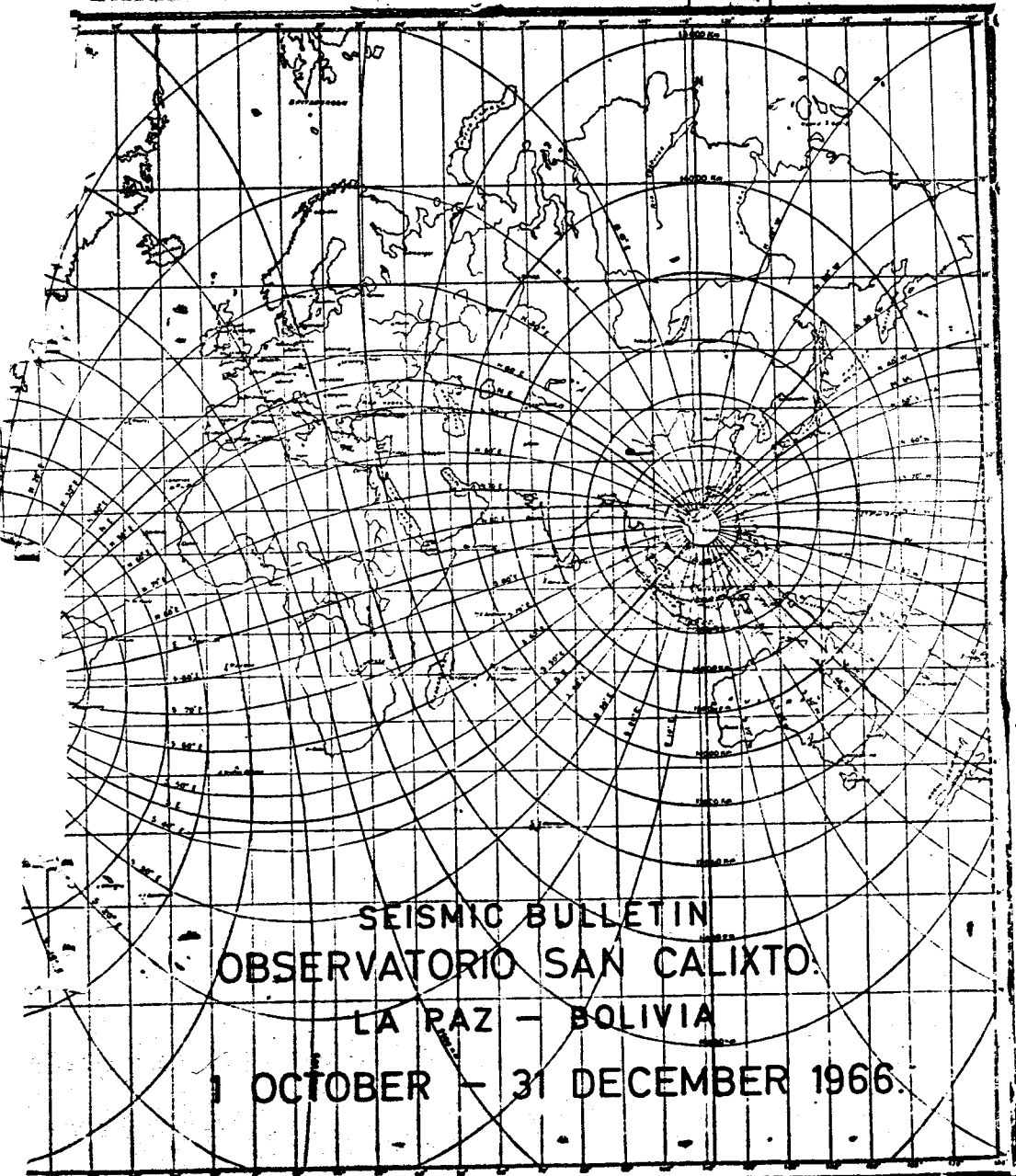


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PARA LA PAZ









OBSERVATORIO

SAN CALIXTO

LA PAZ BOLIVIA

SEISMOLOGICAL BULLETIN

1 October - 31 December

1966

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BOLIVIA, South America.



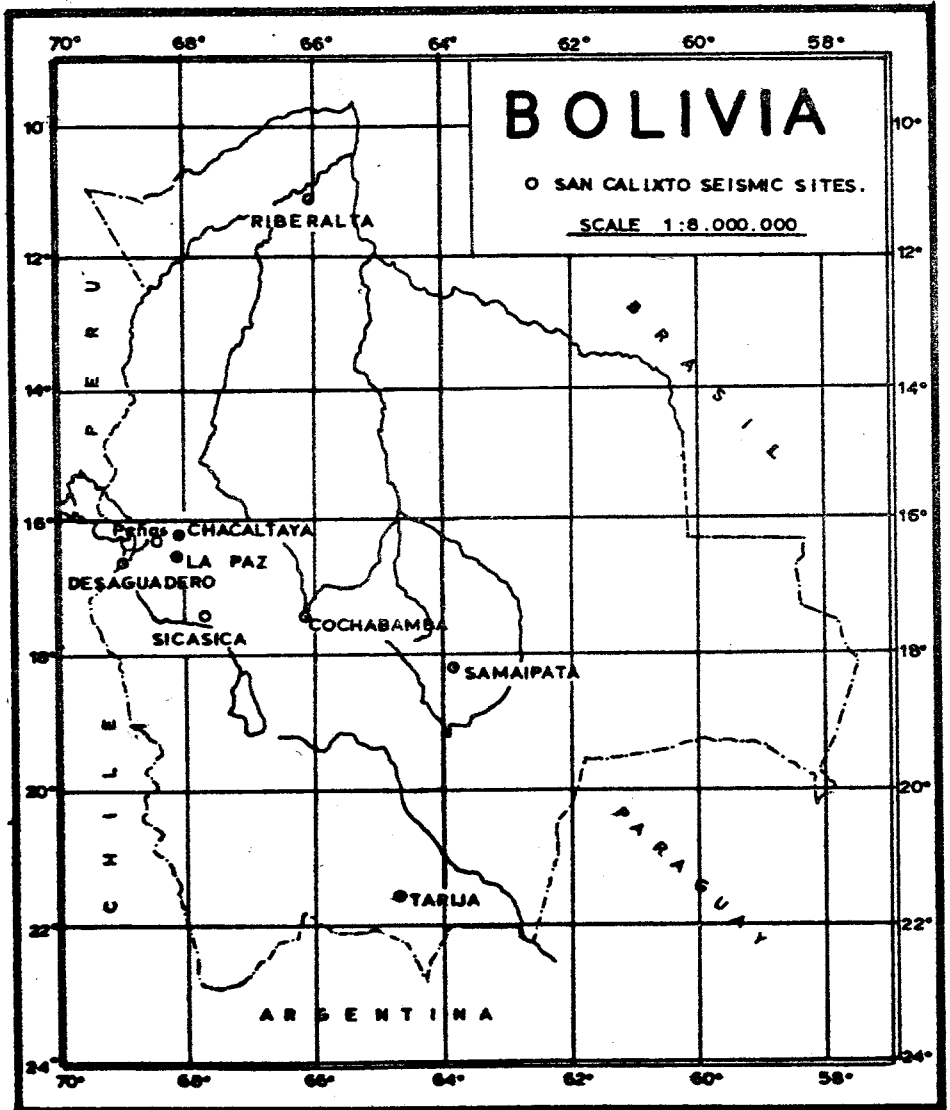
STATIONS OF THE "SAN CALIXTO OBSERVATORIO" NETWORK

This Bulletin contains seismological information obtained at the following stations of Bolivia:

LOCATION	CODE	LATITUDE	LONGITUDE	ALTITUDE (Mts.)	INSTRUMENTS	MAGNIFICATION
Potos	PMS	16°16' 02"S	68°29' 24"W	3986	Seismic array of seven short-period vertical Johnson-Matheson, Tom 1.25 sec Tm=337 sec (Fig. 3 and 4) SP Hor. Benioff, Tom=1. sec, Tqm=.2 sec. LP, three components Sprengnether, Tom= 20 sec., Tq= 30 sec. (Fig. 2) SP vertical Benioff, To = 1. sec. Tqm=.75 sec SP horizontal Benioff, Tom 1. sec. Tqm=.75 sec LP, three components Sprengnether, Tom= 15 sec., Tq= 100 sec. Wilson-Lamson, SP vertical, Tom=1.2 sec Tq=1. sec.	400,000 at 1 cps 500,000 at 1 cps 50,000 at 25 sec 50,000 at 1 cps 50,000 at 1 cps 1,500 at 30 sec.
La Paz (MNSB)	LPM	16°31'57.6"S	68°05'54.1"W	3292	LP, three components, Galitsin-Wilip Tom= 12 sec., Tq= 12.6 sec. Manka, NS, Tom 14 sec., PM, Tom 12 sec. San Calixto Pendulum, NS, SW, Tom=2.4 sec. SP vertical Wilson-Lamson Tom 3. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 3. sec.	1,000 at 12 sec. 180 and 300 700
La Paz (Colenio)	LPI	16°29'43"S	68°07'57.7"W	3658	LP, three components, Galitsin-Wilip Tom= 12 sec., Tq= 12.6 sec. Manka, NS, Tom 14 sec., PM, Tom 12 sec. San Calixto Pendulum, NS, SW, Tom=2.4 sec. SP vertical Wilson-Lamson Tom 3. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 3. sec.	1,000 at 12 sec. 180 and 300 700
Cochabamba	CCB	17°24' S	66°07' W	2500	LP, three components, Galitsin-Wilip Tom= 12 sec., Tq= 12.6 sec. Manka, NS, Tom 14 sec., PM, Tom 12 sec. San Calixto Pendulum, NS, SW, Tom=2.4 sec. SP vertical Wilson-Lamson Tom 3. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 3. sec.	1,000 at 12 sec. 180 and 300 700
Desaguadero	DBG	16°33'58"S	69°01'30"W	3810	LP, three components, Galitsin-Wilip Tom= 12 sec., Tq= 12.6 sec. Manka, NS, Tom 14 sec., PM, Tom 12 sec. San Calixto Pendulum, NS, SW, Tom=2.4 sec. SP vertical Wilson-Lamson Tom 3. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 3. sec.	1,000 at 12 sec. 180 and 300 700
Santa Cruz	SCS	17°17'05"S	67°48'55"W	3900	LP, three components, Galitsin-Wilip Tom= 12 sec., Tq= 12.6 sec. Manka, NS, Tom 14 sec., PM, Tom 12 sec. San Calixto Pendulum, NS, SW, Tom=2.4 sec. SP vertical Wilson-Lamson Tom 3. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 3. sec.	1,000 at 12 sec. 180 and 300 700
Tarija	TRJ	21°30'47"S	64°46'34"W	2100	LP, three components, Galitsin-Wilip Tom= 12 sec., Tq= 12.6 sec. Manka, NS, Tom 14 sec., PM, Tom 12 sec. San Calixto Pendulum, NS, SW, Tom=2.4 sec. SP vertical Wilson-Lamson Tom 3. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 1. sec. SP vertical Wilson-Lamson Tom 3. sec.	1,000 at 12 sec. 180 and 300 700







**Fig.1. Location of Bolivian network of seismic stations.**



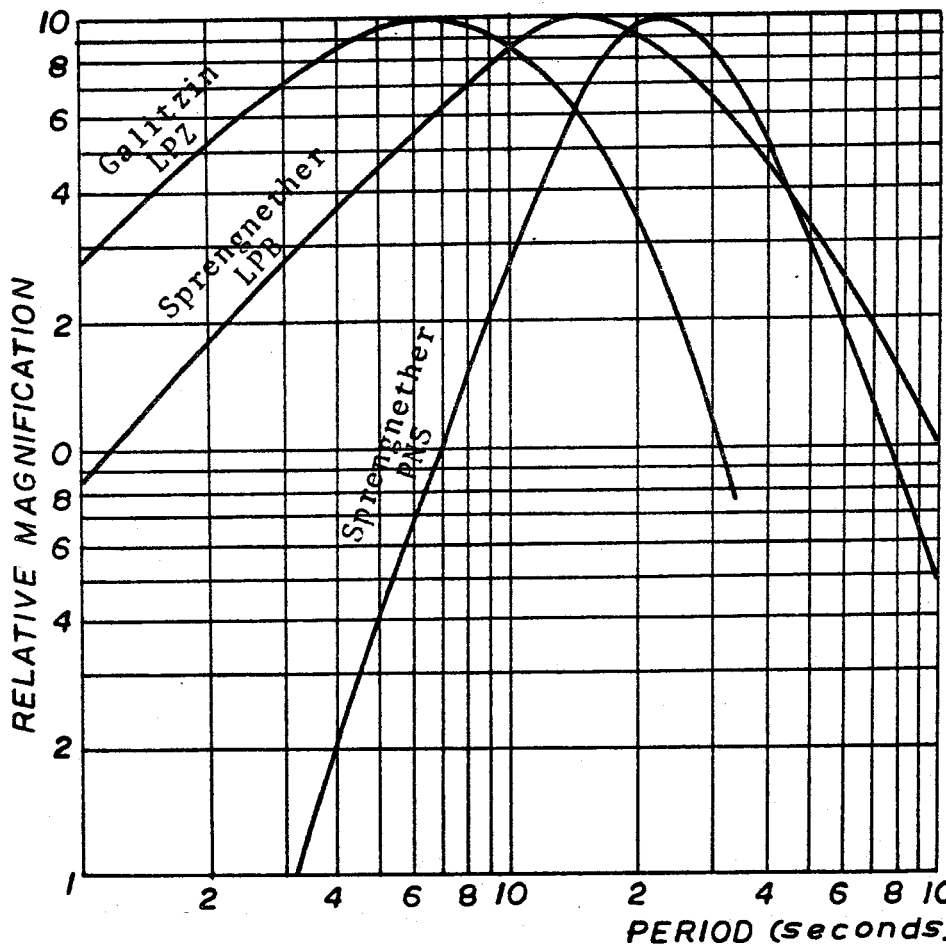
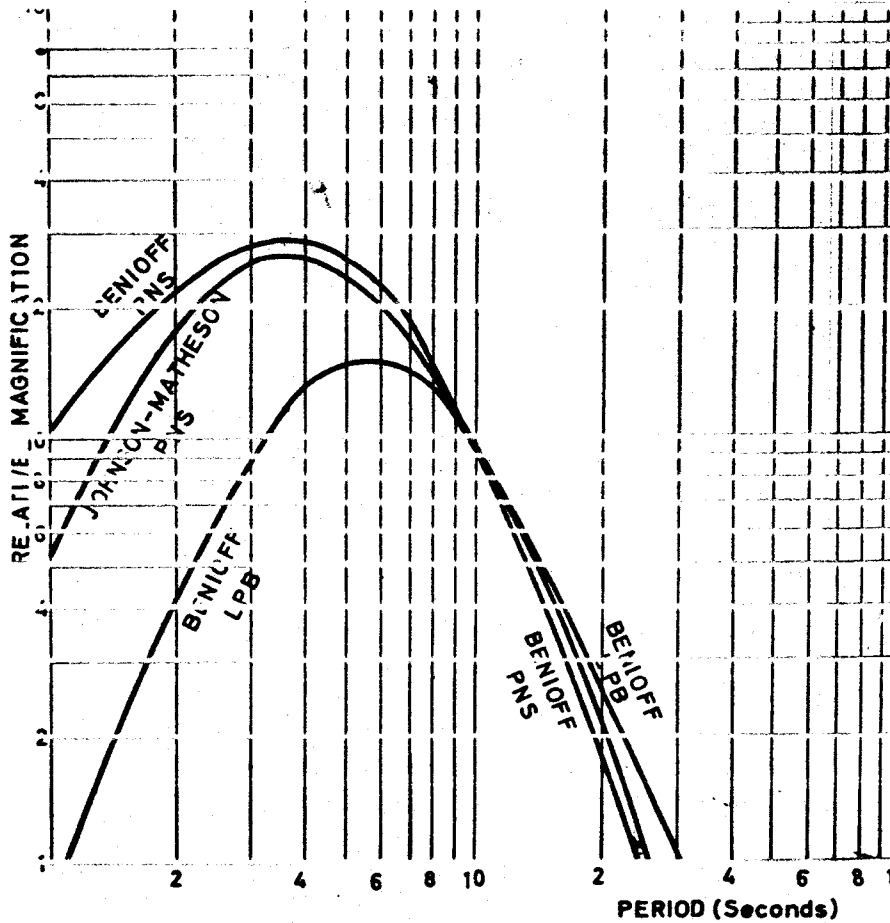


Fig. 2. Frequency response curves for the long period instruments.





instruments.

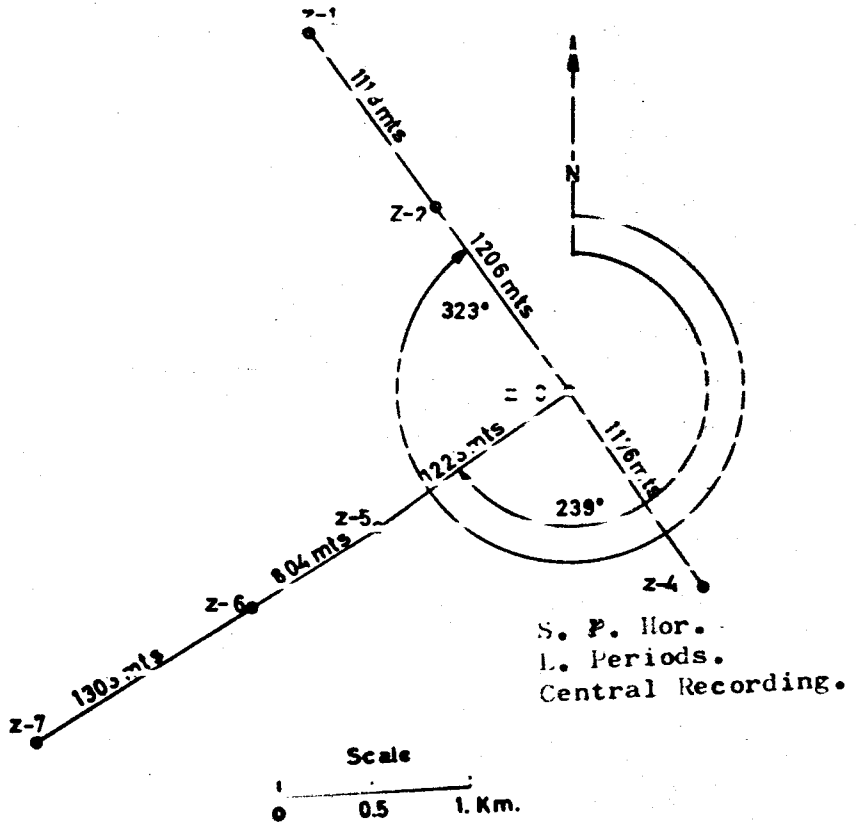


**Orientation of Horizontal Instruments.**

**Radial 141° from true north.**

**Transversal 271° from true north.**

**Elevation of Z-4, 3980 mts.**



PNS.





The stations of Cochabamba, Desaguadero, Samaipata, Sicasica and Tarija are operated in cooperation with the Instituto Geofísico Boliviano under the sponsorship of the Department of Terrestrial Magnetism of the Carnegie Institution of Washington. They are part of the Andes Carnegie Network of Stations.

The Seismic Array of Potosí is instrumented and operated under Grant AF-AFOSR-792-65. The configuration of the array is indicated in figure 2. The seismograms of the seven vertical elements of the array as well as the two short period horizontal and the low magnification records of the three long period components are obtained in 16 mm. developocorder film. The short period seismogram of the instrument located at 2-4 as well as the two short period horizontal components of the same instrument are obtained in 25 mm. film. Information from all the elements of the array is stored on Magnetic Tape.

The station of La Paz (1950) is part of the World Wide Network of Seismographic Stations, installed by the Coast and Geodetic Survey of the U.S. (U.S.C.G.S.).

The frequency response curves of the different instruments are shown in figures 2 and 3.

### SYMBOLS AND NOTATIONS

#### Code of Stations Constants:

- To = Free period of the seismometer in seconds.
- Tg = Free period of the galvanometer in seconds.
- Mag. = Magnification at the indicated frequency.

#### Earthquake Readings:

- STA = Code of the station according to the USCGS List of Seismographic Stations. The Stations are listed in chronological order of first arrival time for each earthquake.
- SIGN = Direction of the first motion. C = Compression, D = Dilatation.
- AMPL = Maximum amplitude of the first part of the initial phase measured in millimicrons of ground motion. Readings refer to half peak-to-peak amplitudes.
- PER = Period in seconds of the wave whose amplitude was measured.
- DIST = Epicentral distance to La Paz, Bolivia, measured in a map of isosthenetic curves centered at La Paz.



For earthquakes not identified by the USGS  
the epicentral distance has been calculated  
and the P travel times assuming a normal  
depth of the focus.

For any further information on the data in this  
Bulletin, please direct your inquiries to:

Director of San Calisto Observatory  
Casilla 283  
La Paz  
BOLIVIA, South America.



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	1	LPB	eP	00 17 53		0.9	8.5		
OCT	1	TRJ	P	02 03 35.2	D				
		LPB	iP	02 04 05.7		0.8	19.6		
			(S)	04 59					
		PNS	iP	02 04 09.8	D	0.6	3.8		
OCT	1	PNS	iP	03 00 56.1	D	0.5	20.8	2.0	
			iF	01 20					
OCT	1	PNS	iP	03 00 56.2	D	0.5	31.8	2.0	
			S	01 20.0					
		LPB	P	03 00 57.2		0.7	7.8		
			(S)	01 21					
OCT	1	USCGS	02 57 58, 38.1N, 118.3W, H = 33 Km, M = 4.7						
		CALIFORNIA-NEVADA BOR REG							
		PNS	eP	03 09 17		1.4	9.6		
			L	32.1					
		LPB	eP	03 09 20				72.0	
OCT	1	LPB	P	03 35 43		0.4	4.8		
		PNS	iP	03 36 58.9	C	0.4	3.1	1.8	
			S	37 20.8					
OCT	1	LPB	P	03 57 01.7		0.7	13.0		
		PNS	iP	03 57 03.3		0.4	13.2	2.4	
			eS	57 32.5					
OCT	1	LPB	eP	04 37 50		0.7	6.5	3.0	
			eS	38 25					
		PNS	P	04 37 51		0.4	1.3	3.2	
			S	38 29.7					
OCT	1	PNS	eP	06 02 29.3					
			eS	02 51					
		LPB	P	06 02 41.5		1.0	8.0		
OCT	1	USCGS	05 46 30, 10.8S, 162.1E, H = 33 Km, M = 4.8						
		SOLOMON IS							
		PNS	ePKP	06 05 26.6					
			L	45.4					
		LPB	ePKP	06 05 27.5				123.8	
OCT	1	PNS	eP	06 54 22.9					
		LPB	eP	06 54 26.5					

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	1	TRJ	P	07 46 23.1	C			2.5
			S	46 53.4				
		LPB	eP	07 46 47				
		PNS	P	07 46 56.1				
OCT	1	PNS	P	07 50 45.3				2.4
			eS	.51 14				
OCT	1	USCGS W PAKISTAN		07 38 29, 34.8N, 71.0E, H = 25 Km, M = 5.3				
		LPB	ePKP	07 57 56		1.2	7.8	139.1
		PNS	PKP	07 57 59.1		1.4	16.9	
			eL	08 53.6				
OCT	1	LPB	eP	08 10 04.5				
		PNS	eP	08 10 04.8				
OCT	1	LPB	eP	10 35 37.5		0.8	7.0	
OCT	1	LPB	eP	10 56 46				
		PNS	eP	10 56 47				
OCT	1	LPB	eP	11 17 05				
		PNS	P	11 17 11				
OCT	1	TRJ	iP	12 58 50.1	D			2.8
			S	59 23.1				
		LPB	eP	12 59 40				
		PNS	P	12 59 49.1				
OCT	1	LPB	P	13 41 47.5				
		PNS	P	13 41 48				
						1.6	2.5	
OCT	1	PNS	e(P)	14 25 17.0				
		LPB	P	14 25 26				
OCT	1	TRJ	P	15 26 58.0	C			2.5
			iS	27 27.8				
		PNS	P	15 27 41.8				
OCT	1	LPB	eP	15 28 41				
		PNS	P	15 28 44.8				
OCT	1	PNS	eP	16 41 52.3				4.5
			i	42 08.4				
		LPB	eP	16 42 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	1	LPB PNS	eP eP	17 57 31 17 57 40					
OCT	1	PNS LPB CCH	P e(P) eP	18 04 03.8 18 04 04 18 04 57.8		1.3	2.6		
OCT	1	LPB PNS	e(P) S iP iS	18 48 37 50 00.5 18 49 34.8 50 00.0		0.6	16.0	2.1	
OCT	1	LPB PNS	eP eP S	19 06 37 19 06 37.8 07 00.5		1.0	10.0	1.8	
OCT	1	USCGS	23 07 17, 23.2S, 66.8W, H = 197 Km, M = 4.1 JUJUY PROVINCE, ARGENTINA						
		TRJ	iP	23 08 05.7					
		CCH	iP	23 08 43.1	C				
			S	11 09.1					
		LPB	iP	23 08 56.2	D	1.0	135.0	6.8	
			(S)	10 10.5					
		PNS	iP	23 09 00.2	D	1.0	8.1		
			iS	16 20.0					
OCT	1	USCGS	23 15 06, 1.8N, 125.6E, H = 71 Km, M = 5.1 MOLUCCA PASSAGE						
		LPB	ePKP	23 35 02		0.9	8.5	160.2	
		PNS	PKP	23 35 02.2		0.9	5.0		
			L	00 31 00					
OCT	2	USCGS	02 24 57.1, 43.7N, 125.2E, H = 33 Km, M = 4.5 N CHINA						
		PNS	PKP	02 44 46.5		1.4	33.8		
			pPKP	44 55					
			eSS	03 07 05					
			eL	35.7					
		LPB	ePKP	02 44 48		1.4	12.0	151.0	
		CCH	ePKP	02 44 50.5					
OCT	2	USCGS	04 31 47, 24.4N, 94.8E, H = 65 Km, M = 7.2 BURMA-INDIA BOR PIG						
		LPB	ePKP	04 51 35				162.0	
			eL	05 49 00					
		PNS	eSS	05 16 45					
			L	47.7					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	2	LPB PNS	eP P	06 10 06 06 10 10.4	D	1.0	10.4		
OCT	2	PNS	iP	06 14 21.6	C	0.4	5.8		
OCT	2	USCGS	07 23 35.3, 51.6N, 174.5W, H = 34 Km, M = 5.1 ANDREANOF IS, ALEUTIAN IS						
		LPB	ePKP	07 42 13				113.2	
			eL	08 18 00					
		PNS	ePKP	07 42 14.5					
			pPKP	42 27.4					
			eSS	58 42					
			eL	08 17.6					
OCT	2	PNS	P i	10 31 10.0 31 20					
OCT	2	PNS	eP	10 47 42.2		0.6	4.5		
OCT	2	LPB PNS	P P	11 19 30.5 11 19 35.5		0.8 0.4	5.6 2.2		
OCT	2	USCGS	11 20 41, 36.6N, 141.0E, H = 46 Km, M = 4.5 NR E CST OF HONSHU, JAPAN						
		PNS	PKP	11 40 21.0		1.0	8.1		
			eSS	12 02 55					
			L	30 00					
		LPB	PKP	11 40 21.6		0.9	8.5	147.3	
			eL	12 30 00					
		CCH	ePKP	11 40 30.7					
OCT	2	USCGS	11 21 44.9, 45.7N, 26.5E, H = 140 Km, M = 5.3 RUMANIA						
		PNS	P	11 35 03.0					
			eL	12 11.1					
		LPB	eL	12 11 00				104.9	
OCT	2	USCGS	12 08 00.6, 51.6N, 174.6W, H = 56 Km, M = 4.5 ANDREANOF IS, ALEUTIAN IS						
		LPB	ePKP	12 26 18				113.8	
			eL	13 01 00					
		PNS	eL	13 01 00					
OCT	2	LPB	eP	12 28 23 28 26.9	D	0.8	9.7		



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	2	USCGS	12 22 25, 13.4N, 92.2W, H = 46 Km, M = 4.4 OFF COAST OF CHIAPAS, MEXICO						
		PNS	iP	12 29 38.7	C	1.1	11.8		
			eL	40.7					
OCT	2	LPB	iP	13 25 54		0.7	13.0	3.1	
			S	26 29.7					
		PNS	iP	13 25 57.5	C	0.5	7.9	3.3	
			S	26 36.5					
OCT	2	LPB	iP	13 57 16.7		0.8	21.0		
		PNS	P	13 57 18.6		0.9	7.0		
			(S)	57 52.2					
OCT	2	TRJ	iP	14 48 22.7	D				
		CCH	P	14 48 58.7	C				
			S	49 59.4					
		PNS	P	14 49 16.8		0.4	2.2	6.6	
			S	50 33					
OCT	2	CCH	P	15 38 26.0	C			3.1	
			S	39 02.3					
		PNS	eP	15 39 08				3.5	
			iS	39 49.4					
		LPB	P	15 39 10		0.7	7.8	2.3	
			S	39 37					
OCT	2	LPB	eP	19 15 54		1.1	9.2		
OCT	2	USCGS	19 42 10, 53.7S, 140.1E, H = 57 Km, M = 5.2 W OF MACQUARIE IS						
		PNS	eSKS	20 07 13					
			L	32 00					
		LPB	eL	20 32 00				106.0	
OCT	2	PNS	eP	20 03 00		0.4	2.8		
OCT	2	PNS	P	21 26 16.8		0.5	22.3	3.6	
			S	26 58.6					
		LPB	P	21 26 21.6		1.0	10.0	3.9	
			S	27 07.5					
OCT	2	PNS	iP	21 30 19.4	C	0.6	40.4	3.7	
			S	31 02.7					
		LPB	P	21 30 24.8	D	1.0	40.0		
			(S)	31 06					
		CCH	iP	21 30 50.1	C				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	2	USCGS S OF MARIANA IS	21 53 59.8, 11.2N, 143.3E, H = 40 Km, M = 4.9					
		PNS	PKP	22 13 44.6		1.2	18.6	
			eSS	36 23				
			L	23 04.3				
		LPB	ePKP	22 13 46				149.4
			i	13 49				
			eL	23 04 00				
		CCH	ePKP	22 13 50.4				
OCT	3	LPB	P	02 09 51.5		0.6	3.5	
OCT	3	PNS	eP	02 29 48				
		LPB	eP	02 29 54		1.0	8.0	
OCT	3	USCGS COLORADO	02 26 01.9, 37.4N, 104.1W, H = 10 Km, M = 4.5					
		LPB	eP	02 36 32				63.8
		PNS	P	02 36 34.4				
			eS	45 05				
			eL	57.4				
OCT	3	PNS	P	03 54 43				
		LPB	eP	03 54 47				
OCT	3	PNS	P	04 03 23.5		0.4	4.2	
		LPB	eP	04 03 25				
OCT	3	LPB	P	05 12 25.5		0.9	6.8	
OCT	3	PNS	e(P)	05 14 16				
		LPB	eP	05 14 16.5				
OCT	3	USCGS S SANDWICH IS REG	05 24 12, 60.4S, 26.4W, H = 33 Km, M = 5.1					
		CCH	P	05 33 16.7	D			0.9
			S	33 28.8				
		LPB	P	05 33 28.7		1.0	20.0	55.0
			eL	50 00				
		PNS	P	05 33 31.6		0.9	18.9	
			eL	50.1				
OCT	3	PNS	eP	05 58 46				
		LPB	eP	05 58 51		0.7	32.5	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	3	PNS LPB	e(P) eP	05 45 08 06 45 13					
OCT	3	LPB PNS	eP P	08 19 45.5 08 19 59.3		0.5	3.3		
OCT	3	LPB PNS	eP eP	08 39 46.5 08 39 48					
OCT	3	PNS LPB CCH	iP S iP iS eP	08 42 01.8 42 26 08 42 04 42 30.5 08 42 46.2	D D	0.5 0.7	123.0 19.5	2.0 2.2	
OCT	3	PNS LPB TRJ	P eP P S	08 54 12.3 08 54 39 08 55 15.8 56 00.6	C C	0.7 0.9	7.2 5.1	3.8	
OCT	3	LPB PNS	eP P	09 48 22.6 09 48 33.0	D	1.0 0.8	6.0 9.3		
OCT	3	USCGS VOLCANO	11 05 IS REG	32.3, 25.2N, 142.0E, H = 3 Km, M = 4.3					
		LPB	ePKP eL	11 25 22 12 16 00				150.2	
		PNS	ePKP eL	11 25 24 12 16 00					
OCT	3	LPB PNS	P P	12 42 55.5 12 43 03.0		0.7 0.5	5.2 2.8		
OCT	3	PNS	eP	13 44 32.4					
OCT	3	LPB PNS	eP (S) iP i	15 12 35 13 11 15 12 39.0 12 50.6	D	1.0	12.1		
OCT	3	USCGS MID-INDIAN RISE	15 03	36, 33.3S, 78.1E, H = 33 Km, M = 5.4					
		PNS	ePKP SS eL	15 22 32 40 23 16 01 00					
		LPB	eL	16 01 00				121.2	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	3	TRJ	iP S	16 18 59.6 19 39.4	C			3.4
OCT	3	PNS	P S	17 19 25.6 20 30		0.8	5.4	5.6
OCT	3	USCGS IRAN		17 05 10.4, 35.7N, 53.2E, H = 35 Km, M = 4.9				
		PNS	ePKP iPP SS iPS eL	17 24 08.9 26 17 36 10 42 46.0 18 04 00				
		LPB	SS L	17 42 13 18 04.0				124.5
OCT	3	LPB	eP (S)	18 00 47 01 59.8				
		PNS	iP iS	18 01 09.8 01 46.2	D			3.1
		CCH	eP	18 01 16.9				
OCT	3	CCH	P S	18 11 42.6 11 57.1	D			1.1
		LPB	P	18 11 56		0.5	11.7	
		PNS	P	18 12 00.3	D	0.5	4.5	
OCT	3	LPB	eP	18 24 12				
		PNS	eP S	18 24 25.8 24 50.4				2.1
		CCH	eP S	18 24 50.2 25 17.6				2.3
OCT	3	TRJ	P S	19 32 44.5 33 16.1	D C			2.6
OCT	3	PNS	P	21 17 18.3		0.6	3.2	
OCT	3	USCGS NEW GUINEA		21 54 21.9, 3.4S, 140.3E, H = 33 Km,				
		PNS	iPKP eSS eL	22 14 01.0 36 13 23 02.3	D	1.0	9.3	
		LPB	ePKP eL	22 14 02 23 02 00		1.0	10.0	146.4
OCT	3	LPB	eP	22 39 37		1.0	6.0	
		PNS	P	22 39 41.7		0.9	5.0	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	4	LPB	eP	01 12 10.5				
OCT	4	LPB PNS	eP P	01 23 23.5 01 23 26.4		0.4	4.2	
OCT	4	USCGS SOLOMON IS	01 44	31.1, 11.1S, 162.3E, H = 33 Km, M = 5.4				
		LPB PNS	ePKP ePKP eSS eL	02 03 25 02 03 25.4 22 05 43 00				124.1
OCT	4	PNS	eP iS	02 07 49 08 29.4				3.4
OCT	4	LPB PNS CHA CCH	P iP P P S	04 05 14.2 04 05 15.5 04 05 16.3 04 05 22.5 05 38.4		0.9 0.6	32.3 11.4	1.3
OCT	4	USCGS S OF MARIANA IS	07 22	54.6, 12.0N, 142.1E, H = 47 Km, M = 5.2				
		LPB	ePKP i pPKP	07 42 39.2 42 45 42 52.7		0.9	6.8	150.2
		PNS	ePKP i SS eL	07 42 39.8 42 45.9 08 05 52 34 00	C	0.9	6.8	
		CHA CCH	PKP iPKP S	07 42 45.6 07 42 48.3 42 56.4				
OCT	4	PNS CHA LPB	iP P eP	08 54 50.9 08 54 53.4 08 54 56.5	D	0.7	17.4	
OCT	4	LPB PNS	eP S iP	09 21 34 22 05 09 21 36.2	C	0.5	5.0	2.6
OCT	4	PNS LPB	eP eP eS eL	09 30 19.7 09 30 21.5 38 18 48 00		1.8 1.5	29.8 15.6	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	4	LPB	eP	10 24 17					
		PNS	P	10 24 30.9	C	0.8	11.3		
		CHA	P	10 24 33.0	D				
OCT	4	LPB	eP	11 22 09.5					
		PNS	iP	11 22 15.1	C	0.8	11.3		
		CHA	P	11 22 16.4	D				
OCT	4	TRJ	P	13 10 45.5	D			3.6	
			S	11 27.4					
OCT	4	LPB	P	14 11 33.2		0.9	22.2		
		PNS	P	14 11 36.0					
			i	11 37.3					
		CHA	iP	14 11 36.6	D				
OCT	4	PNS	eP	14 19 04.3				2.4	
			S	19 33.6					
OCT	4	USCGS 15 59 23, 53.7S, 140.5E, H = 43 Km W OF MACQUARIE IS							
		LPB	eP	16 13 30				105.9	
			eL	49 00					
		CHA	eP	16 13 41.6					
		PNS	eSKS	16 32 41					
			L	49 00					
OCT	4	TRJ	P	16 16 18.6	D			2.6	
			S	16 49.7	D				
OCT	4	CCH	iP	21 09 37.6	C				
		LPB	eP	21 10 52					
		PNS	iP	21 10 54.5	C	1.0	16.8		
OCT	4	SCS	P	22 15 30.1	D			4.3	
			S	16 20.6	C				
OCT	4	PNS	e(P)	23 46 12					
		LPB	eP	23 46 19.5		1.0	8.0		
OCT	4	USCGS 23 37 35, 26.1S, 179.4E, H = 486 Km, M = 5.3 S OF FIJI IS							
		LPB	eP	23 50 34				102.4	
			eL	00 25 00					
		PNS	eL	00 25 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	5	PNS LPB	P eP	00 43 15.7 00 43 17		0.8	4.9	
OCT	5	PNS LPB CHA CCH	iP iS iP i(S) iP iP	00 44 52.3 45 00.4 00 44 54.0 45 04 00 44 54.8 00 45 12.1	C  C	0.8	196.0	0.5 0.7
OCT	5	USCGS PNS LPB	02 59 59.6, 52.3N, 174.0W, H = 91 Km, M = 4.8 ePKP SS L ePKP eL	03 18 25 34 54 53 03 18 29 53 00				112.5
OCT	5	USCGS PNS LPB	04 03 15, 20.6S, 169.4E, H = 33 Km SS eL ePKP eL	04 39 15 57 00 04 22 42 57 00				112.5
OCT	5	PNS LPB	P eP	07 18 27.1 07 18 30		0.7	4.1	
OCT	5	CCH LPB PNS CHA	iP iP S iP S P	07 49 29.9 07 49 34 50 13 07 49 37.3 50 17.5 07 49 37.3	D  C D	0.7 0.7	11.7 21.4	3.3 3.4
OCT	5	LPB TRJ CCH PNS	eP P P eP S	08 03 15 08 03 47.4 08 04 09.3 08 04 19.2 04 40	C C	0.5	3.4	4.7

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	5	USCGS S BOLIVIA	08 09	48.4, 20.7S, 67.0W, H = 247 Km, M = 4.0				
		TRJ	iP	08 10 30.5	C			
			S	11 02.2				
		CCH	iP	08 10 43.6	D			
			S	11 35.3				
		LPB	iP	08 10 57.3		0.7	4.5	4.4
			S	11 49.5				
		CHA	iP	08 10 59.2	D			
		PNS	iP	08 11 01.0	C	0.4	24.2	
			iS	11 57.0				
OCT	5	PNS	P	08 17 10.7		0.9	5.5	
OCT	5	USCGS REPUBLIC OF THE CONGO	08 34	40.6, 1.0N, 30.0E, H = 33 Km, M = 5.4				
		LPB	eP	08 48 16.5		1.0	4.0	97.8
			ep <sup>P</sup>	48 26				
			eL	09 21 00				
		PNS	P	08 48 18.0	C	1.5	32.8	
			ip <sup>P</sup>	48 28.4				
			SS	09 06 17				
			L	20.7				
OCT	5	LPB	P	10 12 14.6		0.5	6.5	
		PNS	eP	10 12 18.6				
OCT	5	USCGS TONCA IS	10 06	08, 20.2S, 175.6W, H = 196 Km, M = 4.5				
		PNS	eP	10 19 33.7				
			eL	53 00				
		LPB	eP	10 19 34				100.0
			eL	53 00				
OCT	5	LPB	eP	12 36 26				
		PNS	eP	12 36 34.0				2.4
			S	37 03.0				
OCT	5	USCGS SOLOMON IS	14 00	27.3, 10.7S, 162.4E, H = 82 Km, M = 4.8				
		PNS	ePKP	14 19 24.4				
			eL	58 00				
		LPB	eL	14 58 00				123.3



## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	5	USCGS	17 53 25.1, 21.8S, 68.7W, H = 118 Km, M = 4.6 CHILE-BOLIVIA BOR REG						
		TRJ	iP	17 54 21.8	C				
		CCH	eP	17 54 40.2					
		CHA	iP	17 54 44.0	D				
		LPB	P	17 54 44.4		0.7	18.2	5.4	
			i	55 04.4					
		PNS	iP	17 54 48.0	D	0.7	39.4		
			i	55 05.5					
			S	55 40.0					
OCT	5	LPB	P	18 48 30		0.9	23.8		
		PNS	eP	18 48 31.4		1.0	13.6		
OCT	5	LPB	eP	20 52 20.5		0.9	8.5		
		PNS	P	20 52 21.8	D	1.0	10.5		
OCT	5	PNS	P	21 54 10.9		0.5	3.4		
			i	54 16.5					
OCT	5	USCGS	23 23 53, 52.9S, 28.1E, H = 33 Km, M = 4.7 S OF AFRICA						
		PNS	P	23 36 12.4		1.8	19.2		
			ipP	36 24.5					
			SS	46 21					
			L	00 02.5					
		LPB	eP	23 36 13		1.1	6.9	80.9	
			eL	00 02 00					
OCT	5	USCGS	23 38 21, 23.4S, 69.4W, H = 33 Km, M = 4.7 N CHILE						
		TRJ	iP	23 39 28.0	C				
		CCH	iP	23 39 59.7	D				
		LPB	P	23 40 05.4		0.7	23.4	6.8	
			i	40 47.8					
			S	41 15.5					
		CHA	eP	23 40 09.8	D				
		PNS	iP	23 40 10.4	C	0.6	36.8		
			S	41 10.2					
OCT	6	LPB	eP	00 11 51				2.3	
			S	12 19					
		PNS	iP	00 11 52.7	D	0.5	6.8	2.2	
			S	12 20.2					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	6	USCGS	03 11 03.0, 6.2E, 146.4E, H = 113 Km, M = 5.5						
		E NEW GUINEA REG							
		PNS	PPP	03 30 14.8		0.8	8.9		
			eSS	51 30					
			eL	04 04 00					
		LPB	ePKP	03 30 15				139.1	
		CCH	ePKP	03 30 20.0					
OCT	6	LPB	P	03 59 25					
		PNS	iP	03 59 27.6		0.4	5.6		
		TRJ	P	03 59 43.2	D				
		CCH	eP	03 59 56.6					
OCT	6	USCGS	04 28 29.7, 4.5N, 73.3W, H = 86 Km, M = 5.8						
		E TALAUD IS							
		LPB	ePKP	04 48 15				160.8	
			eL	05 45 00					
		PNS	ePKP	04 48 16.4					
			eSS	05 13 00					
			eL	43.7					
OCT	6	TRJ	P	07 10 01.5	D			2.3	
			S	10 29.8					
		LPB	iP	07 10 54.2		0.6	4.8		
		PNS	iP	07 10 58.3	C	0.4	5.2		
OCT	6	PNS	iP	08 45 52.6	D	0.4	4.4	1.9	
			S	46 15.6					
		LPB	P	08 45 53.5		0.7			
		CHA	P	08 45 54.6					
OCT	6	PNS	P	10 46 35.8				3.6	
			iS	47 18.0					
		CHA	P	10 46 40.2					
		LPB	eP	10 46 42					
OCT	6	LPB	eP	11 04 39					
		PNS	eP	11 04 44				2.1	
			S	05 00					
OCT	6	USCGS	11 16 05, 3.9S, 139.9E, H = 34 Km, M = 5.2						
		W NEW GUINEA							
		LPB	iPKP	11 32 43.8		1.0	18.0	145.3	
			eL	12 25 00					
		CCH	ePKP	11 35 29.9					
		PNS	iPKP	11 35 43.2	D	0.8	30.1		
			eL	12 25 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	6	TRJ	P S	12 00 44.7 01 24.8	C D			3.4	
OCT	6	PNS	iP	12 36 01.3	D	0.3	10.9		
OCT	6	USCGS	13 14 42, 12.2N, 144.0E, H = 19 Km, M = 4.4 S OF MARIANA IS						
		LPB	ePKP PKP2 eL	13 34 35 34 42 14 25 00				148.6	
		PNS	ePKP PKP2 L	13 34 35 34 42.6 14 25.2					
OCT	6	TRJ	iP	13 41 29.8	D				
OCT	6	USCGS	13 48 33.2, 51.3N, 159.6E, H = 33 Km, M = 4.6 OFF E COAST OF KAMCHATKA						
		LPB	ePKP eL	14 07 43 49 00				129.1	
		PNS	L	14 49 00					
OCT	6	USCGS	14 10 37.5, 4.8N, 125.7E, H = 159 Km, M = 5.6 TALAUD IS						
		LPB	ePKP pPKP eL	14 30 22 31 02 15 27 00				162.2	
		PNS	PKP iPKP i SS L	14 30 25 31 00.7 31 12.8 55 13 15 26.9		1.3	12.4		
OCT	6	CCH	eP	16 01 08.8					
OCT	6	LPB	eP	16 55 38					
		PNS	P S	16 55 39.5 56 06.2		0.5	4.0	2.3	
		CHA	P	16 55 41.4					
OCT	6	LPB	iP S	17 15 45.7 16 15.5		0.7	9.1	2.5	
		PNS	P iS	17 15 46 16 15.8		0.6	2.8	2.5	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	6	PNS	P (S)	19 17 59.8 18 44		0.5	2.7		
OCT	6	BNS	P	19 44 12.4		0.4	5.0	2.1	
			S	44 37					
		CHA	eP	19 44 31.7					
OCT	6	CCH	P	23 47 47.7	D				
		LPB	P	23 48 21.4	D			3.2	
			S	48 58.5					
			i	49 03					
		PNS	P	23 48 24.1				3.2	
			S	49 01					
		CCH	P	23 47 47.7	D				
OCT	7	PNS	P	00 24 09.8		0.5	3.3		
OCT	7	PNS	iP	00 50 15.7	D	0.8	155.6	2.1	
			S	50 41					
		LPB	iP	00 50 16.0	D	0.8	84.4		
		CHA	iP	00 50 16.7	D				
		CCH	P	00 50 32.9	C			1.6	
			S	50 53.1					
OCT	7	USCGS	01 31 53, 1.0S, 122.9E, H = 198 Km, M = 4.8 N CELEBES REG						
		LPB	PKP	01 51 33.7				159.2	
		PNS	PKP	01 51 33.8		1.5	22.5		
			e	52 15.4					
			SS	02 16 22					
			L	47 00					
OCT	7	USCGS	03 29 31, 9.0N, 125.7E, H = 70 Km, M = 5.1 MINDANAO, P.I.						
		LPB	ePKP	03 49 26				164.4	
			eL	04 48 00					
		PNS	SS	04 14 20					
			L	47.9					
OCT	7	USCGS	04 28 29.7, 4.5N, 126.1E, H = 86 Km, M = 5.8 TALAUD IS						
		PNS	PKP	04 48 25.8					
			eSS	05 13 33					
			eL	44.3					
		LPB	PKP	04 48 26	D			160.8	



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	7	PNS	eP (S)	05 35 10 35 15.0					
OCT	7	PNS	eP S	06 58 48 59 26.7				3.3	
OCT	7	USCGS	07 29 15, 37.5S, 73.3W, H = 33 Km, M = 4.5 NEAR CST OF CENTRAL CHILE						
		TRJ	P	07 33 23.4	C				
		CCH	P	07 33 58.2					
			S	33 43.1	C				
		LPB	P	07 34 02.5	C	1.0	25.0	22.0	
			S	38 05					
			L	40.4					
		PNS	P	07 34 05.3		1.0	8.7		
			S	38 09					
			SS	38 23					
			eL	40.6					
			SeS	45 33					
OCT	7	TRJ	iP	08 50 59.8	D				
		CCH	P	08 51 40.2	D				
		LPB	P	08 51 52.5	D	0.6	6.0	6.4	
			eS	53 06					
		PNS	P	08 51 56.9	D	0.6	8.0	7.1	
			iS	53 17.0					
OCT	7	USCGS	12 03 52, 18.2N, 47.0W, H = 33 Km, M = 4.5 N ATLANTIC RIDGE						
		LPB	eP	12 11 28		1.3	28.0	40.4	
			eS	17 42					
			eL	23.5					
		PNS	iP	12 11 28.0		1.5	7.2		
			ipP	11 37.6					
			S	17 49					
			L	23.3					
OCT	7	PNS	iP S	13 12 48.5 13 11.4		0.4	22.2	1.9	
OCT	7	PNS	P S	13 54 13.2 54 37.0		0.4	5.5	2.0	

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	7	USCGS LOYALTY IS REG	15 55	10.2, 21.6S, 170.5E, H = 161 Km, M = 6.4				
		PNS	P	16 09 44.5		1.2	17.6	
			PKP	13 28.0				
			PP	14 10.0				
			iPKS	16 09.3				
			SKS	19 52				
			PS	23 33.7				
			iSP	24 24.6				
			eSS	30 00				
			eL	48 00				
		LPB	e(P)	16 09 52		1.0	12.0	111.3
			PKP	13 28.4				
			PP	14 09				
			SS	30 00				
			G	41.3				
			eL	48 00				
		CCH	ePKP	16 13 28.3				
			S	16 24				
OCT	7	LPB	eP	16 45 04				
		PNS	eP	16 45 06.2				
OCT	7	CCH	ePKP	16 51 21.1				
OCT	7	PNS	P	16 53 58.0		0.5	6.6	2.1
			S	54 22.6				
		LPB	eS	16 54 23				
OCT	7	PNS	P	17 02 02.8				
OCT	7	PNS	iP	17 52 56.4	C	0.5	66.0	1.9
			S	53 19.9				
		LPB	P	17 52 57.5	D	0.9	17.0	
		CHA	iP	17 52 57.5	C			
OCT	7	USCGS S ALASKA	20 55	50, 61.6N, 150.1W, H = 56 Km, M = 5.7				
		PNS	eP	21 09 35.6				
			eL	43.3				
		LPB	eP	21 09 43				100.8
OCT	7	USCGS NEW GUINEA	23 04	00.1, 4.4S, 143.1E, H = 95 Km, M = 5.3				
		LPB	ePKP	23 23 29				142.7
			eL	00 00 00				
		PNS	PKP	23 23 29.8		1.0	8.0	
			eL	00 00 00				
		CHA	PiLP	23 23 29.9				
		CCH	PKP	23 23 32.2	C			

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	8	LPB	eP	00 26 20					
			SKS	37 03					
			eSS	45 32					
		PNS	eL	01 00.6					
			eSKS	00 37 00					
			i	38 21.0					
			iSS	45 30.0					
G	55 25								
L	59.9								
OCT	8	PNS	P	00 30 28.7		2.2	75.0		
		LPB	eP	00 30 31	D				
OCT	8	TRJ	P	01 10 11.0	C			2.7	
			S	10 43.6	C				
		LPB	(P)	01 10 31.8	D	0.9	10.0		
		PNS	P	01 10 40.7		0.4	2.5		
OCT	8	USCGS TONGA IS		02 21 56.4, 19.4S, 175.4W, H = 241 Km, M = 5.0					
		LPB	eP	02 35 16				100.2	
			eL	03 08 00					
		PNS	L	03 09.5					
OCT	8	TRJ	iP	02 33 05.4	C				
			CCH	P	02 33 26.4	C			
		LPB	iP	02 33 41.5	D	1.0	12.0		
			(S)	36 00					
		CHA	P	02 33 42.0	D				
OCT	8	USCGS FIJI IS REG		02 34 16.1, 16.5S, 177.5N, H = 57 Km, M = 4.9					
		LPB	eP	02 47 46				99.5	
			eSKS	58 58					
			eSS	03 06 25					
		PNS	L	22.3					
			iPKS	02 58 26.0					
			L	03 22.2					
OCT	8	USCGS KODIAK IS REG		03 06 46.4, 57.7N, 151.6W, H = 32 Km, M = 5.0					
		PNS	G	03 48.0					
			L	54 00					
			eL	03 54 00				100.3	
OCT	8	USCGS MARIANA IS REG		03 52 23.8, 17.6N, 147.3E, H = 30 Km, M = 5.0					
		LPB	ePKP	04 12 02				146.3	
					34 22				
			59 00						

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
		PNS	eP	04 12 02.6		1.6	104.0		
			eSS	34 21					
			L	59.7					
		CCH	eP	04 12 09.5					
OCT	8	USCGS	04 23 07.7, 32.1S, 67.4W, H = 141 Km, M = 4.6						
		MENDOZA	PROVINCE, ARGENTINA						
		TRJ	iP	04 25 41.6	C				
		CCH	P	04 26 26.5	C				
		LPB	P	04 26 40.6	C	1.0		15.2	
			S	29 40					
		PNS	P	04 26 44.2	C	1.0	39.7		
			S	29 46.8					
			i	30 16.2					
		CHA	P	04 26 44.4					
			i	27 47.3					
OCT	8	PNS	e(P)	05 22 15					
			i	22 33.0					
		LPB	P	05 22 20.3		0.9	17.0		
OCT	8	LPZ	iP	06 56 54	C			3.2	
			iS	57 32					
		PNS	iP	06 56 55.7	D	0.6	37.5	3.4	
			iS	57 35.3					
		CCH	iP	06 56 56.6	D			3.4	
			S	57 36.4					
		TRJ	P	06 57 15.4	C				
OCT	8	TRJ	P	07 08 48.3	D			2.5	
			S	09 18.3	C				
OCT	8	PNS	iP	10 17 19.1	C	0.5	11.6	2.2	
			iS	17 45.5					
		LPZ	P	10 17 22	C				
OCT	8	USCGS	10 32 38, 18.9S, 69.7W, H = 140 Km, M = 4.3						
		N CHILE							
		LPZ	iP	10 33 24	C				
			iS	34 06					
		PNS	iP	10 33 25.3	D	0.6	54.9		
			S	34 07					
		CCH	iP	10 33 27.1	D				
			iS	34 49.9					
		TRJ	iP	10 33 41.3	C				



## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	8	USCGS	12 02 08.9, 35.5N, 140.2E, H = 65 Km, M = 4.9 NEAR E COAST OF HONSHU, JAPAN						
		PNS	PKP	12 21 48.3		1.0	7.9		
			i	22 01.8					
		CCH	ePKP	12 21 55.6					
OCT	8	USCGS	14 43 53.9, 15.6S, 177.8W, H = 420 Km, M = 4.8 FIJI IS REG						
		PNS	L	15 33.2					
OCT	8	USCGS	17 43 56.1, 51.6N, 173.8W, H = 35 Km, M = 5.5 ANDREANOF IS, ALEUTIAN IS						
		PNS	L	19 38 00					
OCT	8	TRJ	iP	19 26 25.3	D				
		PNS	iP	19 27 17.4	D	0.5	5.5		
OCT	8	USCGS	19 39 40.5, 10.8N, 62.6W, H = 90 Km, M = 4.8 NEAR COAST OF VENEZUELA						
		PNS	iP	19 45 21.4	C	1.3	24.3		
			i	45 44.8					
			s	49 46					
			L	52.8					
		CCH	P	19 45 26.0	C				
OCT	8	LPZ	eP	19 51 06					
			(S)	59 23					
		CCH	eP	19 51 07.7					
OCT	8	PNS	eP	20 04 04				4.6	
			S	04 57.2					
OCT	8	LPZ	eP	20 51 40					
		CCH	iP	20 51 45.5	C				
		TRJ	P	20 52 11.8	D				
OCT	8	PNS	eP	22 49 28.2					
		LPB	P	22 49 28.5	D				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	9	TRJ LPB	P P	00 14 56.9 00 15 37.2	D			
OCT	9	PNS	P S	01 35 18.0 35 40.4		0.6	5.1	1.8
OCT	9	USCGS FIJI IS REG		02 06 35, 17.8S, 178.2W, H = 639 Km, M = 4.8				
		PNS	SS	02 38 27				
			eL	03 00 00				
		LPB	eL	03 01 00				102.8
OCT	9	USCGS		02 17 50, 1.5N, 85.2W, H = 33 Km, M = 4.6 OFF COAST OF ECUADOR				
		PNS	P	02 23 04.5		2.2	175.0	
			epP	23 30				
			L	30.8				
		LPB	ep	02 23 08		2.0	180.0	24.8
			pP	23 31				
			eS	27 50				
			L	31.0				
OCT	9	PNS CCH	P ep	02 53 34.8 02 53 41.5		0.9	5.7	
OCT	9	USCGS		04 44 41, 29.6S, 71.7W, H = 51 Km, M = 3.9 NEAR COAST OF CENTRAL CHILE				
		PNS	ep	04 47 43				
			eS	50 10				
		LPB	ep	04 47 45				13.4
OCT	9	CCH	ip	04 59 16.7	D			
OCT	9	PNS	ep S	06 11 13.6 11 51.4				3.2
OCT	9	PNS	P	06 45 56		0.6	4.4	
OCT	9	USCGS E SUDAN		06 48 40.3, 12.6N, 30.8E, H = 11 Km, M = 5.1				
		LPB	ep	07 02 29				102.0
			eSKS	13 13				
			eL	37 00				
		PNS	SKS	07 13 13				
			SS	21 26				
			eL	37 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	9	USCGS GULF OG CALIFORNIA	08 10 28, 31.3N, 114.3W, H = 33 Km, M = 5.0					
		PNS	eP	08 21 05.3		0.9	5.2	
			L	42.1				
		LPB	eP	08 21 07				65.3
			eL	42 00				
OCT	9	USCGS FIJI IS REG	08 23 41, 19.5S, 176.1W, H = 220 Km, M = 4.3					
		PNS	L	09 06.9				
		LPB	eL	09 07.00				100.3
OCT	9	LPB	P	09 45 18.0	C	1.0	4.0	4.4
			S	46 09				
		TRJ	eP	09 45 19.8				
		PNS	iP	09 45 20.7	C	0.5	10.9	4.4
			S	46 11.8				
OCT	9	USCGS E SUDAN	10 28 28, 12.6N, 31.1E, H = 44 Km, M = 4.2					
		LPB	eL	11 17 00				102.0
		PNS	L	11 17 00				
OCT	9	PNS	eP	11 04 52				3.3
			S	05 30.7				
OCT	9	USCGS EASTER IS CORDILLERA	12 06 43, 54.9S, 124.2W, H = 33 Km, M = 4.7					
		LPB	eP	12 16 30				57.2
			L	34.2				
		PNS	eP	12 16 30		1.2	22.4	
			eS	24 20				
			L	34.1				
OCT	9	USCGS W FIJI IS REG	13 50 07, 18.2S, 178.3W, H = 570 Km, M = 4.0					
		PNS	eP	14 03 01				
		LPB	eL	14 38 00				104.0
OCT	9	TRJ	P	13 55 33.8	D			3.4
			S	56 13.7				
OCT	9	LPB	eP	15 01 57				
		PNS	eP	15 01 57.8				
			(e)	02 38				

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	9	PNS	P	15 30 53		1.0	7.8		
			L	43.4					
		LPB	eP	15 30 50.5					
			eL	44.0					
OCT	9	LPB	eP	21 01 57					
			(pP)	02 22					
			e(S)	09 38					
		CCH	eP	21 02 06.7		0.9	6.1	54.0	
		PNS	p	21 02 07.6					
		ipP	02 25.6						
			S	09 40					
OCT	9	LPB	P	21 38 15.5		1.0	20.0		
		PNS	P	21 38 18.6	C	0.8	11.5		
OCT	9	PNS	eP	22 13 18				12.3	
			S	15 35.4					
		LPB	eP	22 13 20				12.6	
			S	15.40					
OCT	10	USCGS	01 19 45, 16.1N, 98.1W, H = 43 Km, M = 4.7 NEAR COAST OF GUERRERO, MEXICO						
		LPB	eP	01 27 51				43.8	
		PNS	eP	01 27 52.4					
			L	40.1					
OCT	10	PNS	P	03 35 38.0	D	0.7	10.5	2.2	
			S	36 03.8					
OCT	10	LPB	eP	03 46 12.5					
		PNS	eP	03 46 13					
OCT	10	PNS	iP	04 05 17.2	D	0.3	5.4	2.5	
			S	05 47.6					
		LPB	eP	04 05 21					
OCT	10	CCH	P	04 26 04.2	C				
OCT	10	USCGS	06 43 21, 7.4S, 129.1E, H = 125 Km, M = 4.7 BANDA SEA						
		LPB	PKP	07 02 56.5	C			150.5	
			eL	55 00					
		PNS	iPKP	07 02 56.7		0.8	3.1		
			iPKP2	03 02.1					
			eSS	26 17					
			L	55.2					

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	10	LPB	P	08 06 56.2					
OCT	10	USCGS	10 03 31, 10.8N, 62.5W, H = 95 Km, M = 4.9 NEAR CST OF VENEZUELA						
		PNS	P	10 09 12					
			S	13 50					
			eL	17.2					
		LPB	eP	10 09 12.5		1.1	11.5	28.3	
			eL <sub>3</sub>	17,3					
OCT	10	LPB	iP	11 20 15.5	D	0.9	445.0	2.7	
			S	20 48					
		PNS	iP	11 20 17.5	D	0.6	127.7	2.9	
			S	20 51.5					
		TRJ	iP	11 20 44.9	D				
OCT	10	PNS	iP	12 59 12.4	D	0.5	23.0	1.6	
			S	59 35					
OCT	10	CCH	P	16 51 36.6	D				
		PNS	P	16 52 22.2		0.5	2.8	2.9	
			S	52 56					
OCT	10	PNS	eP	17 53 08.4				7.2	
			S	54 30.6					
		LPB	e(P)	17 53 25					
OCT	10	USCGS	20 25 37.9, 29.8S, 67.4W, H = 52 Km, M = 4.8 LA RIOJA PROVINCE, ARGENTINA						
		CCH	eP	20 28 32.4					
		LPB	eP	20 28 48				13.3	
			i	28 56.1					
		PNS	eP	20 28 49					
			i	28 58.7					
		CHA	P	20 28 56.4	C				
OCT	10	USCGS	20 28 34, 19.7S, 71.1W, H = 33 Km, M = 4.4 OFF COAST OF N-CHILE						
		PNS	iP	20 29 39.4		1.1	24.3		
			S	30 19					
		LPB	iP	20 29 39.5				4.1	
			i	29 42.7					
		CHA	iP	20 29 39.7	D				
		CCH	eP	20 29 49.8	D				

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	10	LPB	eP	20 36 03.5				5.2	
			S	37 04					
		PNS	eP	20 36 05.8		0.5	6.4		
			(S)	37 08					
CHA	P	20 36 11.5							
CCH	eP	20 36 19.1							
OCT	10	PNS	eP	20 46 16.9				5.3	
			S	47 17.6					
		LPB	eP	20 46 21					
			CHA	eP	20 46 27.2				
OCT	10	LPB	P	20 54 10.4		0.8	9.8	11.9	
			S	56 23.5					
		CHA	eP	20 54 14.0					
		PNS	eP	20 54 20					
OCT	10	PNS	P	20 55 34.1		0.8	7.7	3.3	
			iS	56 13.6					
		CHA	P	20 55 37.0					
OCT	10	USCGS OFF COAST OF N PERU	21 06 51, 10.9S, 71.1W, H = 33 Km, M = 4.2						
			LPB	eP	21 07 56.5				6.5
			eS	09 02					
			PNS	P	21 07 57.0		0.9	4.3	
				i	08 01.8				
				S	09 01.0				
			CHA	P	21 08 02.4				
			CCH	eP	21 08 11.9				
OCT	10	USCGS S ALASKA	21 17 34.5, 57.4N, 136.2W, H = 33 Km, M = 4.8						
			PNS	P	21 30 48.7				
OCT	10	LPB	eP	21 49 31					
			i	49 48.2					
		PNS	eP	21 49 37.4					
			(S)	50 40					
CHA	eP	21 49 46.1							
OCT	10	CHA CCH	P	22 26 39.5				D	
			eP	22 26 46.2					
OCT	10	LPB	eP	23 30 33					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	10	PNS LPB	eP P	23 51 26 23 51 32.5				
OCT	11	USCGS S OF MARIANA IS	01 19 37,	12.4N, 141.7E,	H = 59 Km,	M = 4.3		
		PNS	PKP	01 39 25.5	C	1.0	40.0	
			eL	02 30.2				
		LPB	PKP	01 39 27		1.0	20.0	149.8
		CCH	PKP	01 39 30.2				
OCT	11	PNS LPB	eP eP	02 15 21.7 02 15 25				
OCT	11	LPB	P	03 08 30.5	C	1.1	113.0	5.1
			S	09 30				
		CHA	eP	03 08 32.1				
		PNS	P	03 08 32.7		1.0	128.0	
			(S)	09 43				
		CCH	eP	03 08 35.3				
OCT	11	USCGS	03 30 32,	19.8S, 71.0W,	H = 8 Km,	M = 4.4		
		OFF COAST OF N CHILE						
		PNS	P	03 31 41		0.9	5.2	
			iPn	31 43.0				
			Pg	32 02				
			S	32 00				
		LPB	iP	03 31 43.5	C	1.1	62.0	4.6
			Pn	31 46.6				
			iPg	32 06.5				
			iS	32 46.5				
		CHA	iP	03 31 48.9	D			
		TRJ	P	03 31 07.7	C			
		CCH	P	03 32 54.8	D			
			S	32 59.5				
OCT	11	CHA PNS	P P S	04 06 31.6 04 06 35.0 06 55		0.4	1.9	1.6
OCT	11	CCH	iP	04 10 00.5	D			
OCT	11	USCGS	04 59 05.6,	17.5S, 168.6E,	H = 22 Km,	M = 4.9		
		NEW HEBRIDES IS						
		LPB	ePKP	05 18 27				114.2

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	11	USCGS	05 39 07.1, 29.8S, 71.2W, H = 33 Km, M = 5.3 NEAR COAST OF CENTRAL CHILE					
		TRJ	iP	05 41 45.0	C			
		CCH	P	05 42 22.4	C			
		LPB	P	05 42 26.7	D	1.2	60.0	13.5
			S	44 16				
		PNS	iP	05 42 28.0	D	1.8	86.9	
			S	44 21				
			L	45.2				
		CHA	eP	05 42 28.0				
OCT	11	PNS	eP	06 09 14				
		LPB	eP	06 09 16				
OCT	11	PNS	iP	06 18 17.3	D	0.4	23.0	1.5
			iS	18 36.5				
		CHA	iP	06 18 18.4	D			
		LPB	iP	06 18 19.3	D	0.7	13.0	
OCT	11	USCGS	06 25 55.1, 60.3S, 26.0W, H = 37 Km, M = 5.9 S SANDWICH IS REG					
		TRJ	iP	06 34 26.8	C			
		CCH	iP	06 35 00.0	C			
			S	36 14.8				
		LPB	iP	06 35 12.0	C	1,3	622.0	53.2
			PP	37 27				
			S	42 37				
			SS	46 37				
			L	52.00				
		CHA	iP	06 35 12.4	D			
		PNS	iP	06 35 14.8	C			
			PP	37 30				
			iS	42 46				
			L	52.1				
OCT	11	PNS	P	06 52 36.4		0.8	4.6	
		LPB	eP	06 52 37				
OCT	11	USCGS	06 57 45, 4.9N, 76.0W, H = 101 Km, M = 5.5 COLOMBIA					
		PNS	P	07 02 33.6				
		LPB	eP	07 02 39		1.2	20.7	22.9
		CCH	P	07 02 55.0	D			
OCT	11	USCGS	07 30 04, 44.9N, 111.1W, H = 20 Km, M = 4.0 HEBGEN LAKE REG					
		LPB	eP	07 41 30				73.0
		PNS	C	07 50 55				
				04.4				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	11	LPB	eP	07 49 46		0.8	4.2		
		PNS	eP	07 49 46.7					
			(S)	51 30					
		CCH	eP	07 49 50.2					
OCT	11	USCGS	07 59 41.8, 60.4S, 26.1W, H = 35 Km, M = 5.3						
		S SANDWICH IS REG							
		CCH	iP	08 08 51.4	C				
			S	10 09.4					
		LPB	iP	08 08 58.6	C	1.0	80.0	53.2	
			pP	09 11.0					
			ePP	11 05					
			S	16 28.4					
			eL	25 00					
		PNS	iP	08 09 06.6	C	1.0	130.0		
			ipP	10 15.2					
			i	14 07.0					
			iS	16 33					
			eL	25.1					
OCT	11	LPB	P	09 42 36.5		1.0	12.0		
		CHA	iP	09 42 37.9	C				
		PNS	iP	09 42 48		0.9	8.6		
OCT	11	LPB	eP	09 54 41.5					
		PNS	eP	09 54 52					
			(S)	55 50					
OCT	11	LPB	eP	10 26 24					
OCT	11	LPB	eP	11 06 57					
		PNS	eP	11 06 58.8					
OCT	11	PNS	eP	11 40 06.4					
			(S)	41 06					
		LPB	eP	11 40 10					
OCT	11	USCGS	12 06 16, 13.9N, 120.5E, H = 83 Km, M = 5.2						
		MINDORO, P.I.							
		LPB	ePKP	12 26 19				171.0	
		PNS	ePKP	12 26 20					
OCT	11	PNS	P	14 22 45.6				5.3	
			i	22 49.2					
			S	23 46.5					
		LPB	eP	14 22 48					
			(S)	23 33					
		CHA	P	14 22 49.9					
		CCH	eP	14 22 58.9					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST			
OCT	11	CCH	P	15 58 11.4	C						
		LPB	eP	15 58 41							
			S	59 31.7							
		CHA	P	15 58 47.1	D						
		PNS	eP	15 58 57							
		S	59 44								
OCT	11	LPB	eP	17 36 09		1.4	34.8				
		PNS	iP	17 36 20.0							
OCT	11	PNS	P	18 23 13.7				5.3			
			S	24 15							
		LPB	eP	18 23 16.6							
			eS	24 18							
OCT	11	USCGS	20 40 39.8, 32.6S, 178.7W, H = 33 Km, M = 5.1								
			S OF KERMADEC IS								
		PNS	eP	20 54 07							
			iSKS	21 04 55							
			L	26.2							
		LPB	eP	20 54 10					97.1		
		L	21 26.3								
OCT	11	USCGS	21 14 04, 33.7N, 137.3E, H = 349 Km, M = 4.1								
			NEAR S COAST OF HONSHU, JAPAN								
		PNS	ePKP	21 33 11							
			eL	22 05 00							
	LPB	eL	22 05 00	151.6							
OCT	11	LPB	P	23 01 41.8		0.9	13.6				
OCT	12	USCGS	00 06 37.8, 11.9S, 121.0E, H = 33 Km, M = 5.7								
			S OF TIMOR								
		CCH	iPKP	00 26 23.9					C		
			i	26 30.9							
		PNS	iPKP	00 26 24.8					C	1.2	70.8
			i	26 30.0							
			PP	30 10.2							
			eSS	49 23							
			L	01 18.1							
		LPB	PKP	00 26 25					1.4	76.0	150.2
			i	26 29.8							
			PP	30 10							
	eL	01 17.9									
OCT	12	LPB	eP	00 39 46.2							
		PNS	P	00 39 53							
					1.4	34.8					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	12	USCGS RAT IS, ALEUTIAN IS	02 12	29.1, 51.4N, 179.0E			H = 42 Km, M = 4.4	
		LPB	ePKP	02 31 10				115.7
			eL	03 07 00				
		PNS	eL	03 06.8				
OCT	12	LPB PNS	eP e(P)	03 05 06.5 03 05 07.5		1.0	6.0	
OCT	12	LPB PNS	P iP	03 11 39.7 03 11 43.8	C	0.7 0.6	16.9 21.9	
OCT	12	USCGS S ALASKA	03 19	25.4, 60.5N, 144.4W			H = 33 Km, M = 4.5	
		LPB	eP	03 32 57				97.7
			eL	04 06 00				
		PNS	eL	04 05.7				
OCT	12	USCGS MARIANA IS	03 36	09, 14.0N, 146.6E			H = 33 Km, M = 4.8	
		LPB	ePKP	03 36 05				146.6
		PNS	ePKP	03 36 06				
			eL	04 26.2				
		CCH	ePKP	03 36 11.8				
OCT	12	USCGS KERMADEC IS	04 22	14, 31.2S, 177.8W			H = 14 Km, M = 5.2	
		LPB	eP	04 35 45				97.5
			eSKS	46 28				
			PS	48 43				
			eSS	53 53				
			eL	05 07.7				
		PNS	eP	04 35 50		0.8	5.1	
			SKS	46 33				
			iPS	48 43				
			SS	53 54				
			L	05 07.4				
OCT	12	PNS	iP S	04 39 24.7 39 49.5		0.4	15.2	2.1
OCT	12	PNS LPB	iP S P	05 25 11.0 25 52.5 05 25 16.5	C	0.6 0.4	19.5 11.2	3.5
OCT	12	LPB	eL	06 46 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	12	CCH	P	06 01 22.0	D				
		LPB	P	06 01 36.4	D	0.9	34.0		
		PNS	P	06 01 40.5	D	0.5	6.0		
OCT	12	USCGS	06 52 26, 60.4S, 26.3W, H = 33 Km, M = 5.1 S SANDWICH IS REG						
		CCH	iP	07 01 30.6	D				
		LPB	P	07 01 42.5		1.1	18.4	53.1	
			eL	08 18 00					
		PNS	iP	07 01 45.6	C	1.1	26.9		
			ipP	01 56.4					
			S	08 04					
			eL	17.9					
OCT	12	LPB	P	07 18 02.7		0.7	6.5		
		PNS	iP	07 18 06.8		0.5	7.8		
OCT	12	USCGS	07 30 38.2, 17.2N, 120.2E, H = 59 Km, M = 4.8 LUZON, P.I.						
		PNS	PKP	07 50 43					
			i	50 46.5					
			PKP2	52 15					
			L	08 51 00					
		LPB	PKP	07 50 46.2		1.0	10.0	172.2	
			eL	08 51 00					
OCT	12	USCGS	07 56 59.4, 17.2N, 120.2E, H = 41 Km, M = 5.0 SOLOMON IS						
		LPB	ePKP	08 15 56.5				123.2	
			eL	55 00					
		PNS	eL	08 55.3					
OCT	12	USCGS	08 20 38, 60.4N, 1.5.0W, H = 25 Km, M = 4.4 S ALASKA						
		LPB	eL	09 07 00				97.8	
		PNS	eL	09 07 00					
OCT	12	USCGS	08 59 22.5, 18.0S, 178.4W, H = 600 Km, M = 4.5 FIJI IS REG						
		LPB	eL	09 48 00				102.8	
		PNS	eL	09 48 00					
OCT	12	CCH	P	11 10 55.8	C				
OCT	12	USCGS	11 30 36, 59.9N, 144.8W, H = 33 Km, M = 4.0 GULF OF ALASKA						

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	12	USCGS S OF FIJI IS	12 38 15,	24.5S, 176.4W,	H = 33 Km,	M = 4.4		
		LPB	eP	12 51 49				99.0
			eL	13 25 00				
		PNS	L	13 25.1				
OCT	12	USCGS S SANDWICH IS REG	15 49 08,	60.4S, 26.5W,	H = 33 Km,	M = 5.1		
		CCH	eP	15 58 12.1				
		LPB	P	15 58 24.2		1.0	46.0	53.3
			pP	16 00 32				
			eS	06 07				
			eL	15.7				
		PNS	iP	15 58 27.0	C	1.4	70.0	
OCT	12	LPB	P	16 06 49.5		1.1	36.7	
		PNS	iP	16 06 52.0	C	1.0	31.8	
			i	07 06.9				
			(S)	11 57				
OCT	12	LPB	eP	17 45 10				
			(S)	46 12.5				
		PNS	eP	17 45 10.4		0.5	2.8	5.3
			iS	46 11.0				
		CCH	eP	17 45 28.8				
OCT	12	USCGS PERU-ECUADOR BOR REG	18 27 49,	4.7S, 81.0W,	H = 45 Km,	M = 4.4		
		PNS	iP	18 31 44.1	C	1.6	113.7	
			i	31 57.2				
			PP	32 14.7				
			i	32 27.6				
			L	35.2				
			PcP	36 30				
			i	38 00				
		LPB	P	18 31 47.6		0.9	11.9	17.5
			PP	32 07.5				
			i	32 28.5				
			PcP	36 25				
			eL	35.5				
		CCH	eP	18 32 10.7				
OCT	12	USCGS NEAR COAST OF GUERRERO, MEXICO	18 55 28,	16.7N, 98.8W,	H = 25 Km,	M = 4.6		
		LPB	eP	19 03 40				45.0
			eL	17 00				
		PNS	eS	19 10 20				
			L	17.2				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST					
OCT	12	PNS	eP	20 03 05.1				3.4					
			i	03 10.6									
			S	03 45.5									
		LPB	eP	20 03 15		0.5	11.7	3.4					
			S	03 55									
OCT	12	USCGS	20 20 06.8, 11.2N, 86.2W, H = 43 Km, M = 5.6										
			NEAR COAST OF NICARAGUA										
		PNS	iP	20 26 35.2	C	0.9	8.2						
			ipP	26 49.0									
			S	31 53									
			SSS	34 25									
		LPB	L	36.2									
			eP	20 26 38		0.8	16.8	33.1					
			ipP	26 50									
			eS	31 54									
		CCH	eL	37.6									
			iP	20 26 53.3	C								
OCT	12	USCGS	20 58 20.9, 29.9S, 71.7W, H = 20 Km, M = 4.7										
			NEAR COAST OF CENTRAL CHILE										
		LPB	eP	21 01 36		1.0	18.0	13.4					
			e	01 42									
			S	03 53.5									
		CCH	eP	21 01 36.7									
			eP	21 01 36.9									
		PNS	S	03 52.8									
		OCT	12	USCGS	21 01 40.2, 36.4N, 137.9E, H = 77 Km, M = 4.3								
					HONSHU, JAPAN								
				LPB	ePKP	21 21 13				149.4			
eL	22 12 00												
PNS	PKP			21 21 23.8		1.2	11.7						
	L			22 11.7									
OCT	12			LPB	e(P)	22 27 11							
					S	27 33.5							
				PNS	iP	22 27 13.3	D			2. 1			
					iS	27 38.2							
				OCT	13	USCGS	02 15 45.2, 59.5N, 145.2W, H = 10 Km, M = 5.0						
							GULF OF ALASKA						
PNS	eP	02 29 12.6		1.3	9.3								
	L	03 03.1											
LPB	eP	02 29 17				07.8							
	eL	03 02 00											

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	13	USCGS	02 37 55, 15.0N, 105.8W, H = 33 Km, M = 4.2 W OFF COAST OF MEXICO						
		PNS	eP	02 46 36.2		1.8	43.0		
			eL	03 02.2					
		LPB	P	02 46 40	C	1.1	16.0	49.0	
			eS	53 30					
			eL	03 02 00					
		CCH	eP	02 46 53.4					
OCT	13	CCH	P	04 21 39.6	C				
		LPB	P	04 21 43.5		0.8	7.0		
			(eS)	22 14					
		PNS	P	04 21 45.1		0.6	3.3		
			e	23 20.4					
OCT	13	USCGS	05 06 34, 22.8N, 143.6E, H = 33 Km, M = 4.5 E VOLCANO IS REG						
		PNS	iPKP	05 26 18.6	D	1.0	9.4		
			L	06 17 00					
		LPB	PKP	05 26 19.2	C	0.9	10.2	149.5	
OCT	13	LPB	eP	05 31 36.5					
		PNS	P	05 31 47.8					
OCT	13	USCGS	05 26 46, 59.6N, 145.2W, H = 33 Km, M = 4.2 GULF OF ALASKA						
		PNS	eP	05 40 21					
			eL	06 14 00					
		LPB	eP	05 40 29.5				97.8	
OCT	13	LPB	eP	06 31 21					
		PNS	P	06 31 26.4					
OCT	13	USCGS	08 31 19.7, 5.6N, 79.8W, H = 33 Km, M = 3.9 S OF PANAMA						
		PNS	P	08 36 36.8		0.9	6.1		
			L	43.3					
		LPB	eP	08 36 40				25.2	
			eL	43 00					
OCT	13	LPB	P	09 57 12		0.8	4.2		
		PNS	eP	09 57 15					
OCT	13	PNS	eP	10 12 17.6					
		LPB	eP	10 12 25.6					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	13	CCH	P	11 32 41.4	D				
		TRJ	iP	11 32 46.6	D				
		LPB	eP	11 32 55				3.9	
			S	33 41					
		PNS	P	11 33 00.4				4.5	
			eS	33 53					
OCT	13	PNS	eL	12 13.9					
		LPB	eL	12 14 00					
OCT	13	CCH	eP	12 54 24.4					
		LPB	eP	12 54 31					
			eS	13 01 45					
			eL	12 00					
		PNS	eP	12 54 42					
OCT	13	USCGS TIBET		12 42 42, 31.1N, 80.1E, H = 33 Km, M = 5.3					
		LPB	ePKP	13 02 26				147.4	
			eL	53 00					
		PNS	ePKP	13 02 26		1.1	9.0		
			eL	53 00					
OCT	13	USCGS PERU-BRAZIL BOR REG		15 45 15.6, 8.8S, 74.3W, H = 155 Km, M = 5.3					
		PNS	iP	15 47 28.9	C	0.9	82.0		
			iS	49 15					
			eL	50.4					
		LPB	iP	15 47 34.6	C	0.7	117.0	9.9	
			e	47 49					
		CCH	iP	15 47 57.3	C				
OCT	13	USCGS S PACIFIC CORDILLERA		17 23 42, 54.0S, 133.9W, H = 33 Km, M = 4.9					
		LPB	P	17 34 05		1.0	20.0	62.8	
			iPP	36 14					
			eL	54 00					
		PNS	iP	17 34 05.2	D	1.3	37.6		
			pP	34 15.1					
			iPP	36 13.0					
			S	42 25					
			L	53.4					
		CCH	P	17 34 07.2	D				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	13	USCGS	17 28 41, 54.0S, 133.6W, H = 33 Km, M = 4.7 S PACIFIC CORDILLERA						
		TRJ	iP	17 38 46.2					
		PNS	P	17 39 03.3		1.6	59.5		
			pP	39 13					
			L	57.6					
		LPB	eP	17 39 04				62.8	
			eL	18 01 00					
		CCH	eP	17 39 04.4					
OCT	13	LPB	e(PKP)	19 04 08					
			eL	43 00					
		PNS	eP	19 04 24.6					
			L	44.3					
OCT	13	LPB	eP	21 53 18					
		PNS	iP	21 53 23.1	D	0.5	3.8	1.1	
			S	53 45.8					
OCT	13	PNS	iP	23 32 33.4	D	0.6	10.9	1.8	
			S	32 55.4					
		LPB	P	23 32 35					
OCT	14	USCGS	01 04 43.3, 36.4N, 87.5E, H = 24 Km, M = 5.2 S SINKIANG PROVINCE, CHINA						
		PNS	PKP	01 24 30.3		1.7	44.4		
			ipPKP	24 39.0					
			ePP	28 07.4					
			eSS	47 27					
			L	02 15 00					
		LPB	e(PKP)	01 24 31		1.4	20.0	150.2	
			(pPKP)	24 44.5					
			PP	28 04					
			eSS	47 33					
			eL	02 15 00					
		CCH	ePKP	01 24 33.8					
OCT	14	USCGS	01 11 52, 39.4N, 80.2E, H = 33 Km, M = 4.8 S SINKIANG PROVINCE, CHINA						
		PNS	ePKP	01 31 28.5					
			SS	53 33					
			eG	02 11 24					
			eL	20 00					
		LPB	ePKP	01 31 30.5				144.0	
			eL	02 20 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	14	USCGS	01 49 28, 19.2N, 67.9W, H = 43 km, M = 4.6 MONA PASSAGE					
		LPB	eP	01 56 20		1.1	18.4	36.0
			eL	02 07 00				
		PNS	P	01 56 20.0		1.5	23.8	
			iPP	57 52.0				
			eS	02 02 02				
			L	07 00				
		CCH	P	01 56 28.9	D			
OCT	14	CCH	eP	02 28 00.8				
		PNS	eP	02 28 00.4				
		LPB	eP	02 28 01				
OCT	14	USCGS	02 32 32, 15.1S, 173.5W, H = 33 Km, M = 4.8 TONGA IS					
		PNS	eP	02 45 13				
			L	03 19.5				
		LPB	eP	02 45 14				99.8
			L	03 19.5				
OCT	14	USCGS	02 34 54, 23.2S, 179.8W, H = 456 Km, M = 4.8 S OF FIJI IS					
		LPB	eP	02 47 58				102.4
			eL	03 23 00				
		PNS	eL	03 23 00				
OCT	14	LPB	eP	03 14 29				
		PNS	eP	03 14 33				
OCT	14	PNS	P	04 00 20.8	D			1.8
			S	00 42.5				
		LPB	P	04 00 21.6		0.8	5.6	
OCT	14	LPB	eP	04 21 14		1.2	7.8	
			i	21 19.5				
		CCH	P	04 21 18.4	C			
		PNS	P	04 21 19.9	C	1.2	28.3	
OCT	14	LPB	iP	06 50 32.0		0.9	15.3	
		PNS	iP	06 50 32.1	D	0.9	17.1	
		CCH	P	06 50 32.7	C			
OCT	14	CCH	P	07 03 27.9	D			
		LPB	eP	07 04 03				2.4
			S	04 32.5				
		PNS	P	07 04 11.7				2.9
			S	04 45.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	14	LPB	eP	07 30 01		0.9	6.8	
			i	30 12.5				
			(S)	31 12				
		PNS	eP	07 30 04.6				6.1
			i	30 07.6				
			S	31 15				
		CCH	eP	07 30 17.2				
OCT	14	PNS	P	08 06 06.4				2.9
			S	06 41				
		LPB	eP	08 06 09				
OCT	14	LPB	eP	08 41 18		1.0	8.0	
			i	41 25				
		PNS	eP	08 41 21.8				2.3
			S	41 49.4				
OCT	14	USCGS SOLOMON IS	09 17 18.4, 9.0S, 158.7E, H = 28 Km, M = 5.0					
		LPB	ePKP	09 36 24				127.2
			eL	10 17 00				
		PNS	SS	09 55 27				
			eL	10 17 00				
OCT	14	LPB	eP	10 09 43		0.8	4.2	
			S	12 51				
		PNS	eP	10 09 52.6				
OCT	14	CCH	P	10 11 19.5	D			5.0
			LPB	eP	10 11 54			
				S	12 51			
		PNS	eP	10 11 54.9				
			(S)	12 50				
OCT	14	LPB	eP	11 55 46		0.9	13.6	2.1
			S	56 11.2				
		PNS	iP	11 55 46.3	D	0.4	25.0	2.1
			S	56 11.6				
OCT	14	PNS	iP	15 59 55.5	D	0.3	22.0	1.8
			S	16 00 18.4				
			CHA	iP	15 59 57.9			D
			LPB	eP	15 59 58			
	S	16 00 22						

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	14	PNS	iP	17 39 57.0	D	0.5	4.1	4.1
			i	40 02.0				
			S	40 44.8				
		CHA	iP	17 39 59.8	D	0.7	10.4	5.0
		LPB	P	17 40 02.5				
			i	40 08				
		eS	40 59.5					
		CCH	eP	17 40 39				
OCT	14	USCGS 18 02 15, 48.8N, 127.4W, H = 33 Km, M = 4.1 VANCOUVER IS REG						
		PNS	P	18 14 40	0.9	6.3		
			eS	25 05				
			L	18 42.4				
		LPB	eL	18 42 00			84.2	
OCT	14	LPB	eP	19 04 10.5	1.0	12.0	9.1	
			S	05 52.2				
		PNS	eP	19 04 45.5	5.5			
			S	05 48.6				
OCT	14	LPB	eP	20 10 09	0.6	3.6		
			PNS	eP			20 10 11.0	
			(S)	10 45.8				
OCT	14	CCH	eP	20 19 19.6	D	0.7	5.2	
		LPB	P	20 19 23				
		CHA	P	20 19 25.9				
		PNS	P	20 19 27.0				
OCT	14	LPB	e(P)	20 26 25				
			S	27 24				
		PNS	eP	20 26 35.6				5.9
			e	26 56.7				
			S	27 43				
OCT	14	LPB	P	21 26 21	0.9	11.9		
			CHA	eP			21 26 23.0	
		PNS	eP	21 26 23.7				
OCT	14	PNS	P	21 28 25.4	C		3.2	
			S	29 04				
		CHA	P	21 28 27.2				
			(PG)	28 33.0				
		LPB	P	21 28 28				3.3
			(Pg)	28 34.7				
			eS	29 07.5				
	CCH	eP	21 28 36.3					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	14	USCGS W BRAZIL	22 42 51,	6.8S, 71.2W,	H = 631 Km,	M = 3.9		
		PNS	eP	22 45 08.8		0.7	5.9	
			S	47 01				
			eL	47.2				
		LPB	eP	22 45 10		0.8	9.8	10.3
			S	47 08.5				
		CCH	P	22 45 26.2	D			
OCT	15	CHA	iP	01 20 51.6	D			
		PNS	iP	01 20 53.0	D	0.4	19.7	0.5
			iS	21 01.2				
		LPB	iP	01 20 55.7		0.6	16.8	1.1
			i	21 05.5				
			S	21 10				
OCT	15	LPB	eP	02 25 33		1.0	10.0	
		PNS	P	02 25 56.8		1.0	7.7	
OCT	15	LPB	P	03 04 30		0.9	6.8	
		PNS	P	03 04 44.3		0.4	2.0	5.0
			eS	05 42				
OCT	15	LPB	eP	05 12 48				
		PNS	eP	05 12 55		0.7	3.4	
OCT	15	LPB	P	05 35 04		1.0	8.0	
		PNS	eP	05 35 04.3				
OCT	15	LPB	P	05 55 30.5		0.6	13.2	5.5
			i	55 00				
			eS	56 34				
		PNS	P	05 55 31.1		0.5	12.6	4.8
			S	56 26				
		CHA	P	05 55 36.4				
		CCH	eP	05 55 41.4				
OCT	15	SCS	iP	06 14 50.9	D			2.8
			S	15 23.2				
OCT	15	USCGS OFF COAST OF N CHILE	06 25 37,	19.9S, 71.1W,	H = 33 Km,	M = 4.3		
		PNS	eP	06 26 44.2		1.0	6.4	
			iPn	26 48.4				
			iS	27 46.0				
		LPB	P	06 26 44.5		1.0	8.0	4.5
			Pn	26 48.2				
			iS	27 52.5				
		CHA	eP	06 26 53.1				
		CCH	P	06 26 59.8	D			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	15	PNS	eP S	07 48 20 48 43				1.9	
OCT	15	PNS	iP iS	16 18 18.9 18 48.4	C			2.4	
		CHA LPB	iP P	16 18 21.5 16 19 00	C	0.6	3.6		
OCT	15	USCGS	18 00 07.3, 41.8N, 142.9E, H = 61 Km, M = 5.1 HOKKAIDO, JAPAN REG						
		LPB	ePKP	18 19 37				143.8	
		PNS	PKP	18 19 37.9		1.2	12.4		
			eSKS	26 40					
			L	48.7					
		CCH	PKP	18 19 40.8					
OCT	15	PNS	eP S	20 13 07.2 13 32.8				2.1	
		LPB	P	20 12 15.5		1.0	16.0		
OCT	15	PNS	eP S	20 15 09 15 32.2				1.9	
		LPB	eP	20 15 14					
OCT	15	LPB	P S	20 20 50 21 06		0.9	8.5	1.3	
		PNS	eP S	20 21 00 21 22.7				1.9	
OCT	15	USCGS	20 34 54, 23.6S, 175.4W, H = 48 Km, M = 4.6 TONGA IS						
		PNS	L	21 20.9					
		LPB	eL	21 21 00				98.8	
OCT	15	PNS	iP S	21 18 02.0 18 47		0.6	3.2	3.8	
OCT	15	LPB	eP	21 35 49					
		PNS	eP S	21 35 52.8 36 18.4				2.1	
OCT	15	PNS	iP S	21 43 37.7 44 00.4	D	0.3	29.0	1.9	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	15	LPB	eP	23 45 03					
		PNS	eP	23 45 48				2.2	
			S	46 14.4					
OCT	16	LPB	eP	00 50 00					
			eS	50 30.5					
		PNS	P	00 50 00.4				2.8	
			S	50 33.0					
OCT	16	PNS	eP	00 50 00				2.8	
			S	50 32.7					
		LPB	eP	00 50 02				2.5	
			i	50 22					
OCT	16	TRJ	iP	01 20 30.8	D			2.3	
			iS	20 59.5					
		<del>CCH</del>	iP	01 20 54.3	D				
			iS	21 43.3					
		LPB	iP	01 21 08		1.0	24.0	5.0	
			S	22 06.5					
		PNS	iP	01 21 12.0	D	0.8	8.9	5.4	
		S	22 14.5						
OCT	16	PNS	eP	03 04 25.5				2.0	
			S	04 49.7					
		LPB	P	03 04 31		1.0	8.0		
OCT	16	LPB	P	04 23 45.2		0.8	8.4		
		PNS	eP	04 23 46					
OCT	16	LPB	eP	05 10 13					
		PNS	eP	05 10 15				1.6	
			S	35 00					
OCT	16	LPB	eP	05 47 14					
		PNS	e(P)	05 47 16					
OCT	16	PNS	eP	06 00 42.4					
		LPB	P	06 00 56		1.0	10.0		
OCT	16	USCGS	06 48 38.6, 19.7S, 70.4W, H = 45 Km, M = 5.0						
			NEAR COAST OF N CHILE						
		TRJ	iP	06 49 10.5	C				
		LPB	iP	06 49 44.2	C	1.3		4.3	
			i(Pn)	49 48.5					
			S	50 18					
		PNS	iP	06 49 44.6	C	1.3	164.6		
			i(Pn)	49 47.6					
			S	50 00					
		CCH	P	06 49 56.2	C				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	16	TRJ	P	07 58 23.2	C				
OCT	16	CCH	eP	08 07 12.1					
		PNS	iP	08 06 46.1	C	1.6	30.6	2.9	
			iS	07 20.2					
		LPB	eP	08 06 46.5					
			(S)	07 18.5					
OCT	16	LPB	eP	08 54 44					
			(S)	55 50					
		PNS	eP	08 54 50.4		0.6	5.4	5.2	
			S	55 50					
OCT	16	USCGS	09 13 31, 29.6N, 142.4E, H = 56 Km, M = 5.5						
		S OF HONSHU, JAPAN							
		PNS	PKP	09 33 12		1.7	49.5		
			i	33 17.0					
			eL	10 24 00					
		LPB	PKP	09 33 12.7	D	1.2	60.0	149.2	
			i	33 16.7					
			eL	10 24 00					
		CCH	PKP	09 33 21.9	D				
OCT	16	USCGS	09 26 36.5, 30.0N, 68.6E, H = 33 Km, M = 4.9						
		W PAKISTAN							
		LPB	ePKP	09 46 02				138.4	
			eL	10 32 00					
		PNS	PKP	09 46 02		1.1	5.4		
			eL	10 32 00					
OCT	16	PNS	P	09 51 28.3	D	0.5	4.4		
OCT	16	LPB	eP	09 51 51					
			i	52 02					
		PNS	eP	09 51 52.8					
OCT	16	LPB	eP	11 24 49					
			i	24 44.2					
		PNS	eP	11 24 58.8					
			i	25 47.8					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	16	USCGS S SANDWICH IS REG	12 55	30.8, 56.1S, 27.1W,	H = 101 Km, M = 5.6			
		TRJ	iP	13 03 36.3	C			
		CCH	iP	13 04 04.7	C			
		LPB	iP	13 04 17.6	C	0.9	455.0	50.2
			S	11 19				
			eL	20 00				
		PNS	iP	13 04 22.3	C	1.1	563.0	
			i	05 39.6				
			S	11 18.7				
			L	19.2				
OCT	16	CCH PNS	P iP iS	13 09 13.4 13 09 23.0 14 02	C C	0.8	11.5	28.0
OCT	16	USCGS NEW IRELAND REG	13 18	20, 4.8S, 153.2E,	H = 105 Km, M = 5.3			
		PNS	ePKP L	13 37 28 14 24 00				
		LPB	eL	14 22 00				135.9
OCT	16	PNS LPB	eP S eP (eS)	13 59 11.8 14 00 13 13 59 14 14 00 13.2		0.7 0.8	3.8 7.8	5.3
OCT	16	USCGS PERU	15 18	16, 8.8S, 75.8W,	H = 55 Km, M = 4.2			
		PNS	eP S	15 20 44 23 44.6				
		LPB	eP S	15 20 49.2 23 47				10.8
OCT	16	PNS LPB	eP S eP	15 31 42.4 32 40.6 15 31 50				5.0
OCT	16	PNS LPB CCH	iP iS iP (S) eP	15 33 02.0 33 29 15 33 05.8 33 36 15 33 38.2		0.6 1.1	3.8 9.0	2.3
OCT	16	PNS LPB	eP eP i	18 41 01 18 41 02 41 40				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	16	LPB PNS	P eP	19 17 12 19 17 13		0.8	8.4	
OCT	16	PNS LPB CCH	eP eS P eP	20 54 25 55 22 20 54 34.5 20 54 53.4		1.0	20.0	
OCT	16	LPB PNS	eP iP S	21 01 54.5 21 02 03.4 02 25		0.4	5.5	1.8
OCT	16	LPB PNS	P e e(P)	21 14 39 15 19.2 21 14 41		0.9	6.8	
OCT	16	LPB CCH PNS	P i eP eP	21 24 46.5 25 31 21 24 47.7 21 24 57	D	0.5	3.9	
OCT	16	USCGS	22 19 17.9, 19.9S, 71.0W, H = 33 Km, M = 3.8 OFF COAST OF N CHILE					
		LPB	P iPn Pg S	22 20 24 20 29 20 36.2 21 33.5		1.3	11.2	4.3
		PNS	eP iPn S	22 20 25.3 20 29.0 21 31.0		0.9	3.9	
		CCH	eP	22 20 27.8				
OCT	16	USCGS	22 22 40, 34.2N, 136.8E, H = 356 Km, M = 3.7 S HONSHU, JAPAN					
		LPB PNS	ePKP PKP	22 42 05 22 42 05.7		1.0	9.2	
OCT	16	LPB	eP	22 46 47.5		1.0	12.0	
OCT	17	PNS LPB CCH	eP S P e(S) eP	00 27 18.8 28 15 00 27 19 28 12.5 00 27 25.4		0.9	8.5	4.9
OCT	17	LPB PNS	eP eP	01 26 12 01 26 18.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	17	LPB	P	02 08 14.7		1.0	16.0		
		PNS	iP	02 08 14.8	D	0.8	15.8		
		CCH	P	02 08 19.4	C				
OCT	17	PNS	eP	02 48 54					
		LPB	e(P)	02 48 58					
OCT	17	TRJ	eP	03 51 47.0	C				
		LPB	iP	03 52 30.5		1.1	46.8		
			i	53 06.7					
		PNS	P	03 52 32.2	D	0.9	16.9	3.7	
			S	53 15					
	CCH	eP	03 52 33.8						
OCT	17	USCGS	03 57 51.9, 11.1S, 166.7E, H = 55 Km, M = 4.9						
			SANTA CRUZ IS						
		LPB	ePKP	04 16 29				119.4	
		eL	53 00						
		PNS	L	04 54 00					
OCT	17	PNS	iP	05 40 44.8	C	1.0	17.7	5.3	
			S	41 45.5					
		LPB	P	05 40 51.5		0.9	5.1		
OCT	17	CCH	P	07 37 47.7	C				
OCT	17	USCGS	07 30 07.1, 23.5S, 180.0W, H = 497 Km, M = 5.1						
			S OF FIJI IS						
		PNS	P	07 43 03.6					
		eL	08 18 00						
		LPB	eL	08 18 00				102.3	
OCT	17	USCGS	10 15 40.6, 11.0S, 166.7E, H = 55 Km, M = 5.5						
			SANTA CRUZ IS						
		LPB	ePKP	10 34 29				119.4	
			eSS	52 12					
			eL	11 11 00					
		PNS	ePKP	10 34 31.7		1.0	5.2		
	i	35 49.2							
	L	11 11.7							

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	17	USCGS PERU	11 11	55.3, 13.5S, 74.6W, H = 106 Km, M = 4.7				
		PNS	iP	11 13 32.5	C	1.3	136.7	
			i	13 43.7				
			iS	14 28.5				
		LPB	P	11 13 38		1.0	36.0	6.8
			S	13 48.5				
		CCH	P	11 14 03.9	C			
OCT	17	USCGS SOLOMON IS	12 35	59.8, 10.4S, 161.1E, H = 77 Km, M = 5.1				
		LPB	ePKP	12 54 50				124.1
			eL	13 35 00				
		PNS	PKP	12 54 52.0		0.6	2.5	
OCT	17	USCGS UNIMAK IS REG	13 09	40.2, 53.2N, 163.8W, H = 33 Km, M = 4.9				
		PNS	P	13 23 50.9				
		LPB	eP	13 23 51				106.8
			eL	14 00 00				
OCT	17	USCGS SANTA CRUZ IS	13 48	54.3, 11.2S, 166.8E, H = 33 Km, M = 4.8				
		PNS	PKP	14 07 43.0		0.8	2.9	
		LPB	eL	14 46 00				119.3
OCT	17	USCGS TONGA IS	14 40	42.5, 21.0S, 175.4W, H = 8 Km, M = 4.9				
		PNS	P	14 54 15.6				
			pP	54 28				
		LPB	eL	15 28 00				99.2
OCT	17	LPB	P	15 19 09.5		0.7	5.2	
		PNS	P	15 19 33.0				1.8
			S	19 54.6				
OCT	17	PNS	iP	15 47 19.9	D			0.6
			S	47 29.0				
		LPB	eP	15 47 20				
			(S)	48 30				
OCT	17	PNS	iP	16 50 17.8	C	0.5	23.6	2.1
			S	50 43				
		LPB	P	16 50 22.5		.5	15.6	2.5
			i	50 25.5				
			S	50 53				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	17	PNS	iP	16 52 40.0	D	0.5	8.9	2.2
			S	53 06				
		LPB	iP	16 52 46.2		1.0	8.0	2.3
			S	53 14.5				
OCT	17	PNS	P	17 43 57.6		1.1	6.6	
OCT	17	PNS	P	18 28 11.2		0.7	8.2	
OCT	17	USCGS S OF FIJI IS		18 20 07.8, 22.3S, 179.1E, H = 35 Km, M = 5.0				
		LPB	eL	19 09 00				103.4
OCT	17	PNS	eP	18 42 25				1.6
			S	42 45.0				
		LPB	eP	18 52 24.5		1.0	4.0	
OCT	17	CCH	iP	19 41 14.3	D	0.8	21.0	3.0
		LPB	P	19 41 17.2				
			S	41 52.5	C	0.5	11.8	3.1
		PNS	iP	19 41 21.5				
		S	41 58.0					
OCT	17	PNS	eP	19 51 23				
		LPB	eP	19 51 33				
			i	51 43.6				
OCT	17	USCGS NEW GUINEA		20 29 02, 4.2S, 143.4E, H = 100 Km, M = 5.1		1.0	5.1	142.1
		PNS	ePKP	20 48 21.4				
		LPB	ePKP	20 48 24				
			eL	21 35 00				
OCT	17	USCGS CENTRAL MID ATLANTIC RIDGE		21 00 48, 8.2N, 39.4W, H = 33 Km, M = 4.5				
		LPB	P	21 08 02.5				
			eL	19 00		1.0	50.0	38.0
		PNS	iP	21 08 03.7	C	0.7	59.0	
OCT	17	USCGS NEAR COAST OF PERU		21 41 56.3, 10.7S, 78.7W, H = 38 Km				
		PNS	P	21 44 34.5				
			i	44 42.0				
		LPB	eP	21 44 41.6				
			i	44 44		1.0	34.0	11.4
		CCH	eP	21 45 08.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	17	USCGS	22 26 42, 10.6S, 78.7W, H = 33 Km, M = 5.1					
		NEAR COAST OF PERU						
		PNS	eP	22 29 20				
OCT	17	PNS	eP	22 40 54				
OCT	17	PNS	eP	22 49 03.6				
OCT	17	PNS	P	22 49 08.2				
OCT	17	USCGS	23 04 22.1, 10.5S, 78.6W, H = 39 Km, M = 5.2					
		NEAR COAST OF PERU						
		PNS	P	23 07 02.4		0.6	9.9	
			i	07 09.6				
			S	09 04				
		LPB	P	23 07 11.2				11.4
			i	07 14.5				
			S	09 10				
		PNS	P	23 07 02.4		0.6	9.9	
			i	07 09.6				
			S	09 04				
OCT	17	PNS	P	23 11 54.5		1.2	31.0	
OCT	17	USCGS	23 32 37.7, 10.6S, 78.8W, H = 33 Km, M = 5.0					
		NEAR COAST OF PERU						
		PNS	P	23 35 22.0		1.4	60.3	
			S	38 20				
		LPB	P	23 35 27.2		1.0	8.0	11.4
			S	35 36.2				
OCT	17	PNS	eP	23 49 09.5				
OCT	17	USCGS	23 46 51.6, 10.0S, 79.6W, H = 4.6; M = 4.9					
		OFF COAST OF PERU						
		PNS	eP	23 49 49.6				
			i	49 50.0				
			S	51 57				
		LPB	eP	23 49 52.5				12.3
			i	50 03.4				
OCT	17	PNS	iP	23 52 56.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	CCH	eP	00 18 02.5	D	0.9	13.6	5.2
		LPB	P	00 18 33.5				
		PNS	P	00 18 35.6				
			S	19 36				
OCT	18	USCGS 01 03 43, 10.8S, 78.9W, H = 33 Km, M = 4.5 NEAR COAST OF PERU						
		PNS	P	01 06 31.3	1.0	21.7		
		LPB	eP	01 06 35			12.1	
			S	08 39				
OCT	18	CCH	eP	01 07 00.1				
		CCH	iP	01 41 25.0	C		7.1	
			S	42 45.5				
		LPB	eP	01 41 55		5.7		
i	42 05							
OCT	18	PNS	iS	43 00.5	D		5.0	
			iP	01 41 59.2				
		iS	42 56.4					
OCT	18	USCGS 01 53 41, 10.4S, 78.9W, H = 33 Km, M = 4.2 NEAR COAST OF PERU						
		PNS	eP	01 56 32	1.0	8.9		
			eS	58 44				
		LPB	eP	01 56 35		12.1		
OCT	18	USCGS 01 56 15, 10.6S, 79.0W, H = 33 Km, M = 4.5 NEAR COAST OF PERU						
		PNS	P	01 59 06.8	D	1.0	12.8	12.1
		LPB	P	01 59 07.8		1.0	16.0	
		CCH	eP	01 59 40.3				
OCT	18	LPB	eP	02 53 07.5				
		PNS	P	02 53 09.4	C	0.9	6.7	
		CCH	P	02 53 14.6				D
OCT	18	PNS	eP	03 16 18			17.5	
			S	19 34.3				
		LPB	eP	03 16 31				
OCT	18	CCH	P	03 28 31.9	C		1.9	
			S	28 55.0				
		PNS	P	03 29 17		3.0		
			eS	29 52				
OCT	18	LPB	eP	03 43 51				
		PNS	P	03 43 53.8	0.9	5.6		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	18	USCGS	04 03 09, 23.2S, 179.3E, H = 520 Km, M = 4.8 S OF FIJI IS						
		LPB	eL	04 52 00				103.3	
OCT	18	PNS	eP	04 23 27.4					
		LPB	eP	04 23 34					
OCT	18	USCGS	04 42 56, 11.3S, 78.5W, H = 33 Km, M = 4.3 OFF COAST OF PERU						
		PNS	eP	04 45 34					
			i	45 46.8					
			S	47 40					
		LPB	eP	04 45 40				11.5	
			i	45 56.2					
			S	47 49					
		CCH	eP	04 47 01.7					
OCT	18	PNS	eP	05 14 02.8					
		LPB	eP	05 14 04					
OCT	18	PNS	iP	05 24 04.2	D	0.4	5.4		
			i	24 06.4					
OCT	18	LPB	eP	06 11 36					
		PNS	eP	06 11 36					
OCT	18	LPB	eP	06 31 28					
		PNS	P	06 31 46.2		0.8	4.9		
OCT	18	LPB	eP	06 41 08.5					
		PNS	P	06 41 22.9		0.7	4.2		
OCT	18	PNS	eP	07 42 10		1.0	6.4		
		LPB	eP	07 42 17		0.9	3.4		
		CCH	eP	07 42 44.6					
OCT	18	USCGS	07 40 51.6, 27.1S, 71.2W, H = 33 Km, M = 4.5 NEAR COAST OF N CHILE						
		LPB	P	07 43 24				10.8	
			eS	45 59					
		CCH	eP	07 43 27.1					
			S	43 38.4					
		PNS	eP	07 43 28.7		1.0	7.7		
			i	43 49.3					
			eS	45 20					
			i	46 15.0					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	PNS	eP	08 19 21.9		0.5	2.4	2.2
			S	19 47.8				
		LPB	P	08 19 25.4		1.0	12.0	
OCT	18	LPB	e(P)	08 26 03.5				
			i	26 09.7				
		PNS	P	08 26 08				
			i	26 11.0				
OCT	18	USCGS	08 26 07.7, 10.6S, 79.5W, H = 30 Km, M = 4.9 NEAR COAST OF PERU					
		PNS	P	08 29 01.5		0.9	5.6	
			i	29 27.0				
			S	31 16				
		LPB	P	08 29 08.2		1.0	6.0	12.2
			i	29 29.2				
			eS	31 22				
		CCH	P	08 29 34.4	C			
OCT	18	PNS	IP	08 44 33	D	0.5	23.6	1.9
			S	44 56.6				
		LPB	P	08 44 33.2		0.8	5.6	
			i	44 53.5				
		CCH	P	08 44 49.4	C			
OCT	18	PNS	iP	08 58 48.3	D	0.6	11.4	1.7
			S	59 09.8				
		LPB	iP	08 58 50.4		0.9	8.5	1.9
			S	59 13				
OCT	18	USCGS	08 59 56, 10.4S, 78.7W, H = 24 Km, M = 4.0 NEAR COAST OF PERU					
		LPB	eP	09 02 48				11.6
		PNS	eP	09 02 49				
			eS	04 50				
OCT	18	PNS	eP	10 06 14.4				2.5
			i	06 21.5				
			S	06 44.8				
		LPB	eP	10 06 16				
			i	06 22.5				
		CCH	eP	10 06 28.7				
OCT	18	LPB	eP	10 25 38				2.2
			eP	10 26 05.8				
		PNS	S	26 31.4				
OCT	18	PNS	eP	10 29 40.6				
				29 48.2				
				0 29 44				
				29 53				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	18	USCGS	11 02 03.8, 10.8S, 79.2W, H = 33 Km, M = 4.6 OFF COAST OF PERU						
		PNS	eP	11 04 50		1.0	10.4		
			i	05 00.4					
			S	07 05					
		LPB	P	11 05 00.5		1.0	12.0	11.7	
			S	07 07					
			L	09.7					
		CCH	eP	11 05 23.4					
			S	07 09.5					
OCT	18	CCH	P	11 46 25.8	D				
OCT	18	PNS	eP	11 55 40					
			e	55 51.6					
		LPB	eP	11 55 41		1.2	23.4		
OCT	18	PNS	P	12 38 18.6				2.2	
			i	38 21.5					
			S	38 44.7					
		LPB	eP	12 38 20					
OCT	18	LPB	eP	12 43 18					
			i	43 35					
		CCH	P	12 43 29.9	C				
		PNS	P	12 43 31.7	C	0.9	6.7	2.1	
			i	43 36.0					
			S	43 57					
OCT	18	USCGS	12 52 14.6, 10.9S, 79.1W, H = 33 Km, M = 4.7 OFF COAST OF PERU						
		PNS	eP	12 55 01		1.0	6.9		
			i	55 10.2					
			S	57 16					
		LPB	eP	12 55 11.2		1.0	16.0	12.1	
			S	57 08.2					
		CCH	eP	12 55 34.9					
OCT	18	PNS	eP	13 59 05.6				2.5	
			S	59 35.6					
OCT	18	USCGS	15 04 49, 36.7N, 138.0E, H = 33 Km, M = 4.3 HONSHU, JAPAN						
		LPB	ePKP	15 24 33.5				149.4	
			eL	16 15 00					
		PNS	ePKP	15 24 34.4		1.4	11.1		
			eL	16 15 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	PNS	eP S	16 24 35.4 25 00.7				2.1
OCT	18	PNS	P S	16 31 44.7 32 09.6		0.3	2.4	2.1
		LPB	P	16 31 50.5		1.1	33.5	
OCT	18	PNS	eP eS	16 36 18.6 37 17				
OCT	18	PNS LPB	P eP	17 14 44.5 17 14 45		0.7	3.0	
OCT	18	LPB PNS	eP P	17 15 21 17 15 21		1.4	22.8	
OCT	18	USCGS MARIANA IS REG	17 43	16.2, 15.1N, 147.9E, H = 33 Km, M = 4.7				
		PNS	PKP	18 02 54		1.5	35.0	
		LPB	ePKP eL	18 02 55 52 00		1.2	13.0	145.3
OCT	18	PNS	eP e	18 40 24.8 41 57				
		LPB	eP	18 40 26				
		CCH	eP	18 40 59.8				
OCT	18	PNS	eP iS	18 45 40 46 06.2				2.2
		LPB	P	18 45 42.2		1.0	16.0	
OCT	18	USCGS COLOMBIA	18 43	34.9, 3.6N, 74.2W, H = 47 Km, M = 4.8				
		PNS	P i iS	18 48 11.0 48 20.0 51 55		1.6	49.4	
		LPB	iP i eS	18 48 15.5 48 22.8 52 09		1.2	44.2	20.8
		CCH	P iS	18 48 32.7 52 56.2	D			
OCT	18	PNS	P S	19 43 23.6 43 46.6				1.9
		LPB	P	19 43 30				
OCT	18	USCGS SANTA CRUZ IS	20 06	51, 10.8S, 166.8E, H = 33 Km, M = 4.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	USCGS SANTA CRUZ IS	20 06 51,	10.8S, 166.8E,	H = 33 Km,	M = 4.8		
		PNS	PKP	20 25 41				
			L	21 01.5				
		LPB	eL	21 02 00				119.3
OCT	18	USCGS BURMA-INDIA BORDER REGION	20 34 37,	24,3N, 94.8E,	H = 33 Km,	M = 5.2		
		PNS	iPKP	20 54 34.4		1.2	19.7	
			eL	20 50.9				
OCT	18	USCGS SANTA CRUZ IS	20 49 52,	11.1S, 166.7E,	H = 33 Km,	M = 4.9		
		PNS	ePKP	21 07 43.4				
			eL	45.8				
		LPB	ePKP	21 08 46				119.6
			eL	46 00				
OCT	18	USCGS TONGA IS	22 27 29,	15.2S, 174.0W,	H = 62 Km,	M = 5.5		
		PNS	eP	22 40 09.3				
		LPB	eL	23 14 00				100.3
OCT	18	LPB	P	22 44 22.7		0.9	13.5	
			i	44 34				
		PNS	eP	22 44 23.8				1.9
			i	44 28.6				
			S	44 47				
OCT	18	PNS	P	23 24 14				2.3
			S	24 41				
OCT	18	LPB	P	23 37 42.5				
		PNS	eP	23 37 44.4				
OCT	18	PNS	P	23 57 29.4				1.8
			iS	57 51.7				
OCT	19	USCGS OFF COAST OF PERU	00 51 05,	10.8S, 79.0W,	H = 30 Km,	M = 4.3		
		PNS	eP	00 53 58		0.6	10.3	
			S	56 05				
		LPB	eP	00 54 00		0.6	3.6	12.0
			eS	56 13				
		CCH	eP	00 54 29.0				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	19	PNS	eP S	01 18 33.8 19 04.9				2.6
OCT	19	CCH LPB PNS	eP eP eL eP	01 26 30.7 01 26 37.5 42 00 01 26 38				
OCT	19	USCGS	02 17 #4, 10.2S, 79.5W, H = 33 Km, M = 4.9 OFF COAST OF PERU					
		PNS	P i S L	02 20 41.0 20 54.5 24 13 55.3	C	1.4	33.0	
		LPB	P PP S L	02 20 46.2 21 04 24 14 25.9		1.2	13.0	12.6
		CCH	P	02 21 06.9	D			
OCT	19	CCH LPB CHA PNS	P eP S P eP S	03 18 29.6 03 18 42 19 06 03 18 47.8 03 18 54.9 19 22.4	C			2.0   2.2
OCT	19	USCGS	03 57 57.7, 49.7N, 78.0E, M = 5.6 E KAZAKH SSR					
		PNS	PKP eL	04 17 21.4 05 03 00		1.0	5.7	
		LPB	ePKP	04 17 22				137.7
		CCH	ePKP	04 17 24.3				
OCT	19	PNS LPB	eP L e(P) eL	06 01 27 13 00 06 01 28.5 13 00		1.0		
OCT	19	LPB PNS	eP e(P)	06 08 21 06 08 22				
OCT	19	LPB PNS	eP iP	06 43 01 06 43 01.6	D	1.0	9.2	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	19	USCGS	06 30 34.9, 22.5N, 142.0E, H = 250 Km, M = 5.0						
		VOLCANO IS REG							
		PNS	PKP	06 49 54.8		1.0	9.2		
			i	50 00.0					
			iPKP2	50 08.9					
			eL	07 41.5					
		LPB	iPKP	06 49 55.2	D	1.0	14.0	151.0	
			iPKP2	50 09.5					
			eL	07 42 00					
		CHA	iPKP	06 50 00.6	D				
		CCH	ePKP	06 50 05.1					
			S	50 18.1					
OCT	19	USCGS	07 25 43, 11.4S, 78.5W, H = 33 Km, M = 4.4						
		OFF COAST OF PERU							
		PNS	eP	07 28 17					
			eS	30 22					
		LPB	eP	07 28 24.5				10.9	
			pP	28 37					
			eS	30 21.5					
		CCH	eP	07 29 01.7					
OCT	19	USCGS	08 01 33.8, 1.6S, 15.5W, H = 33 Km						
		N OF ASCENSION IS							
		CCH	iP	08 10 45.8	D				
		LPB	iP	08 10 56.5	C	1.3	183.0	54.0	
			i	11 21					
			PP	13 05.5					
			S	18 32					
			eSS	22 04					
			G	23.8					
			L	27.5					
		CHA	iP	08 10 57.1	D				
		PNS	iP	08 10 58.0	C	1.6	180.4		
			ipP	11 10.9					
			iPP	13 03.7					
			G	18 30					
OCT	19	LPB	eP	08 40 51					
		PNS	eP	08 40 52					
OCT	19	LPB	eP	08 48 19					
		PNS	eP	08 48 20					
OCT	19	PNS	eP	09 00 03.6		0.6	3.0		
		LPB	eP	09 00 07					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	19	LPB	P	09 19 56.3		0.8	138.0	
		CCH	iP	09 19 57.0	D			
		PNS	iP	09 19 58.8	C			
OCT	19	CCH	iP	10 05 48.7	C			
		LPB	eP	10 06 18				3.3
			S	06 57				
		PNS	eP	10 06 31.8				3.1
			S	07 08				
OCT	19	LPB	eP	10 16 25				
OCT	19	PNS	eP	10 50 34.6				2.4
			S	51 04				
		LPB	P	10 50 35		0.7	5.2	
		CCH	P	10 50 53.5	D			
OCT	19	LPB	eP	11 05 36		0.8	9.7	
		PNS	P	11 05 39.5				
OCT	19	LPB	P	11 39 23.5		1.1	41.5	
		PNS	eP	11 39 24				
		CCH	eP	11 39 26.1				
OCT	19	USCGS SANTA CRUZ IS		11 22 14.7, 12.6S, 167.2E, H = 218 Km, M = 5.1				
		LPB	eL	12 18 00				118.0
		PNS	eL	12 18 00				
OCT	19	USCGS BANDA SEA		12 42 31.5, 7.7S, 126.9E, H = 150 Km, M = 5.0				
		LPB	PKP	13 02 09		1.0	20.0	151.8
			pPKP	02 54				
		PNS	PKP	13 02 10.4	C	1.4	54.2	
	pPKP	02 54.8						
OCT	19	PNS	P	13 17 30.1				2.4
			S	17 59				
OCT	19	PNS	eP	13 24 44				1.8
			S	25 06				
OCT	19	PNS	eP	13 30 06		0.9	13.6	
		LPB	eP	13 30 11.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	19	PNS	eP	13 36 04					
			e	38 00					
			e(S)	38 35					
		LPB	eP	13 36 06					
OCT	19	PNS	eP	14 10 36.6				3.0	
			S	11 12					
OCT	19	PNS	eP	14 18 00					
			e	19 13.8					
			i	19 43.6					
		LPB	P	14 18 05					
OCT	19	USCGS	14 28 29, 2.9N, 78.7W, H = 48 Km, M = 4.5						
			NEAR W COAST OF COLOMBIA						
		PNS	P	14 33 16.2		1.4	57.6		
			PP	33 46.0					
		LPB	P	14 33 20.8		1.4	64.0	22.2	
			eS	36 33					
			eL	39.2					
		CCH	P	14 33 38.1	D				
OCT	19	LPB	eP	15 17 53				2.7	
			S	18 25					
OCT	19	PNS	eP	15 18 10				2.5	
			S	18 40					
		CCH	eP	15 18 18.7					
OCT	19	CCH	P	16 16 19.4	C				
OCT	19	LPB	P	16 28 48.2		0.7	7.8		
		PNS	eP	16 29 06.2				2.1	
			S	29 31.5					
OCT	19	PNS	eP	16 34 17				6.8	
			i	34 21.0					
			S	35 34					
		LPB	P	16 34 33		1.1	16.1	5.4	
			S	35 35.5					
OCT	19	USCGS	16 34 49, 18.0N, 145.7E, H = 162 Km, M = 4.4						
			MARIANA IS						
		PNS	iPKP	16 54 16	D	1.3	22.5		
		LPB	ePKP	16 54 17.6		1.0	16.0	148.1	
		CCH	iPKP	16 54 22.5	D				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	19	USCGS		17 37 56, 10.8S, 79.0W, H = 41 Km, M = 4.8				
				NEAR COAST OF PERU				
		PNS	eP	17 40 46				
			i	40 50.0				
			eS	43 02				
		LPB	eP	17 40 48				12.2
			S	43 06.5				
			L	45.5				
		CCH	eP	17 41 16.1				
OCT	19	PNS	eP	18 44 52.6				2.5
			S	45 23				
OCT	19	LPB	eP	19 04 21		0.8	42.0	
		PNS	P	19 04 24.4	C	1.0	10.4	
OCT	19	USCGS		20 35 40, 51.2N, 159.1E, H = 33 Km, M = 4.9				
				OFF E COAST OF KAMCHATKA				
		LPB	eL	21 37 00				129.3
OCT	20	PNS	eP	00 42 02				
OCT	20	USCGS		00 53 38.7, 33.6N, 78.5E, H = 27 Km, M = 5.0				
				KASHMIB-TIBET BOR REG				
		PNS	PKP	01 13 17.6		2.0	91.2	
			iPKP2	13 22.6				
OCT	20	PNS	eP	01 16 52				2.3
			S	17 19.0				
OCT	20	CCH	P	02 17 09.3	C			
OCT	20	PNS	eP	02 19 51				1.0
			S	20 15				
OCT	20	USCGS		02 33 09, 7.3S, 129.2E, H = 135 Km, M = 4.7				
				BANDA SEA				
		PNS	PKP	02 52 42.8		0.7	4.3	
			i	53 35.0				
		LPB	ePKP	02 52 43				151.2
		CCH	PKP	02 52 50.1	C			
			S	53 34.5				
OCT	20	PNS	P	04 40 05.0				1.3
			S	40 22.0				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	20	CCH PNS	P	04 52 34.2	D	1.7	55.3	
			P	04 52 50.6				
			i	52 59.0				
			e(S)	54 32				
OCT	20	PNS	P	05 53 30.5				6.6
			i	53 36.0				
			S	54 45.7				
OCT	20	PNS	P	07 27 40.0		0.6	5.1	
			i	27 47.2				
OCT	20	PNS	P	08 54 56		1.0	14.3	
OCT	20	USCGS	09 38 34, 44.2N, 12.0E, H = 33 Km, M = 4.4					
		N ITALY						
		PNS	eP	09 51 53				
OCT	20	USCGS	11 36 13.4, 1.4N, 127.2E, H = 106 Km, M = 4.9					
		HALMAHERA						
		PNS	ePKP	11 55 56				
			iPKP2	56 37.4				
		LPB	ePKP	11 55 56.5				158.5
OCT	20	USCGS	13 35 50.5, 15.5S, 167.7E, H = 139 Km, M = 4.8					
		NEW HEBRIDES IS						
		PNS	ePKP	13 54 07				
			e	54 16				
		LPB	ePKP	13 54 11				116.8
OCT	20	PNS	eP	15 04 37				2.0
			S	05 01.4				
OCT	20	USCGS	15 03 47, 3.5S, 146.1E, H = 34 Km, M = 5.2					
		BISMARCK SEA						
		PNS	ePKP	15 23 13				
			iPKP	23 22				
		LPB	ePKP	15 23 21				140.8
			eL	16 10 00				
OCT	20	PNS	P	15 50 57.4		0.9	4.5	
OCT	20	PNS	P	17 56 48		0.5	3.2	1.9
			S	57 11.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	20	USCGS GUATEMALA	18 28 48,	14.0N, 91.9W,	H = 38 Km, M = 4.5			
		PNS	P	18 35 55.7				
OCT	20	PNS	P	19 13 32.6	D	0.4	3.2	9.1
			S	15 14.8				
		LPB	P	19 13 39		0.8	5.6	8.4
			S	15 14.5				
OCT	20	PNS	P	19 17 42.0				0.4
			S	17 48.8				
OCT	20	LPB	eP	20 17 58.5				5.1
			S	18 57.5				
OCT	20	CCH	eP	21 54 20.9				
OCT	20	USCGS PERU	22 22 48.9,	12.1S, 71.7N,	H = 46 Km, M = 4.5			
		LPB	P	22 24 06				5.3
			i(Pn)	24 12				
			S	25 37.5				
OCT	20	CCH	ePKP	22 56 25.9				
OCT	20	USCGS OFFICST OF PERU	23 50 53,	10.6S, 79.1W,	H = 27 Km, M = 4.7			
		LPB	P	23 53 40		0.9		12.2
			iPP	54 02.7				
		PNS	eP	23 53 42		0.9	4.8	
			PP	53 59.8				
			S	55 56				
OCT	21	LPB	P	00 45 25.5		1.0	8.0	15.8
			eS	48 18.5				
			L	50 00				
		PNS	eP	00 45 27				
OCT	21	CCH	P	00 46 52.2	D			
OCT	21	PNS	P	01 53 18		0.8	21.4	1.9
			iS	53 41.0				
		LPB	eP	01 53 20				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	21	LPB	eP S	03 13 37.5 14 19.6				3.6
OCT	21	CCH	iP	03 20 51.0	C			
OCT	21	CCH	eP	03 56 15.5				
OCT	21	CCH	eP	04 31 59.1				
OCT	21	CCH	P	05 31 17.3	C			
OCT	21	USCGS UTAH		07 13 52, 38.2N, 113.1W, H = 33 Km, M = 4.9				
		LPB	eP	07 24 46				68.9
OCT	21	LPB	eP	08 21 19.5		0.8	5.6	
OCT	21	USCGS S OF PANAMA		09 22 58, 3.7N, 79.2W, H = 33 Km, M = 4.1				
		LPB	P	09 27 58.5		1.0	26.0	22.4
OCT	21	USCGS GUATEMALA		10 33 23.7, 14.2N, 91.2W, H = 31 Km, M = 4.6				
		LPB	eP eSS eL	10 40 42 49 11 52 00		0.9	5.1	38.3
OCT	21	USCGS GUATEMALA		10 36 17, 14.4N, 90.8W, H = 46 Km, M = 4.7				
		LPB	eP eS SS eL	10 43 29 49 13 52 02 54 00		1.0	4.0	38.3
OCT	21	USCGS CENTRAL MID-ATLANTIC RIDGE		11 18 26, 4.0N, 32.9W, H = 33 Km, M = 4.6				
		LPB	eP eL	11 26 00.6 37 00				38.2
OCT	21	LPB	eP	11 35 48.5		0.8	11.2	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	21	USCGS	12 39 41, 27.8S, 67.5W, H = 73 Km, M = 4.7 CATAMARCA PROVINCE, ARGENTINA						
		LPB	iP	12 42 17.0		1.0	110.0	11.3	
			PP	42 33					
			eS	44 21					
		PNS	iP	12 42 19.9	C	0.9	85.0		
			PP	42 35.0					
			eS	44 22					
			eL	46.2					
OCT	21	LPB	eP	13 54 51.5					
		PNS	eP	13 55 01.6					
OCT	21	CCH	iP	14 48 34.5	D				
		PNS	eP	14 49 12.6				3.0	
			S	49 47.4					
OCT	21	USCGS	15 04 45, 7.1S, 146.0E, H = 179 Km, M = 5.0 E NEW GUINEA REG						
		LPB	ePKP	15 23 43				139.0	
			eL	16 09 00					
		PNS	ePKP	15 23 45					
OCT	21	CCH	eP	15 57 30.7					
		LPB	eP	15 57 33					
		PNS	P	15 57 38.8		0.9	4.8		
OCT	21	PNS	P	16 40 58				1.9	
			iS	41 21					
OCT	21	PNS	P	16 53 42.7		0.7	5.5	1.9	
			iS	54 05.8					
OCT	21	LPB	eP	17 15 19.5					
		PNS	iP	17 15 20.0	C	0.4	3.2		
			S	16 07.7					
OCT	21	USCGS	18 53 29, 20.7S, 70.9W, H = 33 Km, M = 4.2 NEAR COAST OF N CHILE						
		PNS	eP	18 54 44.6		0.9	6.1		
			i	54 48.7					
			iS	55 50					
		LPB	iP	18 54 47.5	D	1.0	32.0	4.8	
			i	54 50.3					
			S	56 30					
		CCH	P	18 54 53.2	D				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	21	LPB PNS	P eP	20 54 03.5 20 54 07.4		1.0	18.0	
OCT	21	LPB	eP	22 58 32				
OCT	21	PNS LPB	P eP	23 06 04 23 06 06.5		1.0	8.4	
OCT	22	PNS LPB	eP eP i	00 03 01 00 03 16 03 27.6		1.1 1.0	7.1 8.0	
OCT	22	PNS LPB	P eP	00 08 26.3 00 08 39		1.0 1.0	7.0 12.0	
OCT	22	LPB PNS CCH	eP i e(P) e eP	00 13 05 13 13.6 00 13 06.9 16 07.7 00 13 23.9				
OCT	22	USCGS S OF PANAMA		00 18 20, 6.9N, 82.2W, H = 33 Km, M = 4.1				
		PNS LPB	P eP eL	00 23 54 00 24 00.5 31.4		1.3		27.4
OCT	22	PNS LPB	eP P	00 36 59.4 00 37 10		1.4 0.6	24.6 14.4	
OCT	22	LPB PNS CCH	eP eP eP	00 38 33.5 00 38 33.6 00 38 41.9		1.5	21.8	
OCT	22	LPB	eP	01 09 12.5		0.9		
OCT	22	LPB	eP	01 21 20.5		0.8	7.0	
OCT	22	LPB	eP	01 51 31				
OCT	22	LPB PNS	eP eP e	02 41 05 02 41 06.5 44 48		0.9	4.8	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	22	PNS	P eS	03 22 51.2 33 21.2		1.0	18.1	86.0
OCT	22	USCGS	03 03 23.5, 23.1N, 94.4E, H = 68 Km, M = 5.3 BURMA-INDIA BOR REG					
		CCH	ePKP	03 23 18.7				
		LPB	ePKP eL	03 23 19 04 20 00		1.1	6.8	162.0
		PNS	iPKP	03 23 21.9	C	0.9	16.2	
OCT	22	USCGS	03 45 04.1, 6.8S, 147.6E, H = 59 Km, M = 4.8 E NEW GUINEA REG					
		LPB	ePKP eL	04 04 17 50 00		0.8	28.0	137.8
		PNS	ePKP	04 04 17.3				
OCT	22	LPB	eP	04 25 27				
		PNS	eP	04 25 31.6		1.8	30.3	
OCT	22	PNS	P S	04 31 08.0 31 41.0				2.8
		LPB	eP	04 31 09		0.9	6.8	
OCT	22	LPB	eP	05 46 42.8		1.0	6.0	
		PNS	eP	05 46 43.4				
OCT	22	PNS	P S	06 19 05.4 20 04.4		0.7	3.7	5.1
		LPB	P S	06 19 07.7 20 08.5		0.6	2.4	5.3
OCT	22	PNS	P i	07 19 53.8 20 12.0		0.9	9.7	
		LPB	P	07 19 54.6		0.6	4.8	
OCT	22	USCGS	07 45 49, 9.8N, 70.9W, H = 33 Km, M = 4.5 VENEZUELA					
		PNS	P	07 51 21.8	C	0.7	13.8	
		LPB	P eL	07 51 24.6 59 00		0.7	10.2	26.8

## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	22	LPB	eP	07 54 27.5		1.0	4.0	
			e	54 35				
		PNS	(S) fP	07 54 36.0	D	0.7	24.2	33.0
			eS	59 51				
CCH	eP	07 54 46.2						
OCT	22	PNS	eP S	09 07 25 08.02				3.2
OCT	22	LPB	eP	10 39 46		1.0	4.0	
		PNS	eP	10 39 50		1.0	7.0	
OCT	22	USCGS	10 42 36, 33.4S, 70.3W, H = 101 Km, M = 4.2 CHILE-ARGENTINA BOR REG					
		LPB	eP	10 46 30		0.9	13.6	16.6
		PNS	eP	10 46 31		0.7	4.6	
OCT	22	LPB	eP	11 43 19				
		PNS	eP	11 43 22.6		0.9	4.8	
OCT	22	USCGS	12 47 18.2, 55.2N, 162.0E, H = 59 Km, M = 5.4 NEAR E COAST OF KAMCHATKA					
		PNS	PKP	13 06 15.0		1.0	8.4	
		LPB	PKP	13 06 16.2		1.0	12.0	125.8
			eL	49 00				
OCT	22	PNS	P	17 38 36.2				5.0
			S	39 33				
		LPB	eP	17 38 51		1.0	12.0	
OCT	22	LPB	eP i	17 47 16 47 20				
OCT	22	USCGS	17 30 05, 35.3N, 141.3E, H = 33 Km, M = 4.5 NEAR E COAST OF HONSHU, JAPAN					
		LPB	ePKP	17 49 49		1.2	23.4	148.0
			eL	18 40 00				
		PNS	iPKP	17 49 50.6	C	1.2	19.3	
OCT	22	USCGS	19 11 16, 10.3N, 63.8W, H = 44 Km, M = 4.3 NEAR COAST OF VENEZUELA					
		PNS	P	19 16 54.0		1.0	8.4	
		LPB	P	19 16 55		0.8	11.2	27.0
			eL	24 00				
				16 59.6	D			



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	22	LPB PNS	P eP	20 24 40.7 20 24 46.4		0.8	8.4	
OCT	22	LPB	iP eL	21 19 47.5 48 00		1.2	15.6	
OCT	22	LPB	eP	22 18 42		1.0	12.0	
OCT	22	PNS	P S	23 34 37.7 35 06				2.3
OCT	22	PNS	P S	23 37 48.0 38 12.4				2.0
OCT	23	USCGS MOLUCCA PASSAGE	00 00 18, 2.6N, 127.2E, H = 55 Km, M = 5.3					
		PNS	ePKP	00 19 12.8				
			PKP2	20 54				
		LPB	ePKP eL	00 19 13 01 16 00				159.3
OCT	23	LPB PNS	eP P S	02 16 31.5 02 16 34.0 17 10.5		0.5 0.5	2.6 3.9	3.1
OCT	23	PNS LPB	P iS iP	02 25 47.4 26 19.0 02 25 47.7				2.6
OCT	23	USCGS NEAR S COAST OF HONSHU, JAPAN	02 14 15, 35.5N, 139.1E, H = 33 Km, M = 4.2					
		PNS	PKP	02 33 59.2		1.3	12.0	
		LPB	PKP	02 34 00.5		1.0	10.0	149.3
OCT	23	PNS LPB	eP e eP	03 11 21.8 11 36 03 11 24				
OCT	23	PNS LPB	eP eP eL	03 49 17.8 03 49 19 53 00		1.0	6.9	
OCT	23	PNS LPB	eP eP	05 51 14 05 51 17				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	23	PNS LPB	e(P) eP	06 40 22 06 40 25.5		1.0	4.0	
OCT	23	LPB PNS	eP P	06 58 59 06 59 10.8				
OCT	23	USCGS	07 09 20.9, 51.0N, 159.2E, H = 38 Km, M = 5.2 OFF E COAST OF KAMCHATKA					
		PNS	ePKP	07 28 16.4				
		LPB	ePKP	07 28 17				129.2
			eL	08 11 00				
OCT	23	PNS	P	07 56 35.8				
			i	56 39.0				
		LPB	eP	07 56 36		0.8	9.8	
OCT	23	PNS	eP	09 10 40				
		LPB	eP	09 10 42.5				
OCT	23	USCGS	09 15 48, 6.5S, 155.2E, H = 34 Km, M = 5.0 SOLOMON IS					
		PNS	ePKP	09 34 57		1.0	8.4	
		LPB	ePKP	09 34 58		1.2	10.4	131.6
OCT	23	USCGS	12 15 17.8, 51.1N, 159.2E, H = 33 Km, M = 4.8 OFF E COAST OF KAMCHATKA					
		PNS	ePKP	12 34 25.4				
		LPB	eL	13 16 00				129.2
OCT	23	USCGS	15 32 54.2, 10.8S, 78.9W, H = 44 Km, M = 5.0 NEAR COAST OF PERU					
		PNS	eP	15 35 38.7				
			iPP	35 48.0				
			S	38 02				
		LPB	eP	15 35 47.2				11.7
			iPP	35 53				
			S	38 06.5				
			L	40.3				
		CCH	eP	15 36 18.0				
OCT	23	PNS	eP	16 30 27.4				
			e(S)	31 59				
		LPB	eP	16 30 31				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	23	USCGS BANDA SEA	17 20 00.2, 6.3S, 129.9E, H = 95 Km, M = 5.1					
		CCH	PKP	17 39 38.6	C			
		LPB	ePKP	17 39 40	C	1.2	15.6	151.0
			i	39 45.6				
			pPKP	40 03.7				
			eL	18 11 00				
		PNS	PKP	17 39 40.0		1.8	70.8	
			i	39 45.7				
			i	40 23.6				
OCT	24	PNS	iP	00 32 55.6	D	0.3	68.2	1.8
			S	33 17.8				
		LPB	P	00 32 57.2		0.8	19.6	2.1
			eS	33 21.8				
OCT	24	LPB	eP	00 34 12				
		PNS	P	00 34 13.5		0.6	6.0	3.2
			eS	34 52				
		CCH	eP	00 34 40				
OCT	24	PNS	P	00 46 51				
		LPB	P	00 46 52		0.7	7.8	
OCT	24	LPB	eP	04 09 10.5				
		PNS	eP	04 09 15				
OCT	24	PNS	P	06 00 06.8				
		LPB	P	06 00 07.2		0.7	2.6	
OCT	24	LPB	P	11 39 11.5		0.6	14.4	
		PNS	iP	11 39 19.8	D	0.6	9.0	
		CCH	eP	11 39 51.6				
OCT	24	LPB	eP	14 07 24				
		PNS	iP	14 07 28.3	D	0.4	5.2	1.8
			S	07 50.8				
OCT	24	USCGS KOMANDORSKY IS REG	13 53 44.5, 54.9N, 165.8E, H = 33 Km, M = 4.9					
		PNS	ePKP	14 12 44.6				
		LPB	eL	14 52 00				124.0
OCT	24	USCGS IRAN-USSR BOR REG	14 31 21, 37.7N, 59.0E, H = 33 Km, M = 5.0					
		PNS	PKP	14 50 26.8				
			e	50 32				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	24	LPB PNS	eP P S	14 54 38 14 54 56.2 55 54.6		0.5	3.7	5.0
OCT	24	USCGS KERMADEC	IS	REG	15 37 25.9, 30.5S, 177.2W, H = 26 Km, M = 4.6			
		PNS LPB	eP eL	15 50 53.7 16 23 00				97.0
OCT	24	CCH LPB PNS	iP S iP iS iP iS	17 01 17.1 01 58.2 17 01 30.6 02 21 17 01 34.8 02 29.1	D C	0.6 0.4	56.4 26.7	3.5 4.3 4.7
OCT	24	PNS LPB	eP S eP	17 36 52 37 51.8 17 36 57		0.5	9.1	5.2
OCT	24	PNS	P S	17 43 07.2 43 47.6		0.4	3.2	3.4
OCT	24	PNS LPB	eP eS eP	17 46 09.4 47 11 17 46 13				
OCT	24	LPB PNS	eP e eP	19 06 27.5 06 41.5 19 06 38.2				
OCT	24	LPB	eL	21 32 00				
OCT	24	LPB PNS	P S iP S	22 38 00.8 39 26.6 22 38 06.6 39 30.4	C	0.6 0.7	7.2 12.8	7.6 7.4
OCT	25	USCGS E NEW GUINEA	REG	00 26 36.5, 6.6S, 147.2E, H = 67 Km, M = 5.3				
		PNS	ePKP pPKP PP i	00 46 02 46 13 48 54.4 49 28.9				
		LPB	ePKP eL	00 46 10 01 36 00				138.2

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	25	USCGS BANDA SEA	00 49 26, 7.7S, 128.5E, H = 122 Km, M = 4.8					
		LPB	PKP	01 08 59.2		1.0	6.0	150.8
			i	09 04.5				
			PKP2	09 12.8				
			eL	51 00				
		PNS	PKP	01 08 59.4		0.8	17.1	
			i	09 04.7				
			PKP2	09 12.4				
		CCH	PKP	01 09 04	D			
OCT	25	USCGS OFF COAST OF MEXICO	01 08 40, 8.5N, 103.2W, H = 33 Km, M = 4.5					
		PNS	eP	01 16 32.6		1.6	39.7	
		LPB	eP	01 16 36				42.7
			eL	30 00				
OCT	25	USCGS S OF HONSHU, JAPAN	02 07 37, 32.2N, 142.2E, H = 33 Km, M = 4.4					
		PNS	iPKP	02 27 22.8	D	0.9	15.7	
		LPB	iPKP	02 27 23.7		0.8	14.0	148.5
			eL	03 18 00				
OCT	25	LPB	P	03 12 31		0.8	5.6	
		PNS	P	03 12 34.4		1.2	19.7	
OCT	25	LPB	iP	05 29 33.4	C	0.9	34.0	
		PNS	iP	05 29 37.2	C	0.5	19.2	
OCT	25	LPB	P	06 10 29.2		0.5	9.1	
		PNS	iP	06 10 29.6	D	0.9	12.1	
OCT	25	USCGS SAMOA IS REG	07 46 30, 16.1S, 172.6W, H = 35 Km, M = 4.5					
		LPB	eP	08 00 05				98.9
		PNS	eP	08 00 06.8				
OCT	25	USCGS W PAKISTAN	10 06 58.1, 29.9N, 68.9E, H = 6 Km, M = 5.3					
		LPB	PKP	10 26 28.2	D	1.2	20.7	138.5
			eL	11 12 00				
		PNS	iPKP	10 26 29.1	D	1.2	25.6	
			pPKP	26 39.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	25	USCGS	10 08 24, 35.4N, 139.1E, H = 42 Km, M = 4.1					
		LPB	ePKP	10 28 07				149.5
			eL	11 19 00				
		PNS	ePKP	10 28 08				
OCT	25	LPB	P	11 46 21				
OCT	25	PNS	P	11 46 41.1		0.5	9.6	1.2
			iS	46 56.2				
OCT	25	PNS	eP	12 49 53				
OCT	25	USCGS	12 38 52, 15.7S, 177.0W, H = 33 Km, M = 4.3					
			FIJI IS REG					
		LPB	eL	13 27 00				102.7
OCT	25	USCGS	14 53 08, 10.7S, 78.8W, H = 47 Km, M = 4.5					
			NEAR COAST OF PERU					
		CCH	eP	14 55 19.9				
		PNS	P	14 55 58.0		1.1	10.7	
			S	58 11				
			L	59.8				
		LPB	eP	14 55 58.5				12.3
			eS	58 10				
			L	15 00 00				
OCT	25	UCh	eP	16 46 20.9				
		PNS	iP	16 46 51.8	C	0.8	42.7	3.9
			S	47 36.4				
		LPB	iP	16 46 57.7		0.8	18.2	
OCT	25	LPB	eP	17 45 36				
			i	46 19.5				
		PNS	P	17 45 48.0		0.6	4.6	3.2
			S	46 26				
OCT	25	USCGS	18 04 11.8, 36.8N, 138.2E, H = 28 Km, M = 5.2					
			HONSHU, JAPAN					
		PNS	iPKP	18 23 56.0	D	1.5	56.4	
			i	24 00.0				
			PP	27 31				
		LPB	PKP	18 23 56.5		1.5	41.5	149.3
			i	24 01				
			eL	19 14 00				
		CCH	ePKP	18 23 57.9				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	25	USCGS	18 41 45, 21.1S, 67.5W, H = 166 Km, M = 4.2 CHILE-BOLIVIA BORDER REGION						
		CCH	iP	18 42 49.2	D				
		LPB	iP	18 42 55.5	D	0.8	21.0	4.4	
			eS	43 33					
		PNS	iP	18 42 59.0	D	0.9	48.3		
			iS	43 50.0					
OCT	25	CCH	eP	20 14 23.2	D				
		LPB	iP	20 14 38.0	D	0.5	41.6	6.7	
			S	15 54					
		PNS	iP	20 14 42.6	D	0.6	77.1	6.9	
			S	16 01					
OCT	25	USCGS	23 16 00.2, 14.6S, 167.4E, H = 179 Km, M = 4.5 NEW HEBRIDES IS						
		LPB	eL	00 00 00				117.0	
OCT	26	LPB	eP	00 00 39					
			e(S)	03 40.6					
		PNS	eP	00 01 42.4					
			(S)	03 44					
OCT	26	PNS	iP	01 21 02.6	D	0.6	38.6	1.8	
			iS	21 25.0					
		LPB	P	01 21 04.2		0.9	43.8		
OCT	26	LPB	eP	01 33 12		0.9	6.8		
		PNS	P	01 33 12.6		1.0	11.1		
OCT	26	LPB	P	03 51 22		0.8	7.0		
		PNS	P	03 51 28.4		0.5	8.9		
OCT	26	CCH	iP	04 16 34.5	D				
		CHA	P	04 17 06.6					
		LPB	eP	04 17 07.3					
		PNS	eP	04 17 13				4.0	
			i	17 19.7					
			S	18 00					
OCT	26	USCGS	05 22 57, 42.1N, 142.5E, H = 51 Km, M = 4.4 HOKKAIDO, JAPAN REGION						
		PNS	PKP	05 42 31					
		LPB	ePKP	05 42 32				143.8	
			eL	06 32 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	26	LPB PNS	ep i s	08 05 17 08 05 46 08 08		0.4	4.3	1.8
OCT	26	LPB PNS	ep s	08 03 24 08 03 24.7				
OCT	26	PNS	ep i s	08 08 03 08 10.0 09 10.0				5.9
		LPB	ep i s	08 08 08 08 13.7 09 18.5		0.8	5.6	6.1
OCT	26	PNS	ep i	08 15 47 08 17 16.7				
		LPB	ep	08 17 17		1.1	5.3	
OCT	26	PNS CCH LPB	ep ep ep i	08 19 00.6 08 19 03.0 08 19 11 08 19 15				
OCT	26	PNS	ep is	08 22 04.3 08 22 43				3.3
		LPB	ep	08 22 05				
OCT	26	LPB PNS	P P	08 34 52.2 08 34 55.8	D	0.7 0.5	6.5 8.9	
OCT	26	PNS	ep s	09 21 40 09 22 01.8				1.8
		LPB	ep	09 21 48.7		0.7	3.9	
OCT	26	CCH PNS	ep ep	09 32 03.2 09 32 43.4				3.7
		LPB	s P s	09 33 27.0 09 32 46 09 33 20.2		0.8	5.6	2.9
OCT	26	LPB PNS	ep ep e	10 34 29.5 10 34 31.8 10 34 36.2		0.6	3.6	
OCT	26	PNS	P e	10 37 36.6 10 37 40				
		LPB	ep	10 37 37.5		0.9	6.8	



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	26	LPB PNS	eP P e(S)	11 45 55 11 45 57.8 47 18		0.6	5.4	
OCT	26	USCGS S NEVADA	15 17 41,	37.4N, 114.3W,	H = 33 Km,	M = 4.4		
		LPB	eL	15 48 00				68.8
OCT	26	LPB	P S	17 23 34.5 24 25.5		0.6	7.2	4.4
OCT	26	LPB	eP S	17 53 22 54 15				4.6
OCT	25	USCGS NEW HEBRIDES IS	18 28 54.1,	18.4S, 167.6E,	H = 36 Km,	M = 5.6		
		PNS	ePKP i	18 47 34 48 13		1.0	9.7	
		LPB	ePKP eL	18 47 35 19 33 00				114.8
OCT	26	USCGS MINDORO, P.I.	20 09 36,	13.5N, 121.0E,	H = 51 Km,	M = 5.0		
		PNS	ePKP	20 29 44				
		LPB	eL	21 20 00				171.0
OCT	26	CCH PNS	P eP S	21 03 25.1 21 04 07 04 47.4	C			3.4
OCT	26	USCGS NEAR COAST OF GUATEMALA	21 07 42,	13.9N, 91.3W,	H = 36 Km,	M = 4.3		
		PNS	eP	21 15 01				
		LPB	eP eL	21 15 02 26 00				38.1
OCT	26	PNS	P iS	22 14 26.0 14 50.8		0.4	11.7	2.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	27	USCGS	00 16 56, 15.4S, 76.0W, H = 33 Km, M = 4.1 OFF COAST OF PERU						
		PNS	eP	00 18 45					
			eS	20 03					
		LPB	P	00 18 48.2				7.6	
			Pg	18 51.2					
			S	20 05					
		CCH	eP	00 19 12.3					
OCT	27	CCH	P	01 28 34.3	C				
		PNS	eP	01 29 21				3.2	
			S	29 58.8					
OCT	27	CCH	P	01 47 55.3	C				
		PNS	P	01 48 32				6.0	
			S	49 41					
		LPB	P	01 48 33				5.5	
			i	48 38.2					
			S	49 39					
OCT	27	USCGS	01 45 20, 54.3S, 38.8W, H = 33 Km, M = 4.8 S GEORGIA IS REG						
		PNS	e(P)	01 53 20		1.0	8.3		
			i	53 40.0					
		LPB	eP	01 53 26		0.8	2.8	43.7	
			eL	02 07 00					
OCT	27	USCGS	02 27 49.7, 14.1N, 145.3E, H = 125 Km, M = 5.2 MARIANA IS						
		PNS	PKP	02 47 20.5		1.0	9.7		
		LPB	ePKP	02 47 21		1.0	12.0	146.8	
			eL	03 38 00					
		CCH	ePKP	02 47 21.5					
OCT	27	PNS	eP	06 13 53					
			i	14 53					
		LPB	eP	06 13 53.2		1.0	6.0		
			i	14 57.7					
OCT	27	USCGS	05 57 58, 73.4N, 54.8E, M = 6.3 NOVAGA ZEMLYA						
		CCH	PKP	06 16 40.2	D				
		LPB	ePKP	06 16 41.6				115.0	
			iPP	17 35.5					
			ePKS	20 14					
			eL	54 00					
		PNS	PKP	06 16 41.6	D	1.0	26.1		
			iPP	17 34.3					
			PKS	20 12.7					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	27	PNS	P	06 26 55.0		1.0	9.7	
			i	27 20.2				
			i	28 02.0				
		LPB	eP	06 26 55.5				
			i	27 20.2				
			i	28 03.2				
		CCH	eP	06 27 00.0				
OCT	27	USCGS MARIANA IS	06 54	41.7, 19.1N, 145.3E, H = 222 Km, M = 4.7				
		PNS	ePKP	07 13 54				
		LPB	PKP	07 13 55.5		0.8	4.2	148.0
			eL	08 05 00				
OCT	27	LPB	eP	07 17 05				
			i	17 09.6				
		PNS	P	07 17 05.8				5.7
			S	18 11				
		CCH	eP	07 17 08.8				
OCT	27	PNS	eP	09 09 25				2.0
			S	09 49				
OCT	27	USCGS MARIANA IS	09 18	15.5, 20.2N, 145.6E, H = 118 Km, M = 5.4				
		LPB	ePKP	09 37 44				148.1
			iPKP2	37 50.7				
			eL	10 28 00				
		PNS	ePKP	09 37 46		1.5	117.1	
			iPKP2	50 00				
			pPKP	38 15.0				
		CCH	ePKP	09 37 52.0				
OCT	27	USCGS S PERU	10 07	39, 15.1S, 72.1W, H = 130 Km, M = 4.2				
		PNS	iP	10 08 37.9	C	0.6	61.7	
			iS	09 21.0				
		CHA	iP	10 08 39.1		1.0		
		LPB	iP	10 08 42	C	1.0	88	4.0
			S	09 34.2				
		CCH	eP	10 09 06.0	D			
OCT	27	USCGS OFF COAST OF N PERU	12 08	37, 10.0S, 79.3W, H = 63 Km, M = 4.9				
		PNS	P	12 11 31.4		1.4	28.5	
			ipp	11 47.9				
			i	11 56				
			eL	13 50				
		LPB	eP	12 11 37				12.3
			ePP	11 55				
			--	13 52				
				2 12 00.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	27	PNS	P	13 58 14.7	D	1.6	34.7		
OCT	27	USCGS	14 21 04.8, 22.2N, 145.9E, H = 29 Km, M = 6.0 N PACIFIC OCEAN						
		CHA	iPKP	14 40 46.1					
		PNS	iPKP	14 40 46.3	D	1.5	520.8		
			iPKS	44 03.6					
			i	51 01.4					
			i	51 25.6					
			ePS	55 15					
		CCH	ePKP	14 40 47.4	D				
		LPB	iPKP	14 40 47.7	D	1.6	762.0	147.7	
			PKS	44 05					
			i	51 01					
			eSS	15 03 25					
			eL	30 00					
OCT	27	PNS	iP	15 17 10.5	D	0.5	55.0		
			iS	17 35.6					
		LPB	P	15 17 10.6		0.8	15.3		
OCT	27	USCGS	17 49 34, 29.5N, 142.2E, H = 20 Km, M = 4.8 S OF HONSHU, JAPAN						
		LPB	ePKP	18 09 23				149.5	
			i	09 25.2					
			eL	19 00 00					
OCT	27	LPB	P	21 30 51		1.0	14.0		
		PNS	eP	21 30 51.7					
OCT	27	LPB	eP	22 28 58					
		PNS	P	22 29 05.0		0.4	4.0	1.9	
			S	29 28.2					
OCT	27	USCGS	22 26 20.5, 7.4S, 146.9E, H = 137 Km, M = 5.1 E NEW GUINEA REGION						
		LPB	ePKP	22 45 30				137.8	
OCT	27	USCGS	23 46 47.7, 41.7N, 141.9E, H = 71 Km, M = 5.3 HOKKAIDO, JAPAN REGION						
		LPB	ePKP	00 06 15				144.3	
			eL	58 00					
		PNS	ePKP	00 06 15.5					
			iPKP	06 28.6					
			PKS	09 51.7					
		CCH	PKP	00 06 19.2	C				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	28	PNS	iP	01 34 03.1	D	0.4	4.0	3.2
			iS	34 40.4				
		LPB	P	01 34 27				
OCT	28	USCGS SOLOMON IS'	01 41	19.1, 9.6S, 159.8E, H = 32 Km, M = 5.5				
		LPB	ePKP	02 00 19.5		1.0	10.0	125.8
			eL	41 00'				
		PNS	ePKP	02 00 20		1.3	11.3	
			i	00 27.1				
OCT	28	PNS	eP	03 17 19.8		1.0	7.9	
		LPB	P	03 17 24.5		0.7	5.2	
OCT	28	PNS	eP	04 59 26.4				3.0
			S	05 00 01				
		LPB	P	04 59 26.5		1.0	8.0	
OCT	28	PNS	iP	05 19 13.4	D	0.4	15.2	
		LPB	eP	05 19 15				
OCT	28	LPB	P	06 38 35.5		0.6	6.2	1.8
			S	38 57.5				
		CHA	P	06 38 37.2				
		PNS	iP	06 38 37.3	C	0.3	11.0	2.0
			S	39 01.6				
		CCH	iP	06 38 52.7	C			
OCT	28	LPB	P	09 04 26.7		1.0	8.0	
		PNS	eP	09 04 30.4		0.8	5.1	
OCT	28	LPB	eP	10 34 19.6		1.3	25.2	
OCT	28	USCGS NEAR S COAST OF HONSHU, JAPAN	13 20	30.6, 35.8N, 140.0E, H = 83 Km, M = 4.8				
		PNS	iPKP	13 40 08.0		1.2	18.5	
		LPB	ePKP	13 40 11		1.2	20.7	148.4
			eL	14 31 00				
		CCH	ePKP	13 40 13.6				
OCT	28	LPB	eP	13 57 46				
		PNS	iP	13 57 51.0	C	0.4	3.3	2.0
			S	58 14.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	28	LPB	iP	14 06 20.7	D	0.4	64.0	2.3
			S	06 49				
OCT	28	LPB	P	15 39 55	C	0.6	4.8	2.5
			iP	15 40 02.0				
			S	40 31.6				
OCT	28	PNS	eP	16 50 09.3		1.0	10.5	
		LPB	P	16 50 10.6				
OCT	28	USCGS 18 41 07, 14.6N, 93.2W, H = 33 Km, M = 4.4 NEAR COAST OF CHIAPAS, MEXICO						
		PNS	P	18 48 35.5		1.0	2.5	
OCT	28	LPB	eL	19 00 00				40.0
		CCH	iP	20 49 50.2	C	0.4	6.4	6.6
LPB	eP	20 50 08						
OCT	28	PNS	i	50 25.2	D	0.4	7.2	5.0
			i	50 36.5				
			S	51 23.5				
			iP	20 50 19.0				
			S	51 16				
i	51 37							
OCT	28	PNS	P	21 24 21.8		0.4	3.9	1.9
			S	24 44.8				
OCT	28	LPB	eP	21 37 56		0.6	13.0	
		PNS	P	21 37 59.3				
OCT	28	USCGS 22 11 47.6, 20.1S, 168.8E, H = 19 Km, M = 5.3 LOYALTY IS						
		PNS	ePKP	22 30 24		0.7	3.5	
OCT	28	LPB	ePKP	22 30 26.8		1.0	8.0	113.5
			e	30 53.2				
			eSKS	37 17				
			eSS	46 24				
			eL	23 05 00				
OCT	28	USCGS 23 24 14.5, 22.5S, 170.9E, H = 25 Km, M = 4.9 LOYALTY IS REG						
		LPB	eL	00 16 00				110.2

OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	29	PNS	eP	01 01 23.7				
			e	01 30.4				
		LPB	L	09.8				
			eP	01 01 27				
		eL	09.7					
OCT	29	USCGS	00 45 40, 51.1N, 159.1E, H = 33 Km, M = 4.3 OFF E COAST OF KAMCHATKA					
		LPB	ePKP	01 04 53				129.7
		eL	47 00					
OCT	29	USCGS	02 39 29.4, 39.2N, 21.2E, H = 20 Km, M = 5.7 GREECE					
		PNS	eP	02 52 57	C	1.6	17.8	
			e	52 15.3				
			ipp	57 15.2				
		LPB	eP	02 53 09				100.0
			eL	03 25 00				
OCT	29	PNS	eP	03 09 31.6		1.0	6.6	
		LPB	eP	03 09 34				
OCT	29	LPB	eP	03 40 41				
OCT	29	USCGS	04 45 36, 11.1S, 77.6W, H = 33 Km, M = 4.3 NEAR COAST OF PERU					
		PNS	eP	04 48 05.7		0.8	5.1	
		LPB	eP	04 48 09.3				
OCT	29	USCGS	06 30 22, 41.8N, 144.0E, H = 32 Km, M = 4.7 HOKKAIDO, JAPAN REGION					
		LPB	ePKP	06 49 34				142.7
OCT	29	CCH	P	07 16 58.8	D			
		LPB	P	07 17-38		0.4	6.4	4.7
			is	18 32				
OCT	29	USCGS	07 08 27.8, 6.8S, 155.7E, H = 67 Km, M = 4.6 SOLOMON IS					
		LPB	PKP	07 27 34		0.8		132.5
			eL	08 03 00				
OCT	29	LPB	P	08 47 12.6		0.4		14.6
			S	49 55				



OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	29	LPB	eP S	09 08 24 08 51				2.3
OCT	29	USCGS	10 58 11, 24.3S, 67.1W, H = 179 Km, M = 4.1 CHILE-ARGENTINA BOR REG					
		LPB	P	11 00 02.7		0.8	12.6	7.8
OCT	29	LPB	eP e	11 13 32 13 48				
OCT	29	USCGS	11 06 19.2, 0.32N, 121.9E, H = 224 Km, M = 4.8 N CELEBES					
		LPB	PKP	11 25 37				
OCT	29	USCGS	11 06 19, 0.3N, 122.0E, H = 224 Km, M = 4.8 N CELEBES					
		PNS	PKP	11 25 55		1.0	6.6	
		LPB	eL	12 24 00				163.4
OCT	29	PNS	P	11 26 46.4	C	0.6	5.8	
OCT	29	PNS	eP S	11 49 50.2 50 19.1				2.4
		LPB	P S	11 49 51.2 50 20.5		0.4	11.2	2.4
OCT	29	USCGS	12 13 06, 34.8N, 27.8E, H = 59 Km, M = 4.9 E MEDITERRANEAN SEA					
		LPB	eL	13 03 00				104.3
OCT	29	USCGS	13 17 58, 20.8S, 69.5W, H = 100 Km, M = 4.3 N CHILE					
		LPB	P i	13 19 04.2 19 37.5	C	1.0	160.0	4.5
		CCH	iP	13 19 06.0		1.0		
		PNS	iP eS	13 19 06.5 19 44	C	0.8	109.6	
OCT	29	LPB	eP	13 50 38				
		PNS	eP e	13 50 41.5 50 55.5		0.8	5.1	



## OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	29	USCGS	14 21 41.5, 12.2N, 89.2W, H = 33 Km, M = 4.2		OFF COAST OF CENTRAL AMERICA			
		LPB	eL	14 39 00				35.8
OCT	29	LPB	eP	14 48 15				
		PNS	P	14 48 16.7		1.5	32.9	
OCT	29	USCGS	14 32 41.2, 41.8N, 144.1E, H = 41 Km, M = 5.0		HOKKAIDO, JAPAN REGION			
		LPB	ePKP	14 51 58				142.7
		PNS	ePKP	14 52 08				
OCT	29	LPB	eP	15 03 46				
		PNS	P	15 03 46.2	D	1.0	9.2	
OCT	29	USCGS	14 62 57, 36.7N, 69.8E, H = 73 Km, M = 4.9		HINDU KUSH REGION			
		PNS	ePKP	15 05 53				
OCT	29	PNS	P	15 11 55.0	C	0.6	5.1	3.2
			S	12 32.8				
		LPB	P	15 12 02	D	1.0	50.0	
OCT	29	USCGS	15 32 19, 10.7S, 79.0W, H = 22 Km, M = 5.0		OFF COAST OF PERU			
		PNS	eP	15 35 06		0.9	6.9	
			iPP	35 19.0				
			S	35 39.5				
		LPB	eP	15 35 12.3				12.3
			PP	35 20.3				
			S	37 42				
			L	39.6				
OCT	29	USCGS	15 42 13, 10.7S, 79.0W, H = 33 Km, M = 4.5		NEAR COAST OF PERU			
		LPB	eP	15 45 06				
		PNS	eP	15 45 07		1.4	84.1	12.3
OCT	29	LPB	eP	20 00 12				
OCT	29	PNS	P	22 21 39				2.0
			S	22 02.8				

OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	30	LPB	eP	01 50 12				
			i	50 28				
		PNS	eL	59 00				
			eP	01 50 18.6		1.0	10.5	
			i	50 28.6				
OCT	30	USCGS 01 51 59, 28.1S, 70.4W, H = 36 Km, M = 3.9 CENTRAL CHILE						
		LPB	eP	01 54 47.7				11.8
		PNS	eP	01 54 49				
OCT	30	PNS	iP	02 37 34.7	D	0.6	13.9	2.2
			S	38 01				
		LPB	P	02 37 35				2.0
			eS	37 59				
OCT	30	LPB	iP	03 57 29.3	D	1.0	26.0	5.2
			i	57 50.7				
		PNS	S	58 29.5				
			iP	03 57 33.5	D	0.5	5.4	
			i	57 55.6				
			e(S)	58 36				
OCT	30	LPB	eP	04 19 12				
			PNS	eP	04 19 51			
OCT	30	USCGS 05 05 31.5, 3.5S, 30.0E, H = 6 Km, M = 4.7 LAKE TANGANYKA REG						
		PNS	eP	05 18 57				
			eL	50.7				
		LPB	eP	05 19 00				97.0
OCT	30	USCGS 05 43 50.4, 22.5S, 63.9W, H = 9 Km, M = 4.9 SALTA PROVINCE, ARGENTINA						
		LPB	eP	05 45 38.5				7.3
			iP	45 42.3				
			iP	45 47.5				
			eS	46 51				
		CHA	P	05 45 40.7		1.0		
		PNS	P	05 45 43.8		0.9	17.1	
			i	45 48.0				
			i	45 56.0				
			S	46 50				
OCT	30	LPB	eP	06 21 09				
			PNS	e(P)	06 21 33			
OCT	30	LPB	eP	07 59 43		0.8	7.0	
				i	11 38			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	30	USCGS HALMAHERA	12 26 11,	7.0S, 128.8E,	H = 33 Km,	M = 4.9		
		LPB	eL	13 38 00				151.3
		PNS	eL	13 38 00				
OCT	30	LPB	eP	14 49 55				
		PNS	eP	14 50 02		0.9	5.7	
OCT	30	USCGS	15 20 36,	50.7N, 178.7E,	H = 33 Km,	M = 4.4		
			RAT IS,	ALEUTIAN IS				
		PNS	L	16 01 00				
		LPB	eL	16 04 00				117.4
OCT	30	PNS	eP	15 58 00				
		LPB	eP	15 58 26				
OCT	30	USCGS	19 04 18,	35.7N, 140.4E,	H = 76 Km,	M = 4.5		
			NEAR E COAST OF HONSHU,	JAPAN				
		LPB	ePKP	19 23 55				148.3
			pPKP	24 10.7				
			eL	20 14 00				
		PNS	P	19 23 56.1		1.0	13.1	
			pPKP	24 11.0				
OCT	30	CHA	eP	19 28 50.1		1.0		
		LPB	P	19 28 51.2				
			i	29 04.0				
			e(S)	29 42				
		PNS	iP	19 28 56.5	D	0.4	10.1	4.5
			S	29 48.4				
OCT	30	PNS	P	20 43 48.4		0.5	3.0	1.9
			S	44 11.4				
		LPB	eP	20 43 52				
OCT	30	LPB	eP	23 03 30				
OCT	31	LPB	eP	01 10 35				
		PNS	P	01 10 41.9	D	0.4	5.1	
OCT	31	LPB	P	02 26 03.5		0.7	10.4	
			i	26 38.7				
		PNS	iP	02 26 06.3	C	0.5	11.5	

OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	31	LPB	eP	02 52 34					
		PNS	eP	02 52 34.4				2.6	
			S	53 05.4					
OCT	31	USCGS	03 00 04, 19.8S, 71.2W, H = 33 Km, M = 4.1 OFF COAST OF N CHILE						
		PNS	P	03 00 11.0	C	1.0	7.9		
			i	00 15.1					
			S	00 52.6					
		LPB	iP	03 00 11.4	C	1.1	16.0	4.5	
			Pn	00	15.5				
			eS	00 57.5					
		CHA	P	03 00 16.6					
OCT	31	PNS	eP	03 23 20.6				1.7	
			iS	23 42					
		LPB	eP	03 23 23					
OCT	31	PNS	P	03 48 01.3				1.2	
			S	48 16.2					
		LPB	eP	03 48 04.5					
OCT	31	PNS	P	04 03 21.0		1.0	6.6		
		LPB	P	04 03 28.5		0.7	3.9		
OCT	31	LPB	eP	04 17 54.0		1.0	6.0		
		PNS	eP	04 18 00					
OCT	31	PNS	iP	04 31 13.0	C	0.4	10.1	2.3	
			S	31 40					
		LPB	iP	04 31 17.0		1.0	19.0		
OCT	31	PNS	P	05 16 50.0		1.0	5.3		
OCT	31	USCGS	05 18 59, 19.3N, 67.7W, H = 33 Km, M = 4.0 MONA PASSAGE						
		PNS	iP	05 18 52.3	D	0.6	4.4		
			L	28.6					
		LPB	P	05 18 54.5		1.0	8.0	35.9	
			eL	30 00					
OCT	31	PNS	eP	05 36 43				3.3	
			S	37 22					

OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	31	LPB PNS	eP P	06 05 39.5 06 05 44.5				
					D	0.8	6.1	
OCT	31	USCGS	08 20 31,	37.2S, 94.5W,	H = 33 Km, M = 4.2			
			W CHILE RISE					
		LPB	iP	08 26 04.7	D	0.8	39.2	31.2
			i	26 38.5				
			(PP)	27 07.5				
			L	35.3				
		PNS	P	08 26 11.8				
			i	26 39.0				
			S	31 25				
			L	34.9				
OCT	31	USCGS	09 09 24,	52.6S, 18.4E,	H = 33 Km, M = 5.3			
			SW OF AFRICA					
		LPB	eP	09 21 05				
		PNS	P	09 21 07.0		2.0	60.0	75.0
			S	30 35		1.3	29.5	
			eL	45 00				
OCT	31	PNS	eP	09 25 04.6				
			S	25 37				2.7
OCT	31	PNS	eP	09 28 05.6				
			i	28 20.8				
			e(S)	29 39				
		LPB	P	09 28 31.6		0.9	8.5	
OCT	31	LPB	eP	11 48 25				
		PNS	iP	11 48 32.2	D			1.8
			iS	48 54.2				
OCT	31	LPB	eP	13 17 12				
		PNS	P	13 17 14.1				1.9
			S	17 36.7				
OCT	31	USCGS	13 36 59,	29.8N, 141.9E,	H = 33 Km, M = 4.3			
			S OF HONSHU, JAPAN					
		PNS	PKP	13 56 46.3		0.9	6.6	
			eL	14 48 00				
		LPB	ePKP	13 56 47				149.4
			eL	14 48 00				
OCT	31	LPB	eP	14 51 04				
		PNS	P	14 51 05.3		0.9	9.1	

OCTOBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	31	LPB	P	14 54 38.3		0.7	4.9	5.9	
			iS	55 46.5					
		PNS	P	14 54 44.2				6.1	
			c	55 55					
OCT	31	USCGS	14 54 00, 7.3S, 129.1E, H = 108 Km, M = 4.7						
		BANDA SEA							
		PNS	PKP	15 13 33		1.0	13.1		
			i	13 43.6					
			PKP2	13 51.6					
			pPKP	13 54.0					
		LPB	ePKP	15 13 35				150.8	
			eL	16 05 00					
OCT	31	PNS	iP	18 15 07.3	D			2.0	
			iS	15 31					
		CHA	P	18 15 08.4					
		LPB	iP	18 15 10.4		0.8	9.8	2.3	
			iS	15 38					
OCT	31	USCGS	18 23 51.5, 19.3N, 67.8W, H = 33 Km, M = 4.5						
		MONA PASSAGE							
		PNS	P	18 30 43.4		0.6	3.6		
			eS	36 23					
			eL	41 00					
		LPB	P	18 30 46		0.7	10.4	35.6	
			eL	41 00					
OCT	31	USCGS	20 00 49, 55.6N, 164.2E, H = 33 Km, M = 4.6						
		KOMANDORSKY IS REG							
		LPB	eL	21 01 00				124.7	
OCT	31	PNS	iP	21 50 59.7	D	1.2	34.4		
OCT	31	LPB	P	23 41 05.5		0.8	18.4		
OCT	31	LPB	P	23 43 34.5		0.9	13.6		
			i	43 37.2					
		CHA	P	23 43 34.6		1.0			
		PNS	P	23 43 42.0				2.7	
			S	44 14					

NOVEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	1	PNS	P	01 56 16.3	D	1.0	22.4	2.4
			S	56 44				
		CHA LPB	P	01 56 18.8	0.8	12.5	2.3	
			iP S	01 56 19.0 56 46				
NOV	1	USCGS 02 22 45.9, 40.4N, 139.9E, H = 170 Km, M = 4.3 NEAR W CST OF HONSHU, JAPAN						
		PNS	ePKP	02 42 01.4	1.0	4.0	146.3	
		LPB	eL	03 30.9				
			ePKP	02 42 06.5				
			eL	02 42 06.5				
03 31 00								
NOV	1	USCGS 03 35 17.2, 6.6S, 128.9E, H = 202 Km, M = 4.7 BANDA SEA						
		LPB	PKP	03 54 50.5	0.6	12.4	151.4	
			PKP2	55 00				
			eL	04 46 00				
		PNS	PKP	03 54 50.5				
			eL	04 46 00				
04 46 00								
NOV	1	USCGS 04 52 11.3, 10.8N, 94.6E, H = 33 Km, M = 5.0 ANDAMAN IS REG						
		PNS	ePKP	05 12 13.8	1.2	10.1	162.4	
			eL	06 08 00				
		LPB	ePKP	05 12 14				
			eL	05 12 14				
05 12 14								
NOV	1	PNS	P	05 20 23.3	S		5.2	1.7
			S	20 44.6				
			20 44.6					
NOV	1	USCGS 07 01 00.4, 43.2N, 143.4E, H = 127 Km, M = 4.8 HOKKAIDO, JAPAN REGION						
		PNS	PKP	07 20 17.6	1.0	13.0	142.1	
			iPKS	23 45.8				
			eL	07.9				
		LPB	PKS	07 20 21.7				
			ePKS	23 46				
			eL	08 07 00				
08 07 00								
NOV	1	LPB	P	07 50 05.2	0.7	5.2		
		PNS	P	07 50 10.0			0.4	3.0
NOV	1	LPB PNS	P	08 23 47	0.6	3.6		
			P	08 23 48.3				

NOVEMBER 1968

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	1	PNS	P	09 29 20.7		0.4	2.5	4.7
			S	30 15				
		LPB	eP	09 29 27.5		0.9	13.6	5.1
			S	30 26.2				
NOV	1	USCGS KYUSHU, JAPAN	11 32 07, 31.4N, 131.6E, H = 5 Km, M = 4.6					
		PNS	ePKP	11 51 59				
			eL	12 45.4				
		LPB	ePKP	11 52 00				156.5
			eL	12 46 00				
NOV	1	LPB	eP	13 35 27				
		PNS	eP	13 35 32				
NOV	1	PNS	P	14 41 07.2				
			i	41 21.0				
		LPB	P	14 41 08		0.8	14.0	
			i	41 21.2				
NOV	1	USCGS OAXACA, MEXICO	14 55 31, 16.1N, 97.3W, H = 33 Km, M = 4.6					
		CCH	eP	15 03 17.8				
		PNS	eP	15 03 29.8		1.3	11.3	
			i	03 35.8				
			eL	16.1				
		LPB	eP	15 03 33				43.2
			eL	16 00				
NOV	1	LPB	eP	16 35 34				
		PNS	P	16 35 40.7		0.4	2.0	
NOV	1	USCGS TONGA IS	16 45 03, 15.0S, 173.2W, H = 33 Km, M = 4.6					
		LPB	eP	17 04 44				99.5
			eL	32 00				
		PNS	eP	17 04 45				
			SKS	09 28				
NOV	1	LPB	EP	17 34 39				
NOV	1	USCGS CRETE	22 22 27, 35.1N, 23.9E, H = 70 Km, M = 5.0					
		LPB	eP	22 36 06				100.9
			eL	23 10 00				
		PNS	eP	22 36 12				
			eL	23 10.4				



NOVEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	1	LPB PNS	eP P i	23 37 05 23 37 05.8 37 14.4		0.9	7.1	
NOV	2	USCGS KYUSHU, JAPAN	00 22	04.7, 31.7N, 131.8E, H = 98 Km, M = 4.4				
		LPB	ePKP	00 41 48				156.2
NOV	2	PNS LPB	P eP	01 48 06.8 01 48 11				
NOV	2	PNS LPB	iP S iP	03 14 37.4 15 01.9 03 14 37.6	D D	0.7 1.0	12.9 18.0	2.0
NOV	2	LPB PNS	eP eP	05 56 01.5 05 56 02		0.9	6.8	
NOV	2	PNS LPB	P P i	06 21 15.6 06 21 18.5 21 36.7		0.7 0.8	3.5 4.7	
NOV	2	LPB PNS CHA CCH	eP iS iP iS iP eP S	06 31 52 32 05.4 06 31 52.7 32 00.6 06 31 59.5 06 32 21.5 32 51.7	D	0.4 1.0	15.2	1.0 0.5 2.5
NOV	2	LPB PNS	P iP	08 06 02 08 06 06.2	C	0.8 0.4	7.0 4.6	
NOV	2	PNS LPB	eP e eP	09 13 05.6 13 24 09 13 13.5				
NOV	2	USCGS NR E CST OF HONSHU, JAPAN	09 14 05	37.7N, 141.8E, H = 45 Km, M = 4.2				
		LPB	ePKP eL	09 33 42.5 10 22 00				146.1
		PNS	ePKP eL	09 33 44 10 22 00		1.0	9.2	

NOVEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	2	USCGS N COLOMBIA	11 37 08,	6.9N, 73.0W,	H = 159 Km,	M = 4.1		
		LPB	eP	11 42 03				23.4
			PP	42 41.2				
		PNS	P	11 42 04.0		0.9	9.1	
			ipP	42 38.5				
			eS	46 00				
			eL	48 00				
NOV	2	USCGS BONIN IS REG	11 50 57,	28.8N, 139.3E,	H = 421 Km,	M = 4.3		
		LPB	PKP	12 10 05.5		0.8	18.3	158.9
			eL	13 05 00				
		PNS	ipKP	12 10 05.8	C	0.8	16.2	
			e	11 47.5				
			eL	13 05.3				
NOV	2	LPB	eP	12 15 04.5		1.0	10.0	
			e	15 55				
		PNS	eP	12 15 19.8				
NOV	2	LPB	eP	12 22 55				
		PNS	ip	12 22 57.4	C	1.0	22.4	4.1
			i	23 04.0				
			eS	23 45.7				
NOV	2	LPB	P	12 33 05.5		1.2	10.4	
NOV	2	LPB	eP	12 42 29				
		PNS	P	12 42 32.8		1.0	11.8	
NOV	2	LPB	P	13 22 19		0.8	7.0	
		PNS	eP	13 22 19		1.0	8.0	
NOV	2	LPB	P	13 53 44		0.8	12.6	
		PNS	P	13 53 44.7		1.0	7.9	
			e	54 04.0				
NOV	2	PNS	P	14 16 17		0.6	3.6	
NOV	2	PNS	eP	14 30 53				
		LPB	eP	14 30 58				
NOV	2	LPB	P	15 26 25.2		0.9	11.9	
		PNS	eP	15 26 33				
			P	17 22 35.6		0.6	5.8	1.9
			P	22 58.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	2	LPB PNS	eP iP i	17 28 40 17 28 41.5 28 58.8		0.8 0.5	8.4 7.9		
NOV	2	CCH LPB PNS	eP eP i eP	17 41 02 17 41 04 41 31.7 17 41 07					
NOV	2	USCGS	17 25 48, 43.1N, 145.5E, H = 63 Km, M = 4.1 HOKKAIDO, JAPAN REGION						
		LPB PNS	eL eL	18 32 00 18 32 00				141.8	
NOV	2	USCGS	20 00 11, 6.2S, 153.6E, H = 34 Km, M = 4.6 NEW BRITAIN REGION						
		PNS	PKP eL	20 19 27.6 21 02 00		1.4	20.2		
NOV	2	PNS	P	20 25 51.6		0.6	6.6		
NOV	2	PNS LPB CHA CCH	iP iS iP S eP eP	21 24 20.0 24 46.0 21 24 21.8 24 49.5 21 24 27 21 24 46.5	C	0.5 0.6 1.0	9.1 3.5	2.2 2.3	
NOV	2	CCH LPB PNS	P eP i eP i S	21 40 20.1 21 40 20.6 40 25.5 21 40 24.5 40 28.6 41 30	D			6.6	
NOV	3	LPB PNS	P P	00 34 06.5 00 34 08.5		0.8 0.6	8.4 8.0		
NOV	3	LPB PNS	eP eP	01 58 06 01 58 08.6					
NOV	3	LPB	eP i	02 39 14 39 13					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	3	PNS LPB	iP P	03 40 12.6 03 40 12.7	D	0.4 0.7	4.5 7.8	
NOV	3	USCGS NEW HEBRIDES IS		03 29 16.3, 15.1S, 167.4E, H = 153 Km, M = 5.0				
		LPB	eL	04 24 00				116.5
		PNS	eL	04 24 00				
NOV	3	LPB	eP	06 51 32				4.4
			S	52 24				
		CCH	P	06 51 34.7	D			
		PNS	P	06 51 48.5		0.6	4.4	3.6
			S	52 31.0				
NOV	3	LPB	P	07 21 36.6	D	0.8	9.8	
		PNS	P	07 21 40.3		0.5	8.5	
NOV	3	USCGS BOLIVIA		08 04 54, 17.6S, 63.7W, H = 35 Km, M = 4.4				
		CCH	iP	08 05 31.8	C			
		LPB	P	08 06 00.5				4.4
			iPP	06 12.5				
			S	06 47.5				
			i	07 10				
		PNS	iP	08 06 06.2	C	0.5	42.4	
NOV	3	CCH	P	08 09 24.9				
		LPB	P	08 09 48		0.7	7.6	5.4
			S	10 51.5				
		PNS	eP	08 09 53				
NOV	3	USCGS N CHILE		09 02 14, 21.4S, 69.1W, H = 100 Km, M = 4.7				
		LPB	P	09 03 28.5		1.0	106.0	4.9
			i	03 50.5				
			S	04 25.4				
		PNS	iP	09 03 31.2	C	1.0	78.9	
			iS	04 34				
NOV	3	PNS	eP	09 20 28.5		0.4	2.1	4.8
			S	21 24				
		LPB	eP	09 20 34.5		0.6	6.0	5.3
			S	21 36				
NOV	3	PNS	P	09 40 27.4		0.8	5.7	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	3	USCGS	11 37	22.7, 19.1N, 67.9W, H = 47 Km, M = 5.2				
		MONA PASSAGE						
		PNS	P	11 44 13.4		1.0	12.8	
			i	44 19.1				
			PP	45 36				
			S	49 48.4				
			iSS	52 11				
			eL	54.3				
		LPB	eP	11 44 16.4				35.1
			PP	45 39				
			S	49 46				
			eL	54.3				
NOV	3	USCGS	13 26	30, 15.6S, 75.4W, H = 41 Km, M = 4.4				
		NEAR CST OF PERU						
		LPB	P	13 28 12.5		1.2	62.2	7.1
			Pn	28 18.3				
			eS	29 32				
		PNS	P	13 28 12.5		0.6	11.7	
			S	29 32				
NOV	3	USCGS	16 24	31, 19.2N, 67.9W, H = 22 Km, M = 5.6				
		MONA PASSAGE						
		PNS	iP	16 31 25.3	C	1.2	58.7	
			iS	36 55.4				
			SS	39 10				
		LPB	iP	16 31 27.3	C			35.1
			PP	32 45				
			iS	36 58.5				
			SS	39 06				
			eL	42 00				
		CCH	iP	16 31 34.7	C			
NOV	3	LPB	iP	20 36 23.2	C	0.5	16.9	
NOV	3	USCGS	21 11	14, 7.6S, 107.9E, H = 15 Km, M = 5.1				
		JAVA						
		PNS	ePKP	21 31 10				
			ePKP2	31 36.4				
			i	32 22.5				
			i	45 23.0				
			eL	22 25 00				
		LPB	ePKP	21 31 11				155.7
			PKS	34 46				
			eL	22 25 00				
		CCH	ePKP	21 31 15.9				
		CHA	P	21 32 26				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	3	USCGS CARLSBERG RIDGE		21 43 10.7, 6.5N, 60.5E, H = 33 Km, M = 4.8				
		LPB	ePKP eL	22 02 18 45 00				128.7
		PNS	PKP eL	22 02 19.7 44.2		2.0	65.7	
NOV	3	CCH LPB PNS CHA	eP eP P P	23 37 36.8 23 37 43 23 37 45.0 23 37 45.0		0.8 0.8	18.2 15.2	
NOV	3	CCH	P	23 47 01.7	C			
NOV	4	CCH CHA	eP eP	00 04 28.8 00 04 33.8				
NOV	4	CCH PNS LPB	eP eP eS eP eS	01 17 06.5 01 17 38.5 18 35 01 17 43 18 39.5				
NOV	4	USCGS MOLUCCA SEA		02 02 00, 0.1S, 126.1E, H = 33 Km, M = 4.5				
		PNS	ePKP eL	02 21 56 03 14.4				
NOV	4	PNS LPB CHA	iP iS P S iP	02 49 36.4 50 06.2 02 49 40.7 50 13.5 02 49 41.7	C	0.4 0.8	20.2 9.8	2.5 2.8
NOV	4	CCH LPB CHA PNS	P eP eS eP P iS	03 38 24 03 38 54 40 02 03 38 57.0 03 38 58.2 39 55.2	D D			5.0
NOV	4	CHA PNS LPB CCH	eP eP S eP S eP	03 58 16.8 03 58 21 59 16.4 03 58 26.6 59 27 03 58 51		0.9	8.5	4.8 5.2

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	4	USCGS	03 55 11, 33.5S, 106.9W, H = 33 Km, M = 4.9 E IS CORDILLERA						
		PNS	eP	04 02 34		1.4	65.7		
			i	08 48					
			eSS	11 13					
			L	14 00					
		LPB	P	04 02 35.2		1.3	16.8	38	
			eS	08 49					
			eL	13.7					
		CCH	eP	04 02 44.9					
NOV	4	USCGS	06 05 16.1, 14.7N, 93.2W, H = 11 Km, M = 4.8 NEAR CST OF CHIAPAS, MEXICO						
		PNS	eP	06 12 45.2					
			pP	12 55.4					
			L	23.9					
		LPB	eP	06 12 48				40.0	
			eL	24.8					
NOV	4	USCGS	06 36 36.4, 14.3N, 93.3W, H = 35 Km, M = 4.8 NEAR CST OF CHIAPAS, MEXICO						
		PNS	eP	06 44 02.6					
			eS	49 59					
			L	55.6					
		LPB	eP	06 44 05				39.2	
			eL	56 00					
NOV	4	USCGS	06 49 26, 14.5N, 93.3W, H = 33 Km, M = 3.9 NEAR CST OF CHIAPAS, MEXICO						
		PNS	eP	06 56 56.4					
		LPB	eP	06 57 00				39.7	
NOV	4	USCGS	07 12 53, 14.0N, 92.6W, H = 31 Km, M = 4.0 NEAR CST OF CHIAPAS, MEXICO						
		PNS	eP	01 20 14.5					
			eL	31 00					
		LPB	eP	07 20 19				39.1	
			eL	32 00					
NOV	4	USCGS	07 21 30.8, 28.4N, 130.4E, H = 33 Km, M = 4.7 RYUKYU IS						
		LPB	ePKP	07 41 34				162.0	
		PNS	eL	08 38 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	4	CCH	eP	08 22 56.5					
		LPB	P	08 22 59.6		1.0	8.0		
		PNS	P	08 23 00.8					
NOV	4	USCGS	08 21 13.9, 14.4N, 92.8W, H = 33 Km, M = 4.4						
		NEAR CST OF CHIAPAS, MEXICO							
		LPB	eP	08 27 40				39.1	
		PNS	eP	08 28 39.2					
			eL	40.5					
NOV	4	PNS	iP	08 31 07.0	C	0.4	2.0	2.9	
			S	31 40.9					
NOV	4	USCGS	08 55 53.2, 4.5S, 77.8W, H = 90 Km, M = 4.6						
		N PERU							
		PNS	eP	08 59 20.2		0.8	9.1		
			i	59 29.4					
			S	09 02 09.5					
			L	03.2					
		LPB	eP	08 59 23.5		0.8	2.8	14.9	
			i	59 28.5					
			i	59 34.0					
		CHA	eP	08 59 32.9					
		CCH	eP	08 59 52.5					
NOV	4	USCGS	09 14 55, 4.2S, 77.7W, H = 33 Km, M = 4.5						
		N PERU							
		PNS	eP	09 18 26.4		0.8	4.1		
			i	18 35.6					
			eS	21 14					
			eL	22.2					
		LPB	eP	09 18 28.5				14.7	
			i	18 35.5					
			i	18 40.0					
			eS	21 12.5					
		CCH	eP	09 18 56.9					
NOV	4	USCGS	10 52 57.6, 19.4N, 67.7W, H = 33 Km, M = 4.6						
		MONA PASSAGE							
		PNS	eP	10 59 50		0.6	3.6		
			S	11 05 31.6					
			SS	07 53					
			eL	10.5					
		LPB	eP	10 59 51				36.0	
			eS	11 05 33					
			eL	10 00					
		CHA	eP	10 59 55.1					
		CCH	eP	10 59 58.7					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	MAG	
NOV	4	PNS	iP	11 06 09.3	D			4.0	
			S	06 35.9					
		LPB	P	11 06 10					
			i	06 37.7					
		CHA	iP	11 06 11.1	D				
NOV	4	CCH	eP	14 31 49.7					
		PNS	P	14 32 23.9				4.8	
			S	33 19.4					
		LPB	P	14 32 31.2		0.8	15.4	5.1	
			eS	33 30					
NOV	4	USCGS	14 50 02.7, 17.2N, 99.3W, H = 63 Km, M = 4.8						
		GUERRERO, MEXICO							
		PNS	iP	14 58 15.0	D	1.0	31.2		
			ipP	58 26.9					
			eL	15 11.5					
		LPB	eP	14 58 18		1.0	20.0	4.8	
			ipP	58 29.5					
			eL	15 11 00					
		CCH	P	14 58 37.7	D				
NOV	4	LPB	eL	22 07.8					
NOV	4	LPB	iP	22 18 10.7		0.8	3.5	5.3	
			S	19 11.5					
		PNS	iP	22 18 14.4	C	0.5	26.4	5.4	
			eS	19 16.6					
NOV	5	USCGS	02 13 51.2, 41.8S, 80.1E, H = 33 Km, M = 5.5						
		MID-INDIAN RISE							
		LPB	ePKP	02 32 27				114.6	
			eSS	49 23					
			G	03 02 00					
			eL	09 00					
		PNS	PKP	02 32 33		1.6	15.8		
			i	40 41.0					
			iPS	43 14.0					
			SS	49 32					
			iSSS	53 39.0					
			G	03 01 55					
			L	08.3					
NOV	5	CCH	P	02 38 31.8	D				
		LPB	eP	02 38 38					
		PNS	P	02 38 40.4					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	5	USCGS NEW HEBRIDES IS	02 30 15,	19.2S, 169.2E,	H = 29 Km,	M = 5.3		
		LPB	ePKP	02 48 50				113.4
			L	03 21.5				
		PNS	ePKP	02 48 52.8				
			eL	03 24 00				
NOV	5	USCGS S BOLIVIA	05 14 35.6,	19.2S, 67.5W,	H = 238 Km,	M = 4.2		
		CCH	iP	05 15 18.0	D			
			S	16 05.0				
		LPB	iP	05 15 25.3	C	0.8	154.4	2.7
			iS	16 02.5				
		CHA	iP	05 15 26.1		1.0		
		PNS	iP	05 15 29.1	C			
			S	16 08				
NOV	5	PNS	P	09 02 00.8		0.5	6.0	2.0
			S	02 24.8				
NOV	5	USCGS NEW BRITAIN REGION	10 46 06,	6.0S, 151.6E,	H = 64 Km,	M = 5.0		
		LPB	ePKP	11 05 23				134.6
			eL	49 00				
		PNS	ePKP	11 05 23.7				
			eL	49.5				
NOV	5	PNS	iP	11 44 21.6	D	0.6	9.5	1.9
			S	44 44.6				
NOV	5	USCGS TONGA IS	12 45 13.9,	15.3S, 175.2W,	H = 38 Km,	M = 5.3		
		PNS	eP	12 59 00				
			iSS	13 17 47				
			iSSS	21 43				
			eG	26.9				
			L	33.2				
		LPB	eP	12 59 02				
			PP	13 03 16				
			PS	12 30				
			SS	17 23				
			G	27 00				
			L	33 00				
NOV	5	LPB	eP	13 47 39		0.9	29.0	
		PNS	iP	13 47 43.3	C	0.4	30.3	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	5	USCGS LOYALTY	13 42 IS REG	06.5, 22.5S, 172.9E, H = 66 Km, M = 4.9				
		LPB	eSKS	14 07 15				108.8
			eL	32.2				
		PNS	eSKS	14 07 15				
NOV	5	PNS	P S	14 13 18.0 13 42.7		0.4	4.0	2.1
NOV	5	PNS	iP S	14 29 23.5 29 46.0	D			1.8
NOV	5	LPB PNS	P P	14 39 33.5 14 39 35.2		1.0 0.8	32.0 8.1	
NOV	5	USCGS SANTA CRUZ	16 03 IS	48.9, 11.)S, 166.9E, H = 39 Km, M = 4.6				
		LPB	eL	17 00 00				119.1
NOV	5	USCGS NEPAL	18 53 04,	28.3N, 84.)E, H = 33 Km, M = 5.2				
		PNS	ePKP i i	19 12 52.6 13 45.0 25 00		1.0	4.9	
		LPB	ePKP eL	19 12 53.5 20 04 00				151.2
NOV	5	PNS LPB	eP eP	21 04 19 21 04 21				
NOV	5	PNS LPB	P S P	21 55 02.8 55 58 21 55 10.5		0.5 0.9	3.0 10.2	4.8
NOV	5	PNS LPB	eP P	22 00 41.4 22 00 42.3		1.0 0.9	6.6 6.8	
NOV	5	LPB PNS	eP eP	22 04 51.5 22 04 53				
NOV	5	LPB PNS	eP eP S	22 57 42 22 57 51 58 18				2.3

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	6	LPB	P	02 58 01.7		0.8	2.8		
NOV	6	LPB	iP	03 42 57.0	C	1.0	20.0		
			eL	14 15					
		PNS	iP	03 43 00.1	C	0.7	11.2		
			e	43 10.6					
NOV	6	USCGS	03 50 11, 45.7N, 151.0E, H = 33 Km, M = 4.5						
		KURILE IS							
		PNS	ePKP	04 09 29					
		LPB	ePKP	04 09 28				137.4	
			eL	55					
NOV	6	USCGS	08 36 04.6, 24.2S, 66.9W, H = 182 Km, M = 4.3						
		SALTA PROVINCE, ARGENTINA							
		LPB	iP	08 37 56.8	C	0.8	87.7	7.7	
			i	38 05.6					
			S	39 18					
		CHA	P	08 37 58.7	D	1.0			
NOV	6	USCGS	08 29 14, 59.8N, 30.0W, H = 33 Km, M = 4.8						
		N ATLANTIC OCEAN							
		LPB	eL	09 09				82.3	
NOV	6	LPB	P	09 33 43.2		0.8	5.6	4.2	
			i	33 46.2					
			S	34 32.3					
NOV	6	LPB	eP	10 05 24.5					
NOV	6	LPB	iP	10 40 21.7		1.1	41.3		
			i	40 31.8					
NOV	6	LPB	eP	11 42 35					
NOV	6	PNS	eP	13 10 57.6					
		LPB	eP	13 11 03		1.0	12.0		
			eL	52.7					
NOV	6	LPB	P	13 52 45.2				2.1	
			S	53 10.5					
		PNS	iP	13 52 46.2	D			2.0	
			iS	53 10.4					
		CHA	P	13 52 47.6	C	1.0		1.9	
			S	53 11.0	D				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	6	USCGS FIJI IS REG	14 43	16.6, 17.9S, 178.5W, H = 548 Km, M = 4.8				
		LPB	ePKP eL	14 56 14 15 30				103.0
NOV	6	LPB PNS	eP P	18 01 13 18 01 13.3		0.9 0.9	11.9 8.4	
NOV	6	USCGS CARLSBERG RIDGE	21 51	42, 1.6N, 66.8E, H = 33 Km, M = 4.8				
		LPB	eL	22 55				132.7
NOV	6	LPB PNS	P e(S) P S	23 40 18.6 41 04.6 23 40 21 41 08		1.1 1.0	69.0 14.6	4.0
NOV	6	USCGS N CHILE	23 49	54.1, 20.3S, 69.2W, H = 100 Km, M = 4.4				
		LPB	P iS	23 50 55.0 51 39.5	C	0.8	250.0	3.7
		CCH PNS	P iP S	23 50 57.2 23 50 57.5 51 40	C	0.6	21.0	
		CHA	iP	23 50 57.5	D	1.0		
NOV	7	USCGS SZECHWAN PROVINCE, CHINA	00 43	00.0, 32.9N, 104.0E, H = 33 Km, M = 4.7				
		LPB	ePKP eL	01 03 50 02 01				162.0
NOV	7	USCGS TIBET	04 08	12, 33.8N, 80.7E, H = 33 Km, M = 5.1				
		CCH PNS LPB	eP PKP P eL	04 27 52.0 04 27 54.6 04 27 54.7 05 17		1.0 0.9	12.2 8.5	147.1
NOV	7	LPB CCH PNS	eP e eP eP e	04 36 29 36 56 04 36 36.7 04 36 48 36 57				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	7	PNS	eP	06 52 33		1.0	4.9		
			eL	07 44					
		LPB	eP	06 52 34		1.1	4.6		
			eL	07 44					
NOV	7	USCGS	07 00 02, 19.6S, 68.9W, H = 119 Km, M = 4.1 CHILE-BOLIVIA BORDER REGION						
		LPB	iP	07 00 52.2	D	0.8	11.2	3.1	
			S	01 31.7					
		PNS	iP	07 00 59.2	D				
			S	01 41.4					
		CCH	P	07 01 00.3	C				
NOV	7	PNS	P	07 50 29.4		0.6	6.1	2.8	
			S	50 52					
NOV	7	PNS	iP	08 44 31.9	D			1.8	
			iS	44 53.8					
		LPB	iP	08 44 34.0	C	0.8	14.0	2.0	
			S	44 58					
NOV	7	USCGS	08 55 50.5, 7.1N, 125.4E, H = 83 Km, M = 5.0 MINDANAO, P.I.						
		LPB	PKP	09 15 49		1.0	10.0	163.9	
			PKP2	16 45					
			eL	10 14					
		PNS	PKP	09 15 49		1.9	52.0		
			L	10 14					
NOV	7	CCH	P	09 44 24.2	D				
		PNS	eP	09 45 07.4				2.8	
			S	45 40					
		LPB	eP	09 45 11					
NOV	7	USCGS	12 50 01.1, 22.3S, 68.5W, H = 126 Km, M = 4.5 N CHILE						
		CCH	P	12 51 21.3	D				
		LPB	P	12 51 25.5		0.9	35.0	5.8	
			i	51 45					
			eS	52 13					
		PNS	iP	12 51 29.3	D	1.2	46.9		
NOV	7	USCGS	13 23 37, 29.3S, 71.4W, H = 55 Km, M = 4.4 NEAR CST OF CENTRAL CHILE						
		LPB	eP	13 26 40		1.0	16.0	12.5	
			i	26 51.5					
		PNS	P	13 26 46					
			iPP	26 52					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	7	USCGS S INDIAN RISE	13 16 46,	41.8S, 88.3E,	H = 33 Km,	M = 5.1		
		LPB	eL	14 05				117.9
		PNS	eSS	14 05 50				
			eL	12.8				
NOV	7	USCGS N CHILE	14 29 00,	22.2S, 68.5W,	H = 60 Km,	M = 4.2		
		LPB	eP	14 30 26				5.8
			i	30 33				
		CCH	iP	14 30 26.1	C			
		PNS	iP	14 30 33.7	C	1.2	27.0	
			eS	31 38				
NOV	7	PNS	P	15 30 11.8		0.4	11.2	2.3
			iS	30 40.2				
NOV	7	PNS	P	16 20 40.8		0.6	2.9	3.1
			S	21 16.4				
		LPB	eP	16 21 14		0.8	9.8	
NOV	7	USCGS TONGA IS	17 37 41.2,	15.1S, 173.6W,	H = 45 Km,	M = 5.0		
		PNS	eP	17 51 22				
			eL	18 24.6				
		LPB	eL	18 24				99.6
NOV	7	LPB	eP	19 03 41.5		0.8	11.2	
		PNS	eP	19 03 43				
			e(S)	05 23				
NOV	7	PNS	iP	19 41 41.9	D			1.9
			S	42 04.9				
		LPB	eP	19 41 43				
NOV	7	USCGS N PERU	20 31 33,	7.8S, 75.9W,	H = 147 Km,	M = 4.8		
		PNS	P	20 34 07.9		0.8	14.0	
			i	34 36.4				
			eS	36 32.6				
		CHA	eP	20 34 11.0	D	1.0		
			e	34 13.2				
		LPB	P	20 34 14.2		0.9	45.6	11.2
			i	34 24.2				
			i(PP)	34 38.6				
			eS	36 18.5				
		CCH	eP	20 34 35.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	7	USCGS NEW BRITAIN REG	20 26 15.7, 59S, 152.2E, H = 50 Km, M = 5.0					
		PNS	eL	20 45 32.7		1.6	34.5	
			eL	21 29				
		LPB	ePKP	20 45 34				134.0
			eL	21 29				
NOV	7	LPB	P	21 44 57.2		1.0	26.0	
			(S)	45 54				
		CCH	eP	21 45 00				
NOV	8	USCGS EASTER IS CORDILLERA	03 19 17, 23.4S, 115.2W, H = 33 Km, M = 5.0					
		PNS	eP	03 27 26.6		2.0	154.1	
			i	34.1				
			eS	34 07				
			SeS	37 34				
			eL	40.8				
		LPB	eP	03 27 28.8		2.2	140.0	44.0
			S	34 04				
			eL	40.8				
		CCH	P	03 27 42.4	C			
NOV	8	USCGS IRAN	03 14 10.1, 36.1N, 50.9E, H = 23 Km, M = 5.0					
		LPB	ePKP	03 33 01				122.6
NOV	8	LPB	eP	03 40 28		0.7	2.6	2.3
		PNS	eP	03 40 31.5				1.0
			S	45				
		CHA	P	03 40 32.8		1.0		
			i	03 40 40.0		1.0		
NOV	8	USCGS ANDREANOF IS, ALEUTIAN IS	03 50 08.0, 51.2N, 178.4W, H = 41 Km, M = 4.7					
		LPB	ePKP	04 08 53				115.1
			eL	04 44.9				
NOV	8	USCGS NEAR IS, ALEUTIAN IS	11 35 57.0, 52.4N, 173.0E, H = 41 Km, M = 4.9					
		PNS	ePKP	11 54 54				
		LPB	ePKP	11 54 55				120.5
			eL	12 53				
NOV	8	USCGS NR S CST OF HONSHU, JAPAN	13 15 22.0, 35.2N, 139.8E, H = 91 Km, M = 4.5					
		PNS	iPKP	13 35 01.0	E	1.9	85.1	
		LPB	eL	25				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	8	LPB PNS	eP iP eS	14 34 05 14 34 21.6 45.7	D	0.4	6.9	2.0
NOV	8	USCGS NR CST OF PERU		14 55 36.0, 10.6S, 78.6W, H = 32 Km, M = 4.5				
		PNS	eP i i	14 58 19 26.2 15 01 47		1.0	14.1	
		LPB	eP	14 58 25.5		0.9	17.0	11.4
			S	15 00 19.2				
		CCH	eP	14 58 54.1				
NOV	8	USCGS S SUMATRA		15 36 30.0, 4.8S, 101.9E, H = 33 Km, M = 5.1				
		LPB	ePKP	15 56 25				156.1
		PNS	i	57 06				
NOV	8	LPB PNS	eP eP S	17 38 48 17 38 49 39 10				2.3
NOV	8	LPB PNS	eP eP S	18 16 07 18 17 20.8 47				2.2
NOV	8	PNS	eP S	18 29 36.2 30 02				2.1
NOV	8	PNS	P iS	19 11 50.4 12 13		0.6	12	1.8
NOV	9	PNS	eP S	00 17 45.6 10				
		LPB	P	00 17 55.5		1.0	9.0	
NOV	9	PNS	eP S	01 13 16 42				2.2
		LPB	P	01 13 17.5		0.7	5.2	
NOV	9	USCGS PERU		02 01 57.7, 14.9S, 71.8W, H = 126, M = 4.4				
		CCH	iP	02 03 30.9				
		PNS	iP eS	02 02 52.6 03 42	C			
		CHA	iP	02 02 56.7	D	1.0		
			S	03 39.7				
		---		02 02 58.0 03 43	C	1.0	18.0	4.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	9	CCH PNS	eP eP S	02 16 45.9 02 17 20 18 03				3.6
NOV	9	USCGS REVILLA GIGEDO IS REG		03 18 28.0, 19.4N, 109.0W, H = 33 Km, M = 4.2				
		PNS	eP	03 27 49		1.0	8.6	
			pP	58.6				
		LPB	eP	03 27 50		0.8	5.6	54.0
NOV	9	PNS	eP	03 49 29.2		0.5	2.8	2.2
			S	55.4				
		LPB	P	03 49 33.8				
			i	38.4				
			(S)	59.5				
		CCH	eP	03 50 00.2				
NOV	9	PNS	iP	03 53 00.7	D	0.6	8.8	
		LPB	P	03 53 03		0.7	6.5	
NOV	9	CCH	P	04 33 28.8	C			
		LPB	P	04 34 04.5		0.9	11.9	2.6
			S	36				
			eP	04 34 11.8				2.9
			i	15.6				
			S	46.2				
NOV	9	PNS	eP	04 43 19.6		0.4	1.9	3.6
			S	44 02				
NOV	9	PNS	iP	05 13 24.0	D	0.4	4.2	8.1
			eS	15 00				
		LPB	P	05 13 28		1.0	18.0	7.6
		CCH	eP	05 13 31.5				
NOV	9	USCGS LA RIOJA PROV. ARGENTINA		05 40 01, 28.8S, 68.1W, H = 92 Km, M = 4.3				
		CCH	P	05 42 48.7	C			
		LPB	P	05 42 53.6		0.9	3.5	29.8
			eS	45 06				
		PNS	P	05 42 56.5		0.7	5.5	
			eL	46				
NOV	9	PNS	eP	05 43 08.5				2.3
			S	35.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	9	PNS	eP S	05 45 08.5 35.4				2.3
NOV	9	CCH PNS LPB	eP eP eS eP	06 25 53.2 06 26 23 27 21 06 26 32.5		0.6	2.4	
NOV	9	LPB PNS	eP e	06 47 26 43.4		1.0	8.6	
NOV	9	LPB PNS	iP e(S) iP S	07 13 59.8 15 07 07 14 03.5 15 12.6	C	0.5	8.5	6.0
NOV	9	USCGS N EASTER IS	CORDILLERA	07 30 17.0, 4.2S, 105.9W, H = 33 Km, M = 4.1				
		LPB PNS	eL L	07 45 07 45.2				29.8
NOV	9	CCH LPB PNS	eP P P	08 04 16.6 08 04 26.8 08 04 30.7		1.0 0.7	10.0 4.0	
NOV	9	PNS	eP S	09 16 40 17 06				2.2
NOV	9	PNS LPB	eP P S	09 18 38.4 09 18 43.0 19 14	C	1.0	18.0	2.6
NOV	9	PNS	eP eS	09 41 00 26.6				
NOV	9	PNS LPB CHA SMP	P iS P i iS P P	09 58 15 40 09 58 19.6 25.5 46.5 09 58 20.2 09 58 49.2	D C	0.6 1.0 1.0	8.8 48.0	2.1 2.3
NOV	9	PNS	eP S	10 09 15.4 40.7				2.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	9	PNS	eP S	10 33 42 34 07.8				2.1
NOV	9	PNS	eP S	10 51 41.7 52 06.2		0.7	5.6	2.0
		LPB	P e	10 51 47 51.4		1.0	18.0	
NOV	9	PNS	eP S	10 55 29 56 13				3.8
NOV	9	PNS	eP S	11 08 54.2 09 21.2				2.3
		LPB	eP	11 09 59				
NOV	9	PNS	eP S	11 22 04.6 30.5				2.2
NOV	9	USCGS NE OP TAIWAN		11 26 24.7, 26.9N, 125.5S, H = 39 Km, M = 5.4				
		PNS	PKP iPKP2 eL	11 46 27.3 47 15.1 12 43.2	C	2.0	104.1	
		LPB	PKP iPKP2 eL	11 46 27.7 47 16.5 12 43		1.1	20.7	163.3
		CCH	PKP PKP2	11 46 29.6 47 20.1	C C			
NOV	9	PNS	eP i eS	11 55 04.2 06.5 46		0.4	3.8	
		LPB	iP i S	11 55 09.2 11.5 40	C	0.8	8.8	2.6
		CHA	iP	11 55 11.1	D	1.0		
		CCH	iP	11 55 40.9				
NOV	9	LPB	P	12 13 34		0.6	14.4	
		PNS	iP	12 13 35.6	C	0.9	15.9	
NOV	9	PNS	iP S	12 37 38.7 38 02.3	D			2.0
		LPB	iP S	12 37 38.8 38 02.7	D	0.7	10.3	2.0
		CHA	iP	12 37 39.3	D	1.0		
		CCH	P	12 37 56.0	D			
NOV	9	PNS	eP S	12 46 32 55				

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MONTH	DAY	STA	PHASE	TIME	SIEN	PER	AMPL	DIST	
NOV	9	PNS	P	13 35 05		0.5	3.4	2.3	
			S	32					
		LPB	P	13 35 09.5		0.7	10.4	2.2	
			S	35.8					
NOV	9	USCGS ANDREANOF	14 09 44.4, 51.9N, 173.7W, H = 47 Km, M = 4.8 IS, ALEUTIAN IS						
		LPB	eL	15 03				112.3	
NOV	9	PNS	eP	15 22 15.5				3.7	
			i	28.4					
			S	23 08.2					
NOV	9	PNS	eP	15 27 17.7					
			eS	43					
NOV	9	PNS	eP	16 06 49.6					
		LPB	eP	16 06 51					
NOV	9	PNS	P	16 37 28.1				3.1	
			S	38 04.2					
NOV	9	PNS	eP	16 42 45		1.1	12.1		
NOV	9	PNS	eP	16 52 53.8				3.5	
			i	53 13.2					
			S	35					
NOV	9	PNS	P	17 20 02.0				1.8	
			S	24.4					
NOV	9	USCGS BOLIVIA	17 54 02.0, 18.8S, 67.4W, H = 242 Km, M = 4.1						
		CCH	iP	17 54 44.1 D					
		LPB	iP	17 54 48.0 C		0.7	13.0	2.7	
			iS	55 22					
		CHA	iP	17 54 49.1 C		1.0			
			S	55 18.8					
		PNS	iP	17 54 51.9 C		0.7	133.3		
			S	55 28.4					
NOV	9	LPB	eP	20 44 13.5				35.5	
			eL	54					
		PNS	eP	20 44 14					
			eS	49 43					
			eL	54.4					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	9	PNS LPB	P P	21 03 55.6 21 03 57.5		0.5 1.0	8.7 26.0	
NOV	9	USCGS MONA PASSAGE	21 55	36.7, 19.3N, 67.9W, H = 14 Km, M = 4.6				
		PNS	P i S L	22 02 31. 04 07 08 02 12.5		1.0	6.7	
		LPB CCH	eP eP	22 02 35 22 02 42.8		1.1	16.0	35.5
NOV	9	PNS	eP S	23 36 56.6 37 22.7				2.2
NOV	10	PNS	eP S	00 49 41 50 14.4				2.8
NOV	10	USCGS SAN JUAN PROV. ARGENTINA	03 02	32.5, 31.9S, 68.4W, H = 113 Km, M = 6.0				
		LPB	P i eS eL	03 06 04.0 06.7 08 55 10				15.2
		PNS	P eS	03 06 07.3 08 41	C	1.1	53.7	
		CHA CCH	P P	03 06 07.3 03 06 53.7	D C			
NOV	10	PNS LPB	eP eP	04 41 42 04 41 49.5				
NOV	10	LPB PMS	ePKP ePKP	05 25 54.5 05 26 00				150
NOV	10	PNS	iP iS	06 38 44.1 39 08.7		0.5	9.3	2.1
		LPB	eP S	06 38 44.6 39 10				2.1
		CCH	eP	06 39 17.9				
NOV	10	LPB PNS	P P e	10 05 12.5 10 05 15.2 27.1		1.1 0.9	27.6 28.7	
NOV	10	LPB PNS	eP P S	12 06 16 12 06 17 43.6				2.3

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	10	PNS	P S	12 37 46.8 38 56.6		0.9	12.9	5.2
NOV	10	BSCGS RAY IS, ALEUTIAN IS		13 29 55.0, 51.2N, 178.7E, H = 26 Km, M = 4.3				
		LPB	eL	14 25				117.3
NOV	10	LPB PNS	P P	14 12 44.5 14 13 47		0.6 0.9	8.4 13.9	
NOV	10	PNS	eP S	18 43 27 44 10				3.7
NOV	10	PNS LPB	eP S eP	18 53 35.4 54 38.6 18 53 37.5		0.5	2.5	5.5
NOV	10	PNS LPB	P S P	19 55 01.9 25.4 19 55 08.0				1.9
NOV	10	PNS	P S	20 02 42.0 03 04		0.3	2.3	1.8
NOV	10	PNS	eP S	20 24 34.4 25 00.7				2.2
NOV	10	PNS LPB	iP iS iP	20 44 37.0 45 01.5 20 44 37.4		0.5 0.9	24.9 49.3	2.0
NOV	10	PNS CHA LPB	iP iS iP iP	22 50 59.1 51 24 22 51 01.2 22 51 02.8	D D D	0.6 0.8	120.0 74.0	2.2
NOV	10	PNS LPB	eP i S eP	23 09 49 50.3 10 22.8 23 09 53.5				2.0
NOV	11	PNS	P S	00 08 26 51		0.5	7.5	2.1
NOV	11	PNS	eP S	00 44 57.6 45 22				2.0
				00 47 47 48 12.8				2.2

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	11	USCGS	01 34 37.0, 51.4N, 176.2E, H = 33 Km, M = 4.6		RAT IS, ALEUTIAN IS			
		PNS	eSS	02 11 05				
			eL	31.2				
		LPB	eL	02 31				118.8
NOV	11	USCGS	03 26 11.0, 34.0N, 142.6E, H = 33 Km, M = 3.9		OFF E CST OF HONSHU, JAPAN			
		LPB	ePKP	03 45 53.5				147.4
		PNS	ePKP	03 45 54.3				
NOV	11	PNS	eP	04 07 12		0.7	6.2	
			eS	08 01				
		LPB	eP	04 07 18.0				
NOV	11	PNS	eP	05 23 11.5				2.1
			S	37				
		LPB	eP	05 23 16				
NOV	11	PNS	eP	05 27 13				2.0
			S	37				
		LPB	eP	05 27 17		1.0	12.0	
NOV	11	PNS	P	05 35 11				2.0
			eS	34.6				
NOV	11	PNS	P	05 56 33		0.4	2.6	1.8
			S	55.6				
			eP	05 56 37.5				
NOV	11	LPB	eP	08 20 08				
		PNS	eP	08 20 14.5				1.0
			S	27.6				
NOV	11	PNS	eP	08 37 32				2.1
			S	57				
		LPB	eP	08 37 48				
NOV	11	USCGS	09 47 36.7, 18.8S, 168.9E, H = 81 Km, M = 4.9		NEW HEBRIDES IS			
		LPB	ePKP	10 05 15.5				113.5
			eSS	23 35				
			eL	41				
		PNS	eSS	10 23 48				
			eL	41				
NOV	11	USCGS	15 31 04.2, 52.3N, 169.1W, H = 38 Km, M = 5.4		S			



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	11	PNS	P iS	16 06 52 07 32		0.5	8.1	3.4
NOV	11	USCGS KURILE IS	16 03 38.0, 50.3N, 155.5E, H = 145 Km, M = 4.9					
		PNS	PKP pPKP eL	16 22 36.4 23 11 17 03.9		1.2	16.5	
		LPB	ePKP	16 22 37				131.4
NOV	11	USCGS YUGOSLAVIA	16 16 13.7, 45.6N, 15.8E, H = 19 Km, M = 5.0					
		PNS	eP SKS eL	16 29 35.5 40 20 17 01.6				
		LPB	eP eL	16 29 37 17 01				97.4
NOV	11	PNS	iP	17 48 45.7	D	0.9	15.5	
NOV	11	USCGS FIJI IS REG	17 57 43.4, 17.5S, 177.2W, H = 390 Km, M = 4.7					
		LPB	eL	18 45				102.1
		PNS	eL	18 45.3				
NOV	11	USCGS OFF CST OF N CALIFORNIA	18 21 05.0, 40.3N, 127.1W, H = 33 Km, M = 4.5					
		LPB	eP eL	18 33 03 58				78.3
		PNS	eP pP L	18 33 04 14.6 57.9		1.0	6.8	
NOV	11	PNS	iP	18 46 54.1	D	0.6	14.5	
NOV	11	USCGS FOX IS, ALEUTIAN IS	18 35 13.0, 52.7N, 169.4W, H = 41 Km, M = 4.6					
		LPB	eP eL	18 35 43 19 27				109.8
		PNS	eL	19 27.6				
NOV	11	USCGS ECUADOR	20 17 46.5, 1.2S, 79.2W, H = 118 Km, M = 4.3					
		PNS	eP S eL	20 21 55.6 25 56 26.7		1.0	15.5	
				20 21 58.5 27				18.4

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	11	USCGS NR CST OF CHILE	22 33	33.7, 31.6S, 71.5W, H = 33 Km, M = 4.6				
		CCH	eP	22 37 05.6				
		PNS	P	22 37 09		1.0	23.8	
			eL	41				
		LPB	eP	22 37 09.5		0.9	22.2	15.4
			eL	41				
		CHA	iP	22 37 21.6	D			
NOV	12	USCGS VIRGIN IS	00 44	19.3, 19.6N, 64.3W, H = 24 Km, M = 4.4				
		PNS	iP	00 51 15.7	C	1.4	21.6	
			eS	56 50				
			L	59.5				
		LPB	eP	00 51 21		1.0	13.0	36.0
			eL	01 00				
NOV	12	PNS	iP	02 19 20.2	D			2.0
			iS	44.0				
		LPB	iP	02 19 23	D	0.7	18.2	
NOV	12	USCGS COSTA RICA	04 07	27.0, 8.7N, 83.6W, H = 35 Km, M = 4.4				
		LPB	eP	04 13 26.5				29.3
			eS	18 37				
			eL	21.4				
		PNS	iP	04 13 32.3	C	1.4	20.6	
			eL	21.7				
NOV	12	PNS	P	05 15 59.4				1.9
			S	16 22.6				
NOV	12	USCGS TIMOR	04 57	36.0, 8.6S, 127.2E, H = 33 Km, M = 4.4				
		PNS	P	05 17 31.7		1.0	13.0	
			i	40.8				
		CCH	eP	05 17 31.8	C			
		LPB	PKP	05 17 32		0.7	9.2	150.4
			eL	06 08				
NOV	12	CCH	P	05 51 54.4				
		LPB	eP	05 52 35.7				2.5
			S	53 05.5				
		PNS	P	05 52 37				1.2
			S	53 14.6				
NOV	12	PNS	P	06 00 24		0.8	9.1	10.6
			eS	01 06				
		LPB	eP	06 00 32				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	USCGS SANTA CRUZ IS	06 15	31.6, 10.5S, 166.2E, H = 166 Km, M = 4.3				
		LPB	ePKP	06 33				110.7
			eL	07 07				
		PNS	PKP	06 34				
NOV	12	PNS	eP	06 38		0.9	5.2	
			e	26.6				
		LPB	P	06 38		1.0	12.0	
NOV	12	LPB	P	07 17		1.5	26.0	
			eL	30				
		PNS	P	07 17		1.8	53.0	
			i	28.4				
NOV	12	PNS	iP	07 45		0.7	10.9	
		LPB	P	07 45	D	1.0	15.0	
NOV	12	USCGS NR CST OF W PAKISTAN	08 28	23.0, 23.4N, 61.6E, H = 33 Km, M = 4.7				
		LPB	ePKP	08 47				131.8
			eL	09 31				
		PNS	eL	09 31				
NOV	12	USCGS NEW GUINEA	09 00	01.4, 2.6S, 138.9E, H = 28 Km, M = 5.4				
		PNS	iPKP	09 19		1.5	111.6	
			SS	42 10				
			eL	10 09.6				
		LPB	PKP	09 19		1.2	44.2	147.5
			eL	10 09				
NOV	12	USCGS S OF TONGA IS	09 50	52.8, 26.5S, 175.7W, H = 19 Km, M = 5.2				
		PNS	eP	10 04				
			eL	37				
		LPB	eL	11 38				95.8
NOV	12	USCGS CHILE-ARGENTINA BOR REG	11 50	31.6, 23.8S, 67.6W, H = 126 Km, M = 5.6				
		CCH	iP	11 52				
		LPB	iP	11 52		0.7	73.0	7.7
			S	53 40				
			L	54.4				
		CHA	iP	11 52				
		PNS	iP	11 52				
			S	53 42				
			r.	54.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	PNS LPB	ip P	12 16 02.3 12 16 04.3	D D	1.8	93.0	
NOV	12	USCGS W. PAKISTAN		12 16 44.0, 25.0N, 68.0E, H = 5 Km, M = 5.1				
		LPB	ePKP eL	12 36 11 13 21 21				138.1
		PNS	eG eL	13 03.7 21				
NOV	12	LPB PNS	eP P	12 58 23.7 12 58 24.1		0.8 0.5	23.8 4.5	
NOV	12	CCH PNS	P ip S	12 59 56.5 13 00 38.2 01 11.8	C C	0.6	3.6	2.9
NOV	12	USCGS HOKKAIDO, JAPAN REG		12 49 43.6, 41.8N, 144.1E, H = 33 Km, M = 5.8				
		PNS	PKP ipPKP i i eL	13 09 15.7 26 47.8 31 47.8 57		2.0	120.0	
		LPB	ePKP eL	13 09 16 57				142.1
NOV	12	USCGS HOKKAIDO, JAPAN REG		13 28 23.0, 1.6N, 143.8E, H = 54 Km, M = 4.1				
		PNS	PKP	13 47 58.2		1.1	8.5	142.6
NOV	12	USCGS OFF E CST HONSHU, JAPAN		13 56 15.0, 40.7N, 144.2E, H = 33 Km, M = 4.5				
		LPB	eL	15 04				143.6
NOV	12	CCH CHA PNS	P ip ip S	15 33 56.5 15 34 09.0 15 34 12.3 35 07	C D C			4.8
NOV	12	PNS	ip S	16 08 41.5 09 07	D	0.6	8.1	2.1

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MONTH	DAY	STA	PRASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	USCGS W NEW GUINEA REG	15 56	04.7, 4.8S, 134.3E, H = 33 Km, M = 5.4				
		CCH	eP	16 15 51.2				
		LPB	PKP	16 15 51.5		1.3	16.8	148.9
			i	55.6				
			eL	17 06				
		PNS	iPKP	16 15 51.6	C	1.7	113.0	
			i	55.6				
			PKS	19 25				
			eL	17 06.7				
NOV	12	PNS	eP	17 22 57				3.9
			eS	23 42.2				
		LPB	P	17 23 05				
		CCH	eP	17 23 15.0				
NOV	12	PNS	eP	17 32 11.8		0.8	5.2	
		LPB	eP	17 32 12				
NOV	12	USCGS HOKKAIDO, JAPAN REG	17 15	53.0, 41.5N, 144.3E, H = 33 Km, M = 4.6				
		LPB	eL	18 22				141.8
		PNS	eL	18 22				
NOV	12	LPB	iP	18 50 12.2	D			
		PNS	iP	18 50 12.6	D			2.3
			iS	40				
		CHA	iP	18 50 12.9	D			
		CCH	iP	18 50 29.2	C			
NOV	12	USCGS NEW HEBRIDES IS	18 45	01.0, 15.6S, 167.3E, H = 40 Km, M = 5.2				
		PNS	PKP	19 03 44		1.6	39.5	
			i	04 07.4				
			iPP	56.4				
			ePPP	07 24				
			PS	14 33				
			SS	20 49				
		LPB	PKP	19 20 44.5				116.5
NOV	12	CCH	eP	20 23 19.0				
		PNS	iP	20 23 26.7				
NOV	12	PNS	P	21 02 40.8		0.4	3.2	2.1
			S	03 05.8				
		LPB	eP	21 02 44.2				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	PNS	eP	22 08 15.8		0.5	4.9	2.4
			iS	44.8				
		LPB	eP	22 08 18.5				
NOV	12	LPB	eP	22 37 33.5				
		PNS	P	22 37 34.7		0.9	11.4	
NOV	12	PNS	P	23 15 50.8		0.4	2.3	2.0
			S	16 15.2				
NOV	12	USCGS HOKKAIDO, JAPAN REG		23 04 58.8, 41.7N, 144.2E, H = 33 Km, M = 4.7				
		LPB	ePKP	23 24 30				142.0
NOV	13	CCH	eP	00 23 41.7				
NOV	13	LPB	eP	00 48 11.5				
		PNS	P	00 48 11.9		0.5	10.4	1.9
			S	35				
NOV	13	USCGS PERU		01 18 58.1, 11.0S, 74.7W, H = 40 Km, M = 4.6				
		CHA	eP	01 21 04.0				
		PNS	P	01 20 55.4		1.0	17.8	
		LPB	eP	01 20 59.7				7.3
			S	22 05				
		CCH	eP	01 21 24.5				
NOV	13	CCH	P	01 47 11.5	C			
		LPB	P	01 47 19				
		PNS	iP	01 47 21.1	D	1.0	14.3	
NOV	13	PNS	P	02 24 20.7		0.5	3.8	1.9
			S	44				
		LPB	eP	02 24 27				
		CCH	P	02 24 52.4				
NOV	13	PNS	iP	02 45 06.6	D	0.6	16.5	1.9
			iS	29.2				
		LPB	P	02 45 09				
NOV	13	USCGS LEEWARD IS		02 51 50.6, 17.1N, 61.9W, H = 65 Km, M = 5.5				
		PNS	iP	02 58 27.5	C	2.0	210.0	
			PP	59 54				
			eS	03 03 48				
				06 05				
				08,2				
				02 58 29.5	C	1.6	12.8	34.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
			eSS	03 06 14					
			eL	08					
		CCH	P	02 58 32.3	C				
NOV	13	CCH	eP	03 20 36.9					
		LPB	P	03 20 50.3	D				
		PNS	P	03 20 53.5		0.9	34.1	4.3	
			eS	21 44					
NOV	13	LPB	ePKP	03 22 00.5				119.5	
		PNS	ePKP	03 22 01.6		1.1	21.9		
NOV	13	PNS	iP	03 41 20.4	D			2.0	
			S	44.6					
		LPB	P	03 41 22					
NOV	13	CCH	P	03 52 58.4	C				
		LPB	P	03 53 08.8		0.7	10.4		
		PNS	iP	03 53 07.8		0.6	8.6		
NOV	13	USCGS	03 41 48.0, 24.1S, 111.9E, H = 33 Km, M = 4.9						
		W OF AUSTRALIA							
		LPB	eP	04 00 55.5					
			eL	48					
NOV	13	PNS	P	04 26 04.9		0.5	7.1		
NOV	13	PNS	iP	05 29 27.4	D	0.5	10.4	1.9	
			iS	50.0					
		LPB	eP	05 29 30					
NOV	13	USCGS	05 37 22.0, 15.8S, 167.3E, H = 18 Km, M = 4.9						
		NEW HEBRIDES IS							
		LPB	eL	06 32				116.5	
NOV	13	USCGS	06 04 10.4, 13.6N, 89.5W, H = 83 Km, M = 4.5						
		EL SALVADOR							
		PNS	iP	06 11 07.6		0.9	22.8		
			eL	21.6					
			i	41.0					
		LPB	P	06 11 11		0.8	11.2	36.9	
			eL	21					
		CCH	P	06 11 25.6					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	13	PNS	eP	06 18 33				4.6	
			S	19 26.0					
		LPB	eP	06 18 54					
NOV	13	LPB	P	06 27 39		0.6	3.6		
		PNS	P	06 27 42.8		0.7	5.5	7.8	
			S	29 10.6					
NOV	13	USCGS	11 42 25.9, 17.3N, 61.3W, H = 52 Km, M = 5.1						
		LEEWARD IS							
		PNS	iP	11 49 07.0	C	1.3	33.0		
			eL	59					
		LPB	P	11 49 09.3	C	1.0	28.0	34.1	
			eL	59					
		CCH	P	11 49 12.2	C				
NOV	13	USCGS	13 07 48.0, 16.1N, 95.0W, H = 69 Km, M = 4.1						
		OAXACA, MEXICO							
		PNS	P	13 15 29.4					
		LPB	eP	13 15 32				41.5	
			eL	28					
NOV	13	PNS	P	14 02 01.4		0.6	11.5		
		CCH	eP	14 03 35.0					
			i	37.7					
NOV	13	PNS	eP	14 21 23				2.0	
			S	46.6					
NOV	13	USCGS	14 24 40.1, 8.3S, 74.2W, H = 176 Km, M = 4.8						
		PERU-BRAZIL BOR REG							
		PNS	iP	14 26 55.8	D	1.0	39.1		
			eS	28 46					
			eL	29.5					
		CHA	P	14 27 00.6	D				
		LPB	iP	14 27 01.8		0.9	34.0	10	
			iPP	33 08.2					
			PCP	28 44.5					
NOV	13	USCGS	14 29 54.9, 17.4N, 61.3W, H = 65 Km, M = 4.7						
		LEEWARD IS							
		PNS	eL	14 45.4				34.1	
NOV	13	LPB	P	15 26 47.5					
		PNS	iP	15 26 50.8	C	1.1	26.2	2.2	
			S	27 17					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	13	PNS	P	16 40 36.4	D	0.8	8.7	
NOV	13	PNS	eP S	17 38 32 55.4				1.9
NOV	13	PNS	P	18 11 39.6				1.8
			i iS	42.0 12 01.8				
		LPB	P S	18 11 44 12 09				2.1
NOV	13	LPB PNS	eP eP eS	18 23 21 18 23 23 47.9				
NOV	13	PNS	iP S	22 27 53.1 28 25.4		0.5	11.1	2.7
		LPB	P	22 27 51.9		0.7	14.3	
NOV	13	PNS LPB	P P	22 36 23.8 22 36 29.5		0.7 0.7	5.2 10.4	
NOV	13	LPB PNS	P iP	22 55 07.5 22 55 10.0	C C	07 0.8	13.0 48.0	
NOV	14	LPB	eP S	01 53 09 53 35.3				2.2
NOV	14	PNS	P S	02 43 29.9 54.8		0.7	8.8	2.2
		CHA LPB	P P S	02 43 33.4 02 43 34 44 00.5	C	0.7	9.2	2.2
NOV	14	USCGS N SUMATRA	03 08 31.3, 2.0N, 99.1E, H = 181 Km, M = 5.3					
		LPB	ePKP pPKP	03 28 10.5 58.4				160.5
		PNS	eL	04 24				
NOV	14	PNS	P S	03 34 52.7 35 16				1.9
NOV	14	PNS	eP S	07 41 57.2 42 23				2.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PBR	AMPL	DIST	
NOV	14	CCH	iP	08 25 49.3	C				
		LPB	iP	08 25 57.3	D	0.8	70.0	6.0	
		PNS	S	27 06.5					
			iP	08 26 00.8	D	1.0	74.5	5.1	
		eS	27 00.2						
NOV	14	PNS	P	08 46 23		1.3	23.2		
			(S)	58					
		LPB	eP	08 46 25				3.2	
			S	47 02.5					
		CCH	eP	08 46 58.4					
NOV	14	USCGS	08 44 44.0, 1.3S, 15.9W, H = 33 Km, M = -4.9						
			N OF ASCENSION IS						
		PNS	P	08 54 07		1.2	9.6		
			L	09 10					
		LPB	eP	08 54 09				54.0	
			eL	09 10					
NOV	14	PNS	P	08 54 36		0.8	8.7	2.0	
			S	50					
		LPB	P	08 54 40.5				2.2	
			S	55 07.0					
NOV	14	PNS	P	09 10 13.4		0.5	2.7	1.1	
			S	27					
		LPB	eP	09 10 14					
NOV	14	PNS	eP	09 12 55.6				2.0	
			S	13 19.4					
		LPB	eP	09 13 96					
NOV	14	PNS	eP	09 17 08.7					
			eS	34					
NOV	14	PNS	P	09 31 57.3		0.5	2.7	1.9	
			S	32 20.6					
		LPB	eP	09 32 02					
NOV	14	PNS	P	09 41 05.9		1.0	8.7	1.5	
			S	28.7					
		LPB	eP	09 41 18				2.2	
			S	35					
NOV	14	LPB	eP	10 48 55					
		PNS	iP	10 48 02.5	C	0.8	5.7	2.0	
			S	26.8					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	14	PNS	iP	11 41 36.7	D	0.5	74.5	1.9
			iS	42 00.0				
		LPB	P	11 41 39.5		0.8	2.6	
NOV	14	PNS	eP	11 56 42.6				2.0
			i	43.6				
			S	57 06.4				
		LPB	eP	11 56 46				2.3
			S	57 13				
NOV	14	USCGS N CHILE	12 58	36.2, 18.3S, 69.2W, H = 123 Km, M = 5.4				
		LPB	iP	12 59 17.5	D			2.1
			S	59 45.5				
		PNS	iP	12 59 18.6				
			S	45				
NOV	14	PNS	iP	13 37 45.3	C	0.9	6.1	
NOV	14	LPB	eP	13 38 44				
		PNS	P	13 38 48.3		0.5	3.4	1.9
			S	39 11.7				
NOV	14	USCGS S HONSHU, JAPAN	14 05	20.0, 35.3N, 136.9E, H = 116 Km,				
		LPB	ePKP	14 24 51				150.9
			eL	15 16				
NOV	14	PNS	eP	15 29 34.8				1.9
			S	57,6				
NOV	14	PNS	P	15 33 28				1.8
			S	50.4				
NOV	14	LPB	eP	15 34 36				
		PNS	eP	15 34 40				2.0
			S	35 04				
NOV	14	PNS	P	15 38 47.6				2.0
			S	39 11.6				
		LPB	eP	15 38 54.5				
NOV	14	PNS	P	16 18 17.4		0.7	6.7	
			e(S)	19 10				
		LPB	eP	16 18 23				
			(S)	19 49.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	14	PNS	P	16 56 20.6		0.6	11	2.0
			eS	45				
		LPB	P	16 56 25.8		0.8	2.6	
		CCH	P	16 56 49.2	C			
NOV	14	USCGS FLORES IS	17 58 55.0, 8.3S, 120.4E, H = 33 Km, M = 4.9 REG					
		PNS	PKP	18 18 47.4				
		LPB	ePKP	18 19 36				153.8
			eL	19 12				
NOV	14	PNS	P	20 38 59.0				1.9
			S	39 22				
NOV	14	PNS	iP	21 33 23.9	C	0.5	80.0	4.1
			S	34 12.4				
		LPB	iP	21 33 29.5		0.5	50.0	
NOV	14	USCGS N CHILE	21 44 29.0, 19.3S, 69.2W, H = 111 Km, M = 4.7					
		LPB	iP	21 45 17.5	D			2.9
			iS	45 51.0				
		CHA	iP	21 45 17.7	D			
		PNS	iP	21 45 19.0	D	0.8	181.0	
			iS	54				
		CCH	iP	21 45 23.3	C			
NOV	14	LPB	P	22 05 21.3	D	0.8	25.2	
		PNS	P	22 05 22.4		0.7	6.7	
			e(S)	06 08				
NOV	14	PNS	P	22 31 40.8	C	0.5	9.7	2.2
			iS	32 06.8				
		LPB	P	22 31 43.4	C	0.7	15.4	2.4
			S	32 12				
		CHA	iP	22 31 44.7	D			
NOV	14	PNS	P	22 37 36.4		0.6	4.0	1.9
			eS	59.3				
		LPB	eP	22 37 43.5				1.9
			S	38 07				
NOV	14	PNS	P	22 40 24.4		0.5	2.9	1.9
			S	46.8				
		LPB	eP	22 40 28				
NOV	14	PNS	P	23 22 26.8		0.5	5.8	2.2
			iS	51.8				
		CHA	P	23 22 31.9	D			
		LPB	P	23 22 32.8	D	0.5	19.5	2.2
			D	59				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	14	PNS	P	23 34 51.6		0.5	4.2	2.0	
			iS	35 15.6					
		LPB	P	23 34 57				2.3	
			S	35 24.5					
NOV	14	PNS	iP	23 43 07.6	D	0.5	47.5	2.0	
			iS	43 31.9					
		LPB	eP	23 43 10.5					
NOV	15	PNS	eP	00 48 41.9		0.5	2.9	5.8	
			S	49 48.4					
		LPB	eP	00 48 43		0.7	9.1		
NOV	15	USCGS 00 08 07, 51.4N, 179.9W, H = 43 Km, M = 5.0 ANDREANOF IS, ALEUTIAN IS							
		LPB	eL	01 03				116.0	
NOV	15	PNS	P	01 17 04		0.8	3.5	4.4	
			iS	17 55.5					
		LPB	eP	01 17 13					
NOV	15	PNS	P	01 25 29.5		C	0.4	9.6	2.0
			iS	25 54.0					
		CHA	P	01 25 33.3					
		LPB	P	01 25 34.2					2.2
	S	26 00.7							
NOV	15	CHA	P	01 26 49.1	C	0.4	9.5	0.9	
			PNS	eP					01 26 55.4
			S	27 07.4					
NOV	15	PNS	P	01 32 18.0		0.5	4.0	1.8	
			S	32 42					
		LPB	P	01 32 27.8				1.7	
			S	32 49					
NOV	15	PNS	eP	01 36 12.3		0.5	3.4	1.9	
			S	36 35.8					
		LPB	eP	01 36 23		0.6	8.4	1.6	
			S	36 43					
NOV	15	PNS	P	01 41 35		0.5	2.9	1.9	
			S	41 58					
		LPB	eP	01 41 45.5					
NOV	15	LPB	eP	03 35 35.5					

1 41 28.7  
41 29.5

1.3 36.4  
1.4 28.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	15	PNS LPB	iP iS eP	05 18 24.5 18 58 05 18 26.2	D	0.5	4.9	2.8
NOV	15	PNS	P S	05 44 26.3 44 50				2.0
NOV	15	PNS	P	06 01 49.0	C	0.8	8.2	
NOV	15	PNS	eP iP	08 35 31 35 53				1.8
NOV	15	LPB PNS	eP P (S)	08 58 03.5 08 58 50.2 59 13		0.5	3.6	
NOV	15	PNS LPB	P S eP S	09 27 45.9 28 10.8 09 27 51 28 16.3				2.1 2.1
NOV	15	PNS LPB	eP S eP	10 37 01 37 24.6 10 37 06				2.0
NOV	15	USCGS HOKKAIDO, JAPAN REGION	10 20 39, 41.8N, 143.5E, H = 45 Km, M = 4.0					
		LPB	ePKP eL	10 40 10 11 28				142.9
		PNS	ePKP pPKP	10 40 13.7 40 25.3				
NOV	15	PNS LPB CCH	iP iP eP	11 05 13.8 11 05 14.3 11 05 17.0	C C	0.8 0.8	25.4 16.8	
NOV	15	PNS	P S	15 29 26.0 30 17	C	0.8	4.1	4.4
NOV	15	USCGS ANDREANOF IS, ALEUTIAN IS	16 19 07.4, 51.2N, 176.6W, H = 48 Km, M = 5.0					
		LPB	eL	17 13				114.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	15	USCGS ANDREANOF IS, ALEUTIAN IS	16 26	04.5, 51.5N, 176.5W, H = 61 Km, M = 4.5				
		LPB	eL	17 01				114.0
NOV	15	LPB PNS	eP iP S	17 17 19 17 18 26.5 18 50	D	0.5	10.3	2.9
NOV	15	USCGS S PERU	17 32 34,	15.2S, 72.7W, H = 100 Km				
		PNS	iP	17 33 37.6	C	0.8	17.2	
		LPB	iP	17 33 43.5		0.8	9.8	4.5
NOV	15	LPB PNS	eP iP e	20 25 05.6 20 25 07.0 27 49.2	C	1.7	82.1	
NOV	15	PNS LPB	iP S eP	22 59 31.1 59 54 22 59 34	D	0.5	23.2	1.9
NOV	16	USCGS NEW HEBRIDES IS	00 54	32.1, 18.3S, 168.1E, H = 18 Km, M = 5.0				
		LPB	ePKP eL	01 13 13 48				114.7
		PNS	eSS eL	01 30 00 48.2				
NOV	16	USCGS NEW BRITAIN REGION	02 26	09, 6.2S, 153.3E, H = 72 Km, M = 4.9				
		LPB	ePKP eL	02 45 07 03 29				133.0
		PNS	ePKP eL	02 45 16.7 03 29.4		0.9	5.3	
NOV	15	PNS LPB	eP eP	04 24 27.3 04 24 31.5		0.7	7.8	
NOV	16	USCGS FIJI IS REG	05 58	30, 19.5S, 176.3W, H = 48 Km, M = 5.0				
		PNS	eP eSeS SS eG L	06 12 12.6 23 53 30 43 39 41 45.9				
		LPB	eL	06 46				100.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	16	PNS	iP	07 42 17.3	D	0.4	12.1	0.5	
			S	42 26					
		LPB	eP	07 42 21					
NOV	16	USCGS	08 08 14, 13.1S, 166.5E, H = 50 Km, M = 5.1 NEW HEBRIDES IS						
		LPB	ePKP	08 26 57				118.5	
			eL	09 04					
		PNS	PKP	08 26 57.7		1.0	3.8		
			eL	09 04.2					
NOV	16	PNS	P	09 10 39		0.4	1.9		
			e(S)	11 44					
		LPB	eP	09 10 46.5					
NOV	16	LPB	P	13 38 26.5					
		PNS	iP	13 38 30.6	C	0.5	26.2	4.6	
			iS	39 24					
NOV	16	PNS	iP	14 07 21.7	D	0.2	21.8	1.8	
			iS	07 43.4					
NOV	16	PNS	iP	15 36 09.3	D	0.6	11.2	2.0	
			S	36 33.6					
NOV	16	USCGS	17 22 20, 17.6S, 73.2W, H = 33 Km, M = 4.5 OFF CST OF PERU						
		PNS	iP	17 23 31.7	C	0.8	22.9		
			S	24 25					
		LPB	P	17 23 36.5	C	0.9	9.5	5.0	
			iPn	23 42.5					
			S	24 32					
		CHA	P	17 23 43.9	D				
		CCH	eP	17 23 58.4					
NOV	16	USCGS	18 15 46.1, 30.8N, 142.0E, H = 33 Km, M = 4.3 S OF HONSHU, JAPAN						
		LPB	ePKP	18 35 33				148.9	
			eL	19 26					
		PNS	PKP	18 35 33.7		1.1	12.9		
NOV	16	PNS	P	19 26 01.8	D	0.5	2.9	5.7	
			i	26 03.4					
			S	27 07.1					
		LPB	eP	19 26 10		0.6	9.0		
NOV	16	PNS	iP	21 02 43.3	C	0.8	17.5	1.9	
			iS	03 06.6					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	16	USCGS KURILE IS	20 44	01.3, 46.6N, 153.7E, H = 33 Km, M = 4.8				
		PNS	eL	21 47.1				
NOV	16	USCGS S OF KERMADEC IS	22 55	10.9, 33.5S, 179.5W, H = 33 Km, M = 4.8				
		PNS	L	23 41				
NOV	16	USCGS FOX IS, ALEUTIAN IS	23 16	09.1, 52.6N, 169.5W, H = 33 Km, M = 4.9				
		PNS	ePKP	23 34 41.6				
			eL	00 08.4				
		LPB	eL	00 09				110.0
NOV	16	PNS	eP	23 54 11.4				1.8
			iS	54 33.4				
		LPB	eP	23 54 17.5				
NOV	17	LPB	P	00 40 17.5		0.5	6.5	
		PNS	P	00 40 28.5		0.5	3.5	
			i	40 31.0				
NOV	17	PNS	iP	02 53 18.5	D	0.5	29.0	2.0
			S	53 42.6				
		LPB	iP	02 53 19.3	D	0.8	16.8	1.9
			S	53 42.7				
NOV	17	PNS	iP	03 22 54.9	D	0.3	5.8	1.8
			iS	23 17.4				
NOV	17	USCGS N ATLANTIC RIDGE	07 08	30, 32.2N, 40.5W, H = 33 Km, M = 4.5				
		PNS	P	07 18 02.8		1.3	19.5	
			eS	25 42				
			eL	35.1				
		LPB	P	07 18 03		1.0		55.5
			eL	35				
NOV	17	LPB	eP	07 32 35				
		PNS	eP	07 32 44		0.7	4.1	
NOV	17	LPB	P	07 39 07				
		PNS	P	07 39 08.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	17	PNS	iP	10 15 14.4		0.5	7.6	5.4	
			S	16 17					
		LPB	eP	10 15 17					
NOV	17	USCGS	13 54 00, 51.3N, 176.5W, H = 56 Km, M = 4.5						
		ANDREANOF IS, ALEUTIAN IS							
		LPB	eL	14 48				114.0	
		PNS	eL	14 48					
NOV	17	PNS	P	16 35 35.5		0.5	6.0		
		LPB	eP	16 35 37					
NOV	18	LPB	P	00 50 58.8		0.8	15.4		
		PNS	P	00 51 00.3		1.0	14.3		
NOV	18	LPB	eP	01 29 42					
		PNS	eP	01 29 44.5		0.5	4.2	2.5	
			S	30 14.8					
NOV	18	PNS	eP	07 56 40					
		LPB	eP	07 56 47.5					
NOV	18	USCGS	08 02 45.8, 5.8S, 152.2E, H = 4.7 Km, M = 4.8						
		NEW BRITAN REG							
		LPB	ePKP	08 22 10.5		1.4	44.0	134.0	
		PNS	eL	09 06.6					
NOV	18	PNS	P	08 24 44.7	C	0.8	10.7	2.5	
			iS	25 14.9					
		LPB	P	08 24 47.5	C	0.7	62.0	2.8	
			S	25 20.6					
		CHA	iP	08 24 57.0	D				
		CCH	P	08 25 08.0	C				
NOV	18	PNS	eP	08 33 26.5				4.7	
			S	34 20.2					
		LPB	eP	08 33 46					
NOV	18	PNS	iP	08 45 16.5	D	0.3	13.5	2.0	
			S	40.4					
		LPB	P	08 45 18.4					
NOV	18	LPB	eP	08 51 20					
		PNS	P	08 51 23.7		0.5	4.2	2.2	
			S	44.5					
				56 00.9	0.5	3.4		1.9	
				24.0					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	18	USCGS	09 12 09.9, 36.3S, 100.7W, H = 33 Km, M = 5.1 S PACIFIC OCEAN					
		PNS	P	09 19 00.8	C	1.6	396	
			ipP	10.0				
			iPP	20 21.0				
			iS	24 20				
			SS	26 49				
		LPB	P	09 19 01.9	C	1.9	436.0	35.0
			pP	10.5				
			PP	20 18.7				
			PCP	21 36				
			SS	24 35				
			L	28.9				
		CCH	P	09 19 08.3	C			
NOV	18	LPB	eP	09 30 25				
		PNS	P	09 30 23.3				
			i	24.7				
NOV	18	PNS	eP	13 03 35.5				3.9
			i	55				
			S	04 20.4				
NOV	18	LPB	P	14 26 47.6	C	0.7	18.2	
NOV	18	CCH	P	15 32 25.5	C			
		LPB	P	15 32 40		0.5	16.9	
		PNS	P	15 32 44.3		0.5	10.1	7.0
			S	34 03.6				
NOV	18	PNS	eP	16 10 58				2.0
			i	58.8				
			S	11 22.0				
		CHA	P	16 11 03.3	D			
		LPB	eP	16 11 06				1.8
			S	28				
NOV	18	PNS	P	16 14 18.9		0.6	4.9	2.1
			i	20.4				
			S	43.6				
		LPB	P	16 14 24		0.6	14.4	2.1
			S	49.5				
		CHA	P	16 14 24.8	D			
NOV	18	PNS	P	16 29 16.8		0.6	4.0	1.9
			S	40				
		LPB	eP	16 29 24.5				1.8
			S	46.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	18	PNS	eP	16 48 21					
			S	49 05					
		LPB	eP	16 48 22					
NOV	18	PNS	P	18 17 09.3		0.4	2.1	1.8	
			S	31.4					
		LPB	eP	18 17 14.8					
NOV	18	LPB	eP	18 20 27.5					
		PNS	iP	18 20 38.2	D	0.4	15.5	2.1	
			S	21 02.8					
NOV	18	USCGS	18 07	54.0, 73.4N, 6.8E, H = 33 Km, M = 4.6					
			GREENLAND SEA						
		LPB	eP	18 21 42				101.3	
		PNS	eSKS	18 32 23					
			eL	56					
NOV	18	USCGS	18 48	43.9, 73.4N, 6.8E, H = 33 Km, M = 4.6					
			GREENLAND SEA						
		LPB	eL	19 36					
		PNS	eL	19 36.7				101.3	
NOV	18	USCGS	19 43	35.2, 24.0N, 46.3W, H = 33 Km, M = 4.7					
			N ATLANTIC RIDGE						
		PNS	iP	19 51 54.5	D	1.1	24.8		
			PP	53 43.3					
			iS	58 40					
			iSS	20 01 30					
			L	05.3					
		LPB	P	19 51 55.7		1.2	36.4	45.9	
			ePP	53 50					
			S	58 40					
			eL	20 05					
NOV	18	LPB	eP	20 01 21		0.4	20.7		
		PNS	iP	20 01 24.2	C	1.3	24.0		
NOV	18	LPB	P	20 45 22		0.8	16.8		
			S	47.5					
		PNS	iP	20 45 23.0	D	0.9	28.0		
			iS	50.0					
NOV	18	LPB	P	21 15 54		0.9	22.0		
		PNS	eP	21 15 55.5		0.9	7.1		
			(S)	17 06					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	18	USCGS	21 17 31.0, 24.1N, 46.2W, H = 33 Km, M = 4.2 N ATLANTIC RIDGE						
		PNS	P	21 25 49.6		0.7	98.3		
			e	26 07					
			eS	32 30					
			eL	39.4					
		LPB	eP	21 25 52				45.9	
			e	26 07					
			eL	39					
NOV	18	LPB	eP	22 22 14.2		0.7	14.3		
		PNS	eP	22 22 15.7		0.8	10.8		
NOV	18	USCGS	22 26 27.0, 34.1N, 139.2E, H = 43 Km, NR S CST OF HONSHU, JAPAN						
		PNS	eL	23 37.2				149.4	
NOV	18	LPB	eP	23 44 37.5		0.7	6.5		
		PNS	P	23 44 04.4		0.5	3.2	2.5	
			iS	35.1					
NOV	19	USCGS	00 03 34.0, 19.5N, 64.3W, H = 42 Km, M = 3.8 VIRGIN IS						
		PNS	eP	00 37 30.2					
			eL	48					
		LPB	eP	00 37 33				36.1	
			eL	48					
NOV	19	LPB	eP	01 25 24					
		PNS	eP	01 25 31.5					
			(S)	26 09.7					
		CCH	eP	01 24 46.6					
NOV	19	PNS	eP	03 03 42.9		0.6	7.0		
		LPB	eP	03 03 49.5					
NOV	19	PNS	eP	03 42 15.5				2.0	
			iS	39.8					
		LPB	eP	03 42 20.5				2.2	
			S	46.5					
NOV	19	PNS	iP	05 24 21.3	D	0.7	18.4	2.6	
			iS	52.6					
		LPB	eP	05 24 26					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	19	USCGS	05 29 49.0, 24.1N, 45.9W, H = 33 Km, M = 4.4 N ATLANTIC RIDGE						
		PNS	iP	05 38 10.5	D	0.9	8.5		
			ipP	18.9					
			L	52.1					
NOV	19	USCGS	05 19 56.1, 37.6N, 141.3E, H = 67 Km, M = 5.1 NR E CST OF HONSHU, JAPAN						46.0
		PNS	iPKP	05 39 32.0	C	1.0	56.2		
			eSS	06 02 12					
			eL	29.7					
		LPB	PKP	05 39 32.7		1.0	40.0	146.7	
			PKP2	37.7					
			pPKP	48.3					
			PP	42 57					
			eL	06 29					
		CCH	iPKP	05 39 38.0	D				
NOV	19	USCGS	07 12 39.7, 35.0N, 23.5E, H = 33 Km, M = 5.3 CRETE						
		LPB	eL	08 00				100.9	
		PNS	eL	08 00.4					
NOV	19	USCGS	07 31 14.0, 40.5N, 142.7E, H = 33 Km, M = 4.3 NR E CST OF HONSHU, JAPAN						
		PNS	ePKP	07 50 47		1.0	5.6		
			i	02.1					
			L	08 39.5					
		LPB	ePKP	07 50 48.6				143.8	
			eL	08 39					
		CCH	ePKP	07 50 52.3					
NOV	19	USCGS	07 42 28.2, 18.4N, 95.3E, H = 56 Km, M = 5.4 BURMA						
		PNS	PKP	08 03 32.4		1.0	7.0		
			eSS	27 45					
			eL	09 00.1					
		LPB	ePKP	08 03 40		1.0	10.0	164.2	
			eL	09 00					
NOV	19	PNS	iP	08 24 26.0	D	0.5	32.3	2.1	
			iS	51					
		LPB	P	08 24 27.2		0.7	10.4		
NOV	19	PNS	eP	08 34 40				3.2	
			S	36 17.6					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	19	USCGS	08 34 16.0, 24.1N, 45.8W, H = 33 Km, M = 4.5						
			N ATLANTIC RIDGE						
		LPB	eP	08 42 36				46.4	
			eL	56					
		PNS	iP	08 42 38.0	C	1.3	18.6		
			eL	56					
NOV	19	PNS	P	08 51 21.8		0.6	5.5	2.0	
			i	23.9					
			iS	45.4					
		LPB	P	08 51 25.8		0.7	18.2	2.3	
			S	53.4					
		CHA	iP	08 51 27.1	D				
		CCH	P	08 51 54.7					
NOV	19	LPB	P	09 54 56					
		PNS	iP	09 54 56.7	C	1.0	11.2		
			i	55 06.0					
NOV	19	PNS	iP	09 58 17.2	D	0.9	14.6	3.5	
			S	58					
		LPB	eP	09 58 17.4					
NOV	19	PNS	eP	10 48 47.8				1.8	
			S	49 10.0					
		LPB	eP	10 48 54					
NOV	19	PNS	iP	10 54 17.8	D	0.6	62.4	1.8	
			iS	39.9					
		CHA	iP	10 54 19.4	D				
		LPB	P	10 54 19.5	D	0.5	38.7		
NOV	19	PNS	P	11 11 30.8		0.6	4.7	2.0	
			i	32.0					
			S	54.4					
		LPB	P	11 11 35.4		0.8	15.6	2.2	
			S	12 01.7					
		CHA	eP	11 11 35.7	D				
		CCH	eP	11 11 54.5					
NOV	19	PNS	iP	11 59 43.1	D	0.4	8.1	2.2	
			eS	12 00 10					
NOV	19	PNS	eP	12 16 42.2					
			eS	17 20.3					
		LPB	eP	12 16 45.4		0.9	25.6		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	19	PNS	eP S	12 36 38.5 37 01.8				1.9
NOV	19	PNS	eP S	12 51 12 44.6				2.7
NOV	19	PNS	P i S	13 45 12.8 13.8 37.0		0.5	3.9	2.0
		LPB	P i S	13 45 17.4 21.7 43.0		1.0	20.0	2.2
		CHA	P	13 45 27.7	D			
NOV	19	PNS	P S	13 50 20.5 44		0.6	3.9	1.9
NOV	19	LPB PNS	eP P	14 07 03.5 14 07 05.2		1.0	7.0	
NOV	19	USCGS MARIANA IS		13 53 04.0, 14.3N, 144.2E, H = 33 Km, M = 4.4				
		PNS	PKP i eL	14 12 48 52.2 15 03.3		0.9	4.7	
		LPB	ePKP eL	14 12 50 15 03				148.5
NOV	19	USCGS MARIANA IS		14 09 34.0, 14.3N, 144.1E, H = 33 Km, M = 4.7				
		LPB	PKP PKP2 eL	14 29 15.5 23.0 15 19		1.7	79.0	148.5
		PNS	eP iPKP2 eL	14 29 18.3 22.4 15 19.1		1.8	95.2	
NOV	19	PNS	eP S	14 38 58 39 21				1.8
		LPB	eP	14 39 10.5				
NOV	19	PNS	eP S	15 31 19.2 41.5				1.8
NOV	19	PNS	P i S	16 37 20.0 21.6 44		0.6	3.9	2.0
		LPB	P	16 37 25.4				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	19	USCGS KODIAK IS REG	16 39	03.0, 56.9N, 154.0W, H = 33 Km, M = 4.5				
		LPB	eP	16 52 51.5				101.4
			eL	17 27				
		PNS	eL	17 26.9				
NOV	19	PNS	iP	17 05 18.3	C	0.6	23.2	2.4
			iS	47.0				
		LPB	P	17 05 22	C	0.5	23.4	2.2
			iS	48.3				
		CHA	iP	17 05 23.1	D			
		CCH	eP	17 05 51.5				
NOV	19	PNS	eP	17 10 30.6				2.0
			S	54.5				
		LPB	eP	17 10 36				
NOV	19	PNS	eP	17 12 18.4				1.8
			S	40.8				
		LPB	eP	17 12 27.5				
NOV	19	PNS	eP	17 35 10.6		0.6	3.1	1.9
			i	15.2				
			S	34				
		LPB	eP	17 35 16		0.7	11.7	
NOV	19	PNS	eP	17 42 07				
			eS	30				
NOV	19	pns	eP	17 42 53				1.9
			S	43 15.9				
NOV	19	PNS	eP	17 47 06				2.2
			S	31.6				
		LPB	eP	17 47 11.5				2.1
			S	36.5				
NOV	19	USCGS N ATLANTIC RIDGE	17 40	58.2, 24.2N, 46.4W, H = 33 Km, M = 4.8				
		PNS	iP	17 49 15.2	C	0.9	30.4	
			iS	55 59				
			L	18 02.9				
		LPB	P	17 49 15.7		1.6	61.0	45.9
			pP	26				
			S	55 54				
			eL	18 03				
NOV	19	PNS	P	17 53 16.8		1.4	41.0	
			i	25.0				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	19	PNS	iP S	18 14 53.9 15 16	C	0.3	2.3	1.8	
NOV	19	LPB PNS	eP iP	18 19 19 18 19 26.4	D	0.9	6.1		
NOV	19	USCGS	18 20 30.0, 10.7S, 79.1W, H = 34 Km, M = 4.8 OFF CST OF PERU						
		PNS	eP i i S L	18 23 16.4 21.5 24 05.8 25 33 26.4		1.0	12.6		
		LPB	eP eS	18 23 18 25 31				12.0	
		CCH	eP	18 23 53.4					
NOV	19	PNS	eP S	18 42 52 43 15.7				2.0	
NOV	19	PNS	P iS	19 03 07 31.4		0.8	10.7	2.0	
NOV	19	USCGS	19 05 38.0, 37.0N, 71.4E, H = 130 Km, M = 4.9 AFGHANISTAN-USSR BOR REG						
		LPB	eL	20 10				138.8	
		PNS	eL	20 11					
NOV	19	PNS	iP iS	20 05 30.7 53.4	D	0.6	27.1	1.9	
		LPB	eP	20 05 32					
		CHA	P	20 05 32.1	D				
NOV	19	PNS	eP S	20 16 30 54				2.0	
		LPB	eP S	20 16 35.5 17 01.0				2.1	
NOV	19	PNS	P S	20 28 04.4 29	C	0.7	5.5	2.1	
		CHA	P	20 28 08.8	D				
		LPB	P S	20 28 09.7 35.5	C	0.7	39.0	2.2	
		CCH	P	20 28 35.1	C				
NOV	19	USCGS	20 29 47.0, 35.8N, 70.8E, H = 140 Km, M = 4.6 HINDU KUSH REG						

11 35

138.5

From the ISC collection scanned by SISMOS

10 51 29.6

1.8

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	19	PNS LPB	S eP	20 51 52 33.5				1.8
NOV	19	PNS LPB	eP S eP S	21 02 58 03 20.0 21 03 02 22				1.8 1.6
NOV	19	PNS LPB	eP S eP S	21 41 01.8 27.7 21 41 06.5 33				2.2 2.2
NOV	19	PNS LPB	eP S eP S	21 43 18.2 40.7 21 43 21.8 48				1.8 2.2
NOV	19	PNS LPB	eP S eP	22 27 23.6 48 22 27 25.4				2.0
NOV	20	PNS LPB	iP iS eP S	23 30 51.3 31 17.2 23 30 52.5 31 18.7	D	0.5	16.1	2.2 2.2
NOV	20	PNS LPB	eP S eP S	00 36 13.8 39 00 36 15.5 44.5				2.1 2.8
NOV	20	USCGS LPB	00 59 51.0, 24.1N, 46.4W, H = 33 Km, M = 4.9 P	01 08 06 17.2 21.5		3.0	140.0	45.5
		PNS	iP i(PP) PeP S eL	01 08 08.6 17.0 09 52 15 56 21	D	1.5	122.2	
NOV	20	USCGS PNS LPB CCH	01 52 45.4, 12.2S, 76.6W, H = 99 Km, M = 3.9 NR CST OF PERU iP S L i P eL P	01 54 51 56 34 57 57 33 01 54 57.2 57 01 55 23.6		0.8 0.6	53.7 19.2	9.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	PNS	eP	03 19 02				2.2
		LPB	S	28				
			eP	03 19 06.5				
NOV	20	PNS	eP	03 49 02.2				5.1
			S	50 00				
		LPB	eP	03 49 06				
NOV	20	PNS	P	04 27 55.2		0.4	4.3	1.9
			S	28 18				
		LPB	P	04 28 00				1.7
			S	21				
NOV	20	LPB	eP	04 30 26		0.7	5.2	
		PNS	eP	04 31 31.2				2.1
			S	56				
NOV	20	LPB	P	04 33 14		0.8	8.4	
		PNS	P	04 33 17	D	0.8	8.4	
NOV	20	USCGS ANDREANOF IS,		04 33 24.0, 51.3N, 177.0W, H = 52 Km, M = 4.1 ALEUTIAN IS				
		LPB	ePKP	04 52 02				114.3
			eL	05 27				
		PNS	eL	05 27.5				
NOV	20	PNS	P	04 55 20.5				2.8
			iS	54				
		LPB	P	04 55 25.4		0.6	18.0	
		CCH	P	04 55 52.3	C			
NOV	20	PNS	eP	04 57 28				1.3
			S	43.6				
		LPB	eP	04 57 31.3				1.6
			S	51.5				
NOV	20	PNS	eP	05 02 51.7		0.9	6.1	1.8
			S	03 14.6				
		LPB	eP	05 02 58.5				
NOV	20	PNS	P	05 10 05.8		0.5	2.3	1.9
			S	28.8				
		LPB	eP	05 10 10.5				1.7
			S	31.5				
NOV	20	PNS	P	05 25 21.3		0.7	7.2	
		LPB	eP	05 25 25				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	20	PNS	iP	06 04 36.0	D	1.0	15.0		
			i	44.3					
			i	05 04.6					
			i	13.0					
			i	21.6					
		LPB	P	06 04 36.5	1.6	42.5			
			i	05 03.2					
			i	13.5					
		CCH	eP	06 04 59.7					
NOV	20	USCGS 06 09 33.0, 15.5S, 69.5W, H = 118 Km, M = 4.1 PERU-BOLIVIA BOR REG							
		PNS	iP	06 10 03.5	C				
		LPB	iS	22					
			PiPg	06 10 04.4	C	0.7	9.2	1.4	
S	22.5								
NOV	20	PNS	eP	06 18 54.8				2.2	
			S	19 21					
LPB	eP	06 19 01.0							
NOV	20	LPB	P	06 32 00.7	C	0.8	22.5		
			PNS	iP	06 32 04.4	C	0.4	17.6	
				e (S)	33 09				
NOV	20	PNS	iP	06 54 31.8	C	0.6	5.5	1.8	
			S	53.7					
			LPB	eP					06 54 52
NOV	20	PNS	P	07 00 25.9		0.4	2.0	2.1	
			S	50.9					
			LPB	eP	07 00 31.3				
NOV	20	CCH	eP	07 10 24.0					
NOV	20	USCGS 07 25 57.5, 18.3N, 68.3W, H = 106 Km, M = 4.4 MONA PASSAGE							
		PNS	iP	07 32 35.9	D	0.6	5.5	35.6	
		LPB	P	07 32 37.7					
NOV	20	USCGS 07 34 42.0, 22.0S, 69.2W, H = 121 Km, M = 4.0 N CHILE							
		LPB	P	07 36 02.0	0.9	23.7	5.4		
			i (Pg)	20.2					
			S	59					
		PNS	P	07 36 03.8	D	1.3	86.2		
			iS	37 04.0					
eL	37.2								

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	LPB PNS	P P S	07 42 35.5 07 42 37.1 43 50.5		0.9 0.7	34.0 19.7	6.4
NOV	20	CCH PNS LPB	P P eP	08 35 54.7 08 36 02.0 08 36 02	D	1.0	8.0	
NOV	20	PNS	P S	09 08 18.4 44.4		0.8	4.6	2.2
NOV	20	PNS LPB	P S eP S	09 17 04.3 30.0 09 17 08.5 35.0		0.5	3.7	2.2 2.2
NOV	20	PNS	P S	09 40 40.0 41 05.8				2.2
NOV	20	USCGS ADREANOF IS, ALEUTIAN IS		09 29 59.1, 51.4N, 176.6W, H = 54 Km, M = 5.1				
		LPB	ePKP eL	09 48 38 10 24				114.1
		PNS	eSS eL	10 05 22 24				
NOV	20	PNS	P S	11 14 32 58.4		0.5	4.5	2.2
NOV	20	PNS	P S	12 35 01.8 43		0.7	4.6	3.5
NOV	20	LPB PNS	eP P S	13 30 37 13 30 54.0 32 00.7		0.5	5.8	5.9
NOV	20	PNS LPB	iP S eP S	13 45 25.9 33 13 45 26.5 35.0	C	0.9	13.3	0.4 0.5
NOV	20	LPB PNS	eP P IS	13 56 02.5 13 56 06.0 28.5	D	0.9	19.2	1.6
NOV	20	PNS	iP	14 15 21.2	C	0.3	11.0	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	USCGS S PACIFIC		16 47 33.0, 55.1S, 129.4W, H = 33 Km, M = 4.9 CORDILLERA				
		PNS	P	16 57 40.0		2.2	280.0	
			S	17 05 47				
			iSS	09 44				
			SSS	12 23				
			L	15.9				
		LPB	P	16 57 40.3		1.1	41.4	59.8
			S	17 05 58				
			eSS	09 36				
			eL	15.8				
		CCH	P	16 57 42.0	C			
NOV	20	PNS	eP	17 59 47				
			e(s)	18 00 13.6				
		LPB	eP	18 59 53.5				
NOV	20	LPB	eP	18 48 49.5				
NOV	20	USCGS S PACIFIC		18 53 32.0, 55.3S, 128.7W, H = 33 Km, M = 4.7 CORDILLERA				
		PNS	P	19 03 37.0		1.8	107.5	
			iPP	46.7				
			S	11 45				
			SSS	18 20				
			L	22.2				
		LPB	P	19 03 37.5		1.6	67.0	59.8
			pp	48				
			eL	21.5				
		CCH	P	19 03 38.7	C			
NOV	20	CCH	P	21 17 52.0	C			
		LPB	P	21 17 53.7	D	1.1	29.0	1.3
			S	18 11.1				
		PNS	P	21 17 55.5		1.4	80.4	1.3
			i	16.0				
			S	18 13.3				
NOV	20	CCH	P	22 03 51.3	D			
		LPB	P	22 03 58.3		1.0	50.0	
		PNS	P	22 03 59		1.4	53.6	
NOV	20	USCGS TAIWAN REG		22 41 13.1, 24.5N, 122.6E, H = 95 Km, M = 5.0				
		LPB	ePKP	23 01 11				167.0
			eL	24 00				
		PNS	eL	00 00.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	USCGS W PAKISTAN	23 35	46.4, 27.6N, 67.7E, H = 36 Km, M = 4.8				
		LPB	ePKP	23 45 11				137.8
		PNS	ePKP	23 45 13				
			L	00 41				
NOV	21	LPB	P	04 13 54.0		0.8	9.8	
		PNS	P	04 13 57.7		0.5	6.0	
NOV	21	PNS	P	04 16 28				2.1
			S	53.4				
		LPB	P	04 16 29.0				
NOV	21	PNS	eP	04 24 34				2.1
			S	58.4				
		LPB	eP	04 24 38.2				
NOV	21	LPB	eP	04 45 56				2.8
			S	46 28.7				
		PNS	eP	04 45 56				2.1
			S	46 21				
NOV	21	LPB	eP	05 00 54				
		PNS	eP	00 56				
			S	01 20				
NOV	21	PNS	iP	05 09 41.3	D	0.5	7.2	
		LPB	eP	05 09 41.5				
NOV	21	LPB	eP	06 00 17				
		PNS	eP	06 00 22.8				1.8
			S	45				
NOV	21	PNS	iP	06 58 51.3	D	0.5	33.0	2.2
			iS	59 16.9				
		CHA	P	06 58 52.2	D			
		LPB	P	06 58 53.4		0.5	10.4	2.2
			S	59 20.0				
		CCH	P	06 59 12.8	D			
NOV	21	LPB	eP	07 30 53				
NOV	21	USCGS BANDA SEA	08 07	48.0, 7.2S, 129.0E, H = 143 Km, M = 4.6				
		LPB	ePKP	08 27 16.5				151.0
		PNS	ePKP	08 27 30		1.2	14.0	





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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	21	USCGS MICHOACAN, MEXICO	11 12	02.4, 18.8N, 102.3W, H = 87 Km, M = 4.7				
		PNS	iP iPP eS L	11 20 35.8 47.6 27 31 34.7	D	2.0	100.2	
		LPB	P pP eL	11 20 39 50.7 34.6		1.0	18.0	48.6
NOV	21	CCH LPB CHA PNS	P P P iP S	12 08 12.2 12 08 23.6 12 08 24.0 12 08 27.3 09 33.6	D  D D	0.5  0.5	22.0  30.0	5.8
NOV	21	USCGS KURILE IS	12 19	27.3, 46.7N, 152.5E, H = 40 Km, M = 5.6				
		PNS	iPKP eSS L	12 38 44.8 59 16 13 23.6	D	1.9	140.0	
		LPB	PKP PKP2 PP eL	12 38 45.5 39 04.5 41 24.5 13 23		1.6	86.0	135.0
NOV	21	PNS LPB	eP eP	15 24 47.8 15 24 48.2		2.0	64.0	
NOV	21	USCGS HONSHU, JAPAN	19 18	31.9, 36.3N, 137.4E, H = 252 Km, M = 4.3				
		LPB	ePKP i eL	19 37 47 54.3 20 29				149.8
		PNS	ePKP i	19 37 48 53.7				
NOV	21	PNS LPB	eP S eP	22 04 34 54.7 22 04 40				1.7
NOV	22	CCH LPB PNS	P eP eP eS	00 18 58.5 00 19 34 00 19 36 20 28	D			
NOV	22	CCH LPB	eP eP eS	00 52 11.8 00 52 41 53 31 00 52 52.5 53 43	C			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	22	PNS CCH	P eP	02 24 28 02 24 46		0.9	5.9	
NOV	22	PNS LPB	eP S eP	02 34 45.3 35 10 02 34 53.4				2.2
NOV	22	USCGS NEW BRITAIN REG	04 11	37.4, 5.8S, 152.2E, H = 58 Km, M = 4.9				
		PNS LPB	PKP eL	04 30 52.7 05 15		1.0	4.2	134.0
NOV	22	USCGS SEA OF OKHOTSK	06 29	53.5, 48.2N, 146.7E, H = 453 Km, M = 5.6				
		LPB	PKP i ePPKP PP eSS eL	06 48 17.4 27 50 15 51 15 07 09 09 34.3		1.1	23.0	137.8
		CCH PNS	ePKP iPKP pPKP PP i PS eG eL	06 48 21.4 06 48 26.1 50 14.3 51 15.7 59 26.3 07 01 40 25 57 34.2	C	1.3	60.0	
NOV	22	LPB PNS	P iP	07 00 10.4 07 00 12.5	C	1.1 1.3	11.4 35.4	
NOV	22	USCGS S SANDWICH IS REG	07 01	11.1, 57.9S, 25.3W, H = 38 Km, M = 5.6				
		CCH LPB	iP P pP PP eS eL	07 10 05.7 07 10 19.7 32.3 12 18.5 17 41 25.6	C	0.6	31.2	51.7
		CHA PNS	P iP iPP PP PPP eS eL	07 10 19.8 07 10 22.6 11 33.4 12 24.9 13 15.8 17 43 21.2	C	0.9	34.7	
NOV	22	LPB PNS	eP iP	08 37 40.3 37 44.2 18 38	C	0.5	4.2	53.8

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	22	USCGS	08 52 18.2, 52.1N, 172.7E, H = 55 Km, M = 4.9 NEAR IS, ALEUTIAN IS						
		LPB	ePKP	09 11 09.5				121.0	
			eL	49					
		PNS	PKP	09 11 12.4		1.3	6.9		
			SS	29 10					
			eL	49.9					
NOV	22	PNS	P	11 39 03.9	D	12.3		2.5	
			iS	34.3					
NOV	22	USCGS	12 14 12.4, 19.1N, 67.9W, H = 62 Km, M = 4.4 MONA PASSAGE						
		PNS	P	12 21 01.9		0.6	4.4		
			PP	222333.7					
			eS	26 38					
			eL	31.2					
		LPB	eP	12 21 03.5				35.6	
			pP	15					
			i	24					
			PP	22 25					
			S	26 43					
			L	31.2					
NOV	22	CCH	P	15 18 58.2	D				
		LPB	eP	15 19 08.2					
		PNS	eP	15 19 40.8				3.2	
			S	20 17.7					
NOV	22	USCGS	15 54 58.6, 52.1N, 172.7E, H = 33 Km, M = 4.5 NEAR IS, ALEUTIAN IS						
		LPB	ePKP	16 13 53				120.7	
			eL	52					
		PNS	ePKP	16 13 54					
			L	51.5					
NOV	22	PNS	P	16 49 11.7		0.5	3.2		
NOV	22	PNS	eP	18 26 15					
			i	16.0					
			eS	38					
NOV	22	PNS	P	23 13 51.4		0.6	3.8	3.9	
			S	14 36.5					
NOV	22	PNS	P	02 18 00.3				2.3	
			S	27.8					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	23	USCGS NEW HEBRIDES IS	02 19	13.8, 14.9S, 166.9E, H = 48 Km, M = 5.6				
		PNS	PKP	02 37 57.0		0.9	7.2	
			iPS	49 00				
			SS	55 16				
			eG	07 27				
			L	14.4				
NOV	23	LPB	eP	02 48 20.5				
		PNS	P	02 48 21		1.2	12.8	
			e	24.7				
NOV	23	CCH	iP	04 45 36.0	D			
		LPB	iP	04 45 37.2	D	0.4	35.2	
		CHA	iP	04 45 38.2	C			
		PNS	iP	04 45 40.5	D	0.5	57.6	3.6
			S	46 23				
NOV	23	PNS	eP	05 09 03.4				
			S	53.8				4.3
		LPB	eP	05 09 10.5				
NOV	23	LPB	P	12 27 58.7	C	0.5	45.5	
		PNS	iP	12 28 00.0	C	0.5	32.0	2.9
			iS	34.5				
		CCH	iP	12 28 68.7	C			
NOV	23	USCGS NR E CST OF HONSHU, JAPAN	13 47	14.0, 35.7N, 140.4E, H = 14 Km,				
		PNS	PKP	14 06 34				
			eL	57.4				
		LPB	ePKP	14 06 38				148.3
			eL	14 57				
NOV	23	PNS	P	15 28 31.1		1.3	11.9	
NOV	23	LPB	eP	18 02 10.5		0.9	11.9	
		PNS	P	18 02 11.6		0.7	9.1	3.9
			S	57.7				
NOV	23	USCGS FIJI IS REG	18 17	59.0, 20.1S, 177.7W, H = 465 Km, M = 4.2				
		PNS	ePS	18 44 16				
		LPB	eL	19 05				101.7
NOV	23	PNS	P	20 16 26.7		0.4	5.9	3.1
			S	17 03				
		LPB	P	20 16 27.0		0.4	11.9	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	23	PNS	eP S	22 50 04 40.8				3.2
NOV	24	PNS	eP S	00 58 32.1 01 01 20				15.2
		LPB	eP S	00 58 44 01 01 40				16.2
NOV	24	PNS	P S	01 40 34.7 56				1.7
		LPB	eP	01 40 39.3				
NOV	24	PNS	eP eS	02 07 45.6 08 08				
		LPB	eP	02 07 52.5				
NOV	24	LPB	eP	02 18 07				
		PNS	eP eS	02 18 08.8 31				
NOV	24	PNS	iP iS	02 52 47.3 53 12.1	D	0.4	9.1	2.1
		LPB	eP S	02 52 55.5 53 15.8				1.6
NOV	24	LPB	eP	03 12 34				
		PNS	P eS	03 12 35.0 13 10		0.5	3.2	3.0
NOV	24	PNS	P S	04 17 13.3 44.5		0.5	4.5	2.6
		LPB	eP	04 17 14.2				
NOV	24	USCGS KODIAK IS REG	06 53 eP	37.1, 56.5N, 152.9W, H = 33 Km, M = 4.8				
		LPB	eP	07 07 23				100.9
		PNS	eL	07 41				
NOV	24	USCGS KERMADEC IS REG	07 31 eP	51.8, 30.6S, 177.9W, H = 11 Km, M = 5.0				
		LPB	eP eL	07 45 06 08 03				97.5
		PNS	eP eL	07 45 21 08 03				
NOV	24	LPB	eP	12 09 45				
		PNS	eP	12 09 52				
				10 15.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	24	LPB	eP	12 09 45				
		PNS	eP	12 09 52				
			eS	10 15.4				
NOV	24	USCGS S OF FIJI IS	12 59	16.0, 25.5S, 179.4E,				
			H = 520 Km, M = 4.6					
		LPB	eP	13 12 12				102.1
			eL	47				
		PNS	eP	13 12 14.2				
			eS	22 55				
			eL	47				
NOV	24	USCGS KODIAK IS REG	15 07	24.0, 56.5N, 153.0W,				
			H = 33 Km, M = 4.5					
		LPB	eL	15 50				100.9
NOV	24	USCGS S SANDWICH IS REG	16 26	29.0, 55.3S, 29.9W,				
			H = 33 Km, M = 4.9					
		LPB	P	16 35 10.2		1.0	20.0	48.2
		PNS	iP	16 35 14.0	C	0.9	21.0	
			eL	49				
NOV	24	USCGS W CHILE RISE	16 45	47.0, 38.3S, 92.1W,				
			H = 33 Km, M = 4.7					
		PNS	iP	16 51 57.4	C	1.5	25.4	
			i	59.8				
			iPP	52 07.7				
			PCP	55 04.7				
			S	56 48				
			L	17 00.4				
		LPB	P	16 51 57		2.1	280.0	30.1
			pP	52 07.5				
			PCP	55 03				
			eS	56 44				
			L	17 00.3				
		CCH	eP	16 52 02.8				
NOV	24	CCH CHA	iP	18 40 12.2	D			
			P	18 40 50.3	D			2.2
			S	41 16.6				
		PNS	eP	18 40 54				2.9
			S	41 28.0				
NOV	24	USCGS MARIANA IS	19 10	53.8, 17.2N, 146.0E,				
			H = 88 Km, M = 5.1					
		PNS	PKP	19 30 28.2		1.4	35.5	
			i	32.7				
			i	54.0				
			eL	20 20				
				30 29		1.5	78.0	147.4
				35				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	24	CHA CCH	PKP PKP	19 30 30.9 19 30 31.1	D			
NOV	24	USCGS HOKKAIDO, JAPAN REG		20 09 08.0, 43.8N, 145.7E, H = 124 Km, M = 4.7				
		LPB PNS	eL eL	21 15 21 15.2				140.4
NOV	25	LPB	eP	00 40.5				
NOV	25	PNS LPB	eP eP	02 11 33 49.7 02 11 33.7				
NOV	25	USCGS FIJI IS		03 18 54.7, 15.6S, 179.1E, H = 67 Km, M = 4.9				
		LPB	eP eL	03 33 03.5 04 08.8				106.1
NOV	25	USCGS MONA PASSAGE		03 31 52.0, 19.5N, 67.5W, H = 33 Km, M = 3.9				
		LPB PNS	eP eP eL	03 38 51 49 03 38 51 49				36.1
NOV	25	USCGS BANDA SEA		03 44 22.0, 7.3S, 128.9E, H 142 Km, M = 4.6				
		PNS LPB	PKP eL eL	04 03 57 55 04 53	C	1.4	17.9	150.7
NOV	25	PNS LPB	iP S eP	04 12 00.3 22.1 04 12 04	D	0.3	8.4	1.9
NOV	25	CCH LPB PNS	P P S P	64 28 36.2 04 28 50.3 29 36.6 04 28 54.0	D	0.7 0.5	6.5 6.1	3.9
NOV	25	USCGS NR CST OF EQUADOR		04 49 05.0, 1.9N, 79.2W, H = 37 Km, M = 4.5				
		PNS LPB	P eL P	04 53 47.4 58 04 53 51.7 58 54 08.4		1.4 1.5	55.3 36.4	21.1
					C			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	25	LPB	eP	05 00 20.5				
NOV	25	LPB	P	07 41 44.4		0.7	7.8	
		PNS	P	07 41 48.0		0.8	8.3	
NOV	25	PNS	eP	08 09 44				
			eS	10 25.4				
NOV	25	PNS	iP	08 15 32.9	D	0.4	23.2	1.8
			S	55.2				
		LPB	P	08 15 34.5				1.9
			S	57.7				
NOV	25	PNS	iP	10 43 59.3	D	0.6	44.8	2.6
			S	44 31.0				
		LPB	P	10 44 04.3		0.9	22.2	
NOV	25	CCH	P	11 02 14.4	D			
		LPB	eP	11 02 19.2		0.8	11.2	
		PNS	P	11 02 21.9		1.0	12.1	
			e(S)	03 13				
NOV	25	LPB	eP	11 21 54				
		PNS	eP	11 22 01				
			eS	35				
NOV	25	PNS	eP	12 36 03				
			eS	47				
NOV	25	PNS	P	13 05 52.9	D	0.5	10.0	20.3
			S	06 13.2				
NOV	25	PNS	iP	14 17 41.7	D			2.3
			S	18 10				
		LPB	P	14 17 43.5		1.0	54.0	2.5
			S	18 13.4				
NOV	25	PNS	P	19 03 08.2		1.3	60.9	9.2
			i	24.8				
			S	04 52				
		LPB	P	19 03 14.5		1.2	93.0	
			i	30				
		CCH	P	19 03 38.2	C			
NOV	25	USCGS		20 31 36.0, 41.6N, 72.6E, H = 33 Km, M = 5.1				
		KIRGIZ SSR						
		LPB	eL	21 37				
		PNS	eL	21 37.5			138.1	



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	25	USCGS LPB PNS	21 28 eL eL	50.0, 0.8N, 30.0E, H = 38 Km, 22 16 22 16.2				100.3
NOV	25	LPB PNS	eP P S	22 47 27.1 22 47 37.7 48 38.4				5.3
NOV	26	LPB PNS	eP S iP S	01 00 03 32.6 01 00 04.8 33.5	D	0.5	16	2.5 2.4
NOV	26	USCGS NR CST OF N CHILE	02 18	17.0, 25.6S, 70.6W, H = 54 Km, M = 5.5				
		LPB	P PP S PCP SCS	02 20 32.4 42.2 52.5 22 11 27 52		0.9	39.0	9.4
		PNS	P i S L iSCS	02 20 33.6 55.0 22 14 23.7 33 54.9		0.5	15.1	
NOV	26	USCGS SVALBARD REG	03 23	44.0, 78.4N, 5.2E, H = 33 Km, M = 4.7				
		LPB	eP eL	03 37 36 04 58				102.5
		PNS	eL	04 58				
NOV	26	USCGS OFF CST OF N CALIFORNIA	04 30	58.0, 40.3N, 125.5W, H = 33 Km, M = 4.6				
		LPB	eP	04 42 51				77.4
		PNS	eP	04 42 53				
NOV	26	USCGS NR E CST OF HONSHU, JAPAN	05 25	14.0, 35.6N, 140.1E, H = 64 Km, M = 4.3				
		PNS	ePKP i	05 44 56.9 45 14.6				
		LPB	ePKP eL	05 44 56 06 35		0.7	5.2	148.3
NOV	26	USCGS SAN JUAN PROV. ARGENTINA	06 06	24.8, 31.4S, 68.8W, H = 124 Km, M = 4.2				
		LPB	eP eL	06 09 51.2 06 09 53.2	D	0.6 1.0	4.8 24.8	14.6

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	26	LPB PNS	P iP	06 12 01.4 06 12 03.0	C	0.8 0.8	8.4 8.0	
NOV	26	LPB PNS	P iP S	06 53 30.4 06 53 34.3 54 14	D	0.9 0.4	29.0 5.5	3.4
NOV	26	USCGS NR E CST OF HONSHU, JAPAN		07 38 34.1, 35.6N, 140.1E, H = 62 Km, M = 4.1				
		LPB	ePKP	07 58 07				148.6
			eL	08 49				
		PNS	PKP i	07 58 15.8 36.6				
NOV	26	USCGS NR CST OF N CHILE		08 00 52.0, 23.8S, 70.4W, H = 77 Km, M = 4.4				
		LPB	P iPn S (Sg)	08 02 42.0 52.0 04 07.5 29		0.9	25.5	7.2
		PNS	iP iPn S iSg	08 02 43.6 55.0 04 08.2 35.2	D	0.9	17.0	
NOV	26	LPB PNS	P iP eS	09 57 45.0 09 57 45.2 58 12	C	0.6 0.4	18.0 15.1	2.3
NOV	26	LPB PNS	iP S iP iS	10 18 59.2 19 43.6 10 19 03.3 51.0	C	0.9 0.7	14.5 8.6	3.8 4.1
NOV	26	USCGS NR CST OF CENTRAL CHILE		10 40 13.0, 28.2S, 71.3W, H = 33 Km, M = 4.1				
		LPB	eP eL	10 43 04.5 46.5				11.6
		PNS	eP eL	10 43 01.6 46				
NOV	26	USCGS NR CST OF BAXACA, MEXICO		10 56 00.0, 15.1N, 94.1W, H = 44 Km, M = 4.2				
		PNS	iP eL	11 03 34 15.4	C	0.4	5.7	
		LPB	eP eL	11 03 37 15				40.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	26	USCGS IRAN-USSR	13 49 BOR REG	30.0, 37.7N, 58.6E,	H = 29 Km, M = 4.9			
		LPB	eL	14 50				129.0
NOV	26	PNS	eP	15 29 01				
			eS	30				
		LPB	eP	15 29 09.2		0.8	18.2	
NOV	26	LPB	eP	17 15 45				
		PNS	P	17 15 45.6		1.0	8.3	
NOV	26	LPB	P	17 52 03.7		0.7	22.2	2.8
			S	36.7				
		PNS	iP	17 52 04.2	D	0.5	25.7	2.8
			iS	37.0				
NOV	26	PNS	P	19 00 16.0	C	0.4	3.2	2.0
			S	40.0				
NOV	26	PNS	iP	19 03 17.4		0.4	9.1	2.0
			S	41.7				
NOV	26	LPB	eP	22 51 42.5				
		PNS	P	22 51 52.5		0.7	4.7	
NOV	26	PNS	iP	23 11 14.0	C	0.5	3.8	1.8
			S	36.5				
NOV	26	LPB	iP	23 49 09.4	D	0.4	96.0	2.3
			S	37.3				
		PNS	iP	23 49 10.0		0.5	18.8	2.2
			S	35.6				
		CCH	iP	23 49 22.1	D			
NOV	27	PNS	P	00 54 05.0		0.8	15.7	
		LPB	P	00 54 05.3		0.4	12.8	
NOV	27	USCGS N COLOMBIA	01 10	38.0, 6.9N, 73.0W,	H = 157 Km, M = 4.4			
		PNS	P	01 15 34.6		0.5	4.7	
			iPP	16 08.0				
		LPB	P	01 15 37.5		0.6	7.2	23.5
			PP	15 10.3				
			eS	19 39				
			eL	22				
NOV	27	LPB	eL	01 56				
				01 57.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	27	USCGS SVALBARD	03 02	01.0, 77.0N, 7.5E, H = 33 Km, M = 4.3				
		LPB	eL	03 50				102.4
		PNS	eL	03 50.5				
NOV	27	USCGS S ALASKA	04 10	43.0, 60.1N, 146.2W, H = 28 Km, M = 4.6				
		PNS	eP	04 24 15				
			eL	57.2				
		LPB	eL	04 57				98.0
NOV	27	PNS	eP	04 43 19				2.8
			S	52.4				
		LPB	eP	04 43 20				2.6
			S	51				
NOV	27	PNS	eP	05 30 01				3.0
			S	35.8				
		LPB	eP	05 30 10.4				
NOV	27	CCH	P	10 30 13.4	C			
NOV	27	PNS	P	10 32 05.7				2.8
			S	39.2				
NOV	27	USCGS KURILE IS	11 01	10.0, 49.5N, 155.8E, H = 40 Km, M = 4.9				
		LPB	ePKP	11 20 21				131.4
			eL	12 03				
		PNS	eL	12 03.4				
NOV	27	PNS	P	11 45 30.8				1.8
			S	52.9				
		LPB	P	11 45 34.2				
NOV	27	USCGS KURILE IS	12 48	02.0, 48.1N, 155.0E, H = 28 Km, M = 4.5				
		PNS	ePKP	13 07 16.7	1.4	13.7		
			eL	50.8				
		LPE	ePKP	13 07 18				132.3
			eL	50				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	27	USCGS MARIANA IS	13 41	19.0, 17.5N, 145.4E, H = 214 Km, M = 5.5				
		LPB	ePKP iPKP2 PKP eL	14 00 37.5 42.5 01 45 51		1.0	16.0	148.1
		PNS	iPKP iPKP2 eL	14 00 38.6 42.0 51	D	1.0	12.5	
		CCH	PKP	14 00 46.4	D			
NOV	27	PNS	P i	14 56 47.4 57 23.8		1.0	8.3	
NOV	27	PNS	eP S	15 40 32 41 17				3.9
NOV	27	PNS LPB	P eP	16 38 06.3 16 38 04		1.5	34.0	
NOV	27	PNS	iP S	16 41 10.6 34	D	0.5	4.5	1.9
NOV	27	PNS	P S	16 53 48.3 54 14.6		0.5	5.8	2.2
NOV	27	USCGS NEW HEBRIDES IS	18 11	27.5, 15.3S, 166.2E, H = 28 Km, M = 4.6				
		LPB	eL	19 07				117.4
NOV	27	PNS LPB	P P	19 26 06 19 26 05		0.8 1.0	8.6 24.0	
NOV	27	PNS	eP S	20 02 52.6 03 24				2.6
NOV	27	USCGS SVALBARD REG	20 13	01.5, 78.5N, 6.4E, H = 33 Km, M = 5.6				
		LPB	eP eL	20 26 55 21 02				103.0
		PNS	eS eSS i L	20 40 27 46 00 50 00 21 02				
NOV	27	USCGS FOX IS. ALEUTIAN IS	20 56	25.0, 52.6N, 169.2W, H = 33 Km, M = 4.2				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	27	PNS	P	22 42 00.2	D	0.5	3.2	2.8
			S	33.5				
		LPB	P	22 42 04.0				
NOV	27	PNS	P	23 24 23.2		0.5	1.9	2.4
			S	52.6				
		LPB	P	23 24 30.5		0.6	15.6	
NOV	27	PNS	P	23 31 07.5		0.3	1.3	2.2
			S	34				
		LPB	eP	23 31 11				
NOV	27	PNS	P	23 34 33.8				3.4
			S	35 13.5				
		LPB	eP	23 34 38.5				
NOV	27	PNS	P	23 56 28.9				2.6
			eS	57 00				
		LPB	P	23 56 33.3		1.0	24.0	2.6
			S	57 04				
		CCH	eP	23 57 00.7				2.4
			S	30.2				
NOV	28	PNS	eP	00 05 22.4				2.1
			S	48				
		LPB	eP	00 05 26.5				
NOV	28	PNS	iP	00 10 27.6	D	0.5	22.5	2.3
			i	33.1				
			S	55				
		LPB	P	00 10 31.0		0.8	356.0	2.8
		S	11 04					
		CCH	P	00 10 56.2	C			
NOV	28	PNS	eP	00 19 40				2.0
			S	20 04.4				
		LPB	P	00 19 50.5		0.9	23.8	1.3
			S	20 08				
		CCH	eP	00 20 18.5				
NOV	28	PNS	iP	00 31 01.3	D	0.5	16.1	2.1
			S	26.0				
		LPB	P	00 31 02.7				
NOV	28	PNS	eP	00 33 12.4				2.1
			S	37				
NOV	28	PNS	eP	00 36 01				
			eS	28				
		LPB	eP	00 36 06.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	28	PNS	eP	00 36 01				
			eS	28				
		LPB	eP	00 36 06.5				
NOV	28	PNS	P	00 38 14		0.4	2.3	
		LPB	P	00 38 19		1.0	20.0	
NOV	28	PNS	P	00 55 20.6		0.7	7.1	7.2
			eS	56 23				
		LPB	P	00 55 20.6				
NOV	28	PNS	eP	01 05 19.7				2.1
			S	45.6				
		LPB	eP	01 05 24				
NOV	28	PNS	eP	01 09 29.8				2.1
			S	54.5				
		LPB	eP	01 09 31.5				
NOV	28	PNS	eP	01 11 44				2.4
			S	12 13.2				
		LPB	eP	01 11 47.5				
NOV	28	PNS	iP	03 20 29.0	D	0.5	7.2	1.8
			S	51.2				
		LPB	eP	03 20 32				
NOV	28	USCGS NEW BRITAN REG	03 04	10.0, 5.4S, 151.3E, H = 74 Km, M = 4.6				
		LPB	PKP	03 23 25.5		0.8	4.2	135.0
		PNS	ePKP	03 23 26		0.9	4.5	
NOV	28	PNS	eP	03 43 16.4				2.3
			S	43.3				
		LPB	eP	03 43 22				2.0
			S	46.5				
NOV	28	LPB	eP	03 45 44.5				1.9
		PNS	eP	03 45 53				
			S	46 16				
NOV	28	PNS	iP	04 33 57.7	D	0.4	5.1	1.8
			iS	34 20.0				
		LPB	eP	04 34 03.5				2.9
			S	38				
NOV	28	PNS	eP	05 54 34.5				1.9
				57.4				
				05 54 39				2.2
				55 05.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	28	LPB	P	07 11 47		1.0	46.0	6.1
			S	12 57.0				
		PNS	P	07 11 47				2.8
			i	51.4				
			eS	12 20				
		CCH	P	07 11 48.0	D			
NOV	28	USCGS S OF PANAMA		07 32 53.4, 6.6N, 82.7W, H = 33 Km, M = 5.5				
		PNS	P	07 38 32.0		1.2	6.4	
			eS	43 04				
			eSS	44 28				
			L	45.9				
		LPB	P	07 38 36		1.3	35.0	27.0
			PP	39 28.5				
			S	43 04.3				
			L	46.3				
		CCH	P	07 38 51.9	D			
NOV	28	CCH	P	10 14 15.4	D			
		LPB	P	10 14 28.8		0.6	9.6	5.6
			S	15 32.5				
		PNS	P	10 14 32.0		0.5	19.3	5.9
			S	15 39				
NOV	28	PNS	iP	10 16 29.4		0.5	10.9	2.1
			S	55				
NOV	28	USCGS TONGA IS		10 08 08.7, 16.9S, 174.3W, H = 118 Km, M = 4.5				
		LPB	eP	10 21 30				99.7
			eL	55				
		PNS	eL	10 55.2				
NOV	28	PNS	eP	10 50 57.3				5.1
			S	51 56				
		LPB	eP	10 51 00				
NOV	28	PNS	eP	11 52 25				2.1
			S	50.3				
		LPB	eP	11 52 26.5				
NOV	28	USCGS NR E CST OF KAMCHATKA		11 49 29.0, 54.0N, 160.9E, H = 33 Km, M = 4.3				
		PNS	ePKP	12 08 31				
		LPB	eL	12 49				126.9



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	28	PNS	eP	12 42 30.5		0.6	4.6	3.6
			S	43 13				
		LPB	eP	12 42 38.5				
NOV	28	PNS	eP	14 58 48.4				
			eS	59 07				
NOV	28	USCGS		14 48 53.8, 22.2S, 171.6E, H = 125 Km, M = 4.9				
				LOYALTY IS REG				
		LPB	ePKP	15 07 11				110.2
		PNS	eL	15 41				
NOV	28	LPB	eP	15 11 39.5				
		PNS	P	15 11 45.5	D	0.6	10.0	2.0
			S	12 10				
NOV	28	USCGS		19 28 55.0, 17.7N, 145.6E, H = 309 Km, M = 4.7				
				MARIANA IS				
		PNS	iP	19 48 05.8	C	0.9	5.9	147.5
			e	49 43.3				
			eL	20 38				
NOV	28	PNS	P	20 16 54.0		0.5	3.7	3.2
			i	12.0				
			S	17 31.0				
NOV	28	CCH	P	22 58 20.1	D			
NOV	29	USCGS		00 53 00.7, 18.4N, 64.4W, H = 132 Km, M = 4.0				
				VIRGIN IS				
		PNS	eP	00 59 40.3				
		LPB	eP	00 59 41				35
NOV	29	LPB	P	02 37 40		0.9	13.6	2.9
			S	38 13.7				
		PNS	P	02 37 41.8		0.9	11.6	2.9
			S	38 15.5				
NOV	29	USCGS		05 03 50.1, 26.3N, 44.7W, H = 33 Km, M = 5.0				
				N ATLANTIC RIDGE				
		CCH	P	05 12 27.1				
		PNS	P	05 12 27.4		1.0	22.9	
			i	49.6				
			e	19 26				
			L	27				
		LPB	P	05 12 28.5		2.0	240.0	48.2
			ePP	35.5				
			ePP	14 25				
			e	19 26				
			e	27				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	29	USCGS N ATLANTIC RIDGE		06 00 01.0, 26.3N, 44.3W, H = 33 Km, M = 4.6				
		PNS	eP i eL	06 08 42.4 48.5 23		1.0	14.8	
		LPB	P eL	06 08 43.0 23		1.0	12.0	48.5
NOV	29	USCGS FIJI IS REG		08 00 10.0, 15.9S, 176.8W, H = 370 Km, M = 4.6				
		LPB	eP eL	08 13 05 48				102.2
NOV	29	USCGS S INDIAN OCEAN		09 21 22.8, 9.8S, 90.6E, H = 33 Km,				
		LPB	PKP ePKS eL	09 41 03.5 44 36 10 31		1.7	57.5	146.6
		PNS	iP i(PKP) eL	09 41 04.8 15 10 31	C	1.4	59.6	
NOV	29	USCGS HINDU KUSH REG		10 11 02.0, 36.4N, 70.2E, H = 228 Km, M = 4.5				
		LPB	ePKP eL	10 30 03 11 16				138.0
		PNS	eL	11 16.4				
NOV	29	USCGS CHILE-BOLIVIA BOR REG		12 10 23.0, 21.3S, 68.8W, H = 122 Km, M = 4.4				
		CCH	iP	12 11 30.8	C			
		LPB	iP i eS	12 11 35.8 45.5 12 25.8	C	0.8	10.5	4.6
		PNS	iP S	12 11 39.4 12 35.6	C	0.8	70.8	
NOV	29	USCGS HOKKAIDO, JAPAN REG		14 08 13.8, 42.2N, 143.4E, H = 33 Km, M = 4.1				
		PNS	ePKP	14 27 48.4				
		LPB	eL	15 16				143.5
NOV	29	LPB	P	15 29 56		0.9	4.2	
		PNS	P eS	15 29 57.2 30 48		0.8	31.2	4.3

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	29	CCH	iP	16 23 43.9	C				
		LPB	P	16 23 48.0					
			i	24 09					
		PNS	iP	16 23 51.3	C	1.3	87.5	5.2	
			i	24 43.0					
		S	51.4						
NOV	29	USCGS	17 16 34.0, 41.5N, 144.2E, H = 40 Km, M = 4.5						
		HOKKAIDO, JAPAN REG							
		PNS	ePKP	17 36 06.9					
			L	18 24					
		LPB	eL	18 24			142.7		
NOV	29	LPB	P	17 45 48.3		0.9	7.1		
		PNS	P	17 45 50.0		0.7	20.8		
			i	46 24.4					
NOV	29	USCGS	19 25 35.0, 9.1N, 77.2W, H = 30 Km, M = 3.9						
		NR N CST OF COLOMBIA							
		LPB	eP	19 31 13				27.0	
			eL	38					
		PNS	eP	19 31 14		1.3	10.6		
NOV	29	LPB	eP	19 54 24					
			eS	56 43					
		PNS	P	19 54 28					
			i	50.4					
			(S)	56 56.2					
		CCH	eP	19 55 15.4					
NOV	29	USCGS	19 56 57.2, 12.1N, 140.6E, H = 33 Km, M = 4.6						
		W CAROLINE IS							
		LPB	PKP	20 16 43	D	0.9	18.7	151.8	
			pPKP	52.5					
			eL	21 08					
		PNS	PKP	20 16 50.9	D	1.0	19.0		
			eL	21 08.7					
NOV	29	USCGS	22 17 29.9, 14.7S, 167.4E, H = 161 Km, M = 5.2						
		NEW HEBRIDES IS							
		PNS	ePKP	22 35 54					
			i	36 00.4					
			e(SKS)	42 55					
			iSP	46 20.0					
			i	47 00					
			eSS	53 18					
			eG	23 05.4					
			eL	12.5					
			LPB	ePKP	22 35 55				117.0
				ePP	37 09				
					39 04				
			23 13						

NOVEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	29	LPB PNS	eP eP	22 53 21 22 53 40.7				
NOV	29	CCH	P	23 14 48.9	D			
NOV	29	USCGS N EASTER IS		22 54 50.0, 9.1S, 109.8W, H = 33 Km, M = 4.7 CORDILLERA				
		PNS	P iPP PP iS i SeS L	23 02 31.5 41.0 04 14.5 08 45 11 56 12 38 14.8	D	1.6	99.7	
		LPB	P eS eL	23 02 34.6 08 54 14.6	D	1.6	91.5	41.0
NOV	30	PNS	P S	00 01 50.8 02 15	C	0.6	5.6	2.0
NOV	30	USCGS KURILE IS		00 04 36.0, 46.9N, 152.7E, H = 33 Km, M = 4.4				
		LPB PNS	eL eL	01 07 01 07.1				134.5
NOV	30	USCGS S OF HONSHU, JAPAN		00 30 27.7, 30.7N, 141.9E, H = 20 Km, M = 4.7				
		LPB	ePKP eL	00 50 14.5 01 40		1.0	14.0	149.3
		PNS	ePKP i eL	00 50 16 30.0 01 40		1.0	5.6	
NOV	30	LPB PNS	P iP	02 37 43.6 02 37 47.2	C	0.6 0.6	4.8 9.2	
NOV	30	USCGS NR E CST OF HONSHU, JAPAN		03 36 33.0, 38.2N, 141.3E, H = 34 Km, M = 4.0				
		PNS	ePKP eL	03 56 11.4 04 45.5				
		LPB	eL	04 45				146.5
NOV	30	PNS LPB	iP S P S	04 39 06.8 35 04 39 11.6 43.5	D	0.4 0.9	19.5 6.8	2.3 2.7

NOVEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	30	LPB PNS	eP eP S	05 24 39 05 24 40.0 25 22.6				3.7
NOV	30	LPB PNS	eP P S	07 22 32.5 07 22 35.1 23 06		0.4	2.9	2.6
NOV	30	PNS	iP S	12 42 58.6 43 24.4		0.6	9.2	2.2
NOV	30	USCGS GREENLAND SEA	13 00	40.0, 73.4N, 7.0E, H = 33 Km, M = 4.8				
		LPB	eP eL	13 14 23 49				101.4
NOV	30	USCGS N CHILE	14 59	17.5, 23.5S, 69.0W, H = 90 Km, M = 4.8				
		LPB	P eS	15 01 00 24		0.9	17.9	7.0
		PNS	P i iS L	15 01 01.8 07.0 02 28 45				
NOV	30	PNS	P S	16 48 51.2 49 34.8		1.0	13.5	3.8
NOV	30	PNS	P S	17 33 59.0 34 22		0.4	1.5	1.9
NOV	30	PNS	eP S	20 22 27.4 23 26				5.1
NOV	30	USCGS NEW BRITANIN REG	22 10	26.0, 4.7S, 152.9E, H = 73 Km, M = 4.9				
		LPB	eP eL	22 29 35 23 14				133.6
		PNS	ePKP L	22 29 36 23 13.9				
NOV	30	PNS LPB	iP e eP	22 33 05.0 27.7 22 33 06.5	C	1.1	13.9	

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	1	USCGS S PERU		00 17 48.1, 15.2S, 73.1W, H = 58 Km, M = 4.3				
		PNS	iP i S L	00 19 03.5 14 20 07 20.3	C	0.9	35	
		LPB	iP PP S	00 19 09.8 21.2 20 12.0	C	0.9	20	4.8
DEC	1	USCGS MOLUCCA PASSAGE		00 32 31.8, 0.1N, 125.6E, H = 123 Km, M = 5.3				
		LPB	ePKP pPKP eSS eL	00 52 15.0 47 01 16 24 47				159.3
		PNS	ePKP PKP2 eL	00 52 20.5 56.8 01 46.7		1.5	26	
DEC	1	USCGS TONGA IS		01 23 34.8, 19.7S, 175.7W, H = 139 Km, M = 4.1				
		LPB	eP eL	01 37 08 02 10				99.9
DEC	1	PNS LPB	eP P	03 44 44.6 03 44 49		0.9	5	
DEC	1	LPB PNS	P iP	03 53 14.0 03 53 17.4	C C	0.7 0.4	6 9	
DEC	1	LPB PNS	P eS P i iS	04 25 25.2 26 14.5 04 25 26.0 28.9 26 19		1.1	24	4.2 4.6
DEC	1	USCGS NEW HEBRIDES IS		04 56 58.2, 14.0S, 167.1E, H = 132 Km, M = 6.1				
		LPB	P PKP PP ePKS eSKS PS PPS SSP G eL	05 11 53 05 15 32.0 16 42 19 07 22 13 26 30 27 10 32 47 33.3 52		2.2	280	117.4
		PNS	iP iPKP	05 11 53.0 15 31.7 58.0 6 43 9 09	C	2.0	480	

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
			SKS	22 20					
			IPS	26 30					
			i	40					
			SSP	32 50					
			G	33.4					
			L	52.7					
DEC	1	LPB	eP	05 25 55		0.8	18		
		PNS	eP	05 25 56.0					
DEC	1	USCGS	11 41 37.3, 8.9S, 79.5W, H = 33 Km, M = 4.1						
		NEAR COAST OF N PERU							
		PNS	eP	11 44 46.8					
			eL	48.3					
		LPB	eP	11 44 48				13.4	
			eL	48					
DEC	1	USCGS	11 38 24.7, 6.2N, 126.6E, H = 111 Km, M = 5.1						
		MINDANAO, PHILIPPINE IS							
		PNS	ePKP	11 58 11		0.9	9		
			i	59 05.0					
			eL	54.7					
		LPB	ePKP	11 58 12				162.0	
			eL	12 55					
DEC	1	USCGS	15 21 03.6, 40.7N, 142.0E, H = 33 Km, M = 3.9						
		NR E COAST OF HONSHU, JAPAN							
		LPB	eL	16 02				144.6	
		PNS	eL	16 02.3					
DEC	1	PNS	P	16 38 55.3		0.4	2	4.5	
			S	39 48					
DEC	1	PNS	P	16 40 36.2		0.5	9	3.1	
			S	41 12					
		LPB	eP	16 40 40.5				3.5	
			S	41 22					
DEC	1	USCGS	16 38 27.5, 57.9S, 25.4W, H = 33 Km, M = 4.6						
		S ANDWICH IS REGION							
		LPB	P	16 47 37		0.8	7	51.7	
		PNS	P	16 47 38.5		0.9	6		
			i	48 50					
			eL	17 03.4					
DEC	1	USCGS	17 11 24.1, 10.2S, 161.6E, H = 73 Km, M = 4.6						
		SOLOMON IS							

18 10  
18 10

124.7

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	1	USCGS	18 56 23.1, 41.6N, 139.6E, H = 173 Km, M = 5.4 HOKKAIDO, JAPAN REG						
		LPB	PKP	19 15 41		1.6	109	145.8	
			PKP2	43.6					
			eL	20 05					
		PNS	iPKP	19 15 41.5	C	1.4	47		
			pPKP	16 23.7					
			PP	19 05.5					
			eL	20 05					
DEC	1	USCGS	20 06 36.5, 35.7N, 140.0E, H = 33 Km, NR E COAST OF HONSHU, JAPAN						
		PNS	ePKP	20 26 17					
		LPB	ePKP	20 26 18				148.5	
DEC	1	LPB	eP	21 04 31.5					
		PNS	iP	21 04 35.0	D	0.4			
DEC	1	LPB	P	23 51 56		0.4	6	1.9	
			S	52 19					
		PNS	iP	23 51 59.9	C	0.4	5	2.1	
			iS	52 25.7					
DEC	2	PNS	P	01 47 40.0	D	0.9	14		
		LPB	P	01 47 44		0.8	7		
DEC	2	USCGS	02 17 02.7, 35.8N, 140.9E, H = 25 Km, M = 4.1 NR E COAST OF HONSHU, JAPAN						
		PNS	ePKP	02 36 45.5		1.3	9		
			eL	03 27.1					
		LPB	ePKP	02 36 46				147.7	
			eL	03 27					
DEC	2	LPB	eP	02 53 11					
		PNS	P	02 53 11.5		1.0	10		
DEC	2	LPB	eP	03 25 21.5		0.7	6		
		PNS	iP	03 26 06.1	C	0.5	10	2.1	
			iS	31.0					
DEC	2	USCGS	03 07 54.0, 28.2N, 53.2E, H = 40 Km, M = 5.2 S IRAN						
		PNS	ePKP	03 26 52.5		1.0	7		
			pPKP	27 02.7					
			i	33.9					
			eL	04 07.3					



DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	2	USCGS MOLUCCA		07 43 51.4, 0.2S, 125.2E, H = 33 Km, M = 5.2				
		PNS	e(PKP) eL	08 03 48 58.4				
		LPB	ePKP ePKP2 eL	08 03 50 04 20 58				157.3
DEC	2	LPB PNS	iP eP	08 50 13.0 08 50 15.4		1.0	18	
DEC	2	PNS LPB	eP e(S) eP	09 26 28.6 27 10 09 26 40.5				
DEC	2	USCGS N OF HALMAHERA		09 31 17.6, 3.2N, 128.1E, H = 92 Km, M = 5.8				
		PNS	iPKP iPKP2 i PKS i(PP) eL	09 51 11 34.6 50 54 44.5 55 06.9 10 44		1.6	63	
		LPB	iPKP ePKP2 PKS eL	09 51 11.3 37 54 35 10 44		1.1	32	154
DEC	2	LPB PNS	eP P S	10 05 34 10 05 37.4 07 03	C	0.7 0.9	8 11	
DEC	2	LPB PNS	eP eP eS	12 30 28 12 30 42.2 31 06.2				2.0
DEC	2	LPB PNS	P eL iP i	14 55 09.5 15 15 14 55 12.3 23.7	C	1.3 1.1	20 14	
DEC	2	LPB <u>CHA</u> PNS	P S iP P eS	16 10 15.5 46 16 10 17.8 16 10 20.0 51	D C	0.7	5	2.5 2.6
DEC	2	USCGS SOLOMON IS		18 29 09.3, 10.3S, 161.6E, H = 78 Km, M = 4.5				

19 28  
19 28

123.7

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	2	PNS	iP S	20 31 06.2 29	C	0.4	3	1.9
DEC	2	USCGS 23 01 19.1, 22.5S, 69.4W, H = 33 Km, M = 4.6 NEAR COAST OF N CHILE						
		LPB	P Pg S	23 02 49 03 21 03 53		0.9	37	6.2
		<del>CHA</del> PNS	P iP eS	23 02 50.9 23 02 51.4 03 51.8	D C		32	
DEC	3	LPB	iP i	02 43 36.0 41.2		0.9	10	
		PNS	iP iS	02 43 44.0 56.7	D			1.0
DEC	3	PNS	iP iS	05 58 52.8 59 17.3	D	0.5	26	2.0
		LPB	P iS	05 58 54 59 20.5		0.6	7	2.2
DEC	3	USCGS 05 42 39.6, 20.8S, 169.8E, H = 77 Km, M = 4.6 NEW HEBRIDES IS						
		PNS	PKP	06 01 12.7	D	1.0	10	
		LPB	ePKP eL	06 01 16.5 38				112.4
DEC	3	USCGS 06 06 36.9, 8.8S, 135.5E, H = 18 Km, M = 4.7 ARAFURA SEA						
		PNS	iPKP ipPKP eL	06 26 18.3 28.0 07 16	C	0.7	21	
		LPB	PKP pPKP eL	06 26 18.5 28.3 07 16	C	1.8	15	145.8
DEC	3	PNS	P S	06 51 15.7 40		0.4	2	2.0
		LPB	eP	06 51 18.5				
DEC	3	<del>CHA</del> LPB	eP eP i(Pg) S	07 07 41.8 07 07 42.5 55 08 51.5				6.0
		PNS	eP eS	07 07 47.4 08 55				
DEC	3	USCGS 11 19 24.4, 5.8N, 72.5W, H = 27 Km, M = 4.5 COLOMBIA						

24 20.8 C 1.2 40  
30  
52

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
			S	28 21				
			eL	30				
			SeS	35 48				
		LPB	P	11 24 25		1.0	14	22.3
			PP	50.5				
			eL	30				
DEC	3	USCGS S OF FIJI IS	14 13	25.2, 24.7S, 179.9E, H = 492 Km, M = 5.1				
		LPB	eP	14 26 27				102.1
			ePP	30 44				
			eL	15 00				
		PNS	eP	14 26 27.4				
			e	28 24.6				
			PP	30 44.5				
			i	36 19.2				
			eL	15 00				
DEC	3	USCGS COLOMBIA	15 10	31.5, 5.6N, 72.4W, H = 13 Km, M = 4.4				
		PNS	P	15 15 30.0		0.9	16	
			eL	21.2				
		LPB	eP	15 15 31				22.4
			eS	19 24				
			eL	21				
DEC	3	USCGS OFF CST OF CENTRAL AMERICA	17 04	54.9, 2.2N, 83.3W, H = 13 Km, M = 4.7				
		PNS	P	17 10 06.6		1.8	84	
			ipP	14.2				
			eS	14 10				
			L	16.5				
		LPB	P	17 10 11.2		1.2	52	23.8
			pP	18.4				
			eL	16				
DEC	3	LPB PNS	eP	17 38 15				
			eP	17 38 26.7		0.8	5	
			i	34.0				
DEC	3	PNS	P	17 48 31.4		0.6	3	3.7
			iS	49 14.8				
		LPB	eP	17 48 36				
DEC	3	USCGS HONSHU, JAPAN	22 06	06.5, 39.1N, 141.7E, H = 109 Km, M = 3.9				
		LPB	ePKP	22 25 21				145.8
			eL	23 15				
		PNS	ePKP	22 25 22				
				23 14.4				

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	4	PNS	P S	01 20 37.0 21 10.0				2.6
DEC	4	PNS	P S	00 50 44.4 51 06.3	D	0.5	4	1.8
DEC	4	PNS LPB	P S eP	02 19 18.0 41 02 19 20		0.8	12	1.9
DEC	4	PNS LPB	eP S eP	04 32 20 42 04 32 24.5				1.8
DEC	4	USCGS LPB		04 21 55.6, 21.0S, 169.2E, H = 248 Km, NEW HEBRIDES IS 05 14				112.5
DEC	4	LPB PNS	eP eP	05 26 53 05 26 57				
DEC	4	LPB CHA PNS	iP iP iP S	06 54 52.3 06 54 53.7 06 54 56.0 55 53.4	C D C	0.8 0.9	62 45	5.0
DEC	4	LPB PNS	P L P i	12 16 56.7 25.2 12 16 57 17 52.6		1.5 1.4	36 60	
DEC	4	LPB PNS	eP e P S	12 55 41 56 19.5 12 55 49.0 56 19		0.4	3	2.6
DEC	4	USCGS LPB PNS		14 18 21.9, 40.3S, 73.4W, H = 33 Km, M = 4.2 NEAR COAST OF CENTRAL CHILE 14 23 36 30 14 23 40 30.4		1.0	10	23.7
DEC	4	USCGS PNS		16 24 27.9, 38.7N, 144.2E, H = 33 Km, M = 4.0 OFF E COAST OF HONSHU, JAPAN 16 43 58 L 17 32 14 10 12		1.0	7	144.0

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	4	PNS	P	17 49 28.0		1.2	19	
		LPB	P	17 49 31.5		1.1	21	
DEC	4	USCGS TONGA IS		18 02 08.0, 15.3S, 173.2W, H = 21 Km, M = 4.9				
		LPB	eP	18 15 50.5				99.4
			eL	49				
		PNS	eSKS	18 26 36				
			L	49				
DEC	4	PNS	eP	22 12 48.3				2.3
			S	13 15				
		LPB	P	22 12 53.2		0.8	13	2.2
			S	13 19.5				
DEC	4	USCGS SOLOMON IS		23 23 22.3, 6.4S, 154.4E, H = 87 Km, M = 4.7				
		LPB	ePKP	23 42 31				131.8
			eL	24 26				
		PNS	eL	00 26				
DEC	5	PNS	eP	01 27 07				2.8
			eS	40				
		LPB	eP	01 27 09.5				
DEC	5	USCGS MOLUCCA PASSAGE		01 18 46.4, 3.0N, 127.6E, H = 87 Km, M = 5.0				
		LPB	ePKP	01 38 44				159.3
			eL	02 34				
		PNS	ePKP	01 38 44.3				
			i	40 32.3				
			eL	02 34				
DEC	5	USCGS W OF GALAPAGOS IS		02 36 53.5, 2.3N, 97.6W, H = 33 Km, M = 4.8				
		LPB	P	02 43 36.6		1.1	14	33.6
			iPP	42.5				
			eL	53				
		PNS	iP	02 43 38.7	C	1.6	30	
			eL	53				
DEC	5	PNS	iP	02 50 49.7				1.7
			S	51 11.2				
		LPB	P	02 50 51.6		0.8	10	

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	5	LPB	eP	03 55 03		1.0	6		
			eL	04 05.6					
		PNS	eP	03 55 04					
			L	04 05.7					
DEC	5	USCGS	04 34 59.0, 32.4S, 68.9W, H = 144 Km, M = 4.1						
		MENDOZA PROV, ARGENTINA							
		LPB	P	04 38 36		1.0	10	15.6	
		PNS	P	04 38 37.6		1.9	52		
DEC	5	USCGS	04 55 39.9, 21.5S, 174.7W, H = 33 Km, M = 4.4						
		OFF COAST OF ECUADOR							
		PNS	eP	05 00 47		2.2	13		
			PP	56.5					
			S	05 13					
			L	07.5					
		LPB	P	05 00 50				23.8	
			pP	01 01.7					
			PP	01 19.5					
			eS	05 17					
			eL	07.8					
DEC	5	USCGS	04 49 38.9, 21.5S, 174.7W, H = 33 Km, M = 4.8						
		TONGA IS							
		LPB	eL	05 36				99.0	
		PNS	eL	05 36					
DEC	5	USCGS	07 23 05.0, 32.2N, 131.8E, H = 33 Km, M = 4.5						
		KYUSHU, JAPAN							
		LPB	ePKP	07 42 56				156.1	
			eL	08 37					
		PNS	ePKP	07 42 57					
			eL	08 37					
DEC	5	LPB	P	10 57 09.2		0.8	6		
DEC	5	LPB	eP	12 45 08		0.9	10		
		PNS	eP	12 45 10.3		0.9	7	7.8	
			i	51.0					
			S	46 38					
DEC	5	LPB	iP	12 48 26.5		1.2	18	1.3	
			S	43.5					
		PNS	eP	12 48 31.5				1.6	
			eS	52					
DEC	5	USCGS	13 00 30.8, 13.9N, 91.2W, H = 45 Km, M = 4.1						
		NEAR COAST OF GUATEMALA							

46  
48.5

38.0

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	5	USCGS S OF MARIANA	14 09	55.0, 12.7N, 144.1E, H = 30 Km, M = 4.8				
		LPB	ePKP	14 29 39		0.8	7	148.4
			eL	15 20				
		PNS	ePKP	14 29 39.4		1.3	26	
			pPKP	49.4				
			eL	15 20				
DEC	5	PNS	P	14 57 45.2		0.7	5	
DEC	5	USCGS SOLOMON IS	15 36	24.0, 11.0S, 162.7E, H = 44 Km, M = 4.7				
		LPB	ePKP	15 55 20				122.4
			eL	16 35				
DEC	5	USCGS GUATEMALA	16 11	24.3, 14.1N, 90.8W, H = 35 Km, M = 4.2				
		LPB	eP	16 18 43				38.2
			eL	30				
		PNS	eL	16 30.2				
DEC	5	USCGS BONIN IS REG	17 38	47.8, 26.0N, 142.6E, H = 33 Km, M = 4.2				
		LPB	ePKP	17 58 30.5				149.5
			eL	18 49				
		PNS	PKP	17 58 37.3		1.0	7	
			eL	18 49				
DEC	5	PNS	iP S	18 07 56.7 08 20.0	D	0.5	12	1.9
DEC	5	LPB	eP	21 03 27		0.9	10	
		PNS	p S	21 04 00.0 34.6		0.5	6	2.9
DEC	5	LPB	iP i	21 36 18.5 41.2				
		CCH	eP	21 36 24.4				
		PNS	P	21 36 26.0		0.6	10	
DEC	5	USCGS VOLCANO IS REG	22 30	32.6, 25.8N, 142.7E, H = 33 Km, M = 4.7				
		PNS	PKP	22 50 17.8		1.0	6	
			pPKP	27.9				
			eL	23 41				
		LPB	PKP	22 50 18		1.0	18	149.4
			pPKP	25.5				
				3 41				
				2 50 26.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	5	LPB	iP	22 58 14	D	0.6	24	2.0	
			S	37.7					
		PNS	iP	22 58 14.9	C	0.6	13	2.1	
			S	39.9					
DEC	5	LPB	P	23 32 45.7		0.9	14		
			e	33 16					
			eP	23 32 46					
		CCH	eP	23 32 50					
DEC	6	CCH	P	00 54 04.2		1.1	14		
			LPB	P					00 54 14
			i	19.5					
			L	01 16					
		PNS	iP	00 54 17	C	0.9	12		
DEC	6	USCGS 02 30 53.0, 36.2N, 70.0E, H = 58 Km, M = 4.9 HINDU KUSH REG							
		LPB	ePKP	02 40 03				138.0	
			eL	03 36					
DEC	6	USCGS 03 22 35.3, 4.4S, 134.1E, H = 33 Km, M = 4.8 W NEW GUINEA REG							
		PNS	ePKP	03 42 19		1.0	5		
			iPKP2	29.6					
		LPB	eL	04 33		1.2	5	149.4	
			ePKP	03 42 20					
					PKb2	28.5			
		CCH	ePKP	03 42 31.7					
DEC	6	PNS	P	04 51 30.1		0.5	4	1.8	
			S	52					
DEC	6	USCGS 05 25 07 2, 41.9S, 83.7W, H = 33 Km, M = 5.3 W CHILE RISE							
		LPB	iP	05 31 04.0	C	0.9	37	28.6	
			iPP	10.2					
			PCP	34 13.2					
				L	39				
		PNS	iP	05 31 04.7	C	1.9	165		
			i	10.0					
			i	16.2					
PCP	34 13.9								
		L	39						
		CCH	P	05 31 06.2					
DEC	6	LPB	eP	06 52 48.5		0.4	2	5.4	
			PNS	P					06 52 56
			S	53 59.4					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	6	CCH	P	07 34 01.9					
		LPB	eP	07 34 05		0.8	8		
		PNS	P	07 34 07.4		0.9	11		
DEC	6	USCGS	07 18 39.9, 50.1N, 159.8E, H = 27 Km, M = 5.4						
		KURILE IS REG							
		PNS	iPKP	07 37 48.0	C	1.3	24		
			eL	08 19					
		LPB	PKP	07 37 48.5		1.1	18	129.1	
			eL	08 19					
		CCH	ePKP	07 37 53.7					
DEC	6	LPB	eP	09 31 17.5				4.4	
			i	32					
			S	32 10					
		PNS	eP	09 31 18.5				4.5	
			S	32 11.4					
		CCH	eP	09 31 33.4					
DEC	6	PNS	eP	10 04 31					
		LPB	P	10 04 37.4		0.8	14		
		CCH	eP	10 04 59.6					
DEC	6	USCGS	10 45 02.0, 41.9N, 141.1E, H = 127 Km, M = 4.3						
		HOKKAIDO, JAPAN REG							
		LPB	eL	11 53				144.4	
		PNS	L	11 53					
DEC	6	USCGS	11 07 50.2, 18.2S, 175.1W, H = 244 Km, M = 4.5						
		TONGA IS							
		LPB	eP	11 21 07				100.2	
			eL	55					
		PNS	eL	11 55					
DEC	6	PNS	P	11 52 15.7	C	0.5	7	2.0	
			iS	39.7					
DEC	6	PNS	iP	16 56 38.6	D	0.5	8	2.0	
			S	57 23					
DEC	6	USCGS	18 46 46.4, 15.6S, 166.7E, H = 23 Km,						
		NEW HEBRIDES							
		LPB	ePKP	19 05 28				117.0	
			eL	43					
		PNS	L	19 42.5					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	6	LPB	P	19 29 06.2		1.0	22	
			PNS	P	19 29 06.3		0.9	10
			CCH	eP	19 29 07.5			
DEC	6	LPB	eP	21 10 58.5		2.4	126	
			ePP	12 12				
			S	16 07.5				
			eSS	18 21				
		PNS	L	19.7				
			P	21 10 59.2	C	2.0	138	
			i	11 19.4				
			PP	12 10				
			eS	16 09				
		CCH	L	19.6				
			eP	21 11 03.5				
			USCGS 21 13 26.5, 41.2S, 90.3W, H = 33 Km, M = 4.6 S PACIFIC OCEAN					
DEC	6	LPB	P	21 19 46.6		1.1	28	32.4
			ePP	21 04.5				
			L	28.6				
		PNS	iP	21 19 47.0	D	1.3	67	
			iPP	56.6				
			PP	20 05.0				
			PPP	21 15.0				
		CCH	L	28.6				
			eP	21 19 49.9				
			USCGS 21 22 21.7, 30.8N, 41.7W, H = 33 Km, M = 4.5 N ATLANTIC RIDGE					
DEC	6	PNS	P	21 31 41.3	C	1.3	26	
			eL	48				
		LPB	eP	21 31 42.5		1.5	63	54.8
			eL	48				
DEC	6	PNS	iP	22 20 12.6	C	0.4	5	2.3
			S	40.8				
DEC	6	LPB	P	22 34 10.6	D	0.7	16	7.9
			i	29.5				
			S	35 36				
		PNS	P	22 34 14.2		0.8	16	7.8
			S	35 40.5				
DEC	6	PNS	iP	23 09 41.4	D	0.4	12	2.0
			S	10 06				
DEC	7	USCGS	01 07 15.9, 37.3N, 114.2W, H = 33 Km, M = 4.7 S NEVADA					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	7	LPB PNS	eP eP	00 03 12.5 00 03 13.2		0.9 0.9	8 6	
DEC	7	PNS LPB CCH	iP iS iP iS P	04 14 05.3 34.2 04 14 08.2 39.2 04 14 29.2	D D	0.4 0.9	35 39	2.4 2.6
DEC	7	CCH LPB PNS	P iP i iP eS	05 12 29.7 05 12 41.7 50 05 12 46.0 13 49	C C	1.0 0.5	40 13	5.5
DEC	7	PNS LPB	eP e eP	06 55 30.6 56 00.3 06 55 38.5		1.1	5	
DEC	7	USCGS LPB PNS	06 50 34.8, 33.0N, 137.6E, H = 348 Km, M = 4.1 ePKP eL ePKP e L	07 09 41 08 01 07 09 42 11 10.6 08 01		0.6	3	150.8
DEC	7	LPB PNS CCH	eP P P	07 12 59.5 07 13 03.7 07 13 47.0		0.8	6	
DEC	7	LPB	P	08 25 07		1.0	12	
DEC	7	PNS LPB CHA	iP iS P i S iP	08 54 43.5 55 07.9 08 54 47 51.5 55 15 08 54 48.1	C C C	0.7 0.9	91 42	2.0 2.3
DEC	7	PNS LPB	iP iS eP S	10 22 31.4 59.7 10 22 35 23 04.7	D	0.5	22	
DEC	7	USCGS LPB	13 13 54.8, 15.4S, 167.6E, H = 110 Km, NEW HEBRIDES IS ePKP	13 32 12 4 09 4 09				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	7	USCGS	16 59 29.2, 11.9N, 142.6E, H = 33 Km, M = 5.1 S OF MARIANA IS						
		LPB	ePKP	17 19 14				149.4	
			pPKP	20.7					
			eSS	41 10					
			eL	18 09					
		PNS	ePKP	17 19 14.2		1.7	23		
			pPKP	24.7					
			eL	18 09					
DEC	7	USCGS	17 17 42.0, 44.3N, 151.7E, H = 26 Km, M = 5.8 KURILE IS REGION						
		PNS	iPKP	17 36 04.7	D	1.8	129		
			ipPKP	12.6					
			PP	38 48					
			iPKS	40 31.8					
			L	18 21.9					
		LPB	ePKP	17 37 04.5	D	2.0	230	136.8	
			ipPKP	14.3					
			PKS	40 35.5					
			eL	18 22					
DEC	7	USCGS	18 23 10.5, 1.6S, 80.2W; H = 81 Km, M = 4.3 NR COAST OF ECUADOR						
		PNS	eP	18 27 23.2		1.4	20		
			pp	41.4					
			L	31.6					
		LPB	eP	18 27 28				18.7	
			eL	32					
DEC	7	LPB	eP	18 42 23					
		PNS	iP	18 42 25.2	C	0.7	23	5.0	
			S	43 23.8					
DEC	7	LPB	eP	20 12 25					
		PNS	iP	20 12 29.1	D	0.5	5	1.9	
			iS	51.8					
DEC	7	USCGS	20 43 59.9, 40.8N, 120.0W, H = 33 Km, M = 4.8 NEVADA						
		PNS	P	20 55 34					
			epP	44.6					
		LPB	eP	20 55 37.5				74.7	
			eL	21 19					
DEC	7	USCGS	22 09 01.5, 51.7N, 176.0W, H = 64 Km, M = 4.7 ANDREANOF IS ALEUTIAN IS						
		PNS	ePKP	22 27 32					
				7 32.5				133.6	
				3					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	7	USCGS MONA PASSAGE	23 54	35.9, 18.3N, 68.5W, H = 141 Km, M = 5.0				
		LPB	P	00 00 53		1.1	85	34.3
			ipP	01 13.6				
			PP	02 08				
			eS	06 20				
			eL	09.5				
		PNS	iP	00 01 11.8	C	0.9	61	
			PP	02 15				
			i	36.3				
			S	06 33				
		CCH	iP	00 01 21.9	C			
DEC	8	LPB	P	01 05 18.2		0.7	9	
		PNS	iP	01 05 21.4	D	0.6	4	3.9
			S	06 06.6				
DEC	8	USCGS WEST PAKISTAN	02 07	07.4, 29.3N, 69.9E, H = 37 Km, M = 5.1				
		PNS	ePKP	02 26 33.8				
		LPB	ePKP	02 26 34				139.2
			eL	03 13				
DEC	8	PNS	iP	05 22 12.0	D	0.5	4	2.6
			eS	43				
		LPB	P	05 22 16.5		0.6	5	
DEC	8	USCGS FIJI IS REG	06 21	34.4, 15.4S, 176.2W, H = 111 Km, M = 4.4				
		LPB	eP	06 35 13				102.0
			eL	07 09				
DEC	8	USCGS N COLOMBIA	09 56	46.5, 6.5N, 72.7W, H = 197 Km, M = 4.0				
		LPB	eP	10 01 36				23.4
			e	02 19				
			eL	07				
DEC	8	USCGS NEAR COAST OF ECUADOR	11 34	28.1, 1.5S, 80.6W, H = 88 Km, M = 4.5				
		PNS	eP	11 38 42		1.5	43	
			i	52.0				
			PP	39 03.4				
			eSS	42 43				
		CCH	eP	11 39 09.8				
DEC	8	USCGS YUGOSLAVIA	11 31	18.0, 42.2N, 18.9E, H = 24 Km, M = 5.0				
		PNS	eP	11 44 54				
				12 18				99.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	8	USCGS MOLUCCA SEA	12 33	09.5, 0.2S, 125.3E, H = 71 Km, M = 5.4				
		PNS	ePKP	12 53 03.5		1.4	29	
			pPKP	13				
			i (PKP2)	41				
		LPB	ePKP	12 53 05				157.3
			eL	13 47				
		CCH	ePKP	12 53 05.6				
DEC	8	USCGS HONSHU, JAPAN	14 05	49.8, 39.8N, 141.4E, H = 73 Km, M = 4.1				
		PNS	ePKP	14 25 23				
		LPB	eL	15 14				145.3
DEC	8	PNS	iP	15 07 07.2	D	0.4	6	3.1
			iS	43.6				
DEC	8	USCGS KOMANDORSKY IS REG	15 02	59.4, 56.1N, 164.7E, H = 33 Km, M = 4.8				
		PNS	ePKP	15 21 59				
			esPKP	22 09				
		LPB	eL	16 01				124
DEC	8	PNS	p	15 41 34.4				1.9
			s	57.6				
DEC	8	LPB	eP	18 09 53				
		PNS	iP	18 10 06.8	D	0.6	14	1.9
			iS	30.0				
DEC	9	PNS	iP	00 11 52.3	C	0.5	26	2.2
			iS	12 19.0				
		LPB	iP	00 11 55.5	C	0.9	100	2.6
			eS	12 27				
DEC	9	USCGS NEW HEBRIDES IS	01 07	08.4, 14.1S, 166.6E, H = 53 Km, M = 4.4				
		LPB	ePKP	01 25 41				118.8
			eL	02 03				
DEC	9	USCGS CHILE-ARGENTINA-BOR REG	02 01	51.1, 24.1S, 67.2W, H = 187 Km, M = 4.2				
		CCH	iP	02 03 28.7	D			
		LPB	iP	02 03 41.0	D	0.8	350	7.5
			eS	05 03				
		PNS	iP	02 03 44.7	D	0.8	160	
				05 06				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	9	PNS	iP	04 08 31.5	D	0.6	12	2.2	
			S	57.7					
		LPB	P	04 08 32.1		0.5	9	2.2	
			S	58.5					
DEC	9	USCGS	04 01 29.3, 26.2S, 178.0E, H = 688 Km, M = 4.5						
			S OF FIJI IS						
		LPB	eL	04 50				102.8	
DEC	9	PNS	iP	09 36 28.0	D	0.5	29	1.9	
			S	50.8					
		LPB	P	09 36 29.5		0.9	15		
			i	33.7					
DEC	9	LPB	eP	09 43 49		1.0	6		
DEC	9	USCGS	10 06 55.0, 14.5S, 70.7W, H = 218 Km, M = 4.8						
			PERU						
		PNS	iP	10 07 44.1	D				
			eS	08 20					
		LPB	iP	10 07 49.2	D			3.1	
			eS	08 28.5					
		CCH	iP	10 08 14.9	D				
DEC	9	PNS	eP	13 23 03				3.5	
			eS	44					
DEC	9	USCGS	13 32 32.1, 10.7S, 79.2W, H = 13 Km, M = 4.7						
			OFF CST OF PERU						
		PNS	eP	13 35 24					
			eS	37 36					
			eSS	38 02					
		LPB	P	13 35 33.0		0.9	15	12.1	
			pp	50.2					
			S	37 34					
DEC	9	PNS	iP	13 39 57.0	C			3.1	
			iS	40 32.8					
DEC	9	PNS	P	14 53 59.2		0.8	8	1.9	
			S	54 22.5					
DEC	9	PNS	eP	15 07 31.7				3.6	
			eS	08 14					
DEC	9	USCGS	14 54 43.3, 4.1S, 143.7E, H = 63 Km, M = 5.2						
			NEW GUINEA						

15 14 10. 142.3  
 16 02  
 15 14 17.4



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	9	USCGS NEAR IS ALEUTIAN IS	16 43	57.7, 51.7N, 174.6E, H = 21 Km, M = 5.2				
		PNS	ePKP	17 02 47				
		LPR	ePKP	17 02 50				119.7
DEC	9	USCGS NEAR IS ALEUTIAN IS	17 12	07.3, 51.6N, 174.5E, H = 17 Km, M = 4.7				
		LPR	ePKP	17 31 01				119.8
			eL	18 10				
DEC	9	PNS	P	18 50 27.7		0.5	2	2.6
			S	59.0				
DEC	10	USCGS COSTA RICA	01 09	38.7, 10.3N, 85.1W, H = 80 Km, M = 4.2				
		LPR	eP	01 15 40				31.5
			eL	24				
		PNS	eP	01 15 44				
			inP	53				
DEC	10	CCH	eP	02 00 16.4				
		LPR	ip	02 00 28.6		0.5	10	2.8
			is	01 01.7				
		PNS	ip	02 00 31.9	C	0.6	10	2.3
			is	01 09.0				
DEC	10	USCGS SAN JUAN PROV, ARGENTINA	02 47	43.6, 31.2S, 68.2W, H = 106 Km, M = 4.0				
		CCH	eP	02 50 58.0				
		LPR	P	02 51 08.3		0.7	9	14.4
			i	12				
		PNS	P	02 51 08.7				
			i	11.7				
DEC	10	PNS	P	08 47 15.7		0.6	4	2.0
			S	40				
DEC	10	LPR	eP	08 01 05				
		PNS	P	08 01 10.2				3.2
			eS	46				
DEC	10	LPR	P	08 31 21.0		1.2	23	53.0
			i	34.5				
			eS	38 45				
			L	48.9				
		PNS	eP	08 31 23.5		1.4	15	53.0
			i	37.9				
				38 48				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	10	PNS	eP	10 27 05				4.6	
			S	57.4					
		LPB	P	10 27 06		1.0	12		
DEC	10	USCGS	10 38 35.6, 24.2S, 67.9W, H = 91 Km, M = 5.4						
		CHILE-ARGENTINA BOR REG							
		CCH	iP	10 40 21.0	D				
		LPB	iP	10 40 28.8	C	0.9	293	7.6	
			i	54.2					
			i	41 05					
			iS	41 46					
		PNS	iP	10 40 32.4	C	1.1	196		
			S	41 48.3					
		CHA	iP	10 40 32.9	C				
DEC	10	USCGS	13 06 32.6, 14.3N, 92.0W, H = 70 Km.						
		GUATEMALA							
		PNS	iP	13 13 48.5	C	1.2	51		
			i	58.0					
			pP	14 03.3					
			pP	15 27					
			eS	19 41					
			G	25.4					
			L	25.4					
		LPB	P	13 13 51.5		1.1	37	36.8	
			pP	14 05.5					
			pP	15 30					
			iS	19 45					
			G	22.7					
			L	25.6					
		CCH	iP	13 14 06.6	C				
DEC	10	PNS	P	15 37 37.7		0.6	4		
			e	54					
		LPB	eP	15 37 43					
DEC	10	CCH	P	15 56 21.3	D				
		LPB	eP	15 56 25					
			i	47.5					
			i	57 03.4					
		PNE	P	15 56 28.6					
			i	48.2					
			i	57 04.4					
DEC	10	PNS	P	16 24 43.4		1.2	11		
			i	51.8					
DEC	10	USCGS	17 08 32.2, 41.0N, 33.5E, H = 13 Km, M = 4.9						
		TURKEY							
		LPB	eL	18 01				109.8	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	10	USCGS	18 08 14.4, 3.6S, 145.4E, H = 33 Km, M = 5.7						
		NR N COAST OF NEW GUINEA							
		CCH	ePKP	18 27 37.8					
		LPB	PKP	18 27 40.6		1.8	102	140.8	
			i	45.3					
			pPKP	57.6					
			ePP	30 50					
			ePKS	31 16					
			L	19 14.7					
		PNS	PKP	18 27 41.0	C				
			i	45.3					
			pPKP	57.6					
			ePP	30 50					
			ePKS	31 16					
			L	19 14.7					
DEC	10	LPB	P	19 28 44		0.7	8		
			i	29 06					
		PNS	eP	19 29 08.4					
DEC	10	LPB	P	19 34 45		0.8	18		
		PNS	P	19 34 45.4	D	0.7	8		
DEC	10	PNS	P	20 24 30		1.0	8		
			i(Pg)	34.4					
			i	41.0					
			S	25 31					
		LPB	P	20 24 31.5		0.8	11	5.1	
			i(Pg)	36					
			i	42.5					
			S	25 31					
		CHA	P	20 24 36.7	C				
		CCH	eP	20 24 37.8					
			i	46.3					
DEC	10	LPB	P	21 20 43					
			i	21 24.5					
			L	38.2					
		PNS	P	21 20 46		2.0	67		
			i	21 02.0					
			eL	38.3					
DEC	10	PNS	eP	21 22 34				4.1	
			S	23 21.8					
DEC	10	LPB	eP	23 23 42					
		PNS	eP	22 24 14				5.9	
			S	25 21					
DEC	11	LPB	eP	00 43 23				4.5	
			i	48.5					
			S	4 17.2					
				43 50.0	D				

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	11	LPB	P	01 22 07.5		0.9	8		
DEC	11	LPB	iP	02 45 11		0.6	7		
			i	34.5					
		PNS	eP	02 45 16					
			i	34.0					
DEC	11	USCGS	06 59 26.4, 13.9N, 92.1W, H = 9 Km, M = 4.5						
		OFF COAST OF CHIAPAS, MEXICO							
		LPB	eP	07 06 41				38.5	
			eL	18					
		PNS	P	07 06 48.4					
			i(pP)	56.2					
DEC	11	LPB	eP	09 24 05					
		PNS	P	09 24 06.8				1.9	
			iS	29.4					
DEC	11	PNS	P	09 51 41.6		0.9	6		
		LPB	P	09 51 44.5		1.1	21		
DEC	11	PNS	P	09 51 41.6		0.9	6		
		LPB	P	09 51 44.5		1.1	21		
DEC	11	LPB	P	14 57 43.8		0.8	11		
		PNS	iP	14 57 45.6	C	0.8	15		
DEC	11	CCH	eP	16 01 07.6					
		LPB	iP	16 01 34		1.0	40	4.6	
			S	02 27.5					
		PNS	eP	16 01 36					
DEC	11	CCH	eP	16 40 22.7					
		LPB	iP	16 40 41.2		1.1	5	6.5	
			S	41 55.5					
		PNS	iP	16 40 45.1	C	0.5	19	6.8	
			S	42 02.7					
DEC	11	USCGS	17 21 57.0, 10.4N, 84.1W, H = 85 Km, M = 4.2						
		COSTA RICA							
		PNS	iP	17 28 05.2	C	0.6	5		
		LPB	P	17 28 08.5		1.0	14	31	
		CCH	eP	17 28 22.6					
DEC	11	USCGS	17 34 52.9, 11.7S, 166.5E, H = 16 Km, M = 4.8						
		SANTA CRUZ IS							
		LPB	ePKP	17 43 44				119.2	
				18 31					

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	11	USCGS NEW HEBRIDES IS	17 57	18.7, 15.0S, 167.4E,	H = 116 Km, M = 5.0			
		PNS	ePKP	18 15 40				
			eL	18 49				
		LPB	eL	18 49				110.6
DEC	11	USCGS HOKKAIDO, JAPAN REG	19 47	34.2, 42.9N, 144.6E,	H = 57 Km, M = 4.8			
		PNS	ePKP	20 06 57				
		LPB	ePKP	20 06 58				
			eL	55				141.6
DEC	11	USCGS MARIANA IS	19 52	09.4, 13.4N, 145.8E,	H = 59 Km, M = 5.4			
		PNS	PKP	20 11 48.1		1.1	48	
		LPB	PKP	20 11 49.0	D	1.1	50	
			PKP2	53.3				147.1
			eL	21 03				
		CCH	PKP	20 11 51.2				
DEC	11	USCGS ANDREANOF IS ALEUTIAN IS	20 01	03.5, 52.9N, 176.1W,	H = 216 Km, M = 5.2			
		LPB	PKP	20 19 17				
			eL	54				113.5
DEC	11	USCGS MARIANA IS	20 08	22.3, 13.4N, 146.0E,	H = 50 Km, M = 5.6			
		PNS	PKP	20 28 02.5		1.7	139	
		CCH	ePKP	20 28 04.4				
		LPB	PKP	20 28 04.5		1.6	128	
			PKS	31 43.5				147.1
			eSS	50 10				
			eL	21 19				
DEC	11	USCGS MARIANA IS	20 53	40.0, 13.2N, 145.4E,	H = 1000Km, M = 4.4			
		LPB	ePKP	21 13 06				
			eL	22 03				147.2
		PNS	ePKP	21 13 06.4				
			e(PKP)	19.3				
DEC	12	USCGS LA RIOJA PROV, ARGENTINA	02 30	30.1, 28.4S, 67.9W,	H = 125 Km, M = 4.2			
		LPB	eP	02 33 16.0				
			eL	36				12.1
		PNS	eP	02 33 19				

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL.	DISP.
DEC	12	LPB	P	02 44 24.0		0.6	3	
		PNS	P	02 44 27.7		0.5	4	
DEC	12	LPB	P	04 36 42.5		0.9	3	2.4
			S	37 11.4				
		PNS	iP	04 36 42.8	C	0.5	4	2.5
			S	37 12.6				
DEC	12	PNS	iP	05 05 29.5	D	0.5	11	1.7
			S	51				
		LPB	eP	05 05 31.3		0.6	5	
DEC	12	USCGS 09 20 35.5, 33.6N, 139.6E, H = 152 Km, M = 3.7 S OF HONSHU, JAPAN						
		PNS	ePKP	09 40 67.7				
		LPB	ePKP	09 40 08				
DEC	12	PNS	P	10 15 31.4		0.8	6	
		LPB	eP	10 15 31.5				
DEC	12	PNS	eP	11 02 09				
		LPB	eP	11 02 13		0.5	5	
DEC	12	LPB	P	12 09 17		1.2	21	
		PNS	P	12 09 20.3		1.3	19	
DEC	12	USCGS 12 35 29.2, 14.4N, 91.1W, H = 33 Km, M = 4.0 GUATEMALA						
		PNS	eP	12 42 48.8				
		LPB	eL	13 03				37.4
DEC	12	USCGS 13 52 37.2, 14.5N, 93.0W, H = 33 Km, M = 3.8 NR COAST OP CHIAPAS, MEXICO						
		LPB	eL	14 11				39.5
DEC	12	LPB	eP	15 28 19.2				
		PNS	eP	15 28 25.8				
			eS	54.7				2.4
DEC	12	PNS	P	16 53 25		1.0	11	
		LPB	eP	16 53 25.2				
DEC	12	USCGS 17 27 16.4, 29.9N, 132.2E, H = 46 Km, M = 4.6 S OF SHIKOKU, JAPAN						

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18 4

157.0

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PEP	AMPL	DIST	
DEC	12	USCGS	18 00 53.9, 12.6N, 146.0E, H = 33 Km, M = 4.5						
		S OF MARIANA IS							
		PNS	ePKP	18 20 33.7					
		LPB	ePKP	18 20 36				146.7	
DEC	12	PNS	P	02 15 36.4				1.8	
		LPB	eP	22 15 40					
DEC	12	PNS	P	23 07 10		0.8	5		
		LPB	eP	23 07 12.1					
DEC	13	LPB	eP	02 04 04.5					
		PNS	eP	02 04 05		0.4	5	3.6	
			S	46.7					
DEC	13	PNS	P	02 12 12.2		0.7	8	1.9	
			S	35.2					
DEC	13	LPB	eP	03 03 28.5					
		PNS	eP	03 03 31					
			i	47.6					
DEC	13	USCGS	07 03 08.0, 52.4N, 170.6W, H = 40 Km, M = 4.3						
		FOX IS ALFUTIAN IS							
		LPB	ePKP	07 21 29				110.3	
		PNS	ePKP	07 21 30.6					
DEC	13	USCGS	09 53 32.3, 14.1N, 92.1W, H = 55 Km, M = 4.4						
		NR OF CHIAPAN, MEXICO							
		LPB	eP	10 00 46				36.7	
				10 00 41		1.0	7		
DEC	13	USCGS	10 10 10.9, 14.9S, 166.7E, H = 10 Km, M = 4.7						
		NR OF CHIAPAN, MEXICO							
		LPB	eP	10 10 41					
		LPB	eP	10 10 50					
			eP	05					
DEC	13	USCGS	10 10 06.6, 5.1S, 129.7E, H = 41 Km, M = 4.0						
		BANDA SEA							
		LPB	ePKP	10 20 43				152.0	
		LPB	eP	11 22					
				30 02.0	C	1.5	114		

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	13	USCGS PERU		10 59 05.5, 12.4S, 75.1W, H = 21 Km, M = 4.3				
		PNS	eP i S eL	11 00 57.2 01 20.5 02 21 03.2		0.6	2	
		LPB	eP eL	11 00 58 03				7.6
DEC	13	LPB PNS	eP eP	12 26 25.3 12 26 31.6		1.0	6	
DEC	13	USCGS AFGHANISTAN-USSR BOR REG		12 21 07.3, 37.3N, 71.9E, H = 126 Km, M = 5.3				
		PNS	ePKP	12 40 15.8				
		LPB	ePKP eL	12 40 16 13 27				139.0
DEC	13	PNS LPB	P iS eP	13 32 23.8 45.6 13 32 24		0.6	4	1.8
DEC	13	LPB PNS	P P S	13 53 40.0 13 53 42.4 55 03.6		0.9	17	7.2
DEC	13	LPB PNS	eP P S	21 20 28.2 21 20 34.0 21 07		1.0	14	2.8
DEC	13	LPB PNS	P i eS P S	22 16 47 48.2 17 31.5 22 16 49.7 17 30		0.8	42	3.8
						0.8	21	3.4
DEC	14	PNS LPB	eP eP	01 36 44.5 01 36 46		1.2	10	
DEC	14	USCGS OFF COAST OF COSTA RICA		01 33 13.2, 10.6N, 86.8W, H = 33 Km, M = 4.3				
		PNS	eP pP	01 39 42.7 51		1.0	10	
		LPB	eP eL	01 29 45 50				32.8
DEC	14	LPB	P	01 43 19.5 01 43 22.0		0.6 0.8	4 5	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	14	PNS	eP	02 51 44				5.2	
			S	52 44					
		LPB	eP	02 51 48					
DEC	14	USCGS	03 44 01.9, 52.9N, 177.6W, H = 243 Km, M = 5.3 ANDREANOF IS, ALEUTIAN IS						
		PNS	ePKP	04 02 12					
		LPB	ePKP	04 02 14				116.0	
			eL	38					
DEC	14	PNS	iP	05 02 48.6	C	0.8	6		
		LPB	eP	05 02 49					
DEC	14	USCGS	05 39 23.1, 14.0S, 70.7W, H = 44 Km, M = 4.1 PERU						
		PNS	iP	05 40 13.0	D				
			iS	43.0					
		LPB	iP	05 40 17.5	D	0.6	4	3.5	
			i	21.2					
			S	51.5					
		CCH	P	05 40 33.7	D				
DEC	14	USCGS	06 42 24.3, 11.0N, 43.1W, H = 33 Km, M = 4.7 N ATLANTIC RIDGE						
		CCH	P	06 49 18.7	C				
			i	32.9					
		LPB	P	06 49 32.0	C	1.1	37	37.7	
			pP	40.5					
			S	55 13					
			L	59.9					
		PNS	iP	06 49 32.7	C	1.0	39		
			pP	41.0					
			i(Pp)	50 56.2					
			eL	59.9					
DEC	14	USCGS	06 52 34.1, 14.3N, 92.4W, H = 26 Km, M = 4.4 NR COAST OF CHIAPAS, MEXICO						
		PNS	p	06 59 53.3	C	1.4	15		
			eL	07 11.2					
DEC	14	LPB	eP	07 39 48.6					
		PNS	eP	07 39 52.8					
			e	40 46.6					
DEC	14	CCH	P	08 24 54.8	C				
		LPB	iP	08 25 13.4	C	0.8	6	4.5	
			eS	26 05					
		PNS	iP	08 25 17.0	C			4.7	
				26 11.2					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	14	USCGS PERU		08 39 44.1, 12.6S, 75.0W, H = 88 Km, M = 4.4				
		CCH	P	08 40 55.0	C			
		PNS	iP	08 41 31.3	C			
			S	42 45.7				
			eL	43				
		LPB	P	08 41 36.5	C	1.0	12	7.6
			pg	42 09				
			eS	42 50.5				
DEC	14	USCGS HONSHU, JAPAN		11 04 25.3, 36.2N, 139.6E, H = 72 Km, M = 4.6				
		CCH	PKP	11 24 03.3	D			
		LPB	PKP	11 24 05		1.0	12	148.5
			eL	12 14				
		PNS	PKP	11 24 06.0		1.2	20	
DEC	14	USCGS KERMADEC IS		11 16 07.6, 27.4S, 179.0W, H = 296 Km, M = 4.5				
		PNS	eP	11 29 14.4				
		LPB	eP	11 29 15				99.9
			eL	12 03				
DEC	14	PNS	P	14 28 44.6		0.8	6	
			i	29 04.2				
		LPB	eP	14 28 47.4		0.7	6	
DEC	14	USCGS RUMANIA		14 49 59.8, 45.6N, 26.4E, H = 158 Km, M = 4.8				
		LPB	eP	15 03 34				104.4
			eL	39.8				
		PNS	eL	15 39.7				
DEC	14	PNS	P	15 11 11.0		0.7	7	4.3
			S	12 01.4				
		LPB	eP	15 11 12.5				4.3
			S	12 03				
DEC	14	PNS	eP	16 49 25		0.5	3	2.6
			eS	55.6				
DEC	14	USCGS BANDA SEA		19 28 36.5, 7.0S, 129.5E, H = 110 Km, M = 4.8				
		PNS	PKP	19 48 20.0		0.8	15	
			ppKP	44.4				
			i	57.5				
		LPB	PKP	19 48 20.5		1.0	24	150.7
			eL	20 39				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	14	PNS	iP iS	20 27 43.4 28 06	D	0.7	39	1.9
		LPB	P	20 27 45.7		0.7	26	
DEC	14	USCGS NEW GUINEA	21 07	52.1, 4.8S, 143.9E, H = 74 Km, M = 6.0				
		PNS	iPKP iPP PKS eSKS eL	21 27 13.5 30 11.0 48.4 34 13 22 14.3	D	1.1	69	
		LPB	PKP pPKP PP ePKS PS eSS L	21 27 14 27.8 30 18 30 51 40 35 48 58 22 14.5	D	1.1	71	141.5
DEC	14	CCH LPB PNS	eP eP eP	23 05 15.9 23 05 22.3 23 05 22.6			11 9	
						0.8 1.0		
DEC	15	LPB	P S	00 04 22.9 04 52.5	D	0.5	10	2.5
		PNS	iP S	00 04 26.4 51	D			2.1
DEC	15	LPB PNS	eP iP	01 02 54 01 03 00.7	C	1.0	8	
DEC	15	PNS LPB	eP eS eP	01 57 50 58 40 01 57 53.5				4.3
DEC	15	USCGS BURMA	02 08	03.0, 21.7N, 94.5E, H = 81 Km, M = 5.7				
		CCH LPB	PKP PKP	02 27 57.3 02 27 59.0	D	1.1	83	162.9
			PKP2 ePP eL	28 47.6 32 34.5 03 25				
		PNS	PKP i PKP2 PP eL	02 28 00.0 27.0 48.9 32 36 03 25		1.7	200	
DEC	15	CCH LPB	eP eP	02 30 50.0 02 30 55.4 30 58.0		0.4 0.3	11 3	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	15	USCGS NR S CST OF HONSHU, JAPAN		03 21 46.3, 33.2N, 137.8E, H = 340 Km, M = 4.1				
		LPB	ePKP	03 40 47				151.1
		PNS	e(PKP)	03 40 53				
			i	41 01.8				
DEC	15	PNS	P	07 02 40.3	C.	0.7	4	
		LPB	P	07 02 43.7				
DEC	15	USCGS E NEW GUINEA REG		09 26 52.6, 5.8S, 147.2E, H = 91 Km, M = 5.0				
		LPB	ePKP	09 46 01				138.3
		PNS	PKP	09 46 02		1.0	7	
			i	07.0				
DEC	15	USCGS E NEW GUINEA REGION		14 32 20.7, 5.5S, 147.4E, H = 179 Km, M = 5.0				
		PNS	PKP	14 51 17.6		0.7	3	
		LPB	ePKP	14 51 18				138.4
DEC	15	PNS	P	14 54 47.6		0.7	9	
DEC	15	USCGS N COLOMBIA		16 36 14.9, 6.4N, 72.7W, H = 195 Km, M = 4.2				
		LPB	eP	16 41 13		1.0	8	23.0
			eL	48				
DEC	15	LPB	eP	20 27 40.6				3.1
			S	28 18.0				
		CHA	P	20 27 42.2	C			
		PNS	P	20 27 46		0.7	13	3.2
			S	28 23.6				
DEC	15	CHA	iP	22 48 19.5	C			
		LPB	P	22 48 19.5		0.9	52	
		PNS	iP	22 48 23.1	C	0.4	24	
			e(S)	49 16.6				
DEC	16	USCGS N EASTER IS CORDILLERA		01 02 27.8, 8.6S, 108.5W, H = 33 Km, M = 4.3				
		PNS	eP	01 10 00.8		0.9	7	
		LPB	eP	01 10 02.5				
		CCH	eP	01 10 19.0				
DEC	16	PNS	iP	01 14 31.4	C	0.7	6	
		LPB	eP	01 14 34				
				21.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	16	PNS LPB CCH	eP eP eP	01 16 32.7 01 16 33.2 01 16 51.2		0.8	5	
DEC	16	LPB PNS	eP P	01 44 43 01 44 43.8				
DEC	16	PNS LPB	eP eS eP	02 05 00.6 23 02 05 01.0				1.8
DEC	16	LPB PNS	eP P eS	02 08 23 02 08 25.8 47.4				1.8
DEC	16	PNS	eP	02 48 40				
DEC	16	CCH LPB PNS	eP P eS eL P i eS eL	02 51 31.3 02 51 46.0 59 36 03 08 02 51 47.8 56.4 59 34.5 03 08		1.3 1.3	22 28	57.0 56.5
DEC	16	LPB PNS	eP eP	03 13 46 03 13 49				
DEC	16	PNS	P S	04 58 20.4 42.4		0.9	9	1.8
DEC	16	PNS LPB	iP S eP	07 34 18.9 41.4 07 34 21	C	0.4	6	1.8
DEC	16	USCGS NR CST OF PERU PNS SMP LPB CCH	iP eS iP P eP	09 01 27.8, 16.3S, 72.5W, H = 191 Km, 09 02 28.6 03 13 09 02 32.1 09 02 34.0 09 03 00.3	C D	0.8	25	3.1
DEC	16	LPB PNS CCH	P S iP iS eP	10 10 57.6 11 33.3 10 10 59.2 11 35.5 10 11 05.5	C C	7.4	42	3.1 3.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	16	USCGS BANDA SEA	10 06	06.3, 7.2S, 129.4E, H = 118 Km, M = 4.8				
		PNS	PKP	10 25 42.4				
			i	53.2				
		LPB	ePKP	10 25 46				150.5
			eL	11 18				
DEC	16	PNS	eP	11 23 54.5				3.0
			S	24 29.7				
		LPB	eP	11 23 57.5				
DEC	16	LPB	P	11 38 27.5		0.6	10	3.1
			S	39 04				
		PNS	iP	11 38 27.9	C	0.3	7	3.1
			S	39 04				
DEC	16	USCGS NEW HEBRIDES IS	12 50	44.7, 19.5S, 169.0E, H = 70 Km, M = 4.2				
		LPB	eL	13 44				113.3
DEC	16	LPB	eP	20 01 59				
		PNS	P	20 02 01				3.9
			iS	45.6				
DEC	16	LPB	eP	21 05 28				
		PNS	P	21 05 29.4		0.8	9	
DEC	16	USCGS NEPAL	20 52	13.5, 29.6N, 81.0E, H = 9 Km, M = 5.9				
		CCH	ePKP	21 11 59.5				
		PNS	PKP	21 12 02		1.1	21	
			PKS	15 22.0				
			PP	38.8				
			eL	22 01.9				
		LPB	PKP	21 12 02.4		1.6	520	148.9
			PKS	15 21.7				
			PP	15 38.5				
			ePS	25 38				
			eSS	34 40				
			eL	22 02				
DEC	16	USCGS NEPAL-INDIA BOR REG	22 12	49.2, 29.7N, 81.0E, H = 5 Km, M = 5.4				
		LPB	ePKP	22 32 25				148.6
			eL	23 22				
		PNS	e(PKP)	22 32 33				
			pPKP	44				
DEC	17	USCGS S OF PANAMA	00 59	29.7, 5.3N, 82.1W, H = 41 Km, M = 4.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	17	PNS	iP	01 08 38.4	D			1.9
			iS	09 01.4				
		CHA	iP	01 08 40.8	C			2.2
			S	09 06.4				
LPB	P	01 08 41.5	S	0.4	13	2.2		
	S	09 07.7						
DEC	17	PNS	iP	01 33 00.1	D	0.6	22	16.4
		LPB	P	01 33 02.5				
DEC	17	PNS	eP	01 50 50.6				
		LPB	eP	01 50 51.5				
DEC	17	USCGS 03 30 43.4, 5.2N, 77.1W, H = 82 Km, M = 3.9 NR W CST OF COLOMBIA						
		PNS	eP	03 35 41.6			22.9	
		LPB	eP	03 35 45				
		eL	42					
DEC	17	LPB	eP	03 52 13.5				
		PNS	eP	03 52 14				
DEC	17	LPB	eP	04 28 16				
			iS	19.7				
		PNS	eP	04 28 24				
DEC	17	PNS	P	05 42 39.8		0.6	4	2.0
			S	43 03.8				
		LPB	P	05 42 40.0				
DEC	17	LPB	eP	05 55 02				
		PNS	eP	05 55 14.9				
DEC	17	USCGS 05 59 10.2, 70.7N, 14.0W, H = 27 Km, M = 5.0 JAN MAYEN IS REG						
		LPB	eP	06 12 24			94.0	
			eL	44				
		PNS	eP	06 12 24.8				
DEC	17	USCGS 06 33 43.3, 12.2N, 140.5E, H = 33 Km, M = 4.6 WEST CAROLINE IS						
		PNS	iPKP	06 53 38.0	C	0.9	9	151.7
		LPB	PKP	06 53 38.5				
DEC	17	CHA	P	06 54 27.9	D			1.4
			iS	46.0				
		PNS	P	06 54 35.0			1.7	
				56.0				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	17	USCGS W CAROLINE IS	06 35	21.7, 12.2N, 140.8E, H = 33 Km, M = 4.5				
		LPB	PKP	06 55 01				151.5
		PNS	PKP	06 55 09.3		0.7	6	
			i	15.9				
			PKP2	24.5				
DEC	17	LPB	eP	08 06 21		1.0	16	
		PNS	eP	08 05 59				
			i	06 21.9				
DEC	17	PNS	eP	09 15 58				
			i	17 59.7				
			e(S)	18 57.3				
			eL	20.6				
		LPB	eP	09 15 59.5				
DEC	17	PNS	P	09 21 19.2		0.6	13	
			e(S)	25 52				
			i	28 28.4				
		LPB	P	09 21 24.5		0.8	14	
DEC	17	USCGS S OF PANAMA	12 33	18.7, 5.9N, 82.1W, H = 9 Km, M = 4.3				
		LPB	eP	12 38 51				25.7
			eL	45				
		PNS	P	12 38 58.4		1.3	12	
			eL	45				
DEC	17	PNS	P	13 48 28.2		0.8	5	
			i	19 00.5				
			e(S)	50 48				
DEC	17	USCGS OFF COAST OF N CALIFORNIA	15 16	30.5, 40.3N, 125.7W, H = 33 Km, M = 4.6				
		LPB	eP	15 28 21				77.5
			eL	53				
DEC	17	USCGS N CHILE	17 41	20.4, 22.8S, 68.9W, H = 105 Km, M = 5.1				
		LPB	P	17 42 51.7	C	1.1	138	6.3
			i(pP)	56.2				
			eS	44 03				
		PNS	iP	17 42 51.7		1.0	81	
			e(S)	44 02				
		CHA	iP	17 42 54.6	C			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	17	LPB PNS	eP iP S	18 06 56 18 06 59.0 07 21.7	D	1.5	24	1.9
DEC	17	USCGS NR E COAST OF HONSHU, JAPAN		18 45 49.9, 37.1N, 141.2E, H = 88 Km, M = 4.2				
		PNS LPB	iPKP PKP	19 05 24.0 19 05 25.4	C	1.2 0.8	12 10	
DEC	17	LPB PNS	P iP	21 18 35 21 18 38.8	C C	0.6 0.5	11 17	
DEC	17	PNS CHA	iP S iP	22 34 18.6 43 22 34 21.9	C  D	0.4	14	2.0
DEC	18	USCGS EKAZAKH SSR		04 57 57.8, 49.9N, 77.7E, M = 5.9				
		LPB	PKP	05 17 24		0.8	11	136.8
DEC	18	USCGS W CAROLINE IS		06 23 48.1, 11.9N, 140.4E, H = 33 Km, M = 4.9				
		LPB	ePKP	06 43 34.5				142.6
DEC	18	USCGS DODECANESE IS		07 42 18.8, 35.1N, 27.1E, H = 33 Km, M = 4.7				
		LPB	eL	08 31				103.1
DEC	18	USCGS SOLOMON IS		09 48 22.9, 10.5S, 161.4E, H = 50 Km, M = 5.3				
		LPB	ePKP eL	10 07 12 47				123.9
DEC	18	USCGS CHILE-BOLIVIA BOR REG		10 22 30.8, 21.6S, 68.4W, H = 120 Km, M = 4.2				
		LPB CHA	P i eS P	10 23 47.5 24 11.0 24 43 10 23 54.0		1.0	26	4.9
DEC	18	LPB	P	11 35 11.8		0.5	10	



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	18	LPB	P	18 51 34		0.5	13	
		PNS	P	18 51 38.0		0.4	13	7.6
			eS	53 04				
		CHA	P	18 51 40.4	D			
DEC	18	PNS	P	19 12 23.9		0.4	3	1.9
			S	46.4				
DEC	18	USCGS	22 42 38.3, 29.6N, 81.0E, P = 25 Km, M = 5.0 NEPAL-INDIA BOR REG					
		PNS	PKP	23 02 24.6		1.0	10	
		LPB	ePKP	23 02 26				148.5
			eL	52				
DEC	18	USCGS	23 06 35.6, 27.4S, 71.3W, H = 12 Km, M = 4.6 NR COAST OF N CHILE					
		LPB	P	28 09 18		1.0	14	11.7
			eS	11 35				
		PNS	P	23 09 20.0		1.2	17	
			PPP	40.4				
			S	11 33				
			eSSS	12 01				
			eL	12.6				
		CHA	P	23 09 24.0	D			
DEC	18	PNS	P	23 28 04.0		0.4	5	
		LPB	eP	23 28 05				
DEC	18	LPB	eP	23 51 20				
		PNS	P	23 51 20.8				
DEC	18	USCGS	23 59 30.8, 10.8S, 79.0W, H = 19 Km, M = 4.7 NEAR COAST OF PERU					
		PNS	eP	00 02 18.4				
			i	28.2				
			iS	04 31				
			L	05				
		LPB	eP	00 02 20				11.7
			eS	04 32				
		CHA	eP	00 02 22.9				
DEC	19	USCGS	02 10 31.7, 16.0S, 71.8W, H = 118 Km, M = 4.8 S PERU					
		PNS	iP	02 11 23.7	C			
			eS	12 02				
		LPB	iP	02 11 27.6	C			3.5
			S	12 06				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	19	LPB	eP	03 06 04				4.0	
			S	06 48					
		PNS	P	03 06 04.4		0.8	7	4.4	
			S	55					
DEC	19	USCGS	04 23 27.8, 5.3S, 102.4E, H = 33 Km, M = 4.4						
			S SUMATRA						
		PNS	ePKP	04 43 12.4					
		LPB	ePKP	04 43 20				156.4	
DEC	19	PNS	iP	06 13 03.7	D	0.5	19	2.2	
			iS	29.7					
		LPB	P	06 13 06		0.5	5	2.4	
			S	35					
DEC	19	LPB	P	06 44 47.5		0.8	14		
		PNS	P	06 44 50.8		0.9	14		
DEC	19	USCGS	08 32 11.6, 25.9N, 140.9E, H = 203 Km, M = 3.8						
			VOLCANO IS REG						
		PNS	ePKP	08 51 34				151.0	
			e	41.6					
DEC	19	LPB	eP	10 28 26					
		PNS	eP	10 28 27.6					
DEC	19	LPB	eP	12 56 46					
		PNS	P	12 56 49.5		0.8	11		
DEC	19	LPB	eP	15 38 24					
		PNS	eP	15 38 26.5		0.5	3	3.6	
			S	39 08.5					
DEC	19	PNS	P	15 42 41.9		0.9	10		
			i	43 01.3					
		LPB	eP	15 42 42.5					
DEC	19	LPB	eP	16 03 31.5					
		PNS	P	16 03 32.5		1.0	19		
DEC	19	LPB	eP	18 04 25.5		0.5			
		PNS	P	18 04 27.8		0.8	8		
DEC	19	LPB	P	18 58 37.4					
		PNS	iP	18 58 38.2	D	0.4	14	2.3	
			S	59 05.4					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	19	PNS	eP	20 56 14				2.2	
			S	39.8					
		LPB	eP	20 56 15				2.2	
			S	41.4					
DEC	19	LPB	P	00 18 00.1	D	0.5	8		
		PNS	iP	00 18 03.3	D	0.8	11	4.3	
			S	53.6					
DEC	20	USCGS ALASKA	00 26 27.8, 66.7N, 148.7W, H = 33 Km, M = 4.8						
		LPB	eL	01 14				101.5	
DEC	20	USCGS ALASKA	00 57 53.1, 66.7N, 148.7W, H = 33 Km, M = 4.9						
		LPB	eP	01 11 42				101.5	
			eL	46					
DEC	20	USCGS	02 27 03.4, 18.7N, 106.5W, H = 33 Km, M = 4.4						
		OFF CST OF JALISCO, MEXICO							
		PNS	P	02 36 06		1.9	66		
			pP	13.7					
			PP	38 08					
		LPB	eP	02 36 08.5				51.0	
			pP	09.5					
			eS	43 32					
			eL	52					
DEC	20	LPB	eP	03 00 17		0.9	6		
		PNS	P	03 00 20		0.9	11		
DEC	20	LPB	P	05 15 21.5		0.8	3		
			i	27.5					
DEC	20	PNS	iP	05 50 16.4	C	0.4	4	2.0	
			iS	41.0					
		LPB	P	05 50 18		0.6	4	1.9	
			S	41.5					
DEC	20	LPB	P	06 09 49.2		0.4	15	2.1	
			S	10 14					
		CHA	iP	06 09 49.3	D				
		PNS	iP	06 09 57.0		0.5	11	2.4	
			S	10 26					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	20	USCGS	07 55 38.6, 18.8N, 106.3W, H = 33 Km, M = 4.6 OFF COAST OF JALISCO, MEXICO						
		PNS	P	08 04 40.0		1.7	64		
			ipP	50.4					
			eL	19.4					
		LPB	eP	08 04 42				51.2	
			i	45.5					
			S	11 05					
			L	19.4					
DEC	20	LPB	eP	09 29 15					
		PNS	P	09 29 16.4		0.5	3		
DEC	20	USCGS	12 26 55.0, 26.1S, 63.2W, H = 589 Km, M = 5.7 SANTIAGO DELESTERO PROV, ARGENTINA						
		CHA	iP	12 29 18.1	D				
		LPB	iP	12 29 20.0	D	0.6	253	10.4	
			S	31 17					
		PNS	iP	12 29 23.1	D				
			eS	31 19					
			L	31.5					
DEC	20	LPB	eP	12 37 01.3		1.0	48	10.6	
			eS	39 00					
		PNS	P	12 37 04.0	D			10.7	
			eS	39 04					
DEC	20	LPB	P	12 40 36.4		1.3	14		
		PNS	iP	12 40 40.0	C	4.0	163	9.9	
			eS	42 32					
DEC	20	USCGS	12 24 14.7, 2.9S, 129.8E, H = 59 Km, M = 5.1 CERAM						
		LPB	ePKP	12 44 04				154.0	
			eL	13 37					
		PNS	iPKP	12 44 04.0		2.0	122		
			ipPKP	14.0					
			PKP2	31					
DEC	20	PNS	P	12 56 15.0	C	1.0	25		
		LPB	eP	12 56 15.4		1.2	54		
DEC	20	LPB	eP	13 04 34					
		PNS	eP	13 04 36.0					
			i	05 16.0					
			i	06 12.8					
DEC	20	LPB	eP	13 12 35		1.0	18		
		PNS	P	13 12 39.1		1.0	14		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	20	USCGS	13 07	47.2, 25.5N, 142.7E, H = 33 Km, M = 5.0				
		VOLCANO IS REG						
		PNS	PKP	13 27 32.9		1.0	7	
			i	36.6				
		LPB	ePKP	13 27 34				150.3
			i	38.8				
			ePKP2	47.3				
			eSS	49 35				
			eL	14 19				
DEC	20	LPB	P	14 27 51				
		PNS	iP	14 27 53.0	D	0.4	5	2.1
			S	28 18.2				
DEC	20	<del>CHA</del>	<del>P</del>	<del>15 41 10.4</del>	<del>D</del>			
		<del>PNS</del>	<del>iP</del>	<del>15 41 13.0</del>	<del>C</del>	0.6	38	
			<del>i</del>	<del>31.8</del>				
		LPB	iP	15 41 15.8		0.7	192	
		CCH	iP	15 41 25.9	C			
DEC	20	PNS	iP	16 09 14.8		1.7	106	
		LPB	P	16 09 15.5				
DEC	20	USCGS	16 20	05.8, 7.2S, 126.1E, H = 441 Km, M = 5.4				
		BANDA SEA						
		LPB	PKP	16 39 06				152.4
			i	15.4				
			PKP2	27.7				
			pPKP	41 09.2				
			eL	31				
		PNS	PKP	16 39 08.0	C	2.0	92	
			i	15.6				
			iPKP2	28.1				
			PPKP	41 10.0				
			pP	43 01.3				
		CCH	PKP	16 39 14.8	C			
DEC	20	LPB	P	17 22 43		1.3	28	
		PNS	P	17 22 45.6		0.8	8	
DEC	20	PNS	P	17 33 06.2		1.5	53	
			i	46				
			eL	41				
		LPB	eP	17 33 06.5		1.3	19	
DEC	20	USCGS	18 39	40.3, 14.3N, 122.1E, H = 37 Km, M = 5.4				
		LUZON, PHILIPPINE IS						
		PNS	PKP	18 59 48.5				
			i	56.0				
			pPKP	19 00 01.0				
			i	01 10.0				
			mn	04 57.9				
				59 50.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
			e	56					
			pPKP	19 00 01.7					
			i	01 12					
			PKS	03 21					
			PP	04 57.5					
			L	59					
DEC	20	LPB	P	21 22 10.5					
		PNS	P	21 22 11.6		1.5	57		
DEC	20	USCGS	21 50	54.8, 25.5N, 142.6E, H = 20 Km, M = 4.8					
		VOLCANO IS REG							
		LPB	ePKP	22 10 40				149.6	
			eL	23 01					
		PNS	iPKP	22 10 46.2	D	1.0	10		
			pPKP	55.6					
DEC	20	USCGS	22 44	56.5, 55.4N, 155.0W, H = 33 Km, M = 4.2					
		S OF ALASKA							
		LPB	eL	23 33				101.8	
DEC	20	LPB	P	03 59 37.2		1.0	42	3.2	
			S	00 00 14.5					
		PNS	iP	23 59 39.0	C	0.4	15	2.8	
			eS	00 00 12					
DEC	20	USCGS	23 52	25.3, 33.9N, 140.1E, H = 108 Km, M = 4.2					
		S OF HONSHU, JAPAN							
		LPB	PKP	00 12 01.8				149.4	
		PNS	PKP	00 12 02.8		0.7	4		
DEC	21	PNS	P	00 30 31.2		0.2	4	2.3	
			S	59					
		LPB	eP	00 30 32.2					
DEC	21	LPB	eP	00 47 14					
		PNS	P	00 47 17.7		0.6	7		
DEC	21	USCGS	01 12	45.2, 6.7S, 154.9E, H = 89 Km, M = 4.8					
		SOLOMON IS							
		LPB	eL	02 16				121.4	
DEC	21	PNS	P	03 03 10.4		1.2	19		
		LPB	P	03 03 10.8					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	21	PNS	P	03 21 18.1				2.1	
			S	43.4					
		LPB	eP	03 21 20				2.1	
			S	45.0					
DEC	21	PNS	P	04 24 21.4		0.9	11		
		LPB	P	04 24 21.7	C	0.8	18		
DEC	21	LPB	eP	05 36 10.5		0.8	4		
		PNS	P	05 36 14.0		0.9	6		
DEC	21	USCGS	06 29 05.3, 25.4N, 142.8E, H = 33 Km, M = 4.6						
		VOLCANO IS REG							
		LPB	ePKP	06 48 50.5				149.9	
			PKP2	58.2					
			eL	07 40					
		PNS	e(PKP)	06 48 50.7					
			PKP2	57.4					
DEC	21	USCGS	08 52 00.2, 20.0S, 169.7E, H = 245 Km, M = 5.6						
		NEW HEBRIDES IS							
		LPB	ePKP	09 10 08				112.5	
			ePP	58.5					
			SKS	16 32					
			PS	20 09					
			SS	26 09					
			G	38.7					
			L	44					
		PNS	PKP	09 10 09.8		1.2	13		
			iSKS	16 31.6					
			PS	20 10					
			eSS	26 10					
			L	44.1					
DEC	21	LPB	P	09 20 59.5		1.0	10		
			i	21 09					
		PNS	iP	09 21 00.0	C	1.7	52		
			i	21 09.7					
DEC	21	LPB	P	10 50 55.2	C	3.8	30		
		PNS	iP	10 50 58.5	C	0.5	42		
		CHA	P	10 50 59.0	C				
DEC	21	USCGS	11 38 07.8, 5.9N, 126.1E, H = 99 Km, M = 5.2						
		MINDANAO, PHILIPPINE IS							
		LPB	PKP	11 58 03				162.4	
			eL	12 55					
		PNS	iPKP	11 58 03.7	D	1.2	17		
			ePKP	29.8					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	21	LPB	P	12 20 59.5		1.0	14		
		PNS	P	12 21 02.0	C	1.6	42		
DEC	21	PNS	P	12 28 56.4		0.6	5	2.3	
			S	29 23					
DEC	21	USCGS	12 58	19.1, 52.1S, 14.9E, H = 33 Km, M = 4.8					
		SW OF AFRICA							
		LPB	P	13 09 46.7		1.6	16	72.7	
			eL	32					
		PNS	iP	13 09 49.0	D	1.9	250		
			PP	12 35.6					
DEC	21	USCGS	17 53	23.4, 32.9N, 137.8E, H = 377 Km,					
		S OF HONSHU, JAPAN							
		LPB	eL	19 05				150.8	
DEC	21	USCGS	19 03	42.9, 37.3N, 116.4W, H = 33 Km,					
		S NEVADA							
		LPB	eP	19 14 52				70.1	
			eL	37					
		PNS	P	19 14 47.8					
DEC	21	USCGS	22 10	58.8, 29.4N, 81.0E, H = 31 Km, M = 5.4					
		NEPAL-INDIA BOR REG							
		LPB	ePKP	22 30 45.5		1.0	24	148.5	
			eL	23 20					
		PNS	iPKP	22 30 45.7	D	1.0	13		
DEC	22	LPB	P	02 00 12.0		0.8	22		
		PNS	P	02 00 15.5		0.4	5		
DEC	22	PNS	1(P)	03 18 02.2		1.1	16		
DEC	22	LPB	P	04 34 18.6		0.8	13	3.5	
			S	59.5					
		PNS	P	04 34 21.1		1.2	18	3.2	
			eS	59					
DEC	22	PNS	P	04 49 58.3		0.9	10	2.6	
			iS	50 29.2					
		LPB	P	04 49 58.5				2.6	
			S	50 29.8					
DEC	22	LPB	P	07 54 15.4		0.5	4	2.0	
				49.5					
				54 16.7	D	0.5	5	3.3	
				53.4					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DISTA
DEC	22	USCGS HONSHU, JAPAN		09 41 42.4, 36.8N, 138.5E, H = 36 Km, M = 4.2				
		LPR	ePKP eL	10 01 24 52				148.7
DEC	22	LPR	eP eS	10 03 42.3 04 17.9		0.8	14	3.1
		CHA	P S	10 03 44.5 04 18.9	D			2.9
		PNS	eP eS	10 03 47 04 26				
DEC	22	USCGS NR E CST OF KAMCHATKA		12 10 06.3, 52.3N, 158.5E, H = 61 Km, M = 4.4				
		LPR	eL	13 12				129.1
DEC	22	USCGS S OF HONSHU, JAPAN		13 33 26.4, 31.4N, 141.7E, H = 33 Km, M = 4.3				
		LPR	ePKP eL	13 53 11 14 45				149.0
		PNS	ePKP	13 53 11.5				
DEC	22	USCGS S PERU		15 57 21.3, 15.1S, 72.0W, H = 131 Km, M = 4.0				
		PNS	iP iS	15 58 18.1 59 01.5	C	0.5	28	
		LPR	r eS	15 58 23.5 57	C	0.9	25	
DEC	22	USCGS S NEVADA		17 30 01.1, 37.2N, 116.6W, H = 33 Km, M = 4.8				
		LPR	eL	18 04				69.9
DEC	22	LPR	eP e(S)	18 00 46 03 19				
		PNS	eP eS	18 00 51 03 08.6		0.7	5	
DEC	22	USCGS KURILE IS		19 24 06.5, 48.6N, 154.3E, H = 77 Km, M = 5.2				
		LPR	eL	20 27				132.7
DEC	22	CHA	iP	21 41 27.1	D			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	22	PNS	eP	22 04 05				4.1
			eS	04 53				
		LPB	eP	22 04 07				
DEC	22	LPB	P	23 41 22.5	D	0.8	37	
			i	24.7				
			i	42 09				
		PNS	P	23 41 23		0.5	14	
			i	31.1				
			iS	42 03.6				
		CCH	eP	23 41 25.2				
DEC	23	CCH	eP	00 13 26.2				
DEC	23	PNS	P	00 51 14		0.8	8	
			P	00 51 26		0.8	24	
			i	30.5				
DEC	23	USCGS	01 11	15.6, 17.9S, 178.6W, H = 575 Km, M = 5.0				
				FIJI IS REG				
		PNS	iP	01 25 01.2				
		LPB	eL	02 01				102.1
DEC	23	LPB	eP	02 01 39				
		PNS	P	02 01 45.5		0.9	8	
DEC	23	USCGS	02 02	19.0, 13.0N, 88.5W, H = 78 Km, M = 4.5				
				EL SALVADOR				
		PNS	P	02 09 09		1.2	11	
		LPB	eP	02 09 15.5		1.0	6	35.7
			eL	20				
DEC	23	LPB	eP	02 46 14				6.0
			i	34.2				
			S	47 23				
		PNS	eP	02 46 15				5.9
			eS	47 23.4				
DEC	23	LPB	eP	05 27 14				
DEC	23	USCGS	09 48	53.4, 20.1S, 68.3W, H = 109 Km, M = 4.5				
				CHILE-BOLIVIA BOR REG				
		LPB	P	09 49 51.8	C	0.8	210	3.6
			eS	50 39				
		CCH	P	09 49 55.7	C			
		CHA	iP	09 49 59.2	D			

1 23-42.7

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DISC	
DEC	22	PNS	p	13 47 08.2				3.2	
			j	10.2					
			iS	46					
			p	13 47 13.3					
			eP	13 47 34.5				2.3	
			S	48 01.8					
DRC	23	PNS	eP	15 12 56.7					
			i	01.0					
		LPB	eP	15 13 01.5					
DEC	23	USCGS	15 50 20.4, 7.1S, 148.3E, H = 43 Km, M = 6.4 NEW GUINEA REG						
		PNS	PKP	16 09 28.0		0.8	4		
			ip <sup>PKP</sup>	41.0					
			i	10 04.0					
			pp	12 11.7					
			iPKS	13 16.6					
			eG	47.1					
			L	54.5					
		LPB	PKP	16 09 30		2.1	290	136.#	
			ip <sup>PKP</sup>	42					
			iPKS	13 14					
			eSS	30 20					
			G	47					
			L	54.5					
DEC	23	PNS	P	16 45 43.3		1.2	17		
		LPB	eP	16 45 44.5					
DEC	23	USCGS	18 59 04.8, 7.4S, 74.8W, H = 136 Km, M = 5.2 PERU-BRAZIL BOR REG						
		PNS	iP	19 01 33.5	C	0.8	28		
			eS	03 31					
		LPB	iP	19 01 39.0		0.9	13	11.0	
		CHA	eP	19 01 49.1					
DEC	23	PNS	eP	21 44 53.4					
		LPB	eP	21 45 07		0.5	8		
DEC	23	PNS	iP	22 04 12.1	D			2.5	
			iS	42.4					
		LPB	P	22 04 16.5		1.1	67	2.9	
			S	51					
		CHA	iP	22 04 23.5	D			3.1	
			iS	59.6					
DEC	23	USCGS	22 10 25.6, 12.7N, 87.6W, H = 34 Km, M = 4.7 NR CST OF NICARAGUA						

2 27  
2 17 16

25.6

DECEMBER 1966

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	23	PNS	iP S	23 46 04.2 26.4		0.5	6	1.8
DEC	23	USCGS NR CST OF KAMCHATKA		23 49 27.3, 54.8N, 162.5E, H = 28 Km, M = 4.9				
		LPB	eL	00 49				139.4
DEC	23	USCGS NR E CST OF KAMCHATKA		23 56 09.0, 54.5N, 162.2E, H = 33 Km, M = 4.6				
		LPB	ePKP eL	00 15 12.5 56				126.0
		PNS	PKP	00 15 14.4		1.7	20	
DEC	24	CCH LPB PNS CHA	P P iP iP	03 21 46.9 03 21 57.5 03 22 01.1 03 22 11.7	D  C D	0.8	24	
DEC	24	PNS LPB	P eS eP	05 50 55.6 52 17 05 51 05		1.0	10	7.2
DEC	24	LPB	eP	05 58 39.5		1.0	36	
DEC	24	USCGS VOLCANO IS REG		06 00 58.6, 25.4N, 142.6E, H = 18 Km, M = 5.1				
		LPB	ePKP i eL	06 20 47 52 07 11		1.0	8	149.8
		PNS	iPKP i	06 20 47 50	C	0.9	8	
DEC	24	LPB PNS	P P e(S)	07 06 30 07 06 33.4 07 44		0.5	17	
DEC	24	PNS LPB	e(P) eP	07 27 09.8 07 27 11		1.0	10	
DEC	24	PNS	P S	07 39 06.5 28.6		0.5	5	11.8
DEC	24	LPB PNS	P e eP	09 24 10 50 09 24 11				
DEC	24	PNS	P	10 17 00.6 38		0.4	2	3.2

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	24	PNS	eP S	10 22 02 23 45				9.2	
		LPB	eP (S)	10 23 09 24 12.5					
DEC	24	PNS	iP S	11 54 20.6 43	D	0.4	8	1.8	
DEC	24	LPB	eP	12 11 46.5					
		PNS	P	12 11 51		0.6	5		
DEC	24	LPB	P	15 34 16.5		0.7	2	3.5	
			S	58					
		PNS	P	15 34 17.8		0.6	4	3.6	
			S	35 00					
DEC	24	PNS	P iS	16 33 20.8 45.2		0.7	12	2.0	
DEC	24	PNS	eP S	16 43 10 33.4				1.9	
DEC	24	USCGS TONGA IS	20 44	20.9, 16.1S, 173.4W, H = 78 Km, M = 4.3					
		LPB	eP eL	20 57 46 21 31				99.0	
DEC	24	USCGS S ALASKA	22 28	59.6, 59.9N, 153.4W, H = 113 Km, M = 5.1					
		LPB	eP ePP eSKS eL	22 42 34 47 06 52 38 23 16				101.7	
		PNS	eP	22 42 35					
DEC	25	USCGS S OF HONSHU, JAPAN	02 24	02.5, 30.6N, 141.9E, H = 17 Km, M = 4.2					
		LPB	ePKP eL	02 43 52 03 35				149.3	
		PNS	ePKP	02 43 54		1.0	5		
DEC	25	USCGS ARABIAN SEA	05 42	44.5, 14.1N, 53.8E, H = 33 Km, M = 5.2					
		LPB	ePKP eL	06 01 41 42				24.1	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	25	USCGS ARABIAN SEA	05 49	47.7, 14.2N, 53.6E, H = 33 Km, M = 4.8				
		PNS	ePKP	06 08 45.6				
		LPB	eL	06 49				24.1
DEC	25	PNS	P	07 37 23.2				2.0
			S	47.5				
DEC	25	LPB	P	09 14 14.0		0.9	22	
		PNS	P	09 14 14.6		0.8	5	
DEC	25	PNS	eP	09 30 00				
		LPB	eP	09 30 08				
DEC	25	LPB	iP	09 39 25.0		0.7	18	2.0
			iS	49.5				
		PNS	iP	09 39 24.3	D			1.9
			S	47.4				
DEC	25	PNS	P	11 26 17.8				2.0
			S	41.4				
DEC	25	LPB	P	11 53 12.5		1.1	23	
DEC	25	LPB	P	11 59 42		1.0	6	
DEC	25	USCGS OFF COAST OF ECUADOR	12 26	07.8, 0.1N, 83.6W, H = 33 Km, M = 4.9				
		PNS	P	12 31 11.2	D	1.5	45	
		LPB	P	12 31 15.7		1.0	24	22.9
			eL	37				
DEC	25	PNS	iP	12 53 54.0	C	1.5	53	5.2
			eS	54 53				
		LPB	P	12 53 50.5		1.0	44	5.3
			S	54 51.5				
DEC	25	USCGS NEW BRITAIN REG	14 26	31.7, 4.8S, 152.1E, H = 106 Km, M = 5.0				
		PNS	iPKP	14 45 43.2	C	1.4	22	
		LPB	ePKP	14 45 48				134.3
			e(PKS)	49 08				
			eL	15 30				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	25	PNS	iP iS	15 45 03.1 26.0	D	0.7	17	1.9	
DEC	25	PNS LPB	eP eS eP	15 58 15.4 42.6 15 58 18				2.3	
DEC	25	PNS LPB	P e(S) P	16 32 03.4 41.6 16 32 20.5		0.6 0.8	5 15		
DEC	25	LPB PNS	eP P S	17 33 47.6 17 33 48.8 34 24.6		0.8	25	3.1	
DEC	25	PNS LPB	iP iS P	19 50 16.2 40.0 19 50 19	D	0.9	15	2.0	
DEC	25	USCGS 20 21 53.9, 1.8S, 150.1E, H = 48 Km, M = 4.7 NEW IRELAND REG							
		PNS LPB	PKP ePKP eL	20 41 13 20 41 16.5 21 26		1.5	16	137.7	
DEC	25	USCGS 23 03 22.8, 51.8N, 176.1E, H = 47 Km, M = 4.8 RAT IS, ALEUTIAN IS							
		LPB	eL	24 03				118.8	
DEC	26	USCGS 01 08 23.9, 5.9S, 148.1E, H = 120 Km, M = 5.0 NEW BRITAIN REG							
		PNS LPB	ePKP ePKP eL	01 27 32 01 27 33 02 13		0.9	7	137.6	
DEC	26	PNS LPB	P eP	01 31 01.4 01 31 02		1.2 0.9	27 12		
DEC	26	PNS LPB	eP eS eP	01 33 20 34 08.7 01 33 25		0.9 1.1	10 21	4.2	
DEC	26	LPB PNS	eP i eP e(S)	03 07 47.5 55 03 07 49 08 28		0.8	8		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	26	LPB	P	03 22 21		0.7	4	
DEC	26	USCGS TURKEY	04 21	02.4, 38.7N, 40.9E, H = 55 Km, M = 4.8				
		LPB	eL	05 15				114.7
DEC	26	USCGS HINDU, KUSH REGION	01 28	04.3, 35.9N, 69.9E, H = 180 Km, M = 5.0				
		LPB	eL	02 00				138.0
DEC	26	USCGS MARIANA IS	05 12	06.0, 16.2N, 145.4E, H = 443 Km, M = 4.9				
		LPB	eP	05 30 58				147.5
			iPKP2	31 04.0				
			eL	06 21				
		CCH	PKP	05 31 07.8	D			
DEC	26	LPB	eP	06 36 05				
DEC	26	LPB	eP	09 59 18				
			e	22.8				
DEC	26	USCGS NEAR S CST OF HONSHU, JAPAN	09 41	18.8, 34.6N, 138.8E, H = 33 Km,				
		LPB	ePKP	10 01 03				149.5
			eL	52				
DEC	26	LPB	iP	10 18 09.0	C	0.7	247	2.8
			i	19				
			S	42				
		PNS	iP	10 18 10.4	C			2.8
			S	43				
		CCH	iP	10 18 18.3	C			
DEC	26	PNS	iP	10 31 40.0	C			2.5
			iS	32 10.4				
		LPB	P	10 31 44.2		1.0	12	
			S	37 17.8				
		CCH	iP	10 32 07.9	D			
DEC	26	LPB	e(P)	12 41 50				
		CCH	P	12 42 00.5	D			
		PNS	eP	12 42 08.4				2.4
			S	37.8				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	26	USCGS ANDREANOF IS, ALEUTIAN IS		13 23 17.9, 52.2N, 172.3W, H = 33 Km, M = 4.4				
		LPB	ePKP eL	13 41 52 14 16				111.6
DEC	26	USCGS		15 30 58.2, 27.1S, 70.9W, H = 33 Km, M = 4.5				
		LPB	P S eL	15 33 35.7 35 36 36.7		0.9	12	10.8
		PNS	iP eS eL	15 33 37 35 34 36.4	C	0.7	8	
DEC	26	LPB	eP S	16 57 40.5 58 06				2.1
		CCH	P	16 57 46.0	D			
		CHA	P	16 57 47.3	D			
		PNS	eP S	16 57 53.4 58 22.4				2.4
DEC	26	CCH	P	17 08 13.4	D			
		LPB	P	17 08 14		0.7	26	
		CHA	P	17 08 14.9	D			
		PNS	P S	17 08 21 50				2.4
DEC	26	PNS	eP e(S)	17 21 05.7 23 40		0.8	4	
		LPB	eP	17 21 39		0.9	7	
DEC	26	CCH	eP	17 25 21.6				
		CHA	P	17 25 26.9	D			
		LPB	P	17 25 28		0.7	16	
		PNS	eP S	17 25 32.4 26 03				2.6
DEC	26	USCGS		17 16 36.6, 11.0S, 164.2E, H = 37 Km, M = 5.2				
		LPB	PKP eL	17 35 29.3 18 14		0.9	12	121.3
		PNS	iPKP	17 35 29.4	C	1.0	13	
DEC	26	PNS	eP S	18 18 10 38				2.3
		LPB	eP	18 18 18				
DEC	26	PNS	eP e(S)	19 29 03.3 30 05 29 03.5 15.2				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	26	<del>CHA</del>	<del>iP</del>	<del>19 52 59.8</del>	<del>C</del>			
		<del>PNS</del>	<del>iP</del>	<del>19 53 01.6</del>	<del>D</del>			
		<del>LPB</del>	<del>eP</del>	<del>19 53 04.5</del>				
			<del>i(Pn)</del>	<del>07.2</del>				
			<del>iS</del>	<del>12</del>				
DEC	26	USCGS	20 29 44.8, 10.8S, 79.0W, H = 39 Km, M = 4.6 NEAR COAST OF PERU					
		PNS	eP	20 32 30.7				
			i	36.8				
			iS	34 28.0				
			SS	56.2				
			L	35.5				
		LPB	eP	20 32 32.5		0.8	6	11.7
			ePP	41.2				
			S	34 20.5				
			L	35.6				
		CCH	eP	20 33 00.6				
DEC	26	LPB	eP	20 44 17				2.5
			S	47.5				
		CCH	eP	20 44 27.2				
		PNS	eP	20 44 36				2.3
			S	45 04.3				
DEC	26	USCGS	21 08 17.3, 40.6N, 139.3E, H = 58 Km, M = 4.3 NP W CST OF HONSHU, JAPAN					
		LPB	ePKP	21 27 54				146.4
			eL	22 18				
		PNS	ePKP	21 27 55.4				
DEC	27	PNS	P	00 30 48.2		0.6	4	2.0
			S	31 11.8				
DEC	27	USCGS	01 22 17.3, 37.1N, 141.0E, H = 60 Km, M = 5.5 HONSHU, JAPAN					
		PNS	iPKP	01 41 54.5	C	1.4	210	
			iPKP	42 11.4				
			PKS	45 30.2				
		LPB	PKP	01 41 55.2	C	1.0	122	147.1
			iPKP	42 11				
			ePKS	45 29				
			eL	02 31				
		CHA	PKP	01 41 56.1	C			
		CCH	iPKP	01 41 58.1	D			
DEC	27	PNS	P	01 48 02.9		0.5	2	
		LPB	P	01 48 16		0.7	10	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	27	CCH	iP	04 22 36.1	C				
		LPB	iP	04 22 49.5	C	0.9	7		
		CHA	iP	04 22 51.5	D				
		PNS	iP	04 22 53.7	C	0.5	30	5.4	
			eS	23 56					
DEC	27	PNS	iP	05 34 20.8	D	0.6	9	1.8	
			iS	43.0					
		LPB	eP	05 34 24					
DEC	27	PNS	eP	05 37 50				3.0	
			S	38 25.3					
DEC	27	USCGS	05 42 17.2, 5.9S, 145.4E, H = 79 Km, M = 4.8						
		NEW GUINEA REG							
		PNS	PKP	06 01 32.3		1.4	15		
			epPKP	47.4					
		LPB	PKP	06 01 35.0		1.0	10	140.0	
			eL	49					
		CCH	PKP	06 01 38.1	D				
DEC	27	LPB	eP	06 42 05				9.0	
			S	43 46					
		PNS	P	06 42 32.8					
DEC	27	PNS	iP	07 29 28.7	D	0.5	9		
		LPB	P	07 29 29.3		0.8	4		
DEC	27	CCH	P	07 51 17.7	C				
		LPB	eP	07 51 22				4.0	
			S	52 07.6					
		CHA	P	07 51 24.9	D				
		PNS	P	07 51 27.4		0.5	5	4.0	
			iS	52 13.8					
DEC	27	PNS	P	10 02 01.1	C	0.7	13	3.2	
			iS	39.5					
		LPB	P	10 02 07		1.0	14		
DEC	27	CCH	P	11 10 25.4					
DEC	27	CHA	P	11 21 30.3					
			S	22 03.9					
		CCH	P	11 20 53.6	C				
		PNS	eP	11 21 33				3.4	
			S	22 13					
		LPB	eP	11 22 01.5					
DEC	27	LPB	P	12 20 06.6		0.7	12		
		PNS	iP	12 20 10.4	C	0.5	14		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	27	LPB	eP	12 27 02				
DEC	<del>27</del>	<del>CHA</del>	<del>iP</del>	<del>13 15 17.3</del>	<del>D</del>			
DEC	27	CHA	eP	13 18 26.3				2.8
			S	18 59.1				
DEC	27	LPB	eP	14 08 10.5		0.7	6	
DEC	27	USCGS GREENLAND SEA	14 02 25.1, 78.5N, 3.3E, H = 33 Km, M = 4.6					
		LPB	eP	14 16 11				102.2
			eL	51				
DEC	27	LPB	eP	15 01 57.5				
DEC	27	LPB	eP	15 44 14				
		CCH	eP	15 44 25.9				
DEC	27	LPB	eP	16 32 11				
DEC	27	USCGS MARIANA IS	17 30 55.4, 19.0N, 145.0E, H = 229 Km, M = 4.9					
		PNS	iPKP	17 50 05.6	C	1.0	8	
			i	09.4				
			PKP2	13.4				
		LPB	ePKP	17 50 06		0.9	10	148.4
			i	09.7				
			ePKP2	14				
		CCH	P	17 50 14.5	C			
DEC	27	CCH	eP	18 39 23.4				
		PNS	eP	18 40 00				4.8
			S	54.6				
		LPB	eP	18 40 06		0.6	8	4.6
			(S)	59.2				
DEC	27	PNS	iP	21 29 08.7	D	0.8	45	
			i	30.9				
			iPcP	31 36.4				
		CHA	P	21 29 10.5	C			
		LPB	P	21 29 12.3	D	0.8	56	36.0
			iPcP	31 39.5				
			eS	34 52				
			L	40.6				
		CCH	P	21 29 26.2	D			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	27	PNS	P	21 35 22.6		0.8	5	
			i	51				
		LPB	P	21 35 24		0.9	15	
		CCH	eP	21 35 29.1				
DEC	27	USCGS TONGA IS		21 26 06.5, 21.3S, 175.6W, H = 14 Km, M = 5.0				
		LPB	eL	22 13				99.3
DEC	28	LPB	P	00 41 25		0.8	7	
		PNS	eP	00 41 25.5		1.0	10	
DEC	28	LPB	eP	06 01 22.5				
DEC	28	PNS	P	07 12 55.6				
		LPB	eP	07 12 56				
DEC	28	PNS	iP	08 03 44.4				1.7
			iS	04 05.7				
		LPB	P	08 03 46		1.0	8	
			i	04 12.5				
DEC	28	USCGS NR CST OF N CHILE		08 18 07.4, 25.5S, 70.7W, H = 47 Km, M = 6.9				
		CCH	iP	08 20 20.2	C			
		LPB	iP	08 20 22.0	C	0.8	532	9.4
		PNS	iP	08 20 23.6	C			
		CHA	iP	08 20 23.0	D			
DEC	28	PNS	eP	09 17 20				
DEC	28	LPB	P	09 23 17.2		0.8	14	
		CCH	eP	09 23 17.6				
		PNS	iP	09 23 18.7	C	0.5	10	
DEC	28	USCGS NR CST OF N CHILE		09 25 09.3, 25.6S, 70.9W, H = 33 Km, M = 4.5				
		LPB	eP	09 27 26				9.4
		CCH	eP	09 27 26.8				
		PNS	iP	09 27 27.8	C	0.4	5	
DEC	28	PNS	P	09 36 30.6	D	1.0	6	
DEC	28	LPB	eP	09 39 54				
			i	40				
		PNS	P	09 39 54.6		0.6	4	
				40 10.5				
				41 20				
				40 02.5	C			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	28	PNS LPB	eP eP	09 55 52.4 09 55 53		0.4	2	
DEC	28	LPB PNS	eP P	10 01 58 10 01 58.3				
DEC	28	USCGS NR CST OF N CHILE		10 09 32.5, 25.4S, 70.7W, H = 33 Km, M = 4.4				
		CCH LPB S	eP P S	10 11 45.2 10 11 45.5 13 24	D	0.7	29	9.0
		PNS S CHA	iP S P	10 11 47.9 13 25 10 11 48.3	D  D	0.5	14	
DEC	28	USCGS NR CST OF N CHILE		10 25 57.5, 25.4S, 70.5W, H = 33 Km, M = 4.4				
		LPB i S	eP i S	10 28 10 17.5 29 48				9.0
		PNS i eS	P i eS	10 28 12.4 25.2 29 51		0.6	3	
		CCH	P	10 28 17.6	D			
DEC	28	LPB PNS	eP S P i S	10 55 09 42.7 10 55 10 23.0 41				2.9 2.6
DEC	28	LPB PNS CCH	P eS P eP	11 04 45 06 45.5 11 04 45.3 11 04 57.7		0.8 0.5	7 5	10.7
DEC	28	USCGS NR COAST OF N CHILE		11 29 26.1, 25.2S, 70.9W, H = 33 Km, M = 5.0				
		CCH LPB (eS)	P P (eS)	11 31 36.0 11 31 37.6 33 33.5	D	0.7	32	9.0
		PNS S	iP S	11 31 39.7 33 20.6	C	0.5	20	
DEC	28	CHA	P	11 41 39.6	C			
DEC	28	PNS	P	11 47 22.8 36.6 49 34 47 23 47 44.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	28	PNS	P e(S)	15 48 13 49 04				
DEC	28	LPB PNS	eP eP S	15 51 41 15 51 49 52 14				2.1
DEC	28	LPB PNS	eP eP e	16 02 22 16 02 22.5 33				
DEC	28	USCGS BANDA SEA	16 01	36.4, 4.3S, 128.6E, H = 55 Km, M = 4.5				
		LPB PNS	ePKP ePKP	16 21 25 16 21 27.4				153.4
DEC	28	LPB PNS	eP i eS eP i eS	16 41 31 31.3 44 15 16 41 32.8 42 02.7 44 16				14.8 14.7
DEC	28	LPB PNS	eP P	17 32 43 17 32 43.2		0.7	4	
DEC	28	PNS CCH	P S eP i	17 35 32 36 08 17 34 54.7 35 02.7		1.0		3.1
DEC	28	PNS LPB	eP eS eP	17 39 03.4 41 18.5 17 39 17				12.1
DEC	28	CCH LPB PNS	P iP eS P iS	17 44 37.9 17 44 50.5 46 18.5 17 44 53.9 46 16.4	D D	0.8 0.8	27 29	7.8 7.2
DEC	28	LPB PNS	eP eP eS	18 08 22 18 08 23 10 15.6				10.0
DEC	28	PNS	P i S	18 37 15.7 20.3 40 22		0.3	2	17.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	28	PNS	iP	11 53 54.0	C	1.2	11		
DEC	28	LPB	P	11 56 45.7	D	0.6	12		
		PNS	iP	11 56 46.9	C	0.5	8	9.5	
			eS	58 34					
DEC	28	LPB	P	12 03 01				10.8	
			S	05 02.5					
		PNS	P	12 03 01		1.0	6	11.0	
			i	12.0					
			S	05 04					
DEC	28	USCGS	12 30 46.4, 25.6S, 70.9W, H = 33 Km, NEAR COAST OF CHILE						
		LPB	eP	12 33 04				9.4	
		PNS	P	12 33 04.4		0.5	3		
			e	20.0					
			eL	35.4					
DEC	28	LPB	P	12 45 10.5		0.5	9		
			i	22					
		PNS	P	12 45 11.0		0.6	7	11.6	
			i	24.0					
			eS	47 20.4					
		CCH	eP	12 45 17.8					
DEC	28	LPB	P	12 59 31		0.9	12		
		PNS	P	12 59 33.5		0.8	4		
DEC	28	LPB	eP	14 04 29					
		PNS	eP	14 04 30.3		0.6	3		
DEC	28	LPB	eP	14 07 05					
		PNS	eP	14 07 13.7					
			e(S)	09 11					
DEC	28	USCGS	14 38 57.6, 25.5S, 70.6W, H = 33 Km, M = 4.4 NEAR COAST OF N CHILE						
		LPB	P	14 41 11.5		0.7	22	9.4	
			S	43 18.5					
		CCH	P	14 41 11.6					
		PNS	iP	14 41 12.5		0.5	15		
			i	30					
			S	43 24.2					
DEC	28	LPB	eP	14 56 09				10.8	
			S	58 10.5					
		PNS	eP	14 56 09.7				12.0	
			e	21.7					
			-	58 23					
			-	4 56 14.9					



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	28	PNS	P S	18 38 22.7 46		0.5	7	1.9	
DEC	28	PNS	P S	19 20 27.6 58		0.4	4	2.5	
DEC	28	PNS LPB	eP i eP	19 28 40 29 14.3 19 28 52					
DEC	28	LPB PNS	eP eP	19 48 35.5 19 48 46					
DEC	28	PNS LPB	eP eP	19 59 13 19 59 17		0.7	9		
DEC	28	USCGS 21 03 16.1, 25.5S, 70.6W, H = 33 Km, M = 4.7 NR CST OF N CHILE							
		LPB	P iPP eS	21 05 32.7 45.2 07 14		1.0	14	9.4	
		PNS	iP i eS	21 05 32.8 47.8 07 16	C	0.6	6		
		CCH	eP i	21 05 35.3 42.0					
DEC	28	LPB	eP S	21 26 54 28 52.2				5.0	
DEC	28	LPB PNS	P P	21 33 27.5 21 33 28.3		0.8 0.4	10 6		
DEC	28	PNS LPB	eP e eP	21 52 27 42.4 50 21 52 37					
DEC	28	PNS LPB	P eS P i iS	22 42 44.6 43 23 22 42 49.2 51.6 43 33.7		0.7 1.0	16 18	3.2 3.8	
DEC	28	LPB PNS	eP eP e	22 45 21 22 45 31.6 46 12.6					
				23 02 12 40				2.3	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	28	LPB PNS	eP eP	23 11 24 23 11 31.6		1.1	15	
DEC	29	LPB CCH PNS	P eP eP	00 14 25 00 14 25.1 00 14 34		1.0		
DEC	29	USCGS 00 20 01.0, 25.6S, 70.8W, H = 33 Km, M = 4.5 NEAR CST OF N CHILE						
		CHA	P	00 22 16.8	C			
		LPB	P	00 22 17.2		0.8	21	9.5
			iPP	29.0				
			iS	24 31.5				
			L	25.8				
		PNS	iP	00 22 19.0	C			
			PP	31.6				
			i	23 07.0				
			S	24 33.6				
			L	25.7				
DEC	29	PNS	P S	00 37 25.6 47.8		0.5	11	1.8
DEC	29	LPB PNS	eP S eP eS	00 48 00 49 57.5 00 48 00.6 49 58				10.4 10.4
DEC	29	USCGS 01 05 58.3, 21.0S, 68.0W, H = 160 Km, M = 4.3 CHILE-BOLIVIA BOR REG						
		CCH	iP	01 07 01.3	C			
		LPB	iP	01 07 06.5	C	0.8	168	4.5
			eS	51				
		PNS	iP	01 07 09.8	C			
			eS	54				
DEC	29	USCGS 01 48 28.9, 25.7S, 70.7W, H = 33 Km, M = 5.4 NR CST OF N CHILE						
		CCH	P	01 50 42.8				
			iPP	52.3				
		LPB	P	01 50 43.5		1.4	104	9.5
			iPP	51.2				
			S	52 26.5				
			G	53.5				
			L	54				
		PNS	P	01 50 44.6		0.8	31	
			i	58.0				
			L	54.1				
DEC	29	LPB	e(P)	02 31 29.5 31 30				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	29	LPB	P	02 36 28.8		0.7	4	10.2
			eS	38 22.6				
		PNS	P	02 36 41		1.0	5	9.8
			S	38 31				
DEC	29	PNS	e <sup>D</sup>	03 33 42		1.0	8	11.7
			eS	35 53				
		LPB	P	03 33 44.7		1.0	8	10.7
			S	35 44.5				
DEC	29	LPB	e <sup>D</sup>	03 52 08		0.5	3	
			P	03 52 08.6				
DEC	29	USCGS 05 08 48.0, 25.7S, 70.7W, H = 33 Km, M = 4.6 NR CST OF N CHILE						
		LPB	e <sup>D</sup>	05 11 04		0.7	3	9.5
		PNS	P	05 11 07				
DEC	29	LPB	e <sup>D</sup>	05 39 14.5		0.6	4	
			P	05 39 18.1				
DEC	29	LPB	P	06 01 07.1		0.7	9	8.9
			i	27				
			e(S)	02 45				
		CCH	e <sup>D</sup>	06 01 07.7				
		PNS	P	06 01 09.2	D			
			S	02 49.7				
DEC	29	USCGS 07 25 50.9, 25.3S, 70.9W, H = 33 Km, M = 3.8 NR CST OF N CHILE						
		LPB	e <sup>D</sup>	07 28 01		0.7	7	9.0
		S	29 40.5					
		CCH	e <sup>D</sup>	07 28 04.2				
		PNS	P	07 28 04.5				
DEC	29	USCGS 09 29 33.8, 25.2S, 68.2W, H = 79 Km, M = 4.5 CHILE-ARGENTINA BOR REG						
		LPB	e <sup>D</sup>	09 31 37.5		0.7	7	8.6
		eL	34					
DEC	29	LPB	e <sup>(D)</sup>	10 31 56		0.7	7	
			iS	32 22.7				
DEC	29	LPB	P	10 49 22		0.7	7	
DEC	29	CCH	e <sup>D</sup>	11 02 12.2		0.8	8	10.4
			e <sup>D</sup>	11 02 19				
		LPB	P	04 15				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST			
DEC	29	CCH LPB	eP	11 21 49.1							
			P	11 22 05		1.4	32	0.8			
			i	12.6							
			S	23 44.3							
			L	25.0							
DEC	29	USCGS NR CST OF CENTRAL CHILE		11 26 49.8, 28.9S, 71.0W, H = 24 Km, M = 5.0							
			LPB	P	11 29 48.5			12.3			
				i	30 09						
				eL	34						
			PNS	eP	11 29 54.4						
				i	30 08.4						
				S	32 09						
			CCH	eP	11 29 54.7						
			DEC	29	USCGS EASTER CORDILLEPA		11 56 23.0, 32.6S, 111.8W, H = 33 Km,				
						PNS	P	12 04 16.4		2.0	150
pP	25.8										
i	47.4										
pCP	06 16										
ppP	07 32.6										
eS	10 46										
LPB	L	16.5									
	eP	12 04 18					2.4	342	42.9		
	pp	06 04.5									
	S	10 48									
	G	13.9									
CCH	L	16.7									
	eP	12 04 28.7									
DEC	29	PNS	P	12 49 01.8		0.7	4	1.8			
			S	24							
DEC	29	USCGS NR CST OF CENTRAL CHILE		12 52 36.4, 32.2S, 71.6W, H = 69 Km, M = 4.6							
			CCH	eP	12 56 14.9						
				P	12 56 18.2				15.3		
				eS	59 20						
			PNS	eL	13 00						
				iP	12 56 20.7	D	1.5	200			
				i	38.0						
				S	59 35.0						
			DEC	29	LPB	P	13 15 19.0		0.9	14	
DEC	29	LPB	eP	13 29 55		0.8	7	11.6			
			i	30 07.3							
			S	32 04.5							
			CCH	eP	13 30 07.3						
					30 07.5		0.5	3	10.5		
					20.0						

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	29	LPB	eP	13 44 53				
		PNS	eP	13 44 54				
DEC	29	PNS	P	14 39 47.6				0.4
			S	55				
		LPB	P	14 39 49.5		0.7	9	0.6
			S	58.5				
DEC	29	CCH	P	15 09 42.0	C			
		LPB	P	15 09 54.5		0.7	25	7.1
			S	11 14.2				
		PNS	iP	15 09 58.5	C	0.6	19	7.2
			eS	11 20				
DEC	29	USCGS MARIANA IS		14 54 42.2, 13.5N, 145.7E, H = 41 Km, M = 4.6				
		PNS	PKP	15 14 23.4		1.4	19	
		LPB	ePKP	15 14 24				147.1
			eL	16 05				
DEC	29	PNS	eP	16 35 27				
			i	49.4				
			i	36 59.6				
			eS	37 31.5				
			e(SSS)	38 20				
		LPB	eP	16 35 34		0.7	8	
			(S)	38 19				
DEC	29	LPB	eP	21 46 30				
DEC	29	USCGS MOLUCCA PASSAGE		21 29 28.1, 1.2N, 126.8E, H = 54 Km, M = 5.0				
		LPB	ePKP	21 49-14				158.6
DEC	29	PNS	eP	21 58 20.4		0.5	3	4.8
			i	24.6				
			i	31.5				
			S	59 15.7				
		LPB	P	21 58 27.7		0.6	10	6.1
			S	59 38				
DEC	29	USCGS EASTER IS CORDILLERA		22 16 22.7, 32.8S, 111.7W, H = 33 Km, M = 5.4				
		PNS	iP	22 24 16.3	C	2.2	270	
			pP	25.0				
			PP	26 00.9				
			PcP	13.4				
			iPPP	25.0				
				30 46				
				36.3				
				24 17.6		2.1	200	42.3
				26 04.2				
				30 47				
				34.1				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	29	CCH	P	22 24 28.4	D				
DEC	29	PNS	eP	22 39 43					
			i	40 00					
			i	42 14.4					
		LPB	eP	22 39 45		1.0	16		
			i	40 05.5					
DEC	29	LPB	eP	22 55 06					
		PNS	P	22 55 11.5				3.8	
			eS	55.4					
DEC	29	USCGS	23 08 47.4, 38.4S, 175.6E, H = 171 Km, M = 5.0						
		NORTH IS, NEW ZEALAND							
		PNS	eP	23 22 04.3					
		LPB	eL	23 56				99.0	
DEC	29	USCGS	23 16 20.0, 60.6S, 50.4W, H = 33 Km, M = 5.4						
		SCOTIA SEA							
		CCH	iP	23 24 33.2	D				
		LPB	eP	23 24 40		1.2	41	45.9	
			i	41.6					
			(PP)	26 19					
			eS	31 31					
			eL	39					
		PNS	iP	23 24 44.5	D	1.4	230		
			i	43.7					
			i(PP)	26 20					
DEC	30	TRJ	iP	01 28 29.1	C				
DEC	30	PNS	eP	01 44 20					
		LPB	eP	01 44 25					
DEC	30	USCGS	01 00 25.4, 17.8S, 178.9E, H = 658 Km, M = 5.0						
		FIJI IS							
		LPB	eL	01 50				105.5	
DEC	30	USCGS	02 20 31.6, 25.5S, 70.9W, H = 33 Km, M = 4.8						
		NR CST OF N CHILE							
		CCH	P	02 22 40.6					
		LPB	eP	02 22 49				9.5	
			eL	25.7					
		PNS	iP	02 22 49.1	D	0.5	6		
			i(PP)	23 14.4					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	30	CHA	P	02 42 58.6	D				
		PNS	P	02 42 59.7		1.0	20	4.0	
			S	43 46.6					
		LPB	P	02 43 05.5	C	1.0	60		
			i	15.2					
		CCH	P	02 43 32.0					
DEC	30	PNS	P	03 06 54.2		0.6	4	12.0	
			i	07 11.0					
			eS	09 08.5					
		LPB	eP	03 06 57.5					
DEC	30	CCH	eP	03 10 57.7					
		PNS	eP	03 11 11.8					
			i	27.5					
		LPB	eP	03 11 18		1.0	32		
			i	20.5					
DEC	30	PNS	iP	03 58 39.3	C	0.9	21	2.0	
			iS	59 03.1					
		LPB	eP	03 58 40					
DEC	30	USCGS	04 04 01.3, 25.5S, 70.7W, H = 17 Km, M = 4.7						
		NR CST OF N CHILE							
		LPB	eP	04 06 18		0.8	7	9.5	
			i	28.4					
			i	33.2					
			eS	08 25.5					
			eL	09.6					
		PNS	P	04 06 20.4		0.7	11		
			i	33.0					
			eS	08 17.0					
		CCH	eP	04 06 27.6					
DEC	30	LPB	P	04 35 02		0.9	8		
		PNS	P	04 35 02.2	C	0.7	8		
DEC	30	USCGS	04 24 43.1, 7.2S, 119.9E, H = 601 Km, M = 5.2						
		FLORES SEA							
		LPB	P	04 43 31.0		1.1	28	155.0	
			iPKP2	44 00					
			eL	05 37					
		PNS	iPKP	04 43 32.0	D	1.4	87		
			i	41.4					
			iPKP2	44 01.1					
			PKS	47 05.7					
		CCH	PKP	04 43 32.1	C				
DEC	30	USCGS	04 40 06.7, 52.8N, 160.4E, H = 33 Km, M = 4.8						
		OFF E CST OF KAMCHATKA							
				04 59 09				127.4	
				04 59 10.8					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	30	PNS LPB	eP eP	07 00 28.5 07 00 29		1.0	8	
DEC	30	USCGS NR CST OF N CHILE		09 53 33.8, 25.2S, 70.6W, H = 33 Km, M = 5.2				
		LPB	P i eDP S L	09 55 43.0 51.5 55 57 46.5 59.0	D	1.0	60	9.0
		CCH PNS	eP P iPP iS L	09 55 43.1 09 55 44.9 59.2 57 38 58.9	D	0.6	56	
DEC	30	CHA	iP	10 55 41.0	D			
DEC	30	USCGS NR CST OF N CHILE		11 55 49.8, 25.6S, 70.7W, H = 19 Km, M = 4.9				
		CHA LPB	P P i S L	11 58 06.8 11 58 07 22.5 12 00 13.5 01.5	D C	1.0	32	9.4
		PNS	P i eS	11 58 09.9 26.4 12 00 05.6	C			
		CCH	P	11 58 08.6				
DEC	30	USCGS NR CST OF N CHILE		12 30 24.2, 25.3S, 70.7W, H = 33 Km, M = 4.4				
		CHA LPB	eP iP eS L	12 32 28.2 12 32 34.2 34 31 35.8		0.9	19	9.1
		PNS	iP i iS L	12 32 37.0 50.0 34 43.0 35.9		0.7	5	
		CCH	P	12 32 42.5				
DEC	30	PNS	P S	13 53 21.6 47		0.4	4	2.1
DEC	30	PNS LPB	eP eP	17 08 06.8 17 08 07				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	30	USCGS	17 09 58.6, 24.3S, 67.3W, H = 168 Km, M = 4.6 CHILE-ARGENTINA BOR REG						
		LPB	iP	17 11 50.8		0.8	84	7.7	
			S	13 17.5					
			eL	14.6					
		CCH	iP	17 11 39.5	D				
		CHA	P	17 11 50.2	C				
		PNS	iP	17 11 54.4	C				
DEC	30	USCGS	18 35 19.8, 10.9N, 84.2W, H = 63 Km, M = 4.3 COSTA RICA						
		PNS	P	18 41 32		1.0	7		
		LPB	eP	18 41 33		0.8	6	31.5	
			eL	51					
DEC	30	LPB	eP	21 11 23		1.1	9		
		PNS	eP	21 11 31		0.6	3		
			e(S)	12 14					
DEC	30	LPB	eP	22 58 48		0.8	15	5.3	
			i	59 09.5					
			eS	59 49.5					
		PNS	P	22 58 53.2		0.7	9	5.9	
			eS	23 00 00					
		CHA	P	22 58 54.6	C				
DEC	31	CHA	iP	00 57 57.6	D				
		PNS	iP	00 57 58.9	D			1.9	
			iS	58 21.6					
		LPB	iP	00 58 00.7		0.8	6	7.8	
			i	59 06					
			iS	29					
DEC	31	PNS	eP	01 28 23.6		0.4	2		
			e	37					
		LPB	eP	01 28 39.5					
DEC	31	LPB	P	02 18 01	C	0.7	13	5.7	
			S	19 05.7					
		PNS	P	02 18 03		0.9	15		
DEC	31	USCGS	03 21 32.4, 17.4S, 172.0E, H = 52 Km, M = 4.9 NEW HEBRIDES IS REG						
		LPB	ePKP	03 40 08				111.7	
			eL	04 15					
DEC	31	PNS	eP	04 13 33.4				3.2	
				14 11.5					
				4 13 38.5		1.0	8		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	31	LPB	eP	05 04 19					
			i	05 00.5					
		PNS	eP	05 04 20.5				12.1	
			i	32.6					
			eS	06 36					
DEC	31	LPB	p	06 40 38.4		0.8	6		
		PNS	eP	06 40 42					
DEC	31	LPB	eP	10 17 20		0.8	4		
			i	52.2					
		PNS	eP	10 17 20					
DEC	31	USCGS	12 31 52.0, 25.5S, 70.4W, H = 33 Km, M = 4.4 NR CST OF N CHILE						
		LPB	eP	12 34 06				9.3	
			i <sup>pp</sup>	19.8					
			S	35 55					
		PNS	eP	12 34 08.7		0.4	2		
			e	22					
			SS	36 22					
DEC	31	PNS	eP	13 30 10.3		0.5	3		
			e	33.8					
		LPB	eP	13 30 12					
			e	38					
DEC	31	USCGS	15 30 29.6, 5.0N, 25.0W, H = 33 Km, M = 4.7 CENTRAL MID-ATLANTIC RIDGE						
		LPB	p	15 38 51.2		1.1	25	47.9	
			L	54					
		PNS	p	15 38 52.7		1.0	15		
DEC	31	USCGS	16 42 06.6, 25.6S, 70.8W, H = 33 Km, M = 4.5 NR CST OF N CHILE						
		LPB	eP	16 44 20				95	
			S	45 57					
		PNS	p	16 44 24.6		0.7	7		
			i	40.0					
			eL	47.7					
DEC	31	LPB	eP	17 03 43					
		PNS	eP	17 03 50					
DEC	31	PNS	p	18 52 06.0		2.0	70		
			i	55 19.7					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	31	LPB	eP	18 08 34					
		PNS	eP	18 08 36.7				5.6	
			S	09 40.3					
DEC	31	USCGS	18 23 03.9, 11.8S, 166.5E, H = 33 Km, SANTA CRUZ IS						
		LPB	P	18 38 28				119.8	
			ePKP	41 51.5					
			e	42 07.7					
			i	13.2					
			PP	43 05					
			PKS	45 26					
			SKS	48 52					
			PS	52 30					
			eSS	58 00					
		PNS	eP	18 38 30		0.6	3		
			PKP	41 51.9					
			i	14.0					
			PP	43 06.4					
			SKS	48 54					
DEC	31	USCGS	18 53 12.5, 11.6S, 165.9E, H = 33 Km, M = 5.0 SANTA CRUZ IS						
		PNS	ePKP	19 12 03					
			i(pPKP)	12.4					
		LPB	ePKP	19 12 06		1.0	8	112.9	
			i	33					
			PKS	15 34.5					
DEC	31	PNS	iP	19 41 31.7	D	0.4	9	2.8	
			S	42 04.8					
		LPB	iP	19 41 38		0.8	7		
DEC	31	USCGS	19 38 29.9, 11.6S, 166.0E, H = 33 Km, M = 5.1 SANTA CRUZ IS						
		LPB	ePKP	19 57 20				119.8	
		PNS	ePKP	19 57 20.8					
		CCH	ePKP	19 58 02.2					
DEC	31	USCGS	22 15 14.0, 11.3S, 164.8E, H = 33 Km, SANTA CRUZ IS						
		PNS	ePKP	22 34 05					
			pPKP	15.8					
			i	18.0					
			iPP	35 33.5					
		LPB	ePKP	22 34 06				120.6	
			PKP2	18					
			ePP	35 30.5					
		CCH	ePKP	22 34 14.6					
			i	21.6					

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MONTH	DAY	STA	PHASE	TIME	SIGN PER	AMPL	DIST
DEC	31	PNS	e <sup>p</sup>	22 44 24.4			
			i	43.7			
			i	45 12.4			
		L <sup>pb</sup>	e <sup>p</sup>	22 44 30			
			i	45 06.2			

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