 22 55 32				P Z' 0.1 0.5
			iPKS 22 56 48				Ki iP 10 56 20.1 C
		South Sandwich Islands (h = 30 km).					microns sec
	"	2	Up iSn 05 21 27.8				P Z' 0.2 0.6
			iS ^x 05 22 06.8				Sk iP 10 56 50.3 C
			iSg 05 22 33.5				iPcP 10 57 25.0
		Ki	iPn 05 18 14.1				Gb iP 10 57 25.8
			iSn 05 19 10.0				Um iP 10 56 46.6 C
			iSg 05 19 28.6				iPcP 10 57 22.3
			D = 490 km = 4.4°.				Ka iP 10 57 35.8 C
		Sk	eSn 05 21 04				Aleutian Islands (h = 20 km).
			iSg 05 22 03.0				Magn. = 6.2 (Up,Ki).
		Um	iPn 05 18 40.9 C		"	3	Up iP 14 56 10.5 C
			iSn 05 19 54.2				eS 15 04 53
			iSg 05 20 33.5				microns sec
			D = 700 km = 6.3°.				P N 0.7 5
		Northwest Russia, (cont.)					(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Oct.	3	(cont.)		Oct.	3	(cont.)	
		Up	microns sec			Um	iPKP 16 34 02.6
		P	Z 0.8 3				iPP 16 36 16
		P	Z' 0.4 1.0				iPKS 16 37 25
		S	N 1.1 9				iX 16 44 27
		M	E 3.0 22				iSS 16 53 37
		M	N 10 23				iPKPKS 16 55 56
		M	Z 9.8 23				Chile (h = 30 km).
			D = 7350 km = 66°.				Magn. = 6.4 (Up,Ki).
		Ki	iP 14 55 20.3 C				The phase called X above,
			iPcP 14 56 11.0				which is very clear on Ki and
			eS 15 03 15				Um long-period N, does not lend
			microns sec				itself to any immediate
		P	N 0.9 5				interpretation.
		P	Z 1.1 5		"	4	Up iP 00 13 19.3
		S	E 0.9 12				Ki iP 00 12 25.4
		S	N 0.7 13				Sk iP 00 12 59.7
		M	E 8.6 22				Gb eP 00 13 42
		M	N 3.3 18				Um iP 00 12 50.8
		M	Z 5.1 18				Aleutian Islands (h = 30 km).
			D = 6450 km = 58°.		"	4	Up ---
		Sk	iP 14 55 56.5 C				microns sec
			i 14 56 15.9				M N 0.5 18
		Gb	eP 14 56 31 C				Ki iP 00 27 44.2
			ePcP 14 56 57				iPKP 00 31 47.4
		Um	iP 14 55 44.1 C				Sk iPKP 00 31 57.5
			iPP 14 58 01				New Guinea (h = 80 km).
			iPa 14 59 39				
			iS 15 03 54		"	4	Um iP 01 36 04.5 C
		Ka	iP 14 56 34.6 C		"	4	Up iP 01 37 47.9
			Kurile Islands (h = 30 km).				microns sec
			Magn. = 6.2 (Up,Ki).				M N 0.6 16
"	3	Up	eSS 16 52 59				M Z 0.5 11
			microns sec				Ki iP 01 37 25.1
		M	E 2.0 21				microns sec
		M	N 2.4 20				M E 1.1 13
		M	Z 3.9 20				M N 0.5 14
		Ki	iPKP 16 34 05.1				M Z 0.9 11
			iPP 16 36 22				Sk iP 01 37 52.1
			iPKS 16 37 30				Gb eP 01 38 13
			iX 16 44 41				Um iP 01 37 32.4
			iSS 16 53 58				i 01 37 41.9
			microns sec				Formosa.
		PKP	Z' 0.2 1.3		"	4	Up iPKP 03 32 02.6
		PP	E 1.1 5				i 03 32 09.9
		PP	Z 0.9 6				Ki ePKP 03 31 35
		PKS	E 1.5 6				Sk iPKP 03 31 57.9 C
		PKS	Z 1.0 8				Um iPKP 03 31 52.1
		M	E 2.8 18				South of Kermadec Islands
		M	N 1.7 20				(h = 170 km).
		M	Z 2.3 17		"	4	Ki eP 04 23 35
			(D = 14650 km = 132°).				(cont.)
		Sk	iPKP 16 33 56.5 C				
		Gb	ePKP 16 33 53				
		(cont.)					

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1965					1965				
Oct.	4	(cont.)			Oct.	5	Ka	iP	15 09 25.0
		Ki	i	04 23 38.6	"	6	Up	iP	07 58 03.2
		Sk	iP	04 23 47.5	"	6	Up	iP	08 13 06.0
		Gb	eP	04 24 20			Ki	eP	08 12 55
		Um	iP	04 24 01.5			Sk	iP	08 13 20.3
		Off coast of Oregon					Ka	iP	08 13 17.0
		(h = 30 km).					India-China (h = 25 km).		
"	4	Ki	iP	05 45 32.5 C	"	6	Ka	iPKP	08 38 50.1
		Sk	eP	05 45 15			Tonga Islands (h = 40 km).		
		Iceland (h = 30 km).			"	6	Up	iP	15 42 24.8 C
"	4	Ki		---				P	Z' 0.2 0.7
				microns sec			Ki	iP	15 42 35.0 C
		M	E	0.7 17				P	Z' 0.1 1.0
		M	N	0.6 18			Sk	iP	15 42 51.1 C
		M	Z	1.0 18			iPP	15 44 32.8	
		Sk	eP	06 35 50			Gb	iP	15 42 46.6 C
		Um	eS	06 46 26			Um	iP	15 42 23.8 C
		Panama-Costa Rica					i	15 42 28.9	
		(h = 40 km).					Ka	iP	15 42 29.4 C
"	5	Up	iP	00 26 30.4 C			isP	15 43 32.3	
				microns sec			Hindu Kush (h = 200 km).		
			P	Z' 0.1 0.8			Magn. = 5.8 (Up,Ki).		
		Ki	iP	00 25 34.2 C	"	6	Up	iP	18 07 27.7
				microns sec			i	18 07 37.8	
			P	Z' 0.1 0.8			Ki	iP	18 08 06.0
		Sk	iP	00 25 58.5 C			i	18 08 31.9	
		Gb	eP	00 26 47 C			Sk	iP	18 08 03.1 C
		Um	iP	00 26 03.9 C			iSn	18 13 30.8	
		Ka	iP	00 26 54.2 C			iLi	18 16 08.0	
		Yukon (h = 10 km).					Gb	iP	18 07 42.9
		Magn. = 5.8 (Up,Ki).					Um	iP	18 07 40.6
"	5	Um	iP	01 06 42.2			i	18 08 02.1	
		Banda Sea (h = 90 km).					iSn	18 12 30.4	
"	5	Um	iP	01 22 32.4 D			Ka	iP	18 07 22.8
"	5	Um	i(P)	07 45 11.2			i	18 07 35.3	
			i	07 46 10.2			Caucasus.		
"	5	Up	iP	09 56 29.8			This is another instance of Sn		
		Ki	iP	09 56 56.3 C			propagating to teleseismic		
				microns sec			distances (Sk,Um) across the		
		M	E	0.7 17			Russian platform.		
		M	N	0.6 18	"	6	Up	iP	20 37 32.4
		Sk	iP	09 56 55.7			i	20 37 35.6	
		Gb	eP	09 56 39				microns sec	
		Um	eP	09 56 45			P	Z' 0.1 0.6	
			iS	10 06 47	"	6	Up	iP	22 48 54.5 C
		Indian Ocean (h = 30 km).					Ki	iP	22 49 03.5
"	5	Up	i(P)	14 13 24.2			Sk	iP	22 49 19.8
		Gb	i(P)	14 13 39.0			(cont.)		

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1965					1965				
Oct.	6	(cont.)			Oct.	7	(cont.)		
		Um	iP	22 48 52.7 C			Um	iP	14 16 41.0
		Ka	iP	22 48 59.6 C			Aleutian Islands		
		Hindu Kush (h = 210 km).					(h = 25 km).		
"	7	Ka	iPKP	01 28 37.8	"	7	Ki	iPn	16 34 28.0
		Tonga Islands (h = 50 km).						iSn	16 35 16.3
								iSg	16 35 32.6
"	7	Up	iP	03 48 22.9 C				D = 410 km = 3.7°.	
			eS	03 58 37			Sk	iSg	16 38 19.8
				microns sec			Um	iSg	16 37 03.3
		P	Z'	0.3 0.8			Northwest Russia,		
		M	E	1.7 18			68.9°N, 30.1°E.		
		M	N	2.9 18			Origin time = 16 33 30.		
		M	Z	2.3 18			Explosion?		
		D = 9200 km = 83°.							
		Ki	iP	03 48 09.4 C	"	7	Um	iPKP	17 24 08.7
			iS	03 58 08				i	17 24 21.9
				microns sec			Kermadec Islands		
		P	Z	0.6 5			(h = 30 km).		
		P	Z'	0.6 0.9					
		S	E	0.9 12	"	8	Up	iP	06 06 53.5 C
		M	E	4.5 20				i	06 06 56.5
		M	N	2.7 20				iPn	06 07 56.8
		M	Z	3.2 17				iPP	06 08 12.2
		D = 8900 km = 80°.					Ki	iP	06 06 37.5 C
		Sk	iP	03 48 31.0 C				iPP	06 07 54.7
		Gb	iP	03 48 36.3 C				i	06 08 06.6
		Um	iP	03 48 12.8 C					microns sec
			i	03 48 20.8				P	Z' 0.2 0.6
			iS	03 58 13			Sk	iP	06 07 08.5 C
		Ka	iP	03 48 33.1 C			Gb	iP	06 07 20.9
		South China Sea (h = 15 km).						iPP	06 08 46.3
		Magn. = 6.1 (Up,Ki).					Um	iP	06 06 37.9
								i!	06 08 36.3
"	7	Up	iPKP	07 16 55.8			Ka	iP	06 07 08.9 C
		Ki	iPKP	07 16 46.5				iPP	06 08 33.0
			iSKP	07 19 39.8			Kazakh SSR.		
		Gb	iPKP	07 17 03.8			Magn. = 5.8 (Up,Ki).		
		Um	iPKP	07 16 44.2			Underground explosion.		
			i	07 16 54.0					
			iSKP	07 19 47.2	"	8	Up	iP	16 13 37.1
		Ka	iPKP	07 17 07.9			Aleutian Islands		
		South of Fiji Islands					(h = 40 km).		
		(h = 380 km).							
"	7	Ki	iPKP	09 38 20.3	"	8	Up	iP	16 43 31.9
		Um	iPKP	09 38 27.4			Ki	iP	16 42 38.7
		New Hebrides Islands						iPcP	16 43 22.8
		(h = 25 km).					Aleutian Islands		
							(h = 40 km).		
"	7	Up	iP	14 17 07.8	"	8	Up	iPKP	22 19 16.1
		Ki	iP	14 16 14.7					microns sec
				microns sec				PKP	Z' 0.2 0.7
		P	Z'	0.1 1.0			Gb	iPKP	22 19 23.2 D
		Gb	iP	14 17 23.9				i	22 19 34.1
		(cont.)					(cont.)		

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1965				1965			
Oct.	8	(cont.) Ka iPKP Tonga-Kermadec Islands (h = 30 km).	22 19 26.8	Oct.	10	(cont.) Ki iPKP Um iPKP i South Sandwich Islands (h = 60 km).	17 44 50.1 17 44 42.6 17 44 57.3
"	9	Um iP	00 30 44.0	"	11	Ki iP i Sk iP i Mindanao (h = 90 km).	05 04 57.6 C 05 05 08.6 05 05 19.5 05 05 30.6
"	9	Up iP	01 05 52.6	"	12	Ki iP	06 22 02.7
"	9	Up iP Sk iP West Pakistan.	04 42 54.3 C 04 43 18.9	"	12	Up iP ipP Ki iP Um iP Aleutian Islands. h = 20 km (Up).	06 38 14.8 06 38 20.0 06 37 20.5 06 37 46.8
"	9	Um iPKP South of Kermadec Islands (h = 170 km).	05 03 45.3	"	12	Sk iPKP Kermadec Islands (h = 30 km).	07 06 47.2
"	9	Um iP Aleutian Islands (h = 40 km).	07 48 21.8	"	12	Ki iP Sk iP Um iP Gulf of Alaska (h = 15 km).	08 25 39.9 08 26 03.6 08 26 06.0 C
"	9	Up iP	09 15 05.9 D	"	12	Up i(P) iP iS microns sec P Z' 0.1 0.6 S E 0.5 5 M E 1.4 18 M N 1.2 15 M Z 1.4 15 D = 7150 km = 64 1/2°.	13 51 30.6 13 51 32.8 14 00 06
"	9	Ki iPn iPg iSn iSg D = 220 km = 2.0°. Sk e(Sg) Um iSg Northwest coast of Norway, 69.0°N, 15.9°E. Origin time = 11 08 09.	11 08 43.9 11 08 49.7 11 09 09.4 11 09 15.7	"	12	Ki i(P) iP ipP eS microns sec P Z' 0.3 0.8 S N 0.8 12 M E 2.5 23 M N 1.3 17 M Z 1.5 18 D = 6350 km = 57°.	13 50 36.8 13 50 38.8 13 50 48.4 13 58 40
"	9	Up iP ipP Um iP ipP Japan. h = 60 km (Up,Um).	13 35 22.6 C 13 35 38.4 13 35 01.3 13 35 17.3	"	10	Up iP i microns sec M E 1.4 15 M Z 2.5 16 Ryukyu Islands (h = 30 km).	10 32 51.8 10 33 03.1
"	9	Um iP	21 10 06.2 C	"	10	Up iPPKP microns sec PKP Z' 0.1 0.8 (cont.)	17 44 34.5
"	10	Up iP Gb eP Aleutian Islands (h = 40 km).	00 46 55.5 00 47 06	"	10	Up iP iP ipP Gb i(P) iP ipP (cont.)	13 51 03.8 13 51 06.3 13 51 15.4 13 51 42.1 13 51 44.0 13 51 53.1

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1965					1965				
Oct. 16	(cont.)				Oct. 18	Up	iPP	22 07 45.8	
	Sk	iP	20 11 55.3				iSKS	22 14 29	
	Gb	iP	20 12 26.3					microns sec	
	Um	iP	20 11 47.3				SKS	E 0.9 10	
	Ka	iP	20 12 31.0 D				M	E 7.2 19	
	Komandorsky Islands						M	N 11 18	
	(h = 30 km).						M	Z 8.1 17	
"	16	Up	iP	22 57 02.9		Ki	iP	22 03 39.5	
				microns sec			i	22 03 41.4	
			M	E 1.1 20			iSKS	22 14 07	
			M	N 1.5 15			e(S)	22 14 49	
			M	Z 1.3 14				microns sec	
		Ki	---				P	Z' 0.1 1.2	
				microns sec			SKS	N 0.7 4	
			M	E 2.3 15			(S)	N 0.9 7	
			M	N 1.7 15			M	E 15 20	
			M	Z 3.2 14			M	N 7.6 19	
		Kamchatka (h = 80 km).					M	Z 15 20	
"	18	Up	iP	10 29 22.1		Um	iP	22 03 46.5 D	
			ipP	10 29 28.3			iPP	22 08 01	
			iPP	10 30 48.1			iSKS	22 14 17	
			i	10 39 52			i	22 17 32	
			iLgl	10 42 00			Halmahera (h = 30 km).		
				microns sec			Magn. = 6.5 (Up,Ki).		
			pP	Z' 0.1 0.7	"	19	Um	i	04 04 44.8
			M	E 2.2 8				i(Sg)	04 04 54.5
			M	N 2.6 10	"	19	Up	eP	13 47 51
			M	Z 3.6 9	"	19	Up	i(P)	20 47 55.5
		Ki	iP	10 29 17.4 C			i	20 48 01.6	
			ipP	10 29 24.1				microns sec	
			iLgl	10 41 51			(P)	Z' 0.2 0.6	
				microns sec		Um	i(P)	20 47 12.2	
			pP	Z' 0.2 0.8			i	20 58 35	
			M	E 6.1 13	"	19	Up	i(P)	20 59 32.5 C
			M	N 2.4 8			iP	20 59 33.7	
			M	Z 4.3 12			iPP	21 02 03	
		Sk	iP	10 29 42.1			iS	21 08 24	
		Gb	iP	10 29 51.3				microns sec	
		Um	iP	10 29 13.6			P	Z' 0.5 1.0	
			ipP	10 29 19.5			S	N 0.6 7	
			iLgl	10 42 02			M	E 1.9 20	
		Ka	iP	10 29 33.3			M	N 7.2 22	
			ipP	10 29 38.8			M	Z 5.8 22	
		Kirghiz-Sinkiang.					D = 7350 km = 66°.		
		h = 25 km (Up,Ki,Um,Ka).				Ki	iP	20 58 40.1 C	
		Exceptionally well developed					i	20 59 08.4	
		higher-mode Rayleigh waves.					iS	21 06 39	
"	18	Ki	iP	14 38 50.6				microns sec	
		Um	iP	14 38 13.5 C			P	Z 0.7 9	
		Gb	iP	14 37 36.4			P	Z' 0.2 1.0	
		Turkey (h = 30 km).					S	E 1.0 10	
"	18	Um	iP	20 04 26.4			S	N 0.9 7	
							(cont.)		

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1965					1965							
Oct.	19	(cont.)			Oct.	21	(cont.)					
		Ki	microns sec				Ka	iP	00 07 23.7			
		M	E 5.2 18					i	00 07 32.9			
		M	N 3.3 19				Nicaragua (h = 70 km).					
		M	Z 7.6 20				Magn. = 6.0 (Up,Ki).					
			D = 6450 km = 58°.			"	21	Up	iP	02 15 29.1		
		Sk	iP	20 59 14.2 C				Ki	iP	02 15 06.2 C		
		Gb	iP	20 59 54.0 C				Um	iP	02 15 19.6		
			ipP	21 00 04.5				Ka	iP	02 15 37.1		
		Um	i(P)	20 59 04.8			Missouri, USA (h = 20 km).					
			iP	20 59 06.2 C			"	21	Up	iP	02 53 17.3 C	
			ipP	20 59 17.1				Ki	iP	02 53 27.1 C		
			iPa	21 03 08				Sk	iP	02 53 43.3 C		
			iS	21 07 30				Gb	iP	02 53 39.7		
		Ka	iP	20 59 57.5 C				Um	iP	02 53 15.9		
		Aleutian Islands.						Ka	iP	02 53 21.9		
		h = 40 km (Gb,Um).					Hindu Kush (h = 110 km).					
		Magn. = 6.0 (Up,Ki).					"	21	Up	iP	09 09 55.9	
		(P) at Up and Um is a very small phase, preceding P by about 1.3 sec, a foreshock?					Aleutian Islands (h = 30 km).					
"	20	Up	iP	02 57 48.1			"	21	Um	i(Sg)	15 04 34.4	
			ipP	02 58 00.8				"	21	Up	iP	16 04 34.9
		Philippine Islands.								ipP	16 04 39.1	
		h = 50 km (Up).							Ki	iP	16 04 19.0	
"	20	Up	iP	11 19 11.5				Sk	iP	16 04 48.4		
				microns sec					ipP	16 04 53.1		
			P	Z' 0.2 1.0				Gb	eP	16 04 54		
		Ki	iP	11 18 18.2				Um	iP	16 04 20.6		
				microns sec					ipP	16 04 24.7		
			P	Z' 0.1 1.2			Sinkiang.					
		Gb	iP	11 19 25.1			h = 15 km (Up,Sk,Um).					
		Um	iP	11 18 44.0			"	21	Um	iP	18 57 17.9	
		Ka	iP	11 19 33.2					i	18 57 23.8		
		Aleutian Islands (h = 30 km).					China.					
		Magn. = 5.8 (Up,Ki).					"	22	Up	eP	02 14 48	
"	20	Ki	iP	19 58 24.9				Ki	iP	02 14 16.7		
		Um	iP	19 58 47.0				Sk	eP	02 14 49		
		Okhotsk Sea (h = 430 km).						Um	iP	02 14 30.3		
"	21	Up	iP	00 07 23.5			Bonin Islands (h = 110 km).					
			ipP	00 10 45.6			"	22	Up	iPKP	13 35 39.6	
				microns sec			Kermadec Islands (h = 380 km).					
			P	Z' 0.1 1.0			"	23	Up	iP	06 11 39.4 C	
			M	E 1.9 30					i	06 11 48.4		
			M	N 1.4 23						microns sec		
			M	Z 2.1 25					P	Z' 0.2 0.7		
		Ki	iP	00 07 16.0				Ki	iP	06 10 45.6 C		
				microns sec						microns sec		
			P	Z' 0.2 1.5					P	Z' 0.2 0.8		
		Sk	iP	00 07 06.4			(cont.)					
		Gb	iP	00 07 20.4			(cont.)					
		Um	iP	00 07 22.5			(cont.)					
			ipP	00 10 44.0			(cont.)					
		(cont.)					(cont.)					

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1965					1965						
Oct.	23	(cont.)			Oct.	24	(cont.)				
		Sk	iP	06 11 15.2			Near lake Ladoga.				
		Gb	eP	06 11 49 C			Explosion?				
		Um	iP	06 11 12.8 C			Agreement between data not				
		Ka	iP	06 12 02.6			quite satisfactory.				
		Aleutian Islands (h = 15 km).									
		Magn. = 6.2 (Up,Ki).									
"	23	Up	iP	08 05 31.3	"	24	Up	eP	12 20 33		
		Aleutian Islands (h = 30 km).					Ki	iP	12 21 57.3		
							Gb	eP	12 19 35		
"	23	Up	iPKP	08 34 59.3				e	12 22 53		
		Ki	iPKP	08 34 59.0			Um	iP	12 21 16.4		
		Sk	iPKP2	08 35 23.8 D			Ka	iS	12 21 26.9		
		Um	iPKP	08 34 52.4				i	12 23 09.2		
		West of Macquarie Islands					Switzerland (h = 30 km).				
		(h = 30 km).									
"	23	Up	iPKP	08 53 51.2	"	24	Up	iP	14 45 18.5		
		West of Macquarie Islands						ipP	14 45 58.8		
		(h = 40 km).							microns sec		
"	23	Up	iP	14 41 56.1				M	E 0.5 19		
		Ki	iP	14 41 18.1				M	N 1.5 24		
		Japan (h = 80 km).					Ki	iP	14 45 02.2		
								iSKS	14 55 17		
									microns sec		
"	23	Up	iP	16 38 57.9 C				P	Z' 0.1 1.0		
		Washington, USA (h = 25 km).						M	E 0.7 19		
								M	N 0.8 20		
"	24	Up	iP	06 29 41.8			Sk	iP	14 45 19.3		
			iS	06 31 50.2			Gb	eP	14 45 42		
				D = 1300 km = 11 1/2°.			Um	iP	14 45 07.5		
		Ka	iP	06 29 21.8				iSKS	14 55 26		
			i	06 30 41.8				iS	14 55 54		
			iS	06 31 11.9			Ka	iP	14 45 28.5		
		Carpathians, near 49°N, 22°E.					Talaud Islands.				
		Origin time = 06 26 57.					h = 160 km (Up).				
		By combination with bulletin									
		data for 7 more stations.					"	24	Up	iP	16 46 04.8
"	24	Up	iPn	11 31 08.7				Sk	iP	16 46 44.2	
			iSn	11 32 20.3				Gb	eP	16 45 54	
			iS ^x	11 32 37.8				Um	iP	16 46 43.3	
			iLgl	11 32 51.8				Ka	iP	16 45 27.3	
		Ki	ePn	11 31 26			Ionian Sea (h = 30 km).				
			eSn	11 32 51	"	24	Ki	iP	17 51 49.4		
			iLgl	11 33 27.7			Gb	eP	17 52 58		
		Sk	iPn	11 31 39.0			Alaska (h = 90 km).				
			iLgl	11 34 01.8	"	24	Up	iP	18 25 46.9		
		Gb	iP	11 31 55.7					microns sec		
			eSn	11 33 45				M	E 0.8 20		
			eLgl	11 34 36				M	N 1.9 23		
		Um	iPn	11 30 56.1				M	Z 1.8 22		
			iLgl	11 32 13.2			Ki	iP	18 24 56.6		
		Ka	iPn	11 31 45.6					microns sec		
			iSn	11 33 25.9				M	E 1.1 22		
			eLgl	11 34 21				M	N 0.7 20		
								M	Z 1.9 24		
		(cont.)					(cont.)				

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1965

Oct. 30 Ki iPg 13 45 11.6
iSg 13 45 21.2
i 13 45 23.4
Sk iSg 13 47 36.5
Um iSg 13 46 47.8
Gällivare, North Sweden.
Probably mining blast.

" 31 Up iP 10 02 26.5

" 31 Ki iPn 13 57 14.6
iSn 13 57 59.9
iSg 13 58 18.1
D = 410 km = 3.7°
Probably northwest Russia.
Origin time = 13 56 15.
Explosion?

" 31 Up iP 16 21 30.1

" 31 Up iP 23 20 01.7
iPP 23 21 35.0
Ki iP 23 20 06.5
ipP 23 20 49.2
microns sec
P Z' 0.1 0.8
Sk iP 23 20 26.3
Gb iP 23 20 23.8
Um iP 23 19 57.7
i 23 20 03.1
Ka iP 23 20 08.0
Hindu Kush.
h = 210 km (Ki).

Markus Båth
May 11, 1966

SEISMOLOGICAL BULLETIN

UPPSALA, KIRUNA, SKALSTUGAN, GÖTEBORG,

UMEÅ and KARLSKRONA

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

NOVEMBER 1 - 30, 1965

1965					1965				
Nov.	1	Um	iP	17 01 36.0	Nov.	2	Up	iP	03 31 49.8
									microns sec
"	1	Up	iPKP	18 21 34.8 C				M	E 3.2 17
			i!	18 22 14.1			Ki	eP	03 33 04
				microns sec					microns sec
			PKP	Z' 0.1 0.6				M	E 3.9 15
		Ki	ePKP	18 21 16				M	N 2.1 15
			iSKP	18 24 03.9				M	Z 3.2 14
				microns sec			Sk	iP	03 32 34.4 C
			SKP	Z' 0.2 1.5			Um	iP	03 32 28.8
		Sk	iPKP	18 21 28.9				i	03 32 39.5
			iSKP	18 24 18.6					Aegean Sea (h = 10 km).
		Gb	iPKP	18 21 46		"	2	Up	eSn 13 00 45
			i!	18 22 25				iSg	13 01 17.0
		Um	iPKP	18 21 23.5					microns sec
			i	18 21 34.2				Sg	Z' 0.1 0.5
			iSKP	18 24 14.5			Ki	iPg	12 57 52.6
		Ka	iPKP	18 21 47.2				i	12 57 59.3
				South of Fiji Islands				iSg	12 58 19.5
				(h = 550 km).					microns sec
				The phase marked ! appears				Sg	Z' 0.5 0.5
				only at Up and Gb, is very				D = 220 km = 2.0°.	
				pronounced, but has not been			Sk	iPn	12 58 21.0
				identified.				iSn	12 59 07.4
"	2	Up	iPKP	01 07 39.9				iSg	12 59 18.8
		Ki	iPKP	01 07 19.6				D = 420 km = 3.8°.	
			iSKP	01 10 10.5			Um	iPn	12 58 23.3
				microns sec				iPg	12 58 31.1
			SKP	Z' 0.1 1.0				iSn	12 59 10.8
		Gb	iPKP	01 07 50				iSg	12 59 23.7
			iSKP	01 10 39				D = 440 km = 3.9°.	
		Um	iPKP	01 07 28.7					Nordlands Fylke, Norway,
			i	01 07 39.5					67.3°N, 15.6°E.
			iSKP	01 10 22.4					Origin time = 12 57 14.
				South of Fiji Islands					Solution checked by Norwegian
				(h = 520 km).					and Finnish readings.

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
Nov.	2	Ki	iP	16 00 26.7 C	Nov.	3	Sk	iP	07 13 27.6
			i	16 00 34.9				i	07 15 00.9
				microns sec					
			P	Z' 0.1 1.0	"	3	Sk	iP	07 24 48.2 C
				Sumatra (h = 10 km).					
"	2	Ki	iP	16 35 01.8	"	3	Ki	eP	07 58 28
				Eastern Siberia			Sk	iP	07 58 06.0
				(h = 30 km).			Um	eP	07 58 34
									North Atlantic Ocean
									(h = 30 km).
"	3	Up	iP	01 51 35.2 C	"	3	Sk	eP	08 02 28
			ipP	01 53 41.5			Um	iP	08 03 00.2
			iSKS	02 01 11					North Atlantic Ocean
			iS	02 02 05					(h = 30 km).
			iPKKP	02 08 09.5					
				microns sec					
			P	Z' 0.2 1.0	"	3	Ki	eP	08 39 15
			SKS	E 3.0 6			Sk	iP	08 38 45.7
			S	E 2.8 6			Um	iP	08 39 16.3
				(D = 10800 km = 97°).					North Atlantic Ocean
		Ki	iP	01 51 42.6					(h = 30 km).
			ipP	01 53 49.7					
			iPP	01 55 50	"	3	Up	iP	13 47 42.2
			i	01 56 20				i	13 47 48.3
			iSKS	02 01 23					microns sec
			iSP	02 03 51				P	Z' 0.1 0.5
			iPKKP	02 08 04.0	"	3	Up		---
			i	02 08 33.2					microns sec
				microns sec				M	E 1.6 21
			P	Z 1.6 11				M	N 1.9 23
			P	Z' 0.3 1.0				M	Z 2.6 20
			PP	Z 1.5 6			Ki		---
			SKS	E 5.5 9					microns sec
			PKKP	Z' 0.1 0.8				M	E 2.6 20
				(D = 10900 km = 98°).				M	N 1.1 21
		Sk	iP	01 51 26.1				M	Z 3.2 20
			ipP	01 53 33.1			Um	iSS	18 59 36
			iPKKP	02 08 11.0					Easter Island (h = 10 km).
			iP'P'	02 16 21.8					Magn. = 6.0 (Up,Ki).
		Gb	iP	01 51 20.3	"	3	Up	iP	20 21 01.7 C
			ipP	01 53 29.0					microns sec
			iPKKP	02 08 15.1				P	Z' 0.1 0.5
		Um	iP	01 51 42.0	"	4	Up	iP	14 25 26.9
			ipP	01 53 49.1	"	4	Ki	iP	15 52 15.6
			iSKS	02 01 18					Panay (h = 80 km).
			iS	02 02 15	"	4	Um	iPKP	19 19 43.6
			iSP	02 03 43				i	19 19 54.2
			isS	02 06 07	"	6	Um	iP	01 34 26.5
			iPKKP	02 08 05.0					South of Japan (h = 70 km).
		Ka	iP	01 51 27.2					
			ipP	01 53 34.5					
				Peru-Brazil.					
				h = 580 km (Up,Ki,Sk,Gb,Um,Ka).					
				Magn. = 6.6 (Up,Ki).					
"	3	Up	iP	06 57 55.6					

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1965				1965						
Nov.	6	Up Ki	iP iP	06 48 39.4 06 47 44.5	Nov.	8	Up Ki Um	iP iP iP	19 49 59.2 C 19 49 23.7 C 19 49 38.9	
				microns sec P Z' 0.2 1.5					South of Japan (h = 230 km).	
		Um	iP	06 48 12.6		"	8	Um	iP	21 31 06.5 D
				Alaska (h = 40 km).					i	21 31 12.5
"	6	Up	iPKP	08 08 15.3				Ka	iP	21 31 13.9
			ipPKP	08 09 29.8						West Pakistan (h = 50 km).
				microns sec pPKP Z' 0.1 1.2		"	9	Sk	iP	09 37 05.2
				Kermadec Islands. h = 300 km (Up).		"	9	Ki	iPKP	10 34 49.3
"	6	Up	iP	09 08 54.4					ipPKP	10 35 02.3
		Um	iP	09 08 31.5					i	10 35 12.1
				South of Japan (h = 15 km).				Sk	iPKP	10 35 04.6
"	6	Up	iP	16 14 56.4					ipPKP	10 35 17.6
				Bhutan (h = 30 km).				Um	iPKP	10 35 00.3
"	6	Up	iP	22 41 15.8					ipPKP	10 35 13.1
				Aleutian Islands (h = 40 km).					i	10 35 25.3
"	7	Ki	iP	18 13 58.2		"	9	Up	iP	11 49 06.9
		Sk	iP	18 14 24.2				Ki	eP	11 48 12
				Alma-Ata (h = 30 km).				Sk	eP	11 48 47
"	7	Up	iPKP	23 17 56.4				Gb	iP	11 49 24
		Gb	iPKP	23 18 09 C				Um	iP	11 48 39.8
				South of Fiji Islands (h = 510 km).					iS	11 57 11
"	7	Ki	iP	23 26 42.8						Aleutian Islands (h = 30 km).
		Um	iP	23 27 09.8 D		"	9	Ki	iP	15 20 04.3
				Unimak Island (h = 40 km).		"	9	Up	iP	15 38 57.9
"	8	Up	iP	02 05 11.1				Ki	eP	15 40 18
		Ki	iP	02 05 42.1				Sk	iP	15 39 23.9
		Sk	iP	02 05 44.4						Italy (h = 30 km).
		Gb	iP	02 05 21		"	10	Ki	iSn	05 37 06.3
		Um	iP	02 05 20.9					iSg	05 37 25.7
		Ka	iP	02 05 02.6						Northwest Russia? Explosion?
				Iran (h = 40 km).		"	10	Up	iP	09 09 45.7
"	8	Up	iP	03 04 59.4 D		"	10	Up	iP	10 11 29.9
		Um	iP	03 04 32.7				Ki	eP	10 11 50
				Aleutian Islands (h = 70 km).						Persian Gulf.
"	8	Ki	iP	15 13 50.7		"	10	Up	iP	11 11 47.6
		Sk	eP	15 14 02		"	10	Up	ePKP	13 19 13
		Gb	iP	15 15 17 C						South of Fiji Islands (h = 560 km).
			i	15 15 24		"	11	Gb	iPKP	01 35 18.2 C
		Um	iP	15 14 31.5						Fiji Islands (h = 600 km).
		Ka	iP	15 15 47.6						
				Jan Mayen (h = 30 km).						

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1965				1965			
Nov.	11	Ki	eP 02 31 07 Aleutian Islands (h = 100 km).	Nov.	12	Up	iP 14 34 35.3 microns sec P Z' 0.1 0.5
"	11	Up	--- microns sec M E 2.4 24 M N 2.0 24 M Z 3.0 23 Ki iPKP2 03 12 03.7 i 03 12 18.1 microns sec M E 2.9 21 M N 1.8 19 M Z 1.8 21 Southwest of Macquarie Islands (h = 30 km). Magn. = 6.1 (Up,Ki).	"	12	Up	iPKP 14 43 37.6 Sk iPKP 14 43 26.2 Um iPKP 14 43 17.8
"	11	Ki	eSKP 09 07 47 Fiji Islands (h = 350 km).	"	12	Up	iP 17 26 12.3 i 17 37 28 microns sec M E 1.4 19 M N 1.8 18 M Z 1.4 21 Ki iP 17 25 37.8 microns sec P Z 0.5 6 M E 3.3 21 M N 1.4 15 M Z 1.4 15 Sk iP 17 26 07.6 iPP 17 28 59.7 Um iP 17 25 51.5 South of Japan (h = 150 km).
"	11	Up	iP 10 20 30.7	"	12	Up	iP 18 04 20.3 iS 18 14 08 microns sec P E 0.9 6 P N 0.8 4 P Z 1.9 4 P Z' 0.2 0.7 S E 2.4 11 S N 2.8 9 M E 11 19 M N 21 17 M Z 7.9 19 D = 8650 km = 78°.
"	11	Ki	iP 18 59 39.5 Sk iP 19 00 21.2 Um iP 19 00 23.3 Svalbard region.	"	12	Ki	iP 18 03 46.5 i 18 03 49.6 iPP 18 06 27.2 eS 18 13 05 microns sec P E 1.5 7 P Z 3.8 6 P Z' 1.0 2.0 PP Z' 0.9 2.5 S E 4.1 9 S N 3.8 8 M E 19 16 M N 16 17 M Z 14 16 D = 8000 km = 72°.
"	11	Up	iPKP 23 09 34.7 Sk iPKP 23 09 26.5 i 23 09 41.9 Gb eFKP 23 09 44 i 23 09 54.2 Kermadec Islands (h = 50 km).	"	12	Up	eL 03 25 microns sec M E 1.1 20 M N 2.0 20 M Z 1.5 19 Ki eL 03 25 microns sec M E 1.1 22 M N 0.8 18 M Z 0.9 17 Easter Island (h = 30 km). Magn. = 5.9 (Up,Ki).
"	12	Ki	iP 01 11 20.1 Aleutian Islands (h = 30 km).	"	12	Sk	iP 18 04 16.8 i 18 04 32.8 ePP 18 07 16
"	12	Up	eL 03 25 microns sec M E 1.1 20 M N 2.0 20 M Z 1.5 19 Ki eL 03 25 microns sec M E 1.1 22 M N 0.8 18 M Z 0.9 17 Easter Island (h = 30 km). Magn. = 5.9 (Up,Ki).				
"	12	Sk	iP 07 21 36.9 Italy.				

(cont.)

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1965					1965					
Nov.	12	(cont.)			Nov.	13	(cont.)			
		Gb	iP	18 04 38.8			Ki	microns sec		
		Um	iP	18 04 00.0			P	Z' 1.4 1.0		
			i	18 04 30.8			pP	E 5.9 6		
			iS	18 13 26			pP	Z 8.4 5		
		Ka	iP	18 04 39.2			PP	E 11 8		
		South of Japan (h = 40 km).					PP	Z 8.6 8		
		Magn. = 6.6 (Up,Ki).					S	E 21 11		
"	12	Up	iP	19 03 06.4 D			S	N 4.7 8		
				microns sec			S	Z 9.1 7		
			P	Z' 0.1 0.5			M	E 100 16		
		Ki	iP	19 02 16.3			M	N 43 15		
				microns sec			M	Z 120 16		
			P	Z' 0.2 0.8			D = 4600 km = 41 1/2°.			
		Sk	iP	19 02 51.7			Sk	iP	04 42 09.5 C	
		Gb	iP	19 03 26.0				i	04 42 16.6	
		Um	iP	19 02 38.7				ipP	04 42 25.3	
		Okhotsk Sea (h = 470 km).					Gb	iP	04 42 22.1	
		Magn. = 5.6 (Up,Ki).						ipP	04 42 35.6	
								iPP	04 44 24.9	
"	13	Sk	iPKP	01 03 18.9			Um	iP	04 41 41.2 C	
		Um	iPKP	01 03 13.9				iPP	04 43 21	
			i	01 03 26.8				iPcP	04 43 39	
		Kermadec Islands (h = 40 km).						iScP	04 47 22	
"	13	Up	iP	04 41 55.4 C				iS	04 47 56	
			ipP	04 42 09			Ka	iP	04 42 10.8	
			iPP	04 43 43			Sinkiang.			
			iS	04 48 24			h = 70 km (Up,Ki,Sk,Gb).			
			iSa	04 51 07			Magn. = 7.0 (Up,Ki).			
			iSS	04 51 30			This earthquake has probably			
				microns sec			produced the strongest			
		P	E	2.5 3			higher-mode surface waves			
		P	N	0.6 3			ever recorded at our stations			
		P	Z	4.1 3			(especially well developed on			
		P	Z'	0.5 0.8			Ki Galitzin records).			
		PP	E	2.4 3		"	13	Up	iP	
		PP	N	1.1 3					06 22 54.5	
		S	E	19 11					microns sec	
		S	N	14 13				M	E 1.5 16	
		S	Z	7.4 8				M	N 1.5 19	
		M	E	110 16				M	Z 1.2 15	
		M	N	140 15			Ki	iP	06 23 21.0	
		M	Z	110 15					microns sec	
		D = 4850 km = 43 1/2°.						M	E 2.4 19	
		Ki	iP	04 41 39.4 C				M	N 2.3 16	
			ipP	04 41 55.6				M	Z 2.5 18	
			iPP	04 43 23			Sk	iP	06 23 23.2 C	
			iS	04 47 47			Gb	iP	06 23 09.2	
			iSa	04 50 30			Um	iP	06 22 59.6 C	
			iLi	04 53 39			West Pakistan (h = 20 km).			
				microns sec			Magn. = 5.3 (Up,Ki).			
		P	E	3.6 6			"	13	Up	
		P	N	0.4 4					iP	
		P	Z	5.6 4					10 54 19.1	
		(cont.)						Ki	iP	
									10 53 26.6 C	
								Sk	iP	
									10 53 53.6	
								Gb	iP	
									10 54 33.4	
		(cont.)						(cont.)		

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1965					1965					
Nov.	13	(cont.)			Nov.	14	(cont.)			
		Um	iP	10 53 54.3 C			Sk	i	08 23 54.8	
			i	10 54 18.2			Gb	iPn	08 21 10.9 C	
		Kodiak Island (h = 30 km).						iPg	08 21 18.1	
"	13	Ki	iP	14 21 09.8				iSg	08 21 39.1	
			i	14 21 41.8				D = 220 km = 2.0°.		
"	13	Up	iP	18 16 42.0			Um	eSn	08 24 03	
"	13	Up	iPKKP	18 29 07.3				iSg	08 24 58.9	
				microns sec			Ka	iPn	08 21 44.3	
		M	E	0.9 19				iSn	08 22 42.4	
		M	N	1.1 18				iSg	08 22 57.9	
		M	Z	1.6 17				D = 490 km = 4.4°.		
		Ki	iPKP	18 18 20.5 C			South coast of Norway,			
			ePKKP	18 28 48			58.3°N, 8.4°E.			
				microns sec			Origin time = 08 20 35.			
		M	E	0.8 18			Solution checked by Norwegian			
		M	Z	1.6 22			and Finnish readings.			
		Um	iPKP	18 18 17.9		"	14	Um	iP	09 50 34.4 C
			iPKKP	18 29 05						
		Argentina (h = 50 km).				"	14	Up	iPKP	11 50 47.5
"	14	Up	iP	06 05 40.6 C				i	11 50 56.4	
			ipP	06 05 52.7				Sk	iPKP	11 50 42.4 D
				microns sec				Um	iPKP	11 50 37.3
		P	Z'	0.1 0.8				South of Kermadec Islands.		
		Ki	iP	06 05 01.7		"	15	Up	iP	11 29 37.4 C
			ipP	06 05 13.5				ipP	11 29 45.2	
				microns sec				iPa	11 33 40	
		P	Z'	0.1 1.0				iS	11 38 24	
		Sk	iP	06 05 34.5 C					microns sec	
			ipP	06 05 47.9				P	Z	1.6 5
			iPP	06 08 13.8				P	Z'	0.3 1.0
		Gb	iP	06 06 00.7 C				S	E	3.6 13
			ipP	06 06 13.0				S	N	3.2 8
		Um	iP	06 05 18.6 C				M	E	7.2 22
			ipP	06 05 30.4				M	N	6.4 21
			i	06 06 42.8				M	Z	9.4 22
		Japan.						D = 7400 km = 66 1/2°.		
		h = 50 km (Up, Ki, Sk, Gb, Um).					Ki	iP	11 30 21.6 C	
		Magn. = 5.7 (Up, Ki).						ipP	11 30 27.7	
"	14	Up	iPn	08 21 55.9 D				e	11 39 38	
			iP ^x	08 22 03.4				iS	11 39 49	
			iSn	08 22 50.1					microns sec	
			iS ^x	08 23 04.4				P	E	0.5 7
			iSg	08 23 17.3				P	N	0.5 6
				microns sec				P	Z	1.4 6
			Pn	Z' 0.1 0.5				P	Z'	0.6 1.5
			Sn	Z' 0.3 0.5				S	E	3.0 10
			D = 560 km = 5.0°.					S	N	4.6 8
		Ki	e	08 26 12				M	E	8.7 15
			iSg	08 26 36.7				M	N	5.2 15
		Sk	e	08 22 56				M	Z	6.5 16
			iS ^x	08 23 23.6				D = 8150 km = 73 1/2°.		
			iSg	08 23 47.1			Sk	iP	11 29 47.1 C	
		(cont.)						ipP	11 29 54.1	
		(cont.)					(cont.)			

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1965				1965			
Nov.	16	(cont.)		Nov.	18	(cont.)	
		Ki	microns sec			Up	i 20 30 48.4
		P	Z' 0.2 1.0				microns sec
		M	E 1.2 18			Ki	SKP Z' 0.3 1.0
		M	N 0.6 15				e(PKP) 20 18 30
		M	Z 1.5 18				iPKP 20 18 40.4
		Sk	iP 17 17 22.2 D				ipPKP 20 20 35.8
		Gb	iP 17 17 40.9				iSKP 20 21 23.5
			i 17 18 24.3				iPKS 20 22 03
		Um	iP 17 17 03.8				iSKS 20 25 08
			i 17 17 14.5				eSKKP 20 31 08
			iS 17 26 21				microns sec
		Ka	iP 17 17 38.6				PKP Z' 0.1 1.0
		Ryukyu Islands (h = 80 km).					SKP Z 4.3 4
		Magn. = 6.2 (Up,Ki).					SKP Z' 3.2 2.5
							(D = 14450 km = 130°).
"	16	Up	iP 23 45 46.9			Sk	e(PKP) 20 18 40
			i 23 46 17.6				iPKP 20 18 44.2
		Ki	iP 23 44 57.4				iSKP 20 21 40.7
		Sk	eP 23 45 35				i 20 21 45.4
		Gb	iP 23 46 08.5			Gb	iPKP 20 18 55
		Um	iP 23 45 20.7				iSKP 20 21 59
		Kurile Islands (h = 100 km).				Um	e(PKP) 20 18 34
							iPKP 20 18 42.9
"	17	Um	iP 03 05 09.5				iPP 20 21 17.4
		Japan (h = 20 km).					iSKP 20 21 36.0
"	17	Up	iP 14 27 23.5 D				isPKS 20 24 40
"	17	Up	iP 16 11 10.2				iSKSP 20 30 42
"	17	Up	iP 16 52 30.7				iSKKP 20 31 01.4
		Um	iP 16 52 02.7				i 20 31 10.4
		Aleutian Islands				Ka	iPKP 20 18 55.0
		(h = 30 km).					iSKP 20 21 56.9
				"	18	Um	iP 22 00 53.6
"	17	Up	iP 21 00 26.0 C	"	18	Up	iP 22 08 39.6 C
"	17	Um	iP 22 00 00.9				microns sec
			i 22 00 18.0			P	Z' 0.8 1.0
		Central Asia.				M	E 2.5 19
"	18	Um	iP 05 38 30.4			M	N 4.1 20
"	18	Um	iP 09 00 16.5			M	Z 4.8 21
		Off coast of Jalisco,				Ki	i(P) 22 07 44.1
		Mexico (h = 30 km).					iP 22 07 46.0 C
"	18	Ki	iP 17 31 01.7				microns sec
		Um	iP 17 31 06.6			P	Z' 0.5 0.9
		Banda Sea (h = 210 km).				M	E 2.6 20
"	18	Up	iPKP 20 18 46.2			M	N 2.5 17
			ePP 20 21 31			M	Z 1.2 16
			iSKP 20 21 48.3			Sk	iP 22 08 22.5 C
			eSKKP 20 30 42			Gb	iP 22 09 00 C
		(cont.)				Um	i(P) 22 08 10.4
							iP 22 08 11.5 C
							iPa 22 11 53
						Ka	iP 22 09 03.7 C
						Kamchatka (h = 10 km).	
						(cont.)	

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Ka = Karlskrona

1965				1965					
Nov.	18	(cont.) Magn. = 6.6 (Up,Ki). (P) is a small but clear phase preceding the much greater P, at Ki and Um.		Nov.	19	Up	iP	15 22 49.3	
								microns sec	
							P	Z' 0.1 0.8	
						Ki	iP	15 21 56.5	
						Aleutian Islands (h = 30 km).			
"	18	Up	iP	22 19 41.0	"	19	Up	eP	22 43 14
			i	22 19 54.4				microns sec	
		Ki	iP	22 18 50.8			M	E 2.8 21	
		Sk	eP	22 19 18			M	N 3.9 21	
			i	22 19 30.3		Ki	iP	22 42 47.5	
		Gb	iP	22 20 08				microns sec	
		Um	iP	22 19 16.2			M	E 0.8 17	
			i	22 19 28.7			M	N 1.4 18	
		South of Alaska (h = 10 km).					M	Z 0.8 14	
		The phase appearing about 13 sec after P at Up, Sk, Um, is larger than P.				Um	iP	22 43 00.1	
							i	22 43 15.9	
						Formosa (h = 10 km).			
"	18	Um	iP	23 29 20.3	"	19	Up	iP	22 56 00.7
"	19	Sk	ePKP	01 34 05	"	20	Up	iP	09 04 06.8
		Kermadec Islands (h = 25 km).					i	09 04 15.2	
							iX	09 04 19.4	
"	19	Up	iP	07 25 16.1			iLgl	09 19 28	
				microns sec				microns sec	
			P	Z' 0.2 1.0			M	E 0.8 15	
		Ki	iP	07 24 25.1			M	N 1.3 5	
			i	07 24 29.1			M	Z 1.2 15	
				microns sec		Ki	iP	09 03 49.6 C	
			P	Z' 0.1 1.0			iX	09 04 02.8	
		Sk	iP	07 25 03.9			e	09 13 41	
		Gb	iP	07 25 35 D			eLi	09 16 09	
		Um	iP	07 24 50.5				microns sec	
		Kurile Islands (h = 15 km).					P	Z' 0.1 0.8	
		Magn. = 5.8 (Up,Ki).					M	E 0.8 13	
							M	N 0.7 10	
"	19	Up	---				M	Z 0.6 9	
				microns sec		Um	iP	09 03 50.7 C	
		M	E	1.4 18			iX	09 04 05.0	
		M	N	2.6 21			i	09 15 41	
		M	Z	2.9 22		Sinkiang (h = 30 km).			
		Ki	---			Well developed higher-mode surface waves. The phase X appearing about 13 sec after P has larger amplitudes at all three stations than P has.			
				microns sec					
		M	E	2.1 21					
		M	N	1.7 20					
		M	Z	3.2 20					
		Sk	iPKP	07 27 47.8					
		Um	iPKP	07 27 40.4	"	20	Up	---	
		Kermadec Islands (h = 30 km).						microns sec	
		Magn. = 6.1 (Up,Ki).					M	E 0.6 17	
							M	N 1.0 20	
"	19	Sk	iP	10 30 35.5		Ki	iP	15 19 23.7	
							i	15 19 25.8	
							iSKS	15 29 51	
						(cont.)			

Up = Uppsala, Ki = Kiruna. Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965

Nov. 20 (cont.)
Ki iSS 15 38 21
microns sec
P Z' 0.1 1.0
M E 0.8 19
M N 0.8 22
M Z 1.0 16
Sk iPP 15 24 22.8
Um iP 15 19 28.0
e 15 24 42
iSKS 15 29 55
Banda Sea (h = 130 km).

" 20 Ki iP 16 19 15.8
ipP 16 19 31.8
microns sec
P Z' 0.1 1.0
Sk iP 16 19 33.6
Sumatra.
h = 60 km (Ki).

" 21 Up iP 03 12 20.0
Ki iP 03 11 40.7
microns sec
M E 0.5 13
M N 0.4 13
Sk iP 03 12 19.9
Um iSS 03 22 24
Lake Baikal (h = 30 km).

" 21 Up iP 05 04 52.6 C
iPn 05 05 58.9
iPP 05 06 10.8
microns sec
P Z' 0.1 0.5
PP Z' 0.1 1.0
Ki iP 05 04 37.0 C
iPP 05 05 36.9
microns sec
P Z' 0.3 0.5
Sk iP 05 05 08.2 C
iPP 05 06 29.4
Gb iP 05 05 18
iPP 05 06 44
Um iP 05 04 37.4 C
iPP 05 05 38.6
Ka iP 05 05 08.7
Kazakh SSR.
Magn. = 6.1 (Up,Ki).
Underground explosion.

" 21 Up iP 10 45 53.5
i 10 46 00.1
i 10 49 07.7
i 10 49 28.9
iPKP 10 50 08.1
(cont.)

1965

Nov. 21 (cont.)
Up iPP 10 50 25
i 10 57 11
microns sec
P Z' 0.1 1.0
PKP Z' 0.2 1.3
M E 2.0 18
M N 6.0 24
M Z 3.2 20
(D = 11850 km = 106 1/2°).
Ki iP 10 45 39.4 C
iPKP 10 49 51.6
i 10 50 41
iSKS 10 56 05
iS 10 57 06
microns sec
P Z' 0.4 1.0
PKP Z' 0.3 1.3
SKS E 2.0 6
S E 2.1 11
S N 1.4 12
M E 1.9 17
M N 2.9 24
M Z 3.6 18
(D = 11450 km = 103°).

Sk iP 10 46 00.0
iPKP 10 50 19.0
iPP 10 50 34.6
Gb iP 10 46 10
iPP 10 50 47
Um iP 10 45 43.8 C
ePKP 10 49 50
iSKS 10 56 10
i(S) 10 57 03
iSP 10 59 05
iPS 10 59 28

Banda Sea (h = 90 km).
Magn. = 7.0 (Ki).

" 21 Sk iP 22 17 28.5
Gb iP 22 17 21
North Atlantic Ocean
(h = 30 km).

" 21 Sk iP 22 47 46.6
Windward Islands (h = 130 km)

" 21 Up iP 22 55 55.3
i 22 56 13.3

" 22 Ki iP 00 13 37.1 C
iS 00 15 24.7
i 00 15 41.0
D = 1090 km = 9.8°.
(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Nov.	23	Up	iP	16 44	41.0	C	Nov. 26 (cont.)
		Ki	iP	16 44	36.0		Sk eP 00 29 04
		Um	iP	16 44	35.8		Um iP 00 28 45.1
				Java (h = 100 km).			ipP 00 28 59.0
"	24	Ki	iP	08 31	14.8	C	South of Japan.
				Alaska (h = 130 km).			h = 60 km (Up, Um).
"	24	Up	eSn	10 19	40		" 26 Up iSg 06 00 59.4
			iSg	10 19	55.5		Ki iPn 05 56 32.5
			i	10 20	00.6		iSn 05 57 27.9
		Um	eSg	10 22	11		iSg 05 57 45.4
				South Baltic.			D = 510 km = 4.6°.
				Underwater explosion?			Sk eSn 05 59 21
"	24	Up	iP	13 02	30.3		iSg 06 00 29.2
"	24	Up	iP	15 19	29.3		Um iPn 05 56 58.7
		Ki	iP	15 19	32.3	C	iSn 05 58 12.6
		Um	iP	15 19	27.0		iSg 05 58 52.2
				Sumatra (h = 30 km).			D = 710 km = 6.4°.
"	25	Up	iP	02 11	58.1		Northwest Russia,
		Ki	iP	02 12	55.1		67.9°N, 32.6°E.
				Turkey (h = 40 km).			Origin time = 05 55 20.
"	25	Up	iP	06 32	07.8		Explosion?
"	25	Up	iP	06 40	53.0		" 26 Ki eP 06 49 06
			i	06 41	05.0		Sinkiang (h = 30 km).
"	25	Up	iP	11 54	45.9		" 26 Up iP 07 05 29.1 D
"	25	Up	eSKP	12 05	01		microns sec
				New Hebrides Islands			P Z' 0.1 0.6
				(h = 180 km).			Ki eP 07 05 09
"	25	Ki	iP	12 38	07.5		Um iP 07 05 16.4 D
				Aleutian Islands			Szechwan (h = 30 km).
				(h = 40 km).			" 26 Sk iP 09 09 23.1
"	25	Up	iP	15 05	56.5		Aegean Sea.
"	25	Up	iPKP	16 55	50.6		" 26 Um eP 14 46 44
		Sk	iPKP	16 55	43.7		" 27 Up iP 03 16 14.4
		Um	iPKP	16 55	39.6		microns sec
				Kermadec Islands			M E 3.1 20
				(h = 30 km).			M N 1.7 17
"	25	Um	iPKP	22 53	16.4		Ki iP 03 15 39.4
				New Ireland (h = 460 km).			iS 03 25 03
"	26	Up	iP	00 29	06.5		microns sec
			ipP	00 29	22.6		S E 0.6 10
		Ki	iP	00 28	30.4		M E 3.3 20
				(cont.)			M N 3.3 19
							M Z 1.6 16
							D = 8000 km = 72°.
"	26	Up	iP	00 29	06.5		Sk eP 03 16 13
							Um iP 03 15 54.7
							i 03 16 00.4
				South of Japan (h = 60 km).			" 27 Up iP 08 11 43.1

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965					
Nov.	27	Up	iP	08 54 06.4 C	Nov.	28	Up	iP	05 31 18.5 C	
				microns sec				ipP	05 31 47	
			P	Z' 0.1 0.5				iS	05 35 26	
		Ki	iP	08 53 30.5 C				iPcS	05 38 26.1	
			iPP	08 56 05.3				iScS	05 42 11.3	
				microns sec					microns sec	
			P	Z' 0.1 0.8				P	E 0.9 3	
		Sk	iP	08 54 01.8 C				P	N 2.9 3	
			iPP	08 56 47.4				P	Z 3.7 3	
		Um	iP	08 53 45.8 C				P	Z' 0.7 0.5	
		South of Japan (h = 70 km).						S	E 2.2 7	
		Magn. = 6.1 (Up,Ki).						S	N 5.7 4	
								M	E 9.0 19	
"	27	Up	iP	11 08 15.2				M	N 11 18	
		Ki	eP	11 09 18				M	Z 11 18	
			i	11 09 45.2				D = 2650 km = 24°.		
		South coast of Turkey					Ki	iP	05 32 25.1 C	
		(h = 40 km).						iPP	05 33 13	
								iS	05 37 29	
"	27	Up	iP	12 05 29.4				i	05 38 19	
			i	12 05 33.4				iPcS	05 38 49.2	
			i	12 06 08.7				iX	05 39 26.4	
									microns sec	
"	27	Up		---				P	Z 1.2 6	
				microns sec				P	Z' 1.3 0.5	
		M	E	1.4 24				S	N 1.7 9	
		M	N	1.2 20				M	E 6.0 16	
		M	Z	1.5 19				M	N 2.2 10	
		Ki	iPKP	12 20 29.9				M	Z 2.0 9	
			e	12 31 11				D = 3450 km = 31°.		
				microns sec			Sk	iP	05 31 58.1 C	
		M	E	1.1 20				iPcS	05 38 38.0	
		M	N	0.8 19				iX	05 39 19.5	
		M	Z	1.3 18			Gb	iP	05 31 12 C	
		Solomon Islands						iPcS	05 38 24	
		(h = 50 km).					Um	iP	05 31 49.5 C	
								iPP	05 32 19.4	
"	28	Up		---				i	05 35 36	
				microns sec				iPcS	05 38 36.4	
		M	E	9.4 22				iX	05 39 10.5	
		M	N	8.1 23				Ka	iP	
		M	Z	12 22				iS	05 30 47.6 C	
		Ki	iPKP	04 15 59.7				iPcS	05 34 40.9	
			iPKS	04 19 31					05 38 18.5	
				microns sec				Dodecanese Islands.		
		PKP	Z'	0.4 2.0				h = 140 km (Up).		
		PKS	E	0.4 11				Magn. = 6.5 (Up,Ki).		
		M	E	3.7 18				Exceptionally strong PcS-		
		M	N	1.8 19				phases are recorded on Z'.		
		M	Z	5.1 19			"	28	Up	
		Um	iPKS	04 19 18					iPKP	
			iSS	04 35 48					13 11 03.0	
		Chile (h = 30 km).								microns sec
		Magn. = 6.5 (Up,Ki).							PKP	Z' 0.1 1.0
							Sk	iPKP	13 10 55.9	
							Gb	iPKP	13 11 12.3	
							(cont.)			

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965

Nov. 28 (cont.)
Gb i 13 11 21.6
Um iPKP 13 10 51.3 C
Kermadec Islands (h = 40 km).

" 28 Up iP 21 44 47.2
Ki iP 21 44 46.3 C
i 21 44 58.2
microns sec
P Z' 0.2 1.0
Sk iP 21 45 00.0
Um iP 21 44 43.8 C
Sumatra (h = 90 km).

" 29 Up iP 09 10 47.9
microns sec
P Z' 0.1 0.7
Ki iP 09 10 01.8
microns sec
P Z' 0.1 1.0
Sk eP 09 10 38
Um iP 09 10 22.4 C
Kurile Islands (h = 150 km).
Magn. = 5.7 (Up,Ki).

" 29 Up iP 14 29 37.6

" 30 Sk eP 09 01 20
North Atlantic Ocean
(h = 30 km).

Markus Båth
June 10, 1966

Seismological Institute
Uppsala

S E I S M O L O G I C A L B U L L E T I N

U P P S A L A , K I R U N A , S K A L S T U G A N , G Ö T E B O R G ,
U M E Å and K A R L S K R O N A

Uppsala	(Up):	59°51.5'N,	17°37.6'E;	h = 14 m
Kiruna	(Ki):	67°50.4'N,	20°25.0'E;	h = 390 m
Skalstugan	(Sk):	63°34.8'N,	12°16.8'E;	h = 580 m
Göteborg	(Gb):	57°41.9'N,	11°58.7'E;	h = 66 m
Umeå	(Um):	63°48.9'N,	20°14.2'E;	h = 16 m
Karlskrona	(Ka):	56°09.9'N,	15°35.5'E;	h = 11 m

D E C E M B E R 1 - 31, 1965

1965					1965				
Dec.	1	Up	iPKP	05 18 50.5 D	Dec.	2	(cont.)		
				Kermadec Islands			Ki	iP	06 08 46.1
				(h = 110 km).			Sk	iP	06 09 18.0
							Um	iP	06 09 12.9
"	1	Ki	iP	07 36 23.7			Aleutian Islands (h = 15 km).		
				Aleutian Islands					
				(h = 30 km).	"	2	Up	iS	06 55 19
"	1	Up	iP	10 37 05.8					microns sec
		Ki	iP	10 38 14.5			S	N	0.8 7
		Sk	iP	10 37 33.8			M	E	0.6 17
		Um	iP	10 37 44.2			M	N	0.9 15
				Algeria.			M	Z	0.9 12
				Underground explosion.			Turkey (h = 40 km).		
"	1	Um	iP	12 50 10.8 C	"	2	Ka	iPg	08 30 16.7
				Japan (h = 130 km).				iSg	08 30 38.0
"	1	Ki	iP	12 54 13.2	"	2	Ka	iPg	08 46 35.1
"	1	Up	eP	14 31 30				iSg	08 46 55.9
				New Guinea (h = 30 km).	"	2	Ka	iPg	09 06 15.0
"	2	Ki	iP	02 07 28.1				iSg	09 06 35.9
			iT	02 12 43.2			This and the preceding two		
			i	02 13 30.3			events are probably underwater		
		Sk	eP	02 08 12			explosions in the South Baltic.		
			eS	02 10 02			There are more similar events		
		Um	iP	02 08 19.2			the same day, not reported		
				Norwegian Sea			here.		
				(h = 30 km).	"	2	Um	iP	13 20 39.5
"	2	Up	iP	02 56 34.2	"	2	Up	iSg	13 51 25.2
			i	02 56 43.1			Gb	iPg	13 49 30.3
"	2	Up	iP	06 09 40.3				iSg	13 49 35.5
				microns sec			Ka	iSg	13 50 52.4
				Z' 0.1 1.0			West coast of Sweden.		
				(cont.)			Explosion?		

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965					
Dec.	3	Up	iP	03 17 53.3	Dec.	3	(cont.)		
		Um	iP	03 17 27.3 C			Ka	iP	21 25 16.2
		Aleutian Islands						ipP	21 25 26.5
		(h = 30 km).					Hindu Kush.		
"	3	Ki	iP	07 18 16.8			h = 45 km (Up,Ki,Sk,Gb,Um,Ka).		
		Sk	iP	07 18 31.5			Magn. = 6.0 (Up).		
		Um	iP	07 18 14.3			The amplitude on Z' of pP is		
		Sumatra (h = 20 km).					6-7 times the amplitude of P.		
"	3	Sk	iSg	10 07 40.9			Interpretation in terms of a		
"	3	Up	iP	15 24 50.6 C			multiple shock is excluded by		
				microns sec			the fact that PP does not show		
			P	Z' 0.1 0.5	"	4	Up	iP	02 22 56.1 D
		Ki	iP	15 24 16.1 C				i	02 23 00.3
		Sk	iP	15 24 24.4 C					microns sec
		Um	iP	15 24 35.7 C				P	Z' 0.2 0.8
		Nevada.					Ki	iP	02 22 03.9
		Origin time = 15 11 00.						ipP	02 22 17.6
		Probably underground explosion.							microns sec
"	3	Up	iPKP	18 26 30.4				P	Z' 0.2 0.7
			i	18 26 34.7			Sk	iP	02 22 34.1 D
		Sk	iPKP	18 26 24.7			Gb	iP	02 23 11.1 D
		Um	iPKP	18 26 18.8				ipP	02 23 25.9
		Kermadec Islands					Um	iP	02 22 29.6
		(h = 30 km).					Ka	eP	02 23 18
"	3	Up	iP	21 25 12.6 C				ipP	02 23 33.5
			ipP	21 25 21.2			Aleutian Islands.		
			iPP	21 26 52.3			h = 60 km (Ki,Gb,Ka).		
				microns sec			Magn. = 6.2 (Up,Ki).		
			P	Z' 0.1 0.6	"	4	Um	iP	10 39 30.6
			pP	Z' 0.6 1.0	"	4	Sk	e(P)	10 41 59
			PP	Z' 0.2 1.0	"	4	Up	e(P)	10 54 58
		M	E	1.4 15				e	10 56 59
		M	N	1.7 14	"	4	Up	iP	11 59 38.6
		M	Z	2.4 15	"	4	Up	iP	16 45 32.7
		Ki	eP	21 25 23					microns sec
			i	21 25 30.0				M	N 0.7 12
			ipP	21 25 33.1				M	Z 1.2 15
				microns sec			Ki	iP	16 46 38.8
			pP	Z' 0.3 1.1					microns sec
			M	E 1.3 13				M	E 1.2 18
			M	N 0.8 12				M	N 1.1 14
			M	Z 1.3 12				M	Z 1.0 14
		Sk	iP	21 25 39.2			Sk	iP	16 46 10.9
			ipP	21 25 49.3			Um	iP	16 46 04.5
			iPP	21 27 23.9			Ka	iP	16 44 59.6
		Gb	iP	21 25 33.7			Crete (h = 20 km).		
			ipP	21 25 43.6					
			iPP	21 27 20.8					
		Um	iP	21 25 11.6	"	5	Up	iP	03 56 13.4
			ipP	21 25 21.8			(cont.)		
			i	21 26 23.5					
		(cont.)							

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965				1965					
Dec.	6	(cont.)		Dec.	8	Um	eP	16	47 21
		Ki	---						
			microns sec		"	8	Up	iPKP	18 25 02.7 C
		M	E 2.4 19					i	18 25 16.6
		M	N 2.0 22						microns sec
		M	Z 2.3 19					PKP	Z' 0.1 0.8
		Um	e(S) 19 06 21				Ki	iPKP	18 24 43.6 C
			iSS 19 12 00					i	18 25 05.9
			Off coast of Jalisco,					i	18 25 32.9
			Mexico (h = 40 km).						microns sec
			Magn. = 5.8 (Up,Ki).					PKP	Z' 0.4 0.9
"	6	Up	iP 22 00 42.2				Sk	i(PKP)	18 24 52.4
		Ki	iP 21 59 49.5					iPKP	18 24 59.4
		Sk	iP 22 00 17.5				Gb	iPKP	18 25 31.6
		Um	iP 22 00 17.7				Um	i(PKP)	18 24 48.8
			Kodiak Island (h = 25 km).					iPKP	18 24 54.3
							Ka	iPKP	18 25 31.3
"	7	Up	iP 00 36 51.1					i(pPKP)	18 26 02.8
		Ki	iP 00 36 58.8				New Zealand		(h = 170 km).
		Um	iP 00 36 46.9		"	8	Um	iP	18 34 33.5
			Hindu Kush (h = 230 km).		"	9	Up	eP	06 20 34 C
"	7	Up	i(P) 03 00 35.8					iPP	06 23 58
"	7	Um	iPKP 08 46 42.4 D					i	06 25 11
			New Zealand (h = 140 km).					iS	06 31 13
"	7	Up	---						microns sec
			microns sec					P	Z 3.3 15
		M	E 0.6 15					PP	E 0.8 4
		M	N 1.1 19					PP	N 0.5 4
		Ki	iP 14 58 21.6					S	E 3.6 16
			microns sec					S	N 2.7 15
		M	E 0.9 12					M	E 10 22
		M	N 1.1 14					M	N 6.9 19
		Sk	iP 14 58 42.0					M	Z 17 23
		Um	iP 14 58 13.5						D = 9700 km = 87 1/2°.
			Tadzhik-Sinkiang				Ki	iP	06 20 18.6 C
			(h = 30 km).					iPP	06 23 33.9
"	7	Up	eP 17 01 12					iS	06 30 46
								iScS	06 30 57
"	7	Up	iPKP 22 37 41.4						microns sec
			microns sec					P	E 1.0 12
		M	E 0.7 18					P	Z 3.5 10
		M	N 1.4 18					P	Z' 1.5 2.5
		Ki	iPKP 22 37 27.3					PP	E 1.9 14
		Sk	iPKP 22 37 42.0					PP	Z 2.9 13
		Um	iPKP 22 37 35.8					PP	Z' 1.0 2.5
			New Guinea (h = 110 km).					M	E 16 22
								M	N 7.6 22
"	8	Up	i(P) 10 16 31.8					M	Z 23 22
		Gb	i(P) 10 16 41.4						D = 9400 km = 84 1/2°.
"	8	Gb	iP 12 19 46.7				Sk	iP	06 20 16.0 C
								ipP	06 20 28.9
							Gb	iP	06 20 28.1 C
								i	06 22 07.5
							Um	iP	06 20 28.6 C
								ipP	06 20 41.8

(cont.)

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
 Ka = Karlskrona

1965					1965				
Dec.	9	(cont.)			Dec.	10	(cont.)		
		Um	iPP	06 23 52.0			Ki	iPKP	22 12 01.1
			i	06 30 14					microns sec
		Ka	iP	06 20 36.8 C				M	E 2.2 24
		Mexico,						M	N 1.0 22
		h = 50 km (Sk,Um).						M	Z 2.2 2.3
		Magn. = 6.7 (Up,Ki).					Sk	iPKP	22 12 11.6
		The records have throughout					Um	iPKP	22 12 07.5
		a consistently long-period					Santa Cruz Islands		
		character, as is frequently					(h = 60 km).		
		found for Mexican earthquakes.							
"	9	Um	eP	12 33 18	"	11	Up	iP	19 17 31.4 D
							Ki	iP	19 17 38.6
							Um	iP	19 17 29.1
							Hindu Kush (h = 240 km).		
"	9	Ki	iPKP	13 30 50.7 C					
			iSKP	13 33 14.8					
				microns sec					
			PKP	Z' 0.1 1.3			Up	iPKP	22 59 38.2
			SKP	Z' 0.2 1.3				i	22 59 48.7
		Sk	iPKP	13 31 00.9			Ki	iPKP	22 59 17.1
			iSKP	13 33 32.1			Sk	iPKP	22 59 33.4
		Um	iPKP	13 30 56.8			Um	iPKP	22 59 27.3
			iSKP	13 33 26.8			South of Kermadec Islands		
		Fiji Islands (h = 650 km).					(h = 30 km).		
"	9	Um	iPKP	13 43 41.8	"	12	Up	iP	00 58 59.0
		Fiji Islands (h = 650 km).					Ki	iP	00 58 05.8
							Aleutian Islands		
							(h = 50 km).		
"	9	Up	iSg	14 01 32.7	"	12	Ki	iP	03 38 51.3
		Gb	iPg	13 59 37.5					
			iSg	13 59 43.1					
		Ka	eSg	14 00 59	"	12	Up	iPKP	07 40 33.0
		West coast of Sweden.						i	07 40 39.9
		Explosion?					Gb	iPKP	07 40 41.5
		Compare Dec. 2.					Kermadec Islands		
							(h = 10 km).		
"	9	Up	iP	20 36 04.9 C	"	12	Um	iP	09 34 20.6
			ipP	20 36 21.0					
				microns sec					
			P	Z' 0.3 0.9	"	12	Up	iP	10 34 35.4 C
		Ki	iP	20 35 57.8 C			Ki	eP	10 34 42
			ipP	20 36 14.7			Sk	iP	10 35 17.4
		Sk	iP	20 36 21.0 C			Um	iP	10 34 32.7
		Gb	iP	20 36 25.8			Ka	iP	10 34 39.3
		Um	iP	20 35 56.5 C				i	10 35 06.4
			ipP	20 36 11.0			Hindu Kush (h = 80 km).		
		Ka	iP	20 36 13.8 C					
		India-China,			"	12	Up	iP	13 45 26.5
		h = 60 km (Up,Ki,Um).					Ki	iP	13 44 33.1 C
								ipP	13 44 46.2
"	10	Up	---	---			Sk	iP	13 45 06.7
				microns sec			Um	iP	13 44 59.0 C
			M	E 1.7 22			Aleutian Islands.		
			M	N 2.3 22			h = 50 km (Ki).		
			M	Z 2.9 22	"	12	Gb	iPKP	16 59 49.7
		(cont.)					Tonga Islands (h = 30 km).		

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1965					1965				
Dec.	12	Up	iP	19 34 56.2 C	Dec.	13	(cont.)		
			iPcP	19 35 26.3			Up	microns sec	
				microns sec			M	N 9.1 18	
			P	Z' 0.1 0.5			M	Z 7.5 18	
		Ki	iP	19 34 07.2				D = 7600 km = 68 1/2°.	
				microns sec		Ki	iP	11 02 23.0 C	
			P	Z' 0.1 1.0			ipP	11 02 33.4	
		Sk	iP	19 34 43.6 C			eS	11 10 30	
		Gb	iP	19 35 17.0 C			ePS	11 10 53	
		Um	iP	19 34 28.9			iScS	11 12 16	
			iPcP	19 35 09.4				microns sec	
		Ka	iP	19 35 18.3			P	Z 0.8 7	
		Okhotsk Sea (h = 440 km).					P	Z' 0.2 1.2	
		Magn. = 5.6 (Up,Ki).					S	N 0.5 12	
"	13	Gb	iPKP	03 32 43.8			M	E 4.7 19	
		Um	iSKP	03 35 13.5			M	N 7.3 21	
		South of Fiji Islands					M	Z 8.1 18	
		(h = 510 km).						D = 6800 km = 61°.	
"	13	Up	iP	05 09 24.9		Sk	iP	11 02 58.8 C	
		Ki	iP	05 08 31.4			iPP	11 05 23.7	
		Sk	iP	05 09 05.1		Gb	iP	11 03 30.9 C	
		Um	iP	05 08 56.8			ipP	11 03 43.1	
		Aleutian Islands				Um	iP	11 02 44.2 C	
		(h = 30 km).					ipP	11 02 55.6	
"	13	Up	iP	05 14 20.4			iPP	11 05 01	
		Ki	iP	05 14 59.7			iPa	11 06 57	
			iPP	05 16 40.8			iS	11 11 23	
		Um	iP	05 14 34.8		Ka	iP	11 03 31.9 C	
		Iran (h = 30 km).					ipP	11 03 43.0	
"	13	Up	iP	05 56 16.6 C	"	13	Up	iP	14 57 12.0
			i	05 56 29.5				iS	15 06 10
				microns sec					microns sec
			M	E 1.0 20			M	E 2.5 19	
			M	N 1.5 19			M	N 4.7 18	
			M	Z 1.5 19			M	Z 3.4 18	
		Ki	iP	05 55 29.7 C				D = 7600 km = 68 1/2°.	
				microns sec		Ki	iP	14 56 25.4	
			M	E 1.0 16				microns sec	
			M	N 0.6 15			M	E 3.2 22	
			M	Z 1.1 17			M	N 3.7 21	
		Gb	iP	05 56 36.8			M	Z 3.1 18	
		Um	iP	05 55 50.7 C		Sk	eP	14 57 00	
		Ka	iP	05 56 38.9		Gb	iP	14 57 32.3	
		Kurile Islands (h = 30 km).				Um	iP	14 56 46.4	
"	13	Up	iP	11 03 09.8 C			iS	15 05 33	
			ipP	11 03 23.4		Ka	iP	14 57 34.0	
			i	11 08 34.1		Kurile Islands			
			eS	11 12 20		(h = 30 km).			
				microns sec		Magn. = 5.8 (Up,Ki).			
			P	Z' 0.8 2.0	"	13	Up	iPKP	15 27 00.3
			M	E 5.4 19			Ki	iPKP	15 27 15.5
		(cont.)						i	15 27 45.8
							(cont.)		

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1965				1965			
Dec.		(cont.)		Dec.		(cont.)	
	13	Ki	microns sec		14	Um	iP 00 14 43.2 C
		PKP	Z' 0.2 1.5			Japan (h = 360 km).	
		Sk	iPKP 15 27 05.2		"	14	Ki iP 05 00 43.9
		Um	iPKP 15 27 07.8			14	Um iP 05 00 51.6
		South Sandwich Islands (h = 160 km).			"	14	Ki iPKP 05 52 58.1
"	13	Ka	eP 16 46 44			14	South Sandwich Islands (h = 110 km).
"	13	Um	iP 16 49 40.0 D		"	14	Up i(Lgl) 08 19 54.8
"	13	Sk	iPKP 17 08 12.9			14	Sk eLgl 08 21 08
		Um	iPKP 17 08 08.0				Gb iPg 08 17 53.4
		i	17 09 19.8				iSg 08 18 10.6
		New Hebrides Islands (h = 640 km).					D = 160 km = 1.4 ^o .
"	13	Up	eP 17 48 38			Um	iLgl 08 22 02.8
		Sk	iP 17 49 22.3			Ka	iPg 08 18 17.0
		Um	iP 17 49 20.2				iSg 08 18 53.6
		Ka	iP 17 47 59.7				D = 310 km = 2.8 ^o .
		Albania (h = 30 km).				Jutland, Denmark, 56.5 ^o N, 10.6 ^o E. Origin time = 08 17 26. Explosion?	
"	13	Um	iP 18 04 07.4	"	14	Sk	iP 08 30 32.3
"	13	Up	iP 22 48 35.3	"	14	Um	iP 14 33 16.1
		Ki	iP 22 47 52.7				iPP 14 36 36.1
		Um	iP 22 48 13.5 C			Guatemala (h = 280 km).	
		Kurile Islands (h = 30 km).		"	14	Ki	iP 17 39 09.9
"	13	Ki	iP 22 56 35.9 C			Um	iP 17 39 22.1 C
		Um	iP 22 56 57.5			Gulf of California (h = 30 km).	
		Kurile Islands (h = 30 km).		"	14	Ki	iP 18 03 31.3
"	13	Up	iP 23 04 18.4 C			Um	iP 18 04 00.5
			microns sec			Alaska (h = 110 km).	
		M	E 1.0 17	"	14	Sk	iP 20 14 17.9
		M	N 1.7 21			Um	iP 20 14 06.5 C
		M	Z 1.7 18			Ka	iP 20 14 59.6
		Ki	iP 23 03 32.4			Kamchatka (h = 50 km).	
			microns sec	"	14	Up	iP 20 27 44.7
		M	E 1.4 22	"	15	Um	iP 02 37 28.0
		M	N 1.3 20			Atlantic Ocean (h = 30 km).	
		M	Z 1.6 16	"	15	Up	iP 04 54 14.2
		Sk	eP 23 04 08			i	04 54 26.2
		Um	iP 23 03 53.2			iPP	04 54 37.8
		Kurile Islands (h = 30 km).					microns sec
		Magn. = 5.5 (Up,Ki).				Ki	pP Z' 0.2 0.7
"	14	Up	iP 00 15 03.3 C			Ki	iP 04 54 09.2
		Ki	iP 00 14 28.2 C			(cont.)	
		Sk	iP 00 14 59.5			(cont.)	
		(cont.)				(cont.)	

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1965				1965			
Dec.	15	(cont.)		Dec.	15	(cont.)	
		Ki	i 04 54 21.4			Um	iP 21 03 02.3
			ipP 04 54 32.1				i 21 03 31.0
		Sk	iP 04 54 29.9				eS 21 07 51
			ipP 04 54 53.2			Caucasus.	
		Gb	iP 04 54 57.3		"	15	Up eP 23 18 14 C
		Um	iP 04 54 07.3 C				iX 23 18 22
			ipP 04 54 30.0				iS 23 28 54
		Ka	iP 04 54 21.8 C				microns sec
			ipP 04 54 45.9				P Z' 0.6 2.0
		Burma.					S E 1.1 6
		h = 90 km (Up,Ki,Sk,Um,Ka).					S N 4.1 9
"	15	Up	iP 10 10 07.3				M E 7.7 21
"	15	Um	iP 10 31 07.1				M N 11 24
		Kurile Islands					M Z 10 21
		(h = 30 km).					D = 9900 km = 89°.
"	15	Ki	iP 10 32 32.7			Ki	iP 23 18 13.8 C
			microns sec				i 23 18 47.9
			M N 0.7 21				iY 23 21 36.6
			M Z 0.9 17				eSKS 23 28 41
		Um	iP 10 33 04.4				iS 23 28 52
		Kurile Islands					microns sec
		(h = 70 km).					P E 1.1 5
							P Z 2.0 5
							P Z' 1.0 2.0
"	15	Gb	iS 12 10 52.6				SKS E 2.6 11
		Ka	i(P) 12 09 31.4				S N 4.3 9
		Belgium (h = 10 km).					M E 6.3 22
							M N 4.4 18
"	15	Up	eL 13 30				M Z 7.1 18
			microns sec				D = 9900 km = 89°.
			M N 1.8 22			Sk	iP 23 17 59.7
			M Z 1.9 20			Gb	iP 23 18 00.2
		Ki	eL 13 30				iX 23 18 08.9
			microns sec			Um	iP 23 18 14.0
			M E 0.8 21				i 23 20 53
			M N 0.7 21				iY 23 21 37
			M Z 1.6 20				iPP 23 21 51.9
		South Pacific Ocean					i 23 28 19
		(h = 30 km).					iS 23 28 51
"	15	Up	iP 17 43 16.5 C			Ka	iP 23 18 13.7 C
		Um	iP 17 42 57.4				iX 23 18 22.8
		South of Japan					South of Panama
		(h = 440 km)					(h = 15 km).
"	15	Um	iPKP2 19 41 02.9				Magn. = 6.6 (Up,Ki).
		South Pacific Ocean		"	15	Up	iP 23 48 32.1
		(h = 30 km).		"	16	Up	iP 01 49 49.6
"	15	Up	iP 21 02 59.6	"	16	Up	iP 02 18 59.7
		Ki	e 21 08 57	"	16	Up	i(P) 18 18 53.7
			iSn 21 09 16.9	"	16	Up	iP 19 26 48.9
		Sk	iSn 21 09 36.6				(cont.)
		(cont.)					

Up = Uppsala, Ki = Kiruna, Sk = Skalistugan, Gb = Göteborg, Um = Umeå
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1965				1965			
Dec.	16	(cont.)		Dec.	18	(cont.)	
		Up	microns sec			Gb	iP 08 42 08.8
						Um	iP 08 41 22.4
		Ki	P Z' 0.2 1.3			Ka	iP 08 42 10.3 D
		Sk	iP 19 26 14.8			Kurile Islands	
		Gb	eP 19 26 23			(h = 30 km).	
		Um	iP 19 26 50.4				
			iP 19 26 34.3				
		Nevada.		"	18	Up	iP 09 26 13.4
		Origin time = 19 15 00.					i 09 27 16.2
		Probably underground explosion.				Ki	iP 09 27 29.7
		P(Z') has distinctly longer periods in this case than in the corresponding event on Dec. 3 (1.3 sec now compared to 0.5 sec on Dec. 3).				Sk	iP 09 26 56.0
						Um	iP 09 26 58.3
						Italy.	
"	16	Um	iP 20 29 07.4	"	18	Up	iP 13 31 25.8
		Aleutian Islands (h = 25 km).					ipP 13 31 39.4
						Ki	iP 13 30 38.4
							microns sec
						M	E 1.5 20
						M	N 1.1 18
						M	Z 1.4 17
"	16	Up	i(PKP) 23 24 48.9			Um	iP 13 31 00.8
			iSKP 23 27 43.2				ipP 13 31 15.4
			microns sec			Kurile Islands.	
			SKP Z' 0.1 1.0			h = 60 km (Up,Um).	
		Ki	iPKP 23 24 45.0	"	18	Ki	iP 18 17 57.7
			iSKP 23 27 17.0			Aleutian Islands	
		Sk	i(PKP) 23 24 44.8			(h = 30 km).	
			i 23 27 23.1				
			iSKP 23 27 34.6	"	18	Ki	iPn 18 45 18.2 C
		Gb	iPKP 23 24 58.0				iSn 18 46 06.9
			iSKP 23 27 52.4				iSg 18 46 22.3
		Um	i(PKP) 23 24 43.6				D = 420 km = 3.8°.
			iPKP 23 24 51.9			Um	iSg 18 47 52.3
			iSKP 23 27 30.5			Probably northwest Russia.	
		Ka	iPKP 23 25 00.0			Origin time = 18 44 18.	
		Fiji Islands (h = 570 km).				Explosion?	
"	17	Up	iP 13 08 21.3	"	19	Up	iP 05 19 50.9
"	17	Up	iP 20 37 43.7	"	19	Um	iP 05 26 47.7 C
"	17	Up	iPKP 21 38 24.3			Ka	iP 05 28 06.5
			microns sec			Greenland Sea (h = 30 km).	
			PKP Z' 0.1 0.6	"	19	Ki	iSn 07 56 16.2
		Sk	iPKP 21 38 16.9				iSg 07 56 31.1
		Um	iPKP 21 38 13.7			Um	iSg 07 57 26.6
		Kermadec Islands (h = 160 km).				Northwest Russia?	
						Explosion?	
"	18	Up	iP 08 41 47.8	"	19	Um	iP 14 36 35.3 D
			microns sec			Hindu Kush.	
			P Z' 0.1 0.5	"	19	Ki	iP 19 28 43.7
		Ki	iP 08 41 00.8			Um	iP 19 28 54.7
			iPcP 08 41 40.4			(cont.)	
		Sk	iP 08 41 35.9			(cont.)	
		(cont.)				(cont.)	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
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1965				1965			
Dec.	22	(cont.)		Dec.	23	Up	iP 15 33 10.3 C
		Um	iS 19 59 06				iS 15 36 31.4
			iScS 20 00 54				i 15 36 39.0
			iP'P' 20 20 48.8				microns sec
			i 20 20 59.4				P Z' 0.1 0.7
			i 20 21 13.0			Ki	iP 15 34 26.0 C
		Ka	iP 19 52 01.2 C				microns sec
			ipP 19 52 14.2				P Z' 0.1 1.0
			iS 20 00 42.7			Sk	iP 15 33 46.4 C
			i 20 00 53.2			Gb	iP 15 32 49.1 C
			iP'P' 20 20 39.7			Um	iP 15 33 50.2 C
			i 20 20 56.6				i 15 38 43.8
		Kodiak Island.				Ka	iP 15 32 30.5 C
		h = 50 km (Up,Ki,Sk,Gb,Um,Ka).				Italy (h = 310 km).	
		Magn. = 6.8 (Up,Ki).				Magn. = 5.2 (Up,Ki).	
"	22	Up	iP 20 23 48.4	"	23	Up	iP 20 34 42.8 D
"	22	Ki	iP 23 35 12.7	"	23	Up	iP 20 57 33.7 C
		Um	iP 23 35 38.7				iPcP 20 58 23.0
		Kamchatka (h = 30 km).					microns sec
"	23	Up	iP 02 10 01.9				P Z' 0.3 1.0
		Ki	iP 02 09 08.2				M N 1.7 17
		Um	iP 02 09 33.9 C				M Z 2.0 16
		Aleutian Islands				Ki	iP 20 56 39.3 C
		(h = 60 km).					e(S) 21 04 08
							microns sec
"	23	Um	iP 02 24 31.4				P Z 0.8 7
			iPP 02 26 58.3				P Z' 0.9 1.0
		Alaska (h = 120 km).					(S) N 0.4 9
"	23	Um	iP 02 57 33.0 C				M E 0.8 14
		Mexico (h = 130 km).					M N 1.1 16
"	23	Ki	ePn 05 40 36				M Z 1.4 15
			iSn 05 41 22.4			Sk	iP 20 57 04.1 C
			iSg 05 41 50.2			Gb	iP 20 57 44.1 C
		D = 470 km = 4.2°.				Um	iP 20 57 07.3 C
		Um	i 05 42 07.5				iS 21 04 48
			iSg 05 42 57.8			Ka	iP 20 57 56.7 C
		Northwest Russia.					ipP 20 58 05.3
		Origin time = 05 39 30.				Alaska.	
		Explosion?				h = 35 km (Ka).	
"	23	Up	iP 06 08 12.1	"	24	Um	iP 02 45 04.4 D
		Um	iP 06 07 42.7	"	24	Up	eP 03 54 14
		Kamchatka (h = 50 km).					i 03 54 21.8
"	23	Up	eP 11 17 40	"	24	Up	iP 04 27 36.7 C
		Ki	iP 11 18 14.3				ipP 04 27 48.7
			microns sec				microns sec
			P Z' 0.1 1.2				P Z' 0.1 0.6
		Sk	eP 11 18 16			Ki	iP 04 26 44.2
		Um	iP 11 17 54.8				microns sec
			iPP 11 19 32.9				P Z' 0.1 0.8
		Iran (h = 40 km).				Gb	iP 04 27 57.0
						(cont.)	

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1965				1965			
Dec.	24	(cont.)		Dec.	25	(cont.)	
		Um	iP 04 27 08.8 C			Ki	microns sec
			ipP 04 27 19.2			M	E 1.3 13
		Kamchatka.				Sk	iP 12 20 52.6
		h = 45 km (Up,Um).				Um	iP 12 20 48.7
		Magn. = 5.8 (Up,Ki).				Aegean Sea (h = 10 km).	
"	24	Up	iP 05 06 52.9	"	25	Up	iP 14 15 53.2
		Ki	iP 05 06 37.4				ipP 14 16 01.2
		Sk	iP 05 07 08.1			Ki	iP 14 15 24.0 C
		Um	iP 05 06 38.2			Sk	iP 14 15 53.3
		Kazakh SSR.				Gb	iP 14 16 13.8
		Underground explosion.				Um	iP 14 15 35.6 C
							ipP 14 15 43.5
"	24	Ki	iP 07 46 24.4			Ka	iP 14 16 01.3
			microns sec			Ryukyu Islands.	
		P	Z' 0.1 1.1			h = 30 km (Up,Um).	
"	24	Gb	iPKP 08 27 52.2 D	"	25	Up	eP 15 15 34
		South of Fiji Islands				Um	iP 15 16 20.9
		(h = 70 km).				Greece (h = 5 km).	
"	25	Ki	iP 01 20 09.9	"	25	Up	iP 17 50 57.1 C
		Um	iP 01 20 15.4				i 17 51 02.6
		Mindanao (h = 70 km).				Ki	iP 17 51 04.2 C
						Um	iP 17 50 54.4
"	25	Up	i(PKP) 03 15 59.4				i 17 50 59.7
			iPKP 03 16 04.7			Hindu Kush (h = 160 km).	
			iSKP 03 18 46.7				
			i 03 18 54.7	"	25	Up	iPKP 19 38 49.2
			iPP 03 19 18.2				iSKP 19 41 33.0
		Ki	e(PKP) 03 15 50			Ki	iPKP 19 38 42.2
			iPKP 03 15 55.4				iSKP 19 41 07.7
			iSKP 03 18 20.2			microns sec	
		Sk	e(PKP) 03 15 53			SKP	Z' 0.1 1.3
			i 03 15 57.1			Sk	i(PKP) 19 38 41.7
			iPKP 03 16 05.0				iSKP 19 41 21.5
			iSKP 03 18 38.0			Gb	ePKP 19 38 56
		Gb	iPKP 03 16 09.3			Um	i(PKP) 19 38 38.4
		Um	i(PKP) 03 15 45.9				iPKP 19 38 45.9
			iPKP 03 16 01.6				i 19 38 49.4
			eSKP 03 18 25				iSKP 19 41 20.5
			i 03 18 33.2			Fiji Islands (h = 620 km).	
			iSS 03 35 24	"	25	Um	iP 23 15 41.5
		Fiji Islands (h = 630 km).		"	26	Ki	iP 02 09 04.6
"	25	Um	iP 03 28 13.0			Um	iP 02 09 32.3
"	25	Um	iP 10 50 26.6	"	26	Up	iPKP 04 11 43.7
"	25	Gb	iPKP 12 02 37.6				eSKS 04 18 22
		Um	iSKP 12 05 07.4			microns sec	
		South of Fiji Islands				SKS	N 0.5 5
		(h = 550 km).				M	E 1.0 20
"	25	Ki	eP 12 21 22			M	N 1.6 20
		(cont.)				M	Z 1.4 21
						(cont.)	

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965				1965			
Dec.	26	(cont.)		Dec.	28	Up	iP 20 44 38.5 C
		Ki	iPKP 04 11 35.0				ipP 20 44 51.0
			iSKS 04 18 05				iS 20 54 57
			microns sec				microns sec
			M E 1.1 22				P Z' 0.4 0.5
			M N 0.8 20				S E 1.7 5
			M Z 1.4 19				S N 1.6 3
		Sk	ePKP 04 11 44				M E 2.5 25
		Um	iPKP 04 11 37.9				M N 2.5 24
			i 04 11 44.0				M Z 2.6 26
			iPP 04 12 18				D = 9050 km =
			iSKS 04 18 12				81 1/2°
		New Britain (h = 130 km).				Ki	iP 20 44 05.1 C
							ipP 20 44 19.8
							microns sec
							P Z' 1.0 2.0
							M E 2.6 20
							M N 1.8 17
							M Z 3.1 18
						Gb	iP 20 44 56.3 C
							ipP 20 45 06.5
						Um	iP 20 44 19.5 C
							i 20 44 45.2
							iS 20 54 08
						Ka	iP 20 44 54.7 C
							ipP 20 45 05.9
							Bonin Islands.
							h = 50 km (Up,Ki,Gb,Ka).
							Magn. = 6.6 (Up,Ki).
						"	30 Up iP 02 17 19.4 C
							i 02 17 26.8
							iPcP 02 17 48.9
							microns sec
							M N 2.0 20
						Ki	iP 02 16 24.5 C
							i 02 16 42.1
							eP'P' 02 46 09
							microns sec
							M E 3.5 23
							M N 1.1 16
						Gb	iP 02 17 33.0
						Um	iP 02 16 51.9
							iP'P' 02 45 57.7
							Unimak Island (h = 30 km).
						"	30 Up iP 16 44 02.1 C
							Ki iP 16 43 06.8
							microns sec
							P Z' 0.1 1.0
						Gb	iP 16 44 14.5
						Um	iP 16 43 35.4 C
							Kodiak Island (h = 30 km).
						"	30 Up iP 17 07 54.1 C
							(cont.)
Dec.	26	(cont.)		Dec.	28	Up	iP 20 44 38.5 C
		Ki	iPKP 04 11 35.0				ipP 20 44 51.0
			iSKS 04 18 05				iS 20 54 57
			microns sec				microns sec
			M E 1.1 22				P Z' 0.4 0.5
			M N 0.8 20				S E 1.7 5
			M Z 1.4 19				S N 1.6 3
		Sk	ePKP 04 11 44				M E 2.5 25
		Um	iPKP 04 11 37.9				M N 2.5 24
			i 04 11 44.0				M Z 2.6 26
			iPP 04 12 18				D = 9050 km =
			iSKS 04 18 12				81 1/2°
		New Britain (h = 130 km).				Ki	iP 20 44 05.1 C
							ipP 20 44 19.8
							microns sec
							P Z' 1.0 2.0
							M E 2.6 20
							M N 1.8 17
							M Z 3.1 18
						Gb	iP 20 44 56.3 C
							ipP 20 45 06.5
						Um	iP 20 44 19.5 C
							i 20 44 45.2
							iS 20 54 08
						Ka	iP 20 44 54.7 C
							ipP 20 45 05.9
							Bonin Islands.
							h = 50 km (Up,Ki,Gb,Ka).
							Magn. = 6.6 (Up,Ki).
						"	30 Up iP 02 17 19.4 C
							i 02 17 26.8
							iPcP 02 17 48.9
							microns sec
							M N 2.0 20
						Ki	iP 02 16 24.5 C
							i 02 16 42.1
							eP'P' 02 46 09
							microns sec
							M E 3.5 23
							M N 1.1 16
						Gb	iP 02 17 33.0
						Um	iP 02 16 51.9
							iP'P' 02 45 57.7
							Unimak Island (h = 30 km).
						"	30 Up iP 16 44 02.1 C
							Ki iP 16 43 06.8
							microns sec
							P Z' 0.1 1.0
						Gb	iP 16 44 14.5
						Um	iP 16 43 35.4 C
							Kodiak Island (h = 30 km).
						"	30 Up iP 17 07 54.1 C
							(cont.)
Dec.	26	(cont.)		Dec.	28	Up	iP 20 44 38.5 C
		Ki	iPKP 04 11 35.0				ipP 20 44 51.0
			iSKS 04 18 05				iS 20 54 57
			microns sec				microns sec
			M E 1.1 22				P Z' 0.4 0.5
			M N 0.8 20				S E 1.7 5
			M Z 1.4 19				S N 1.6 3
		Sk	ePKP 04 11 44				M E 2.5 25
		Um	iPKP 04 11 37.9				M N 2.5 24
			i 04 11 44.0				M Z 2.6 26
			iPP 04 12 18				D = 9050 km =
			iSKS 04 18 12				81 1/2°
		New Britain (h = 130 km).				Ki	iP 20 44 05.1 C
							ipP 20 44 19.8
							microns sec
							P Z' 1.0 2.0
							M E 2.6 20
							M N 1.8 17
							M Z 3.1 18
						Gb	iP 20 44 56.3 C
							ipP 20 45 06.5
						Um	iP 20 44 19.5 C
							i 20 44 45.2
							iS 20 54 08
						Ka	iP 20 44 54.7 C
							ipP 20 45 05.9
							Bonin Islands.
							h = 50 km (Up,Ki,Gb,Ka).
							Magn. = 6.6 (Up,Ki).
						"	30 Up iP 02 17 19.4 C
							i 02 17 26.8
							iPcP 02 17 48.9
							microns sec
							M N 2.0 20
						Ki	iP 02 16 24.5 C
							i 02 16 42.1
							eP'P' 02 46 09
							microns sec
							M E 3.5 23
							M N 1.1 16
						Gb	iP 02 17 33.0
						Um	iP 02 16 51.9
							iP'P' 02 45 57.7
							Unimak Island (h = 30 km).
						"	30 Up iP 16 44 02.1 C
							Ki iP 16 43 06.8
							microns sec
							P Z' 0.1 1.0
						Gb	iP 16 44 14.5
						Um	iP 16 43 35.4 C
							Kodiak Island (h = 30 km).
						"	30 Up iP 17 07 54.1 C
							(cont.)
Dec.	26	(cont.)		Dec.	28	Up	iP 20 44 38.5 C
		Ki	iPKP 04 11 35.0				ipP 20 44 51.0
			iSKS 04 18 05				iS 20 54 57
			microns sec				microns sec
			M E 1.1 22				P Z' 0.4 0.5
			M N 0.8 20				S E 1.7 5
			M Z 1.4 19				S N 1.6 3
		Sk	ePKP 04 11 44				M E 2.5 25
		Um	iPKP 04 11 37.9				M N 2.5 24
			i 04 11 44.0				M Z 2.6 26
			iPP 04 12 18				D = 9050 km =
			iSKS 04 18 12				81 1/2°
		New Britain (h = 130 km).				Ki	iP 20 44 05.1 C
							ipP 20 44 19.8
							microns sec
							P Z' 1.0 2.0
							M E 2.6 20
							M N 1.8 17
							M Z 3.1 18
						Gb	iP 20 44 56.3 C
							ipP 20 45 06.5
						Um	iP 20 44 19.5 C
							i 20 44 45.2
							iS 20 54 08
						Ka	iP 20 44 54.7 C
							ipP 20 45 05.9
							Bonin Islands.
							h = 50 km (Up,Ki,Gb,Ka).
							Magn. = 6.6 (Up,Ki).
						"	30 Up iP 02 17 19.4 C
							i 02 17 26.8
							iPcP 02 17 48.9
							microns sec
							M N 2.0 20
						Ki	iP 02 16 24.5 C
							i 02 16 42.1
							eP'P' 02 46 09
							microns sec
							M E 3.5 23
							M N 1.1

Up = Uppsala, Ki = Kiruna, Sk = Skalstugan, Gb = Göteborg, Um = Umeå
Ka = Karlskrona

1965					1965				
Dec.	30	Up		microns sec	Dec.	31	(cont.)		
			P	Z' 0.1 0.6			Um	iSn	18 51 23.4
		Ki	iP	17 07 08.2 C				iSg	18 51 44.6
				microns sec			Northwest Russia.		
			P	Z' 0.1 0.9			Origin time = 18 48 30.		
		Um	iP	17 07 29.2 C			Explosion?		
		Kurile Islands							
		(h = 70 km).				"	31	Um	iPP 20 02 07.9 C
		Magn. = 5.8 (Up,Ki).						Timor (h = 30 km).	
"	30	Ki	iPn	17 11 53.8	"	31	Ki	iP	21 12 04.5
			iSn	17 12 42.7			Um	iP	21 12 08.7
			iSg	17 12 58.3			Halmahera (h = 100 km).		
			D = 390 km = 3.5°						
		Um	iSg	17 14 27.0					
		Northwest Russia.							
		Origin time = 17 11 00.							
		Explosion?							
"	30	Up	iP	20 34 32.0					
"	30	Up	iP	20 47 08.6					
"	31	Up	iP	02 40 28.3					
		Um	iP	02 40 24.4					
		Sumatra (h = 30 km).							
"	31	Ki	eP	09 00 17					
			eT	09 05 36					
		Um	iP	09 01 05.4 C					
		Norwegian Sea (h = 30 km).							
"	31	Up	i(PKP)	09 44 34.4					
		Ki	iPKP	09 44 05.2					
		Um	iPKP	09 44 14.0					
			i	09 44 32.5					
			i	09 44 43.4					
		South of Kermadec Islands							
		(h = 220 km).							
"	31	Um	iPKP	10 07 58.8					
		New Hebrides Islands							
		(h = 50 km).							
"	31	Up	iPKP	11 01 06.6					
			i	11 01 10.8					
		Gb	iPKP	11 01 20.7					
			i	11 01 27.5					
		South of Fiji Islands							
		(h = 160 km).							
"	31	Ki	ePn	18 49 32					
			eSn	18 50 30					
			eSg	18 50 50					
			D = 460 km = 4.1°						
		(cont.)							

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June 16, 1966