

SEISMIC BULLETIN
OBSERVATORIO SAN CALIXTO.
LA PAZ - BOLIVIA
1 OCTOBER-31 DECEMBER.-1965

OBSERVATORIO

SAN CALIXTO

LA PAZ BOLIVIA

SEISMOLOGICAL BULLETIN

1 OCTOBER - 31 DECEMBER, 1965

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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
Penas	PNS	16° 16' 02" S	68° 28' 24" W	3986	Seismic array or seven short-period vertical Johnson-Matheson, To = 1.25 sec Tg = .337 sec	400,000 at 1 cps 500,000 at 1 cps
					SP Hor. Benioff, To = 1 sec, Tg = .2 sec LP, three components Sprengnether, To = 20 sec., Tg = 30 sec	
La Paz (WVNSS)	LPB	16° 31' 57.6" S	68° 05' 54.1" W	3292	SP vertical Benioff, To = 1. sec. Tg = .75 sec. To = 1.2 sec. Tg = .75 sec	50,000 at 25 sec 50,000 at 1 cps
					LP, three components Sprengnether To = 5 sec., Tg = 100 sec.	
La Paz (Colegio)	LPZ	16° 29' 43" S	68° 07' 57.7" W	3658	Wilson-Lamison, Sp vertical, To = 1.2 sec TG = 1. sec.	1,5000 at 30 sec.
					LP, three components, Galitzin-Wilip To = 12 sec., Tg = 12.6 sec	
Cochabamba	CCH	17° 24' S	66° 07' W	2500	Mainka, NS, To = 14 sec., EW, To = 12 sec. 180 and 300	1,000 at 12 sec.
					San Calixto Pendulum, NS, EW, To = 2.4 sec. 700	
					vertical Wilson-Lamison to = 3. sec	
					vertical Wilson-Lamison To = 1. sec.	
					vertical Wilson-Lamison To = 1. sec.	
					vertical Wilson-Lamison To = 1. sec.	
Desaguadero	DSG	16° 33' 34" S	69° 01' 30" W	3810	vertical Wilson-Lamison to = 3. sec	180 and 300
					vertical Wilson-Lamison To = 1. sec.	
Samaipata	SMB	18° 10' S	63° 51' W	1650	vertical Wilson-Lamison To = 1. sec.	180 and 300
					vertical Wilson-Lamison To = 1. sec.	
Sicasica	SCS	17° 17' 03" S	67° 48' 55" W	3900	vertical Wilson-Lamison To = 1. sec.	180 and 300
					vertical Wilson-Lamison To = 1. sec.	
Tarija	TRJ	21° 30' 47" S	64° 46' 34" W	2100	vertical Wilson-Lamison To = 3. sec.	180 and 300
					vertical Wilson-Lamison To = 3. sec.	

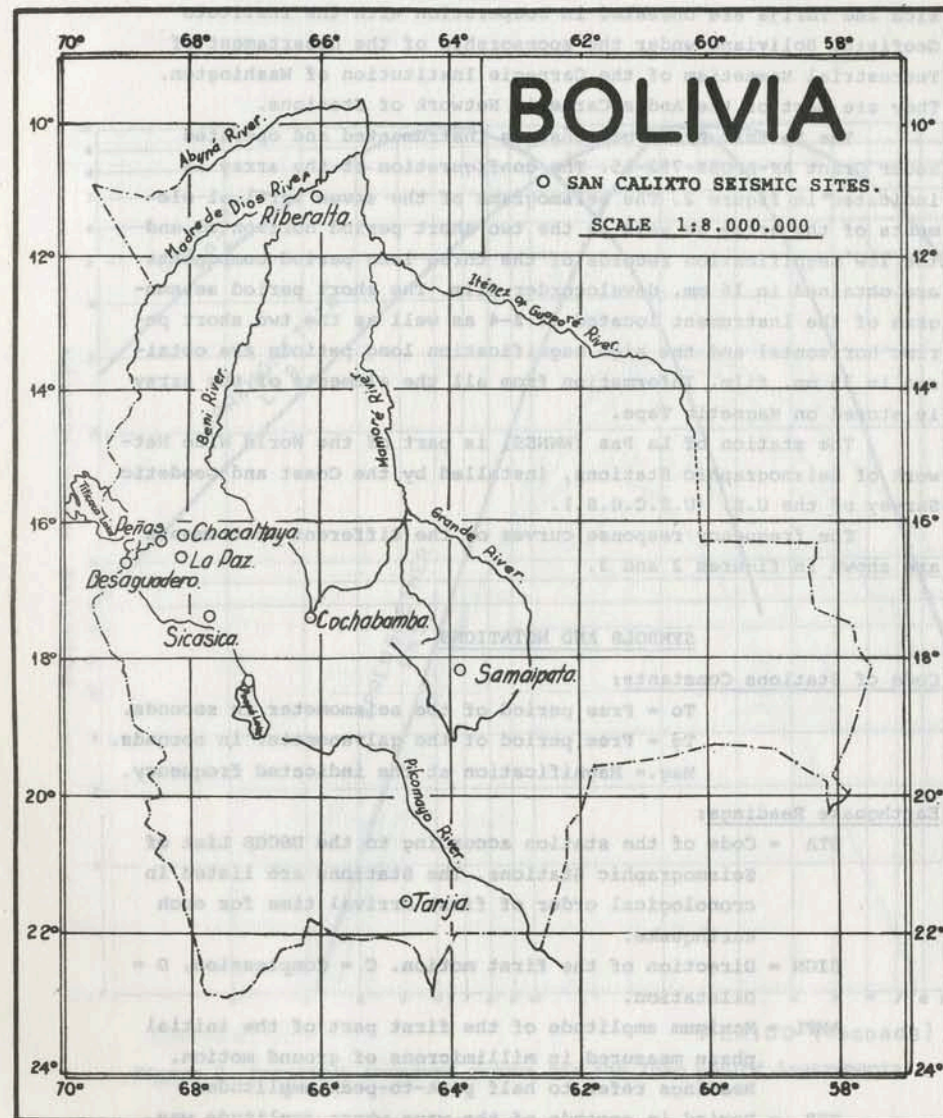


Fig.1.- LOCATION OF BOLIVIAN NETWORK OF SEISMIC STATIONS.

The stations of Cochabamba, Desaguadero, Samaipata, Sica-sica and Tarija are operated in cooperation with the Instituto Geofisico 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 Peñas 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. developorder film. The short period seismogram of the instrument located at 2-4 as well as the two short period horizontal and the high magnification long periods are obtained in 35 mm. film. Information from all the elements of the array is stored on Magnetic Tape.

The station of La Paz (WWNSS) 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 Isodiastematic Curves centered at La Paz.

Orientation of Horizontal Instruments:
 Station 141' from true north
 Station 231' from true north
 Elevation of 2-4 2450 m.

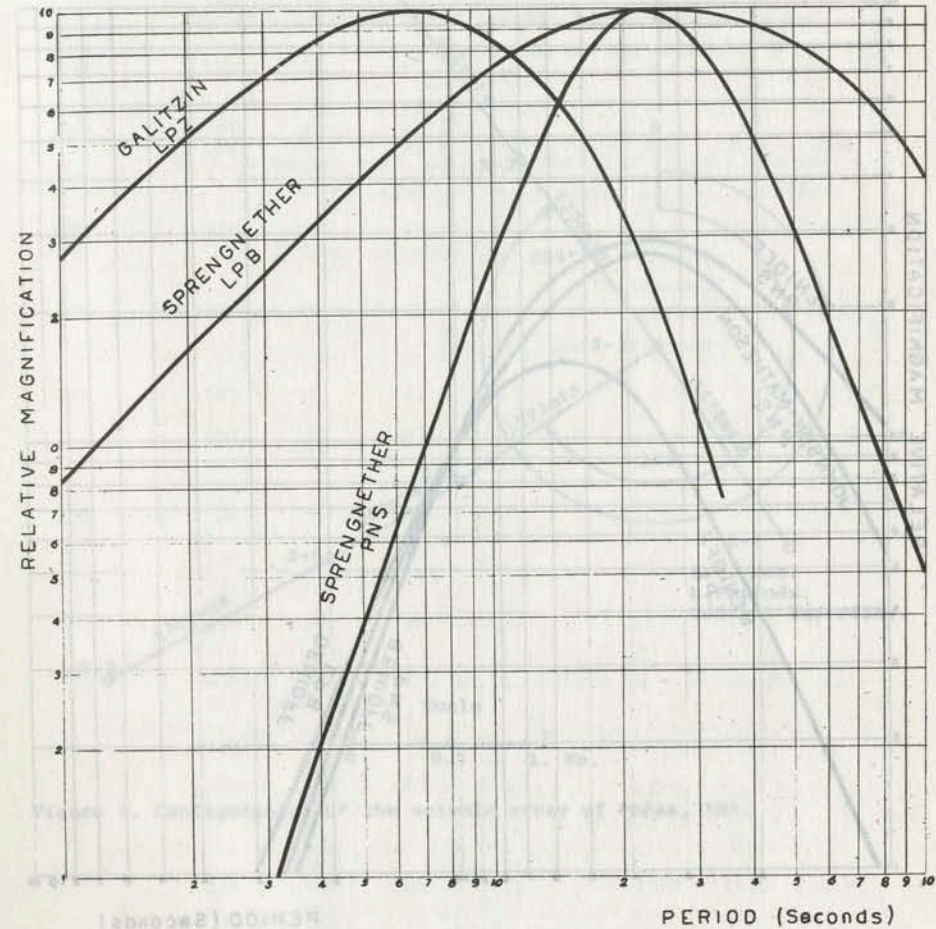


Figure 2. Frequency response curves for the long period instruments.

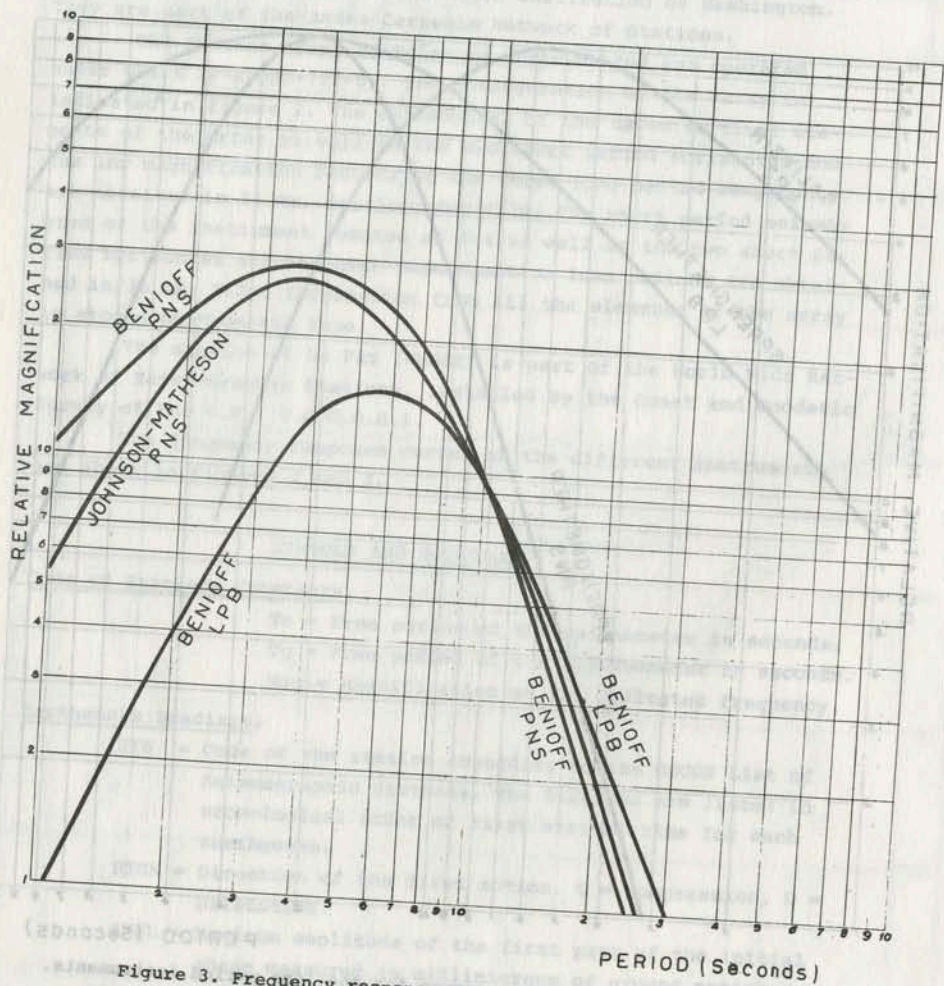


Figure 3. Frequency response curves for the short period instruments.

Orientation of Horizontal Instruments:
 Radial 141° from true north
 Transversal, 231° from true North.
 Elevation of Z-4, 3986 mts.

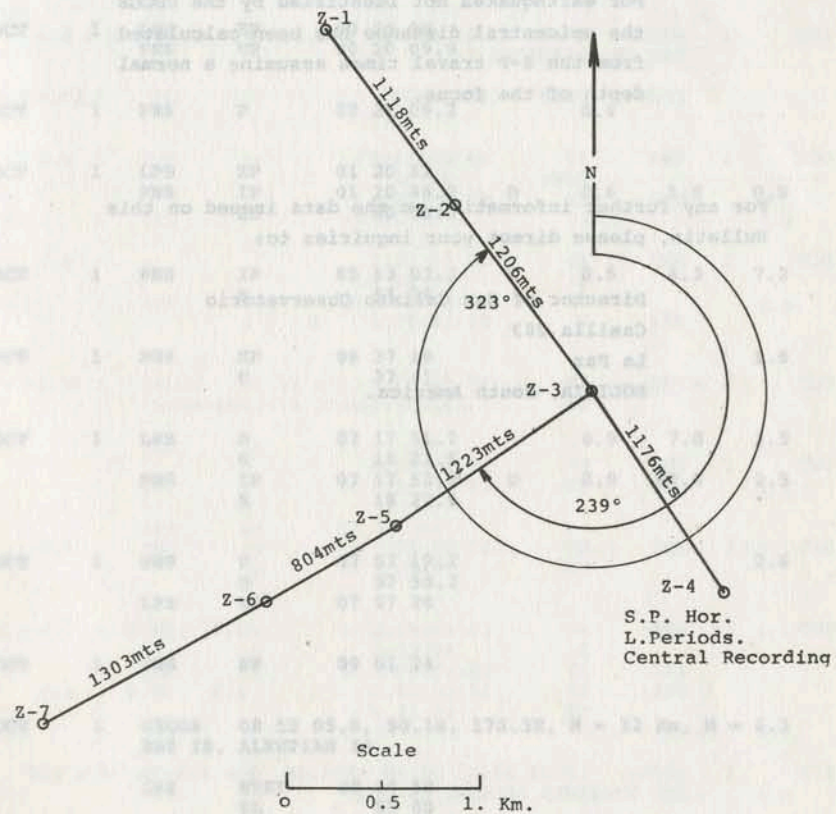


Figure 4. Configuration of the seismic array of Peñas, PNS.

For earthquakes not identified by the USCGS the epicentral distance has been calculated from the S-P travel times assuming a normal depth of the focus.

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

Director of San Calixto Observatorio
Casilla 283
La Paz
BOLIVIA, South America.

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	1	PNS	EP IS	00 17 07.5 17 17.8				0.7	
OCT	1	LPB PNS	EP EP	00 20 08 00 20 09.9					
OCT	1	PNS	P	00 22 09.2		0.4			
OCT	1	LPB PNS	EP IP ES	01 20 42 01 20 46.2 20 58.8	D	0.6	5.8	0.9	
OCT	1	PNS	IP S	05 53 03.7 54 26	C	0.5	4.3	7.2	
OCT	1	PNS	EP S	06 37 19 37 41				1.8	
OCT	1	LPB PNS	P S IP S	07 17 51.7 18 21.5 07 17 53.2 18 22.8	D	0.9	7.0 42.0	2.5 2.5	
OCT	1	PNS LPB	P S EP	07 57 19.2 57 50.7 07 57 20				2.6	
OCT	1	PNS	EP	09 01 24					
OCT	1	USCGS	08 52 05.8, 50.1N, 178.3E, H = 32 Km, M = 6.3 RAT IS, ALEUTIAN IS						
		LPZ	EPKP	09 10 50					
			EL	50 00					
		PNS	PKP	09 10 50.5		2.4			
			PP	12 06.7					
			E	14 12.6					
			PKS	14 26					
			PPP	14 35.4					
		LPB	PKP	09 10 51.2	C	1.1	41.0	117.9	
			EPP	12 07					
			EPKS	14 25					
			ESKS	17 47					
			PS	21 50					
			SS	28 08					
			L	49.8					
OCT	1	PNS	EP IP	09 21 11.8 21 15.0					
		LPB	P	09 21 13.5		1.0	12.0		
		LPZ	P	09 21 14					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	1	PNS	EP	09 22 39.7				
OCT	1	USCGS RAT IS, ALEUTIAN IS		09 09 43.0, 50.2N, 178.3E, H = 33 Km, M = 5.1				
		LPB	EPKP	09 28 34			117.9	
OCT	1	PNS	EP	09 32 12.2				
		LPB	E(S) EP	32 50 09 32 20			3.2	
OCT	1	PNS	EP	09 58 24.8				
		TRJ	I ES P	58 30.0 59 52.5 09 58 25.6			7.7	
OCT	1	PNS	EP	10 09 37.5				
			ES	10 11.5			2.8	
OCT	1	PNS	EP	10 12 23.6				
		LPB	EP	10 12 24				
OCT	1	PNS	EP	10 38 05				
			ES	38 39			2.8	
OCT	1	LPB	P	10 45 41.5				
		LPZ	S EP	46 10.5 10 45 42		0.7	27.0	2.4
		PNS	IP	10 45 42.3				
			IS	46 10.5	C	1.2	25.4	2.3
OCT	1	USCGS		13 22 28.5, 20.0S, 174.4E, H = 553 Km, M = 6.2				
		PNS	EP	13 36 03.5				
			PP	40 30				
			PPP	42 24.5				
		LPB	EP	13 36 06			108.9	
			S	47 27				
			SS	55 08				
		LPZ	EL	14 13 00				
			EL	14 13 00				
OCT	1	LPB	EP	14 52 11				
		PNS	P	14 52 14.3				
			S	53 23.0	D	1.3	26.4	6.0
OCT	1	PNS	P	16 40 48.7				
			S	41 24.5			3.0	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	1	PNS	P	17 02 13.9				
OCT	1	PNS	P IS	17 19 13.5 19 35.7	D	0.4	4.9	1.8
OCT	1	PNS	EP	18 14 32.5				
OCT	1	PNS	EP	18 42 40.6				
OCT	1	PNS	P S	19 04 56.6 05 30		0.6	3.2	2.8
OCT	1	PNS	EP	20 30 32.8				2.0
			S	30 57.7				
OCT	1	USCGS		22 18 09.2, 22.9S, 67.5W, H = 26 Km, M = 4.3				
				CHILE-BOLIVIA BORDER REGION				
		TRJ	IP	22 19 20.9	C			3.5
			S	20 01.7				
		LPB	P	22 19 57				6.3
			S	21 55				
		LPZ	EP	22 19 59				
		PNS	IP	22 20 00.0	C	0.2	20.4	10.1
			IS	21 54 4				
OCT	1	PNS	EP	22 24 34				4.1
			ES	25 22				
		LPB	EP	22 24 40				
OCT	1	LPB	P	22 27 01.5		1.0	50.0	2.9
			S	27 37				
		LPZ	EP	22 27 02				
		PNS	IP	22 27 05.5	C	0.9	54.3	3.0
			IS	27 42.0				
OCT	1	USCGS		22 34 25.5, 60.7S, 24.9W, H = 33 Km, M = 6.0				
				SOUTH SANDWICH ISLANDS REGION				
		TRJ	(IP)	22 43 04.1	C			53.0
		LPZ	EP	22 43 45				
			ES	51 09				
		LPB	P	22 43 46.0		1.1	130.0	53.9
			S	51 09				
			SS	55 16				
			L	23 01.2				
		PNS	P	22 43 48.7	C	2.0	382.5	55.0
			IPP	44 56.0				
			PP	45 51.7				
			I	48 57.3				
			IS	51 25.7				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	1	USCGS	22 39 04.0, 6.2S, 151.7E, H = 34 Km, M = 5.0					
		NEW BRITAIN REGION						
		PNS	EPKP	22 58 23.9				
		LPB	EL	23 44 00			108.1	
OCT	2	TRJ	IP	00 28 33.6	D			2.5
			S	29 04.0				
OCT	2	TRJ	P	00 38 49.1	D			
		LPZ	EP	00 39 20				
		LPB	P	00 39 22.0		0.8	12.0	
		PNS	EP	00 39 35		1.6	116.8	
			I	40 07.0				
			E	40 34.7				
OCT	2	PNS	EP	01 20 58				2.1
			S	21 24.5				
OCT	2	TRJ	IP	02 45 48.3	D			2.8
			S	46 21.2				
		LPB	IP	02 46 11.0	C	0.7	39.0	
		LPZ	EP	02 46 12				
		PNS	IP	02 46 15.0	C	0.5	72.5	4.7
			S	47 10.4				
OCT	2	PNS	IP	03 11 27.4	C	0.7	29.9	4.0
			IS	12 14.0				
		LPB	IP	03 11 32.7	D	0.7	65.0	3.5
			S	12 13.5				
		LPZ	P	03 11 33				
		TRJ	IP	03 12 38.4	C			
OCT	2	LPB	EP	06 17 04				3.2
		PNS	EP	06 17 10				
			IS	17 48.0				
OCT	2	LPB	EP	07 33 50				
		PNS	P	07 33 50.4	D	0.8	8.1	
OCT	2	PNS	EP	08 30 03.0				1.8
			S	30 25.4				
OCT	2	USCGS	08 31 54.0, 5.9S, 104.0E, H = 33 Km, M = 5.2					
		S. SUMATRA						
		TRJ	PKP	08 51 47.6	C			
		LPB	EPKP	08 51 50			156.4	
			EL	09 45 00				
		PNS	EPKP	08 51 58.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	2	PNS	EP	10 05 03.5				5.2
			S	06 04.0				
		LPB	EP	10 05 07				
OCT	2	PNS	EP	10 14 03				
		LPB	EP	10 14 04				
OCT	2	PNS	P	10 24 12.8		0.4		3.6
OCT	2	PNS	IP	10 31 03.5	C	0.5		5.9
			S	31 34.6				2.6
		LPB	EP	10 31 04				
		LPZ	EP	10 31 04				
OCT	2	PNS	EP	10 51 25				
OCT	2	PNS	EP	11 16 00				4.6
			S	16 54				
OCT	2	PNS	IP	12 08 36.6	C	0.5	26.5	3.4
			IS	09 16.4				
		LPB	EP	12 08 42				3.7
			ES	09 24				
		LPZ	EP	12 08 44				
OCT	2	USCGS	12 07 38.9, 31.4N, 141.5E, H = 44 Km, M = 4.7					
		SOUTH OF HONSHU, JAPAN						
		PNS	IPKP	12 27 26.0	D	1.4	68.6	
		LPB	EPKP	12 27 26				149.0
			EL	13 19 00				
OCT	2	PNS	EP	12 37 50.0				5.0
			S	38 48.6				
OCT	2	USCGS	14 27 13.0, 17.8S, 67.4W, H = 256 Km, M = 3.9					
		BOLIVIA						
		CCH	IP	14 27 46.4	C			2.7
			S	28 18.5				
		LPZ	IP	14 27 51				
		LPB	IP	14 27 52	C	0.7	71.0	1.6
			S	28 28				
		PNS	IP	14 27 56.0	C	0.6	108.3	3.3
			IS	28 34.6				
		TRJ	IP	14 28 07.7	C			3.1
			S	28 45.1				
OCT	2	PNS	EP	16 41 51.5				2.8
			ES	42 26				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	2	USCGS BOLIVIA	17 23	14.0, 17.6S, 67.1W, H = 282 Km, M = 3.8				
		CCH	IP	17 23 49.9	D			
		LPZ	P	17 23 54				
		LPB	IP	17 23 56.0	D	0.7	61.0	1.8
			S	24 31				
		PNS	IP	17 23 59.6	D			2.2
			IS	24 37.3				
		TRJ	IP	17 24 15.1	C			
OCT	2	PNS	P	18 50 26.9		0.4	3.5	
OCT	2	PNS	EP S	19 11 57 12 46.8				4.3
OCT	2	PNS	EP	22 28 10				
OCT	2	PNS	EP ES	23 45 24 45 42				1.4
OCT	3	PNS	P S P	02 02 02.4 03 17.6 02 02 53	D	0.7	23.8	6.6
OCT	3	PNS	IP S	02 19 20.3 19 42.7	C	0.4	4.4	1.8
OCT	3	PNS	P	02 53 14.4		0.6	3.2	
OCT	3	LPB PNS	EP P	03 54 10 03 54 13				
OCT	3	LPB PNS	P P (S)	04 36 39.0 04 36 39.1 38 00		1.5	50.2	7.1
OCT	3	PNS LPB	P P	04 38 37.1 04 38 39		0.6		
OCT	3	USCGS ATLANTIC INDIAN RISE	05 12	22.5, 38.2S, 48.4E, H = 20 Km, M = 555				
		PNS	P	05 26 12.6				
		LPB	EP EL	05 26 14 06 01 00				105.7
OCT	3	PNS	P	05 30 36.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	3	PNS	P ES	08 00 55.6 01 57.4				5.4
		LPB	EP	08 00 56				
		LPZ	EP	08 00 58				
OCT	3	LPB PNS	EP P	08 46 35 08 46 38.6				
OCT	3	PNS	P	10 23 13.6		0.5	3.1	
OCT	3	PNS	P	10 24 03.8				
OCT	3	PNS	EP	10 30 52.3				
OCT	3	USCGS FOX IS, ALEUTIAN IS.	10 46	16.7, 52.6N, 170.6W, H = 22 Km, M = 5.3				
		PNS	EPKP	11 04 51.8				
OCT	3	PNS	IP IS LPB LPZ	11 55 22.6 55 53.4 11 55 23 11 55 26	C	0.4	4.4	2.6
OCT	3	PNS	P	12 59 42.8		0.4	3.6	
OCT	3	TRJ	P	14 23 46.7	D			
OCT	3	PNS	EP S CCH	15 02 50 03 26.0 15 03 07.7				3.0
OCT	3	USCGS KURILE ISLANDS	14 45	26.8, 49.5N, 156.5E, H = 33 Km, M = 5.9				
		PNS	IPKP	15 04 37.8	C			
		LPB	IPKP	15 04 38.0	D	1.1	62.0	131.1
			PKS	08 03				
			EL	41 00				
		LPZ	PKP	15 04 38				
		TRJ	PKP	15 04 39.5				
			PKP2	04 48.7				
OCT	3	TRJ	IP S	15 56 57.5 57 28.6	C			2.6

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	3	USCGS	16 14	54.9, 42.9S, 75.4W, H = 28 Km, M = 6.0				
		OFF COAST OF SOUTH CHILE						
		TRJ	IP	16 20 00.8				
		CCH	(EP)	16 20 36.6				
		LPZ	IP	16 20 38				26.0
			ES	25 10				
		LPB	IP	16 20 38.8				
			PP	21 25.5				27.0
			S	25 24				
			EL	28.3				
		PNS	IP	16 20 40.3	D	1.7	548.3	26.5
			IPP	21 26.8				
			IPPP	21 39.0				
			IS	25 19.5				
			ISS	26 30.0				
OCT	3	PNS	P	18 12 42.3		0.5	4.7	3.6
			S	13 25.2				
OCT	3	LPB	EP	18 26 54				
		PNS	IP	18 26 56.0	C	0.7	7.5	
OCT	4	PNS	P	00 04 14.7	D	1.0	9.1	5.2
			ES	05 14.3				
		LPB	P	00 04 22.5				5.1
			S	05 21.5				
OCT	4	USCGS	00 13	25.8, 6.4S, 147.4E, H = 75 Km, M = 5.8				
		E. NEW GUINEA REGION						
		PNS	EPKP	00 32 35.5				
			PPKP	32 42.0				
			PP	35 31.0				
			PKS	36 18.0				
		LPB	PKP	00 32 36.5				137.7
			EPP	35 36.5				
			EPKS	36 18				
OCT	4	PNS	P	01 10 39.3				1.8
			ES	11 01.3				
OCT	4	PNS	EP	01 17 35.6				1.8
			S	17 57.5				
OCT	4	PNS	EP	01 39 04.5				
		LPB	EP	01 39 06				
OCT	4	LPB	EP	01 43 29				
		PNS	EP	01 43 34				
			E	46 14.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	4	LPB	EP	01 57 06				
OCT	4	PNS	IP	03 26 28.2	C	0.5	4.1	2.2
			IS	26 55.0				
OCT	4	USCGS	04 12	49.1, 44.0N, 128.3W, H = 33 Km, M = 5.1				
		OFF COAST OF OREGON						
		LPB	P	04 25 03.5		1.2	120.0	81.8
			EL	52 00				
		PNS	EP	04 25 05				
		CCH	P	04 25 14.1				
OCT	4	PNS	EP	04 46 04.5				2.2
			S	46 31.8				
OCT	4	TRJ	IP	05 03 50.9	C			2.5
			S	04 21.3				
		LPB	EP	05 04 21				
		PNS	P	05 04 27.1	D	1.0	9.0	1.9
			ES	04 50.0				
OCT	4	USCGS	06 23	04.5, 8.9N, 82.7W, H = 38 Km, M = 4.6				
		PANAMA-COSTA RICA BORDER REGION						
		LPB	EP	06 29 03				29.2
			S	34 05				
			L	40.2				
		PNS	P	06 29 05				
			PP	29 56.0				
			PPP	30 12.5				
		CCH	P	06 29 18.7				
		TRJ	P	06 29 54.0	C			
OCT	4	PNS	EP	07 58 29.5		0.5	5.1	1.9
			ES	58 52.5				
OCT	4	PNS	EP	08 52 29		0.5	4.1	1.9
			S	52 51.7				
OCT	4	PNS	EP	10 01 40.5				
OCT	4	PNS	EP	10 21 15.5				1.9
			S	21 40.0				
OCT	4	TRJ	P	10 24 00.5	C			
		PNS	EP	10 24 31				5.7
			ES	25 37.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	4	PNS	IP	11 10 37.5	D	1.0	75.0	2.1	
			IS	11 02.7					
		LPB	IP	11 10 37.7	D	1.0	75.0	2.1	
			S	11 02.5					
OCT	4	PNS	EP	12 32 39.2				3.4	
			ES	33 19.3					
		LPB	EP	12 32 51					
OCT	4	PNS	EP	12 54 02.5				3.5	
			ES	54 44.0					
OCT	4	PNS	P	13 42 45					
OCT	4	PNS	EP	14 17 53.5					
			P	14 18 15.9					
OCT	4	PNS	P	14 31 36.7	C	0.8	7.8		
OCT	4	TRJ	IP	16 32 04.3	C				
OCT	4	PNS	EP	16 35 18.4					
OCT	4	PNS	EP	17 15 21.6				6.5	
			S	16 35.8					
			LPB	17 15 22					
			S	16 42.2					
		LPZ	EP	17 15 30				7.0	
OCT	4	PNS	P	17 33 07.0		1.0	18.0	1.2	
			ES	33 22.0					
OCT	4	PNS	EP	17 54 50.5				3.1	
			ES	55 27.7					
OCT	4	TRJ	IP	18 33 14.7	C				
OCT	4	PNS	EP	20 40 03.4				2.0	
			S	40 27.4					
OCT	4	USCGS PERU	21 25	12.0, 10.8S, 74.7W, H = 33 Km, M = 4.2					
			PNS	EP	21 27 17.5				8.7
				S	28 55.6				
			LPZ	EP	21 27 36				
			LPB	EP	21 27 38				
				S	28 51				8.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	4	PNS	IP	22 37 55.0	C		0.4	7.0	
OCT	4	PNS	IP	22 56 41.8					
OCT	4	LPZ	IP	23 03 17.5	D		0.9	18.0	
			IP	23 03 17.8					
		LPB	S	03 40	D		0.6	79.5	
			IP	23 03 18.4					
		PNS	IS	03 40.0					
			EP	23 03 29.3					
OCT	4	PNS	P	23 36 29.0				1.9	
			S	36 52.0					
OCT	5	USCGS	00 17	10.5, 65.4N, 134.0W, H = 8 Km, M = 5.2					
		LPB	EP	00 30 28				95.3	
			EL	01 02 00					
			PNS	P					00 31 27.0
OCT	5	PNS	EP	00 44 03.4					
			EP	00 44 22					
OCT	5	USCGS	00 52	44.9, 5.8S, 130.5E, H = 86 Km, M = 5.7					
			BANDA SEA						
			TRJ	PKP	01 12 27.6	C			
				IPPKP	12 32.0	D			
			PNS	IPKP	01 12 31.0	C	1.5	52.7	
				IPPKP	12 36.8				
			LPB	PKP	01 12 31		1.0	10.0	151.0
				PPKP	12 37				
				PP	12 52.5				
				EL	02 03				
		LPZ	EPKP	01 12 32					
			PPKP	12 37.5					
			CCH	EPKP					01 12 37.8
OCT	5	PNS	IP	03 08 35.1	D	0.4	21.2	2.0	
			IS	08 59.0					
			LPB	EP					03 08 36
OCT	5	USCGS	03 41	30.0, 16.6S, 72.4W, H = 107 Km					
			NEAR COAST OF PERU						
			PNS	IP	03 42 30.0	C	0.3	48.1	3.7
				IS	43 14.0				
			LPB	P	03 42 34		1.1	11.0	4.0
				ES	43 16				
	LPZ	P	03 42 35						

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	5	USCGS	03 39	02.2, 36.0S, 72.5W, H = 33 Km, M = 5.2				
				NEAR COAST OF CENTRAL CHILE				
		TRJ	P	03 42 42.8	C			0.8
			P	42 53.6				
		LPZ	EP	03 43 24				
		LPB	EP	03 43 25				19.8
			S	46 58.5				
			EL	48.6				
		PNS	EP	03 43 25		0.7	42.0	19.0
			ES	46 55.4				
			E	47 33.0				
OCT	5	TRJ	P	03 47 28.1	D			
OCT	5	LPB	EP	03 56 29				
		PNS	P	03 56 47.2	C	0.5	5.3	
OCT	5	TRJ	EP	04 24 34.9				
OCT	5	TRJ	IP	04 36 24.0	D			0.6
			S	36 33.2				
OCT	5	PNS	P	05 00 34.2		0.6	3.2	
OCT	5	PNS	EP	05 54 13.6				1.8
			S	54 36.0				
OCT	5	PNS	P	07 10 31.0		0.4	2.1	
		LPB	EP	07 10 34				
OCT	5	LPB	EP	08 03 42				
		PNS	P	08 03 42.2		1.0	6.9	
OCT	5	USCGS	09 44	30.0, 9.3S, 67.2E, H = 33 Km, M = 5.1				
				MID-INDIAN RISE				
		PNS	EPKP	10 03 40				
		LPB	PKP	10 03 43.2		1.2	13.0	129.1
			EL	44 00				
OCT	5	PNS	P	11 14 45.1		0.2	7.4	1.9
			S	15 08.0				
OCT	5	PNS	E(P)	11 44 10				
OCT	5	PNS	EP	12 27 20.7				1.8
			IS	27 42.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	5	PNS	P	14 28 23.5		0.9	6.1	1.8
			S	28 45.5				
OCT	5	LPB	EP	14 46 30				2.6
		PNS	EP	14 46 31				
			ES	47 02				
OCT	5	PNS	E(P)	16 11 53				
OCT	5	PNS	EP	16 33 02				
OCT	5	PNS	IP	17 14 24.7	D	0.9	30.3	1.8
			IS	14 47.0				
		LPB	EP	17 14 27				
OCT	5	LPZ	EP	17 49 21				3.6
		LPB	P	17 49 21.3				
			ES	50 04.5				
		PNS	IP	17 49 25.8	C	0.5	16.0	
OCT	5	PNS	EP	18 12 22				4.1
			S	12 36				
OCT	5	PNS	IP	19 31 27.1	D	0.5	34.8	1.9
			IS	31 50.8				
		LPB	EP	19 31 29				
OCT	5	LPB	P	20 18 11.7		1.0	23.0	
OCT	5	PNS	IP	21 00 35.2	C	2.0	104.6	
OCT	5	PNS	IP	21 10 09.1	D	0.5	9.1	1.8
			S	10 31.4				
OCT	5	PNS	P	21 11 53.0		0.9	21.2	2.3
			ES	12 20				
OCT	5	USCGS	21 42	18.0, 21.8S, 174.5W, H = 52 Km, M = 4.3				
				TONGA ISLANDS				
		LPB	EP	21 55 17				98.2
			EL	22 28.1				
OCT	5	PNS	EP	22 42 35.8				2.9
			ES	43 11.1				
		LPB	EP	22 42 41				
OCT	5	LPB	EP	23 50 08				
		PNS	EP	23 50 10.9				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	6	PNS	EP	00 17 45					
OCT	6	PNS	P S	00 39 10.7 39 34.3		0.6	3.2	2.0	
OCT	6	PNS	EP E(S)	01 41 23 44 10				15.1	
		LPB	EP	01 41 33					
OCT	6	USCGS PERU		02 40 23.2, 9.8S, 74.9W, H = 122 Km, M = 4.4					
		PNS	EP ES	02 42 33.0 44 06		0.8	11.4	8.2	
		LPB	P	02 42 38.2					
		LPZ	EP	02 42 39		0.7	12.0	9.1	
OCT	6	LPB	EP	05 42 43					
		PNS	IP IS	05 42 43.4 43 06.0	D	0.4	10.1	1.9	
OCT	6	PNS	IP S	05 58 21.2 58 52.6	D	0.4	6.1	2.6	
		LPB	P S	05 58 21.4 58 54.5				2.8	
OCT	6	LPB	EP	06 08 37					
		PNS	EP ES	06 08 40 09 42.4				5.4	
		CCH	P	06 08 47.9					
OCT	6	USCGS		08 03 03.2, 29.2N, 96.1E, H = 27 Km, M = 5.4					
		INDIA-CHINA BORDER REGION							
		PNS	EPKP	08 23 09					
		LPB	EL	09 20 00				160.7	
OCT	6	CCH	EP	10 17 54.1					
		LPB	EP ES	10 18 18 19 11				4.6	
		PNS	EP S	10 18 32 19 21.8				4.3	
OCT	6	LPB	EP	10 45 15					
		PNS	EP	10 45 15		1.4	30.4		
OCT	6	PNS	P ES	16 30 15.6 31 05		0.9	5.9	4.2	
		LPB	EP	16 30 26					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	6	PNS LPB	EP EP	16 32 58.4 16 33 01					
OCT	6	PNS	P ES	16 47 07.8 47 43.7		1.0	12.6	3.0	
OCT	6	LPZ LPB PNS	EP P IP IS	17 07 28 17 07 28.5 17 07 28.7 07 53.9				2.0	
OCT	6	PNS	P	18 40 43.8		0.5	3.2		
OCT	6	PNS	EP	19 24 07					
OCT	7	PNS	EP ES	00 38 57.2 39 44.5				4.0	
OCT	7	USCGS		00 43 16.0, 27.6S, 66.2W, H = 73 Km, M = 4.3					
		CATAMARCA PROVINCE, ARGENTINA							
		LPB	P	00 45 53				10.8	
			EL	48 00					
		PNS	EP IS	00 45 58 47 21.7				7.4	
OCT	7	PNS	EP	00 52 57					
OCT	7	USCGS		01 09 07.2, 21.7S, 174.3W, H = 48 Km, M = 5.1					
		TONGA ISLANDS							
		LPB	EP EL	01 22 40 54 00				97.7	
OCT	7	PNS LPB	EP EP	02 44 55.5 02 44 56					
OCT	7	PNS	EP ES	02 56 49 57 40				4.4	
		LPB	P S	02 56 58 57 24		0.6	6.0	2.1	
OCT	7	PNS	EP	02 59 54.1					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	7	USCGS S. CHINA SEA	03 35	59.6, 12.6N, 114.5E, H = 17 Km, M = 5.9				
		LPB	PKP	03 56 12.5		1.0	38.0	175.1
			PKP2	57 49.5				
			ESKS	04 03 10				
			EL	55 00				
		LPZ	EPKP	03 56 13				
		PNS	PKP	03 56 13.1	C			
			IPKP2	57 50.5				
			PP	04 01 40.8				
			E	04 45				
OCT	7	PNS	EP	04 27 10				
		LPB	EP	04 27 15				
OCT	7	PNS	EP	04 30 05				4.4
			ES	30 55.7				
		LPB	EP	04 30 10				
OCT	7	PNS	P	04 37 22.8	C	0.4	2.2	
OCT	7	PNS	EP	05 06 37.4				
		LPB	EP	05 06 40				
OCT	7	USCGS REVILLA GIGEDO IS. REGION	05 17	54, 18.4N, 108.2W, H = 33 Km, M = 4.3				
		LPB	EP	05 27 07				52.0
		PNS	EP	05 27 15				
OCT	7	PNS	EP	06 46 21				
OCT	7	PNS	EP	07 58 23.3				
		LPB	EP	07 58 32				
OCT	7	USCGS MOLUCCA SEA	08 16	35.6, 1.8S, 126.6E, H = 47 Km, M = 4.8				
		PNS	EPKP	08 36 43				
		LPB	EPKP	08 36 43				156.7
			EL	09 31 00				
OCT	7	USCGS NEW HEBRIDES ISLANDS	09 19	21.5, 17.5S, 167.9E, H = 24 Km, M = 4.8				
		LPB	EPKP	09 38 05				
			EL	10 15 00				
OCT	7	PNS	EP	09 50 51				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	7	LPB	EP	10 34 19				
		PNS	P	10 34 21.7				
OCT	7	PNS	EP	13 19 24				
OCT	7	PNS	EP	16 39 40				
OCT	7	TRJ	IP	17 09 33.5	C			
		LPB	IP	17 10 02.0	C	1.0	18.0	
		LPZ	IP	17 10 03				
		PNS	IP	17 10 06.6	C			5.3
			S	11 07.7				
OCT	7	USCGS KERMADEC IS.	17 04	34.4, 31.4S, 177.5W, H = 33 Km, M = 4.8				
		LPB	EP	17 18 10				
			EL	50 00				
OCT	7	LPB	P	18 58 42.5				4.1
			S	59 31				
		PNS	IP	18 58 46.4	D	1.3	87.0	5.0
			ES	59 44.5				
OCT	7	PNS	P	19 11 02.6	D	1.6	75.4	2.8
			E(S)	11 37				
OCT	7	PNS	P	20 01 56.9				
OCT	7	PNS	P	20 16 56.8		0.5	3.2	
OCT	7	LPB	P	20 25 07		1.0	30.0	7.1
			S	26 28				
		PNS	IP	20 25 11.2	D	0.9	29.9	5.4
			ES	26 13				
OCT	7	PNS	EP	21 11 46				3.1
			ES	12 23.5				
OCT	7	PNS	IP	21 31 11.9	C	0.6	7.8	2.8
			ES	31 45.0				
OCT	7	PNS	EP	22 25 23.7				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	7	USCGS OFF COAST OF JALISCO, MEXICO	23 21 44, 19. N, 107.9W, H = 33 Km, M = 4.5					
		LPB	EP EL	23 30 59 45 00				47.0
OCT	7	PNS	P	23 34 02.5		0.5	3.7	
OCT	7	PNS	E(P) ES	23 53 10 54 02				4.5
OCT	8	PNS	P S	01 19 40.6 20 02.2		0.3	2.4	1.8
OCT	8	LPB PNS	EP EP S	01 46 33 01 46 33.7 46 59.7				2.1
OCT	8	PNS	P IS	02 36 38.6 37 01.2		0.7	3.7	1.9
OCT	8	USCGS SOLOMON ISLANDS	03 32 52.8, 7.1S, 154.9E, H = 85 Km, M = 5.1					
		LPB	EPKP EL	03 51.59 04 35.7				131.1
		PNS	EPKP PKS	03 51 59.5 55 22.5				
OCT	8	PNS	P S	05 11 47.6 12 12	D	0.6	4.5	2.0
OCT	8	PNS	EP	06 19 26.2				
OCT	8	PNS	IP S	07 24 36.3 24 58.4	D	0.8	18.6	1.8
OCT	8	USCGS BANDA SEA	07 26 30, 6.9S, 129.3E, H = 159 Km, M = 5.3					
		LPB	PKP PPKP EL	07 46 09 46 54 08 38 00		1.0	18.0	151.0
		PNS	PKP EPPKP	07 46 09.5 46 55		1.6	70.2	
		LPZ	EPKP	07 46 10				
OCT	8	PNS LPZ LPB	EP EP P	08 29 48.4 08 29 52 08 29 52.1	D	2.0 0.8	92.5 15.0	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	8	TRJ LPB PNS	P EP P ES	09 01 36.1 09 01 51 09 01 55.5 02 55.5	C		0.9 7.0	5.2
OCT	8	LPB PNS	EP EP	10 32 33 10 32 36.4				
OCT	8	PNS	P	10 42 04.3	C	1.8	40.3	
OCT	8	LPZ PNS LPB	EP EP EP	11 16 36 11 16 40.5 11 16 44				
OCT	8	PNS	EP ES	13 34 20 34 53.8				2.2
OCT	8	PNS	EP	13 36 06.6				
OCT	8	USCGS SW OF SUMATRA	15 21 05.4, 6.1S, 103.8E, H = 33 Km, M = 5.7					
		LPB	EPKP EL	15 41 42 16 34 00				155.6
		PNS	EPKP	15 41 43				
OCT	8	PNS	EP ES	16 35 25 36 02.6				3.1
OCT	8	USCGS ANDREANOF IS, ALEUTIAN IS.	16 32 31.8, 51.4N, 173.9W, H = 43 Km, M = 5.1					
		LPB	EPKP EL	16 51 09 17 25 00				111.9
OCT	8	PNS	P S	17 24 21.2 24 46.0				2.0
OCT	8	LPB PNS	EP EP ES E	20 03 04 20 03 05 03 53.7 04 23.3		1.4	34.4	4.2
OCT	8	PNS	IP IS	21 18 16.2 18 50	D	1.4	149.7	2.8
OCT	8	PNS LPB	P S EP	21 25 42.7 26 06.7 21 25 46	C	1.2	23.1	2.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	8	USCGS SOUTH OF FIJI ISLANDS		21 59 45.7, 25.7S, 176.5W, H = 33 Km, M = 5.6				
		LPB	EP	22 13 25				98.1
			EL	22 46 00				
		PNS	EP	22 13 26				
OCT	8	USCGS PERU		22 28 48.7, 8.3S, 76.0W, H = 141 Km, M = 5.2				
		PNS	P	22 31 20.6	C	1.0	9.2	9.7
			IPP	31 34.5				
			IS	33 10.0				
		LPB	EP	22 31 24.5				11.9
			PP	31 35				
		LPZ	P	22 31 26				
			PP	31 36				
		TRJ	P	22 31 39.9	C			
OCT	8	PNS	P	23 12 44.0	C	0.6	5.1	
OCT	8	TRJ LPB	P P	23 59 30.2 23 59 46.5	C			
			(S)	00 00 22.5		0.7	7.2	3.0
		PNS	IP	23 59 50.0	C	1.0	23.1	3.0
			S	00 00 26.0				
OCT	9	LPB	IP	00 58 40.5	D	0.8	21.0	3.4
			S	59 21				
		PNS	IP	00 58 42.3	D	0.7	18.0	3.8
			IS	59 27.0				
		LPZ	IP	00 58 42.5				
OCT	9	TRJ LPB	P IP	01 21 35.9 01 22 05.8	C D			
			(S)	23 06		0.5	3.9	5.2
		LPZ	EP	01 22 06				
		PNS	IP	01 22 09.8	C	0.5	62.0	3.4
			S	22 50.0				
			I	22 58.0				
OCT	9	TRJ	IP	03 45 53.3	C			2.5
			S	46 23.8				
OCT	9	PNS LPB	P EP	05 05 20 05 05 20		1.1	16.7	
OCT	9	PNS	EP	07 29 26.2				2.4
			S	29 55.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	9	USCGS OAXACA, MEXICO		07 47 19.3, 16.6N, 97.0W, H = 33 Km, M = 4.9				
		PNS	IP	07 55 13.3	C	1.1	25.9	
		LPB	P	07 55 19.5		1.2	130.0	43.2
			S	08 01 50				
			G	05 00				
			L	08.6				
OCT	9	TRJ LPB	P EP	09 00 49.6 09 01 42	D			
		PNS	P	09 01 48		0.6	9.9	
OCT	9	PNS	E(P)	11 28 10				
OCT	9	USCGS NEAR E. COAST OF HONSHU, JAPAN		13 23 44.4, 34.4N, 140.9E, H = 57 Km, M = 5.0				
		LPB	IPKP	13 43 25	D	1.0	40.0	148.5
			PPKP	43 38.0				
			EL	14 35 00				
		PNS	IPKP	13 43 27.3	D	1.3	92.3	
		LPZ	PKP	13 43 30				
OCT	9	PNS	IP	15 10 22.6	D	0.5	5.4	
OCT	9	USCGS BOUVET IS. REGION		16 00 26.0, 54.4S 7.1E, H = 33 Km, M = 5.0				
		LPB	P	16 11 22.2				67.9
			EL	33 00				
		LPZ	EP	16 11 24				
		PNS	P	16 11 25.3		2.5	1250.0	
OCT	9	PNS	P	16 28 46.2		1.0	21.4	1.0
			(S)	28 59.5				
		LPB	P	16 28 51				
OCT	9	PNS LPB	P EP	16 41 07 16 41 15		1.0	15.4	
OCT	9	USCGS N. COLOMBIA		16 49 44.0, 6.9N, 73.0W, H = 149 Km, M = 4.0				
		PNS	EP	16 54 40.8				
			EPP	55 13.7				
		LPB	EP	16 54 45				23.6
OCT	9	PNS	EP	17 54 12				8.1
			E(S)	55 44				
			E	56 04.6				
		LPB	EP	17 54 15				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	9	TRJ	IP	18 49 08.4	C			3.2
			S	49 46.2				
		PNS	P	18 50 10.5				
OCT	9	PNS	P	19 14 01.7				
OCT	9	PNS	EP	20 55 51.3				
OCT	9	CCH	IP	20 57 31.3	C			
		LPB	IP	20 58 06.8				
			S	58 36.5	0.8	32.0		
		PNS	IP	20 58 13.1	C	0.3	17.4	2.8
			IS	58 46.5				
	LPZ	IP	20 58 14					
OCT	9	USCGS	21 03	20.5, 7.4S, 127.9E, H = 135 Km, M = 5.2				
		BANDA SEA						
		LPB	EPKP	21 23 02				151.2
		PNS	PKP	21 23 02.5				
		LPZ	EPKP	21 23 03				
OCT	9	PNS	P	22 34 21.1		0.7	3.9	1.9
			IS	34 45.2				
OCT	10	USCGS	00 35	58.7, 51.9N, 175.3W, H = 42 Km, M = 5.4				
		ANDREANOF IS, ALEUTIAN IS.						
		LPB	EPKP	00 54 53				112.5
			EL	01 34 00				
OCT	10	TRJ	P	01 30 52.7	C			
		PNS	P	01 31 42.2				
					1.5	44.6		
OCT	10	TRJ	IP	01 34 00.8	C			2.6
			S	34 31.8				
OCT	10	USCGS	02 37	40.3, 1.7N, 127.3E, H = 140 Km, M = 5.6				
		HALMAHERA						
		PNS	EPKP	02 57 18				
			PPKP	58 02				
OCT	10	PNS	P	03 23 50.0		0.8	9.1	4.8
			S	24 45.8				
		LPB	P	03 23 54.8	D	1.0	28.0	4.0
		S	24 41.7					
		LPZ	P	03 24 00				
OCT	10	PNS	EP	03 41 19.4				1.8

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	10	PNS	P	05 42 05			0.4	2.3	
OCT	10	LPB	EP	05 57 15					
		PNS	EP	05 57 43.7					
OCT	10	PNS	IP	06 37 38.8			0.4	2.3	
OCT	10	PNS	EP	06 49 43					
			EP	06 49 50					
OCT	10	LPB	EP	06 56 03					
			PNS	EP					06 56 06
OCT	10	USCGS	06 57	12.4, 19.4S, 67.8W, H = 208 Km, M = 4.1					
		S. BOLIVIA							
		CCH	IP	06 57 58.2			D		
		LPZ	IP	06 58 00.8					
		LPB	IP	06 58 01.9	C	0.7	32.0	3.1	
			S	58 38					
		PNS	IP	06 58 05.2	C			3.	
			IS	58 45.0					
		TRJ	IP	06 58 08.3			D		
OCT	10	PNS	IP	08 56 50.6				2.0	
			S	57 14.8					
			P	08 56 52.7					
			S	57 32.5	D	0.8	28.0	3.4	
		LPZ	EP	08 56 59					
OCT	10	USCGS	10 21	00.7, 26.3N, 128.1E, H = 33 Km, M = 5.4					
			RYUKYU ISLAND						
			LPB	EPKP	10 41 05				162.0
		PNS	EPKP	10 41 05					
			PPKP	41 16					
OCT	10	CCH	IP	10 54 17.5			D		
OCT	10	LPB	EP	10 54 55				3.3	
			EP	10 55 01					
			S	55 40.0					
OCT	10	PNS	EP	11 21 58					
OCT	10	LPB	EP	12 03 54				3.5	
			EP	12 04 05.9					
			PNS	E(S)					04 47
OCT	10	PNS	EP	12 16 48				2.1	
			ES	17 13					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	10	TRJ	P S	12 52 35.1 53 05.1	C			2.5
OCT	10	TRJ	P S	13 02 14.5 03 03.3	D			4.2
		LPB	EP	13 02 42				
		PNS	EP	13 02 43.8				4.6
			E(S)	03 36.5				
OCT	10	PNS	EP ES	13 37 20 37 39.2				1.5
OCT	10	TRJ	EP	14 21 52.7	C			
OCT	10	PNS	EP	14 47 07				
OCT	10	PNS	EP S	15 06 37.7 06 59				1.7
OCT	10	PNS	IP S	15 12 41.6 13 03.6	D	0.6	18.5	1.8
OCT	10	LPB	EP	16 09 41				
		PNS	EP	16 09 48.5				
			E	11 01				
OCT	10	USCGS ECUADOR		16 46 11.5, 2.2S, 81.4W, H = 33 Km, M = 4.5				
		PNS	P	16 50 51.5				
		LPB	P	16 50 56		0.9	37.0	19.2
			EL	55.4				
		LPZ	EP	16 57 00				
OCT	10	USCGS		17 25 44.0, 59.1S, 24.8W, H = 55 Km, M = 5.7				
		S. SANDWICH ISLANDS REGION						
		CCH	EP	17 34 45.7	C			
		DSG	IP	17 34 56.8				
		LPB	IP	17 34 57.5	C	0.7	19.0	54.9
			PP	37 12				
			S	42 24.5				
			L	52.7				
		PNS	IP	17 35 00.6	C	1.5	431.5	55.0
			I	40 02.3				
			S	42 37.2				
		LPZ	P	17 35 04				52.0
			ES	42 25				
			EL	53				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	10	PNS	P ES	17 59 31.2 18 00 08.5			0.9	8.3
OCT	10	PNS	EP ES	19 28 03 29 35				8.1
		LPB	EP	19 28 03				
OCT	10	PNS	EP ES E	19 37 24.4 38 06.5 39 34.2				3.6
		LPZ	EP	19 37 30				
		LPB	EP (S)	19 37 30 38 53				7.3
OCT	11	USCGS		00 07 04.0, 3.6S, 77.4W, H = 146 Km, M = 4.0				
		PERU-ECUADOR BORDER REGION						
		PNS	EP	00 10 30				
		LPB	P	00 10 38.0				15.3
		LPZ	EP	00 10 40				
OCT	11	PNS	P E(S) E	00 19 55 20 20 20 38				2.1
OCT	11	LPB	EP IP ES	00 53 04 00 53 11.2 53 33.5	D			1.8
OCT	11	PNS	EP	01 10 13				
OCT	11	TRJ	P EP EP	02 14 57.0 02 15 21 02 15 26.6	D			
OCT	11	USCGS		02 34 22.0, 32.6S, 69.2W, H = 122 Km, M = 4.4				
		MENDOZA PROVINCE, ARGENTINA						
		TRJ	EP	02 34 16.0	D			
		CCH	EP	02 37 56.5	C			
		DSG	P	02 38 02.9				
		LPB	P	02 38 04	C	1.0	30.0	15.9
			EL	41.6				
		LPZ	EP	02 38 04				
		PNS	EP	02 38 05		0.8	20.1	12.6
			S	40 26				
OCT	11	PNS	EP	03 33 05				
OCT	11	TRJ	IP	04 09 49.3	D			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	11	USCGS NR C. OF N. CHILE		04 18 34.0, 22.8S, 70.1W, H = 37 Km, M = 4.4				
		LPB	P	04 20 14.2				6.4
			EL	21.6				
		LPZ	EP	04 20 15				
		CCH	P	04 20 15.2				
		PNS	P	04 20 15.4				4.8
			I	20 21.8				
			ES	21 10				
		DSG	P	04 20 17.5				
OCT	11	USCGS MINDANAO, PHILIPPINE ISLANDS		04 52 14.0, 8.1N, 126.8E, H = 91 Km, M = 5.3				
		PNS	EPKP	05 12 04				
		LPB	EPKP	05 12 05				163.4
OCT	11	LPB	EP	05 23 52				
		PNS	IP	05 23 54.5	D	0.6	32.4	1.9
			IS	24 18				
OCT	11	USCGS NEW BRITAIN REGION		08 21 00.0, 6.3S, 153.5E, H = 75 Km, M = 5.0				
		LPB	EPKP	08 40 07				132.8
			EL	09 23 00				
		PNS	EPKP	08 40 10				
OCT	11	PNS	EP	10 20 23.2		0.7	8.6	
		LPB	EP	10 20 29				
OCT	11	LPB	EP	10 27 11				
		PNS	EP	10 27 21				
OCT	11	DSG	EP	12 01 45.7				
OCT	11	PNS	EP	14 10 22				2.8
			ES	10 54.9				
		LPB	EP	14 10 30				
OCT	11	PNS	EP	19 42 13				
OCT	11	LPB	EP	20 25 28				
		PNS	EP	20 25 33.7				
OCT	11	USCGS PERU		20 41 04, 10.8S, 75.0W, H = 230 Km, M = 3.6				
		PNS	EP	20 43 20				7.1
			ES	44 40.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	11	USCGS KURILE ISLANDS		20 01 27.0, 44.4N, 149.6E, H = 33 Km, M = 5.0				
		LPB	EL	21 06 00				137.7
OCT	11	PNS	P	23 31 18.6		1.5	37.2	
OCT	12	LPB	P	00 24 06.5				
		PNS	P	00 24 11.0	C	0.4	2.7	
OCT	12	PNS	P	00 40 36				
OCT	12	LPB	EP	01 02 45				
		PNS	P	01 02 47	C	1.0	15.7	5.0
			S	03 44.7				
OCT	12	LPB	EP	04 11 34				
		PNS	EP	04 11 35				
OCT	12	USCGS NEAR COAST OF N. CHILE		04 11 55.0, 27.8S, 71.2W, H = 33 Km, M = 4.4				
		LPB	EP	04 14 45				11.4
		PNS	EP	04 14 45.3				
OCT	12	DSG	IP	04 29 43.9				
OCT	12	PNS	EP	05 31 38.3				1.8
			S	32 00.4				
OCT	12	PNS	P	06 07 10.0				3.7
			S	07 52.8				
		LPB	EP	06 07 15				
OCT	12	USCGS ANDREANOF Is, LEUTIAN ISLANDS		06 27 16.7, 52.2N, 174.8W, H = 17 Km, M = 5.1				
		PNS	EPKP	06 45 53				
		LPB	EPKP	06 46 00				113.1
OCT	12	LPB	P	06 47 22.2				
		PNS	EP	06 47 23.5		0.9	6.8	
OCT	12	PNS	EP	07 08 31.6				1.9
			IS	08 54.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST		
OCT	12	PNS	IP	10 15 32.5	D	0.4	70.1	1.8		
			IS	15 55.0						
		LPB	P	10 15 34.5					1.9	
			S	15 57.5						
OCT	12	PNS	EP	10 44 21						
OCT	12	USCGS NORTH ATLANTIC RIDGE	IP	10 43 08, 22.6N, 44.6W, H = 33 Km, M = 4.4						
			PNS	IP	10 51 24.0	D	1.0	18.0	15.5	
			LPB	EP	10 51 24					
				ES	58 10					
				EL	11 05 00					
				LPZ	EP	10 51 25				
OCT	12	PNS	EP	11 30 03.8						
OCT	12	DSG	P	11 38 17.8						
OCT	12	LPB	P	11 51 14		1.0	37.0	3.5		
			S	51 55						
		LPZ	EP	11 51 15						
			PNS	IP	11 51 16.2	D	0.5	6.2	3.8	
			S	52 00						
	CCH	EP	11 51 19.1	(C)						
OCT	12	DSG	IP	11 56 07.9	C					
			P	11 56 14						
		LPZ	EP	11 56 14						
			PNS	IP	11 56 15.1	C	0.5	16.6	3.0	
			S	56 50.5						
OCT	12	CCH	EP	12 53 51.4	D					
			P	12 54 03						
		LPB	S	54 47					3.8	
			PNS	IP	12 54 07.0	D	0.5	5.1	4.	
				S	54 55.3					
OCT	12	USCGS KODIAK IS. REGION	IP	13 40 55.9, 56.3N, 153.7W, H = 11 Km, M = 5.3						
			LPB	EPKP	14 00 08				129.6	
				EL	41 00					
			LPZ	EPKP	14 00 08					
				EL	41 00					
			PNS	EPKP	14 00 08					

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	12	USCGS NEAR COAST OF ECUADOR	IP	15 10 47.0, 1.4S, 80.9W, H = 33 Km, M = 4.4					
			PNS	EP	15 15 14.5				19.0
			ES	18 36.5					
		LPZ	EP	11 15 21					
			LPB	P	15 15 21.5	1.0		15.0	19.4
			ES	18 28					
	EL	21 00							
OCT	12	PNS	P	15 51 14.7		0.6	8.1	2.0	
			S	51 38.6					
OCT	12	PNS	P	17 35 12.8		0.5	3.6		
OCT	12	PNS	IP	18 35 12.5			10.4	1.8	
			S	35 35.0					
OCT	12	PNS	EP	18 52 51.4				6.3	
			S	54 03.2					
OCT	12	PNS DSG	EP	19 01 42					
			EP	19 02 10.8					
OCT	12	USCGS N. CELEBES	IP	18 55 57.0, 0.2N, 124.1E, H = 159 Km, M = 5.6					
			PNS	EPKP	19 15 27				
			PPKP	19 16 22.3					
OCT	12	PNS	P	19 23 20.6					
OCT	12	DSG	IP	20 38 15.1	C			7.0	
			S	39 35.1					
		PNS	IP	20 38 19.0	D	1.0	250.0	1.9	
			LPB	IP					20 38 21.0
				S					38 45
OCT	12	PNS	EP	20 45 24					
OCT	12	PNS	EP	22 42 34					
OCT	12	USCGS TALAUD Is.	IP	23 52 35.0, 2.1N, 125.3E, H = 229 Km, M = 5.0					
			LPB	EPKP	00 12 24				160.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	13	LPB	P	02 03 28.2				
		PNS	P	02 03 28.8		0.8	7.9	
OCT	13	PNS	IP	04 48 49.4	D	0.3	8.5	1.8
			IS	49 12.0				
OCT	13	PNS	P	04 59 43.0		0.8	4.4	
		LPB	EP	04 59 45				
		LPZ	EP	04 59 46				
OCT	13	LPB	EP	10 04 09				
		PNS	EP	10 04 10				
OCT	13	PNS	P	12 07 31.2				
			DSG	P	12 07 34.5			
OCT	13	USCGS 12 44 42.8, 6.1S, 149.9E, H = 54 Km, NEW BRITAIN REGION						
		LPB	EPKP	13 04 02			136.5	
			EL	14 01 00				
		PNS	PKP	13 04 02				
			PKS	07 22				
			E	07 52.7				
OCT	13	PNS	IP	13 49 34.8	D	0.8	9.6	1.2
			ES	49 50				
OCT	13	PNS	EP	14 38 30.4			8.5	
			I	38 58.0				
			E(S)	40 06				
			LPB	EP	14 38 34			
	DSG	P	14 38 46.4					
OCT	13	USCGS 14 46 25.0, 22.6S, 171.0E, H = 24 Km, M = 5.6 LOYALTY IS. REGION						
		LPB	EP	15 04 56			110.3	
OCT	13	PNS	EP	16 02 44.2				
			LPB	EP	16 02 45			
OCT	13	LPB	EP	16 44 10				
		PNS	EP	16 44 32				
		DSG	EP	16 44 55.1				
OCT	13	LPB	EP	19 10 32				
		PNS	IP	19 10 34.2	C	1.1	23.3	4.6
			S	11 27.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	13	PNS	EP	20 08 53.9				4.9
			S	09 50				
OCT	13	LPB	EP	20 44 05				
		PNS	P	20 44 07.5		0.7	20.2	4.4
		DSG	P	20 44 09.1				
OCT	13	PNS	EP	20 51 00				0.9
			S	51 15.5				
OCT	13	PNS	P	22 54 51.0				
OCT	13	SCS	P	23 42 46.5	C			
OCT	14	PNS	EP	00 35 36.7		0.7	5.2	8.8
			(S)	37 14.5				
OCT	14	LPB	EP	00 40 42				
		PNS	EP	00 40 44.5				3.9
		SCS	P	00 40 49.1	D			
OCT	14	PNS	EP	00 59 01.5				4.3
			S	59 51.8				
OCT	14	PNS	P	01 35 36.7		0.3	4.3	
OCT	14	PNS	P	02 41 08.4		0.8	10.5	
			LPB	EP	02 41 11			
OCT	14	USCGS 03 28 08.3, 32.3S, 71.7W, H = 39 Km, M = 5.0 NEAR COAST OF CENTRAL CHILE						
		SCS	EP	03 31 51.0				
		LPZ	P	03 31 52.5				
		LPB	EP	03 31 53				16.6
			I	31 57				
			SS	35 22				
			EL	37 00				
OCT	14	DSG	EP	03 31 54.4				
		PNS	P	03 31 55		1.2	26.5	12.5
			IS	34 12.7				
OCT	14	USCGS 04 56 19.0, 22.0S, 68.6W, H = 107 Km, M = 4.4 N. CHILE						
		SCS	P	04 57 35.0	D			
		LPB	EP	04 57 41				5.4
			I	58 16				
			S	58 32				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
		LPZ	EP	04 57 43				
		DSG	P	04 57 45.2				
		PNS	P	04 57 45.6		0.4	2.6	4.2
			S	58 35.0				
OCT	14	USCGS	08 02	13.8, 34.5N, 138.9E, H = 57 Km, M = 5.2				
				NEAR S.C. OF HONSHU, JAPAN				
		LPB	EPKP	08 21 56				149.9
			EL	09 14 00				
		PNS	PKP	08 21 57.6				
		LPZ	EPKP	08 22 00				
OCT	14	PNS	P	10 08 13.7				2.2
			S	08 39.5				
OCT	14	PNS	IP	12 08 52.3	D	0.5	17.3	1.9
			S	09 15.5				
OCT	14	PNS	IP	13 01 20.5	D	0.3	24.7	1.8
			S	01 43.2				
		LPB	EP	13 01 21				
OCT	14	PNS	EP	13 07 17.5				
OCT	14	PNS	P	14 12 36.1				
OCT	14	PNS	P	15 16 35.3				
OCT	14	CCH	IP	16 38 13.1	C			
OCT	14	PNS	IP	20 00 00.4	D	0.5	20.9	2.2
			S	00 27.3				
OCT	14	CCH	IP	21 57 18.7	C			
OCT	15	USCGS	00 34	09.3, 8.5N, 103.0W, H = 33 Km, M = 5.2				
				OFF COAST OF MEXICO				
		PNS	P	00 41 59.2				
		LPB	P	00 42 02.3		1.2	20.0	42.3
			I	42 09				
		LPZ	EP	00 42 06				
OCT	15	PNS	P	00 56 15.5		0.5	8.2	
		LPB	EP	00 56 16				
OCT	15	PNS	P	01 14 47.8				2.1
			S	13.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	15	PNS	P	03 21 47.8		0.5	3.3	1.9
			S	22 11.0				
OCT	15	PNS	IP	03 37 56.7	C	0.8	31.1	
		LPB	EP	03 37 57				
OCT	15	PNS	P	03 48 08		0.9	5.2	
		LPB	EP	03 48 13				
OCT	15	PNS	P	06 30 15.8	C	0.4	3.2	
OCT	15	PNS	P	07 53 17.6		0.6	5.9	
			I	53 51.9				
OCT	15	PNS	EP	09 10 42				1.4
			IS	10 59.9				
OCT	15	PNS	E(P)	10 02 02				
OCT	15	PNS	P	10 40 18.9				
OCT	15	PNS	IP	10 46 57.8	D			1.9
			IS	47 20.6				
OCT	15	PNS	P	12 55 16				
OCT	15	PNS	EP	13 22 52.4				
OCT	15	PNS	EP	13 23 45				3.2
			S	24 22.0				
OCT	15	PNS	P	14 28 16.8		0.5	3.3	
OCT	15	USCGS	14 18	39.8, 14.4N, 93.7E, H = 33 Km, M = 5.3				
				ANDAMAN IS. REGION				
		LPB	PKP	14 38 41.3		1.0	15.0	162.7
		PNS	PKP	14 38 42.1	D	1.5	48.4	
			I	39 30.2				
OCT	15	DSG	IP	16 41 53.1	D			
		LPB	EP	16 41 58				
		PNS	P	16 42 04.0		0.7	10.9	3.0
			S	42 40.0				
OCT	15	DSG	EP	16 51 42.0				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	15	PNS	P S	17 29 43.0 30 06.2		0.9	10.3	1.9
OCT	15	LPB	EP S	18 40 43 42 16.5				8.2
		PNS	EP S	18 40 54 42 22.8		0.8	12.8	7.8
OCT	15	DSG	EP	18 41 52.2				
OCT	15	PNS	EP	19 09 32.8		1.5	40.9	
OCT	15	LPB	EP S	19 21 32 21 55.3				1.9
		LPZ	EP	19 21 32				
		PNS	EP S	19 21 40.4 22 10.3				2.5
OCT	15	SCS	IP	19 42 19.1				
OCT	15	PNS	P	19 46 26				
OCT	15	PNS	P S	21 07 20.8 07 50.6		0.5	9.8	2.5
OCT	15	PNS	P	21 28 07		0.7	2.7	
OCT	15	PNS	EP S	22 02 54 03 41.2				4.0
OCT	16	PNS	P S	00 16 38.4 17 05.1	D	0.6	6.6	2.2
		LPB	EP	00 16 40				
OCT	16	DSG	EP	01 07 58.4				
OCT	16	PNS	EP	02 53 38.5				
OCT	16	PNS	EP	04 56 01.3				
OCT	16	LPB	EP	06 06 17				
		PNS	P S	06 06 27 06 51.3		0.5	2.2	2.0
OCT	16	PNS	EP	06 31 36.1				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	16	PNS	EP (S)	06 44 33 45 03				2.5
		LPB	EP S	06 44 40 45 43.5				5.5
OCT	16	PNS	P	07 59 55.4		0.4	2.7	
OCT	16	USCGS N. OF HALMAHERA	08 22 56.1, 3.1N, 128.5E, H = 213 Km, M = 5.7					
		LPB	PKP PPKP	08 42 32.5 43 11.2		1.2	33.0	158.4
		LPZ	PKP PPKP	08 42 32.5 43 11				
		PNS	PKP I PPKP	08 42 33 42 45.3 43 10.8				
OCT	16	LPZ	EP EP IP IS	09 34 12 09 34 13 09 34 14.2 34 38.8	D	0.4	9.6	2.0
OCT	16	PNS	EP	10 27 24.2				
OCT	16	USCGS NEW BRITAIN REGION	11 00 41.4, 6.2S, 149.0E, H = 56 Km, M = 4.9					
		LPB	EPKP EL	11 20 00 12 06 00				137.3
		LPZ	EPKP	11 20 01				
		PNS	EPKP PKS	11 20 01.2 23 35				
OCT	16	PNS	P S	12 00 24.8 01 22		1.0	11.9	5.0
OCT	16	USCGS COSTA RICA	14 22 55.5, 9.0N, 83.5W, H = 50 Km, M = 5.0					
		PNS	P	14 28 53.8		1.8	67.3	
		LPB	EP S EL	14 28 57 33 57 37.4				38.7
		LPZ	EP	14 28 58				
OCT	16	PNS	P S	14 39 53.7 40 07.5				1.1
OCT	16	PNS	EP E	15 20 33 21 05.7				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	16	PNS	EP	15 40 50					
OCT	16	PNS	EP	16 30 39.1				3.7	
			S	31 23.2					
OCT	16	PNS	EP	16 37 55					
OCT	16	PNS	P	19 32 31.9		0.4	4.6	2.5	
			S	33 02.1					
OCT	16	PNS	IP	19 37 52.3	C	0.5	7.7	1.9	
			S	38 15.5					
OCT	16	USCGS BURMA		19 33 25.0, 17.5N, 94.7E, H = 33 Km, M = 5.4					
		PNS	PKP	19 53 29.0					
		LPZ	EPKP	19 53 29					
		LPB	EPKP	19 53 29				163.8	
			ESS	20 19 13					
			EL	48 00					
OCT	16	USCGS		20 32 27, 30.7N, 140.9E, H = 133 Km, M = 4.0					
				S. OF HONSHU, JAPAN					
		PNS	PKP	20 52 00.5					
		LPB	EPKP	20 52 08				151.0	
			EL	21 44 00					
OCT	16	USCGS		22 05 03.9, 24.5S, 67.6W, H = 83 Km, M = 4.1					
				CHILE-ARGENTINA BORDER REGION					
		SCS	P	22 06 52.9	D				
		LPZ	EP	22 07 00					
			(PN)	07 24					
		LPB	EP	22 07 01				8.1	
			(PN)	07 24					
			EL	09.8					
		DSG	IP	22 07 01.8	C				
		PNS	IP	22 07 05.3	C	0.9	55.9	1.8	
			S	08 28					
OCT	16	USCGS		22 14 15.3, 15.1S, 173.5W, H = 45 Km, M = 5.3					
				TONGA ISLANDS					
		LPB	EL	23 07 00				111.6	
OCT	16	DSG	EP	23 17 41.0					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	16	DSG	IP	23 30 35.3					
		PNS	IP	23 30 42.5	D			2.1	
			S	31 08.0					
		LPB	EP	23 30 44				2.1	
			S	31 09.3					
OCT	17	DSG	IP	00 45 22.2	C				
		PNS	IP	00 45 33.3	C	0.7	28.9	2.8	
			S	46 06					
		LPB	IP	00 45 37.0	D	1.0	110.0		
		LPZ	P	00 45 38					
		SCS	IP	00 45 40.2	C				
OCT	17	PNS	P	01 16 59.0		1.3	18.0		
OCT	17	USCGS		01 47 42.0, 30.2S, 69.3W, H = 15 Km, M = 4.8					
				CHILE-ARGENTINA BORDER REGION					
		LPZ	EP	01 50 02					
		LPB	EP	01 50 56				13.5	
			EL	55 00					
		PNS	P	01 51 04		1.3	14.0	12.6	
			S	53 24					
OCT	17	USCGS		01 53 42.7, 8.0S, 155.9E, H = 93 Km, M = 5.5					
				SOLOMON ISLANDS					
		LPB	EPKP	02 12 45		1.0	25.0	130.4	
			ESS	32 44					
			EL	54.5					
		LPZ	EPKP	02 12 45					
			EL	55 00					
		PNS	EPKP	02 12 45		0.9	32.3		
			PKS	16 12.4					
OCT	17	LPB	EP	02 25 08					
		PNS	F(P)	02 25 20					
			E	25 57.6					
OCT	17	USCGS		03 55 15.4, 15.7S, 173.8W, H = 51 Km, M = 5.5					
				TONGA ISLANDS					
		LPB	EP	04 08 09				99.9	
			EL	43 00					
		PNS	EP	04 08 47					
OCT	17	LPB	IP	04 20 04.9		0.8	23.0	4.8	
			S	21 00					
		DSG	P	04 20 06.2					
		PNS	IP	04 20 09.1	C	0.4	8.9	5.0	
			S	21 07.6					

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OCTOBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	17	USCGS KAMCHATKA	04 28 29	51.2N, 156.9E, H = 65 Km, M = 4.9				
		LPZ	P	04 50 02				
		PNS	P	04 50 02.5		1.7	134.1	
			I	50 14.6				
			E	50 33.4				
		LPB	(P)	04 50 02.5		1.5	72.0	130.7
			E	05 06 22				
			EL	30 00				
OCT	17	PNS	P	05 52 04.4		0.4	4.5	
OCT	17	PNS	EP	07 28 35.7				
OCT	17	DSG PNS	EP P	08 36 52.3 08 36 58.8	C	0.8	12.5	5.6
			S	38 03.3				
		LPZ	EP	08 37 02				
		LPB	(P)	08 37 03				
		SCS	P	08 37 09.8	D			
OCT	17	USCGS S. CALIFORNIA	09 45 17.2, 33.9N, 116.9W, H = 16 Km, M = 5.0					
		PNS	EP	09 56 13.4				
OCT	17	PNS	EP IS	10 34 41.5 35 03.2				1.8
OCT	17	USCGS N. COLOMBIA	10 41 17.8, 7.2N, 73.5W, H = 121 Km, M = 4.3					
		PNS	P	10 46 14.4		0.6	6.4	23.0
			S	50 20				
			SS	51 32.6				
			SSS	51 52.2				
		LPB	EP	10 46 17				24.6
			S	50 19.5				
			EL	53 00				
OCT	17	PNS	EP	11 05 15.2				
OCT	17	PNS	EP	11 31 58.3				
OCT	17	PNS	EP	12 20 50				
OCT	17	PNS	P S	13 44 50.8 45 10.3		0.6	6.4	1.5

OCTOBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	17	USCGS S. PERU	14 09 06.6, 15.2S, 72.5W, H = 105 Km, M = 4.4					
		DSG	EP	14 10 11.3				2.4
			S	10 40.0				
		PNS	IP	14 10 16.4	C	0.7	33.0	4.5
			S	11 08.4				
		LPB	IP	14 10 22.0		1.0	37.0	4.4
			S	10 55				
		LPZ	IP	14 10 22.0				
		SCS	P	14 10 27.2				
OCT	17	PNS	P	15 21 01.4		0.6	4.5	
OCT	17	PNS	EP	16 35 20.3				
OCT	17	PNS	EP S	16 49 21 49 40				1.5
OCT	17	PNS	IP S	17 41 22.8 41 47.5	D	0.5	5.9	2.1
OCT	17	PNS	P	17 59 49.7		0.8	8.0	
OCT	17	USCGS S. OF HONSHU, JAPAN	17 48 37, 33.9N, 138.8E, H = 33 Km, M = 4.6					
		PNS	EPKP	18 08 28.5		1.8	55.6	
		LPZ	EPKP	18 08 29				
		LPB	EPKP	18 08 29				150.2
OCT	17	PNS	EP S	18 20 19.4 20 48.1				2.4
OCT	17	PNS	EP	19 52 29.7				
OCT	17	PNS	IP IS	21 15 04.7 15 28.6	C			2.0
		LPB	EP S	21 15 07 15 34.5				2.3
OCT	17	PNS	E(P) S	22 15 30 16 04.7				3.0
OCT	18	USCGS CATAMARCA PROVINCE, ARGENTINA	00 55 31.0, 27.8S, 66.5W, H = 151 Km, M = 4.4					
		LPB	EP	00 58 12				11.6
		PNS	P	00 58 15.7		1.0	10.5	10.9
			S	01 00 17.3				

OCTOBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	SCS	IP	02 50 37.9	D			
		CCH	EP	02 50 43.6				
		DSG	EP	02 50 45.6				
		LPB	P	02 50 46.2		1.0	70.0	
			S	51 38				
		LPZ	P	02 50 47				
	PNS	IP	02 50 50.0	D	1.0	40.9	4.2	
		S	51 39.2					
OCT	18	USCGS		02 39 40.2, 7.5S, 128.5E, H = 168 Km, M = 5.3				
				BANDA SEA				
		DSG	EPKP	02 59 09.4	C			
		LPB	PKP	02 59 11		1.0	27.0	150.8
			I	59 17.8				
		LPZ	PKP	02 59 12				
			I	59 18				
		PNS	EPKP	02 59 12		1.9	83.4	
			I	59 18.2				
			PPKP	59 52				
		SCS	PKP	02 59 15.5	D			
CCH	IPKP	02 59 17.4	C					
OCT	18	PNS	EP	04 21 48.8				1.6
			(S)	22 09				
OCT	18	USCGS		04 58 00.6, 1.4N, 85.3W, H = 21 Km, M = 4.7				
				OFF COAST OF ECUADOR				
		PNS	P	05 03 17.7		1.7	233.6	
		LPB	EP	05 03 18				22.5
			ES	05 47				
			EL	09 00				
LPZ	EP	05 03 18.5						
OCT	18	PNS	P	05 06 52.6		0.7	3.8	
OCT	18	USCGS		05 24 43.4, 1.6N, 85.1W, H = 48 Km, M = 4.5				
				OFF COAST OF ECUADOR				
		PNS	P	05 29 55		2.0	151.8	27.0
			S	33 29.9				
		LPB	P	05 29 59.2		1.0	20.0	22.2
			EL	36 00				
LPZ	P	05 30 00						
OCT	18	PNS	EP	06 40 25.3				
OCT	18	LPB	EP	07 16 24				
		PNS	EP	07 16 25.4				
OCT	18	PNS	P	08 04 26.6		0.4	3.6	2.7
			IS	04 59.1				

OCTOBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	PNS	P	09 58 14.5		0.9	5.1	
OCT	18	USCGS		10 02 18.1, 4.5S, 133.0E, H = 33 Km, M = 5.1				
				W. NEW GUINEA REGION				
		LPB	EPKP	10 22 11				150.2
		EL	11 13 00					
		PNS	PKP	10 22 12.1		1.8	91.4	
OCT	18	DSG	P	10 37 53				
		PNS	P	10 38 11.7		1.5	73.2	
		LPB	EP	10 38 13				
OCT	18	USCGS		10 21 47.5, 42.0N, 77.7E, H = 33 Km, M = 5.1				
				KIRGIZ - SINKIANG BORDER REGION				
		LPB	EPKP	10 41 10				140.4
			EL	11 29 00				
		PNS	EPKP	10 41 19.5				
OCT	18	PNS	EP	11 51 15.5				3.3
			(S)	51 54.7				
OCT	18	PNS	P	12 37 18.6		0.9	14.2	
OCT	18	USCGS		12 57 14.7, 19.2S, 69.5W, H = 180 Km, M = 4.5				
				N. CHILE				
		SCS	IP	12 57 56.5	D			
		LPB	EP	12 58 04				3.2
			ES	58 37				
		CCH	EP	12 58 05.3				
	PNS	IP	12 58 07.8	D	1.0	32.7	1.8	
		S	58 30					
OCT	18	PNS	EP	13 18 33.1				1.9
			S	18 56				
OCT	18	PNS	E(P)	13 30 51				
OCT	18	PNS	EP	13 32 22.1		0.7	3.8	
OCT	18	USCGS		16 17 40.6, 1.5N, 85.3W, H = 33 Km, M = 4.7				
				OFF COAST OF ECUADOR				
		PNS	P	16 22 54.5		1.6	83.4	8.7
			S	24 32.5				
		LPZ	EP	16 23 00				
		LPB	EP	16 23 01				

OCTOBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	18	PNS	EP S	16 48 24 49 06		0.9	18.3	3.6
OCT	18	PNS	IP S	17 57 22.2 58 02.7	C	1.2	32.3	3.4
OCT	18	PNS	EP S	19 15 52.8 16 15.7				1.9
OCT	18	PNS	EP S	19 20 22.5 20 37.7				1.2
OCT	18	USCGS	20 54	30.0, 6.2S, 147.0E, H = 93 Km, M = 5.2				
		LPB	EL	22 00 00				138.5
OCT	18	USCGS	21 50	04.5, 1.1S, 127.9E, H = 33 Km, M = 5.9				
		PNS	EPKP PP	22 10 07 14 03.8				
		LPZ	EPKP FL	22 10 07 23 04 00				
		LPB	EPKP ESKS SS L	22 10 07 17 16 33 28 23 04.7				156.2
		SCS	EPKP	22 10 20.0				
OCT	18	USCGS	22 48	37.0, 18.6N, 61.1W, H = 33 Km, M = 5.3				
		LEEWARD IS.						
		PNS	EP	22 55 30.3				
		LPB	EP	22 55 33				35.8
OCT	18	USCGS	22 50	41.9, 15.7N, 95.4W, H = 36 Km, M = 5.3				
		NEAR COAST OF OAXACA, MEXICO						
		PNS	EP	22 58 28.5				
OCT	18	USCGS	23 01	11.9 S, 127.8E, H = 33 Km				
		HALMAHERA						
		PNS	EPKP	23 20 52				
		LPB	EPKP EL	23 20 59 00 13 00				150.5
OCT	19	PNS	IP S	00 20 26.1 20 45.2	C	0.6	5.9	7.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	19	PNS LPB	P P	01 43 57.7 01 44 02				
OCT	19	USCGS	02 02	54.6, 8.5S, 74.4W, H = 114 Km, M = 4.2				
		PERU-BRAZIL BORDER REGION						
		PNS	P S	02 05 14 06 54.4				8.9
		LPB	EP EL	02 05 17 07 00				9.9
		LPZ	EP	02 05 18				
OCT	19	PNS	EP	02 29 39.4		0.7	4.6	
OCT	19	PNS	EP	04 29 49				
OCT	19	PNS	EP	04 47 18.7				
OCT	19	USCGS	05 12	38, 18.9N, 101.3W, H = 140 Km, M = 4.7				
		GUERRERO, MEXICO						
		PNS	P EP	05 21 03.1 05 21 05		2.4	786.1	
		LPZ	P	05 21 06		1.0	20.0	48.2
		LPB	EL	35 00				
OCT	19	PNS	P	06 25 07.0		2.0	41.3	
OCT	19	PNS	EP	06 59 54.4				
OCT	19	PNS	EP S	09 09 51 10 25				2.9
OCT	19	PNS	P	09 48 47.3		1.9	61.8	
OCT	19	PNS	P	12 20 06		0.4	2.7	
OCT	19	PNS	E(P)	13 22 11.5				
OCT	19	PNS	P	13 29 10.6		0.8	7.2	
OCT	19	PNS	EP EP	13 57 43 13 57 44				
OCT	19	PNS	EP I S	14 12 32.5 12 35.2 13 24.8				4.5
		LPZ	EP	14 13 41				
		LPB	EP	14 13 43				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	19	USCGS HALMAHERA	14 16 58, 1.5S, 127.4E, H = 33 Km, M = 5.5					
		PNS	EPKP	14 37 06				
		LPB	EPKP	14 37 07				156.2
			EL	15 31 00				
OCT	19	CCH	EP	15 01 17.5				
OCT	19	PNS	P	15 12 09.2				
OCT	19	PNS	EP S	15 20 03 20 20				7.3
OCT	19	PNS	P S	15 46 11.5 46 41		0.9	7.2	2.4
OCT	19	PNS	EP	17 01 51.8				
OCT	19	PNS	E(P)	19 00 52				
OCT	19	PNS	EP	20 11 51.6				
OCT	19	USCGS NR IS, ALEUTIAN IS.	20 48 47.4, 52.3N, 174.3E, H = 48 Km, M = 5.6					
		PNS	EPKP	21 07 22				
		LPB	EPKP	21 07 32				112.9
			ESS	23 28				
			EL	42 00				
		LPZ	EPKP	21 07 32				
OCT	19	USCGS N. COLOMBIA	23 22 55, 6.8N, 75.0W, H = 161 Km, M = 4.2					
		PNS	EP PP	23 27 51 28 25.3		1.0	10.6	
		LPB	EP	23 27 53				23.3
OCT	19	PNS	EP	23 39 50				
OCT	19	USCGS N E I. CORDILLERA	23 32 44, 13.4S, 112.4W, H = 33 Km, M = 4.4					
		PNS	P	23 40 36.4		1.6	88.4	
		LPB	EP	23 40 39				42.5
			EL	50 00				
		LPZ	EP	23 40 40				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	20	USCGS NEAR COAST OF NICARAGUA	23 54 29.9, 12.5N, 87.4W, H = 70 Km, M = 5.4					
		PNS	IP	00 01 10.9	C		1.1	38.3
			S	06 34.5				34.0
		LPZ	EP	00 01 13				
			S	06 38				
			EL	11.4				
		LPB	P	00 01 13.8		0.9	34.0	34.7
			S	06 33				
			G	10.8				
			L	11.0				
OCT	20	PNS	P S	01 37 32.5 38 02.5				2.5
OCT	20	LPB	EP	03 16 05				
		PNS	EP	03 16 15.5				
OCT	20	PNS	EP	03 22 36				
OCT	20	LPB	EP	05 10 10				
		PNS	EP	05 10 13.2				
OCT	20	PNS	EP	09 20 41				
OCT	20	USCGS E. IS. CORDILLERA	09 29 59, 20. S, 113.2W, H = 23 Km, M = 4.9					
		PNS	EP	09 37 55.2		2.0	221.0	
		LPZ	EP	09 37 58				
			EL	50 00				
		LPB	P	09 37 58.3		1.1	180.0	42.5
			S	44 41				
			G	47.7				
			L	50.3				
OCT	20	PNS	P S	10 28 04.7 28 30		0.5	3.3	2.1
		LPB	EP	10 28 06				
OCT	20	USCGS FLORES IS. REGION	10 35 48.5, 8.7S, 123.7E, H = 112 Km, M = 4.9					
		PNS	EPKP	10 55 34.5		1.8	78.0	
		LPB	PKP	10 55 35.5				151.8
			EL	11 47 00				
		LPZ	EPKP	10 55 36				
OCT	20	PNS	EP (S)	11 20 19 21 00.5				3.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	20	USCGS N. COLOMBIA	11 53	31.6, 6.9N, 73.1W, H = 141 Km, M = 5.2				
		PNS	P	11 58 25.5		0.9	11.4	23.0
			S	02 26				
		LPZ	EP	11 58 32				
		LPB	P	11 58 33		1.0	25.0	23.4
			PP	59 06				
			EL	12 04 00				
OCT	20	PNS	EP	12 05 11				
		LPB	EP	12 05 12				
OCT	20	DSG	IP	14 41 37.7	C			
		LPB	IP	14 42 03.6	D			1.9
			S	42 27.7				
		LPZ	IP	14 42 04				
		SCS	IP	14 42 07.6	D			2.1
			IS	42 33.3				
OCT	20	PNS	EP	16 19 38.5				2.5
			S	20 07.3				
OCT	20	PNS	EP	16 41 58				3.1
			S	42 34				
OCT	20	PNS	EP	17 41 58.3				
OCT	20	PNS	P	18 12 50.3		0.4	4.1	1.9
			S	13 13.5				
OCT	20	PNS	EP	19 20 36.4				2.2
			S	21 02.2				
OCT	20	PNS	EP	20 30 52.4		0.5	2.7	7.8
			S	32 21.0				
OCT	20	PNS	EP	21 59 48.5				
OCT	20	DSG	EP	22 33 36.1				
OCT	20	PNS	EP	23 06 08.3				2.5
			S	06 37				
OCT	20	PNS	EP	23 24 23.5				
OCT	20	PNS	IP	23 54 46.0	D	0.5	12.1	1.9
			S	55 09.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	21	USCGS NEAR COAST OF VENEZUELA	00 54	47.6, 10.6N, 63.6W, H = 36 Km, M = 4.3				
		LPB	EP	01 00 30				27.5
			EL	08.3				
		PNS	EP	01 00 30.6				
OCT	21	PNS	P	01 22 15.8				
OCT	21	PNS	P	01 34 22.5		0.7	4.7	4.1
			S	35 11				
		LPB	P	01 34 35.5				3.7
			S	35 19				
OCT	21	CCH	IP	01 52 35.2	D			
		LPB	EP	01 53 11				
		PNS	EP	01 53 17				3.4
			S	53 56.8				
OCT	21	USCGS E. MISSOURI	02 04	38.3, 37.5N, 91.0W, H = 22 Km, M = 5.2				
		LPB	P	02 14 30				57.9
			EL	32 00				
		LPZ	P	02 14 30.5				
		PNS	P	02 14 30.8				
OCT	21	PNS	EP	02 47 02				3.2
			S	47 40				
		CCH	IP	02 47 17.7	D			
OCT	21	PNS	EP	03 42 19.4				
OCT	21	PNS	P	03 45 03.4		0.5	4.4	1.7
			S	45 24.7				
OCT	21	LPB	P	04 40 31				7.4
			S	41 55				
		LPZ	EP	04 40 31.5				
		PNS	IP	04 40 34.7	D	0.5	10.9	7.5
			S	41 59.8				
OCT	21	PNS	IP	05 20 47.0	C	0.6	7.9	2.3
			S	21 15				
OCT	21	PNS	P	06 42 19.6		0.7	4.7	
OCT	21	PNS	EP	07 57 08				

DATE	TIME	STATION	AMPLITUDE	PERIOD	PHASE	CLASSIFICATION
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake

DATE	TIME	STATION	AMPLITUDE	PERIOD	PHASE	CLASSIFICATION
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake
001	13	03H	1.0	0.7	P	Moderate Earthquake



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	22	CCH	P	14 55 58.4				1.3	
			S	56 15.6					
		LPB	EP	14 56 15				1.8	
			S	56 38.5					
		PNS	P	14 56 22.3		0.5	2.7	2.9	
S	56 56.5								
OCT	22	PNS	P	15 14 41		1.4	63.0	2.3	
			S	15 38.8					
		LPB	EP	15 14 43					
OCT	22	PNS	EP	16 39 25.2				3.0	
			S	40 01.4					
OCT	22	PNS	IP	17 15 09.3	D	1.0	35.7	1.5	
			IS	15 38.4					
OCT	22	USCGS	18 35 54.5, 25. S, 71.3W, H = 13 Km, M = 5.1 OFF COAST OF N. CHILE						
			CCH	IP	18 38 05.8				
		LPB	IP	18 38 06.6				9.0	
			IS	39 41.5					
			L	40 4					
		LPZ	IP	18 38 07				8.8	
			IS	39 47					
		PNS	IP	18 38 08.3		C	0.9	10.3	8.9
			S	39 49.0					
		OCT	22	PNS	EP	23 23 19.6			
I	23 29.0								
S	24 20.0								
LPB	EP			23 23 26				6.3	
	S			24 38					
OCT	23	PNS	P	02 16 41.2		0.9	11.4		
OCT	23	LPB	P	03 10 03.5				1.2	
			EP	03 10 07.5					
		S	10 23.5						
OCT	23	PNS	P	03 59 06.9		0.5	3.9	1.7	
			S	59 29					
OCT	23	PNS	EP	04 49 01.5					
			EP	04 49 10					
OCT	23	USCGS	06 00 48.5, 53.8N, 165.5W, H = 16 Km, M = 5.5 FOX IS, ALEUTIAN IS						
			LPB	EP	06 15 04			107.1	
				51 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	23	PNS	EP	06 44 00.5				3.2
			S	44 38.7				
OCT	23	USCGS CHILE	06 53 32.8, 29.4S, 71.6W, H = 33 Km, M = 5.5					
			SCS	EP	06 56 38.8			13.1
OCT	23	LPB	EP	06 56 40				
			I	56 46				
			S	59 22				
			L	07 00.8				
			LPZ	EP	06 56 40			14.5
OCT	23	PNS	S	59 21				
			L	07 00.2				
			EP	06 56 42			12.8	
			IP	56 48.5	C			
			IPM	56 56.8				
S	59 05.5							
OCT	23	PNS	P	08 10 21.6				
OCT	23	USCGS	08 33 49, 55.1S, 146.0E, H = 43 Km, M = 5.3 W. OF MACQUARIE IS.					
			LPB	EP	08 47 35			103.1
		EL	09 20 00					
OCT	23	USCGS	08 15 02.3, 54.9S, 146.1E, H = 33 Km, M = 5.4 W. OF MACQUARIE IS.					
			LPB	EL	09 03 00			103.4
OCT	23	PNS	EP	09 38 07				5.4
			(S)	39 08.6				
OCT	23	PNS	EP	12 44 14				
OCT	23	PNS	EP	12 58 57				
OCT	23	PNS	EP	13 05 42.1		0.7	12.0	5.0
			(S)	06 40				
		LPB	EP	13 05 47				
OCT	23	USCGS	14 30 29.7, 35.5N, 140.0E, H = 80 Km, M = 4.8 NEAR E. COAST OF HONSHU, JAPAN					
			LPB	EPKP	14 50 05			148.8
			EL	15 41 00				
		PNS	EPKP	14 50 06.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	23	USCGS	15 34	47.2, 32.4S, 71.3W, H = 67 Km, M = 5.1					
				NEAR COAST OF CENTRAL CHILE					
		SCS	P	15 38 23.7	D				
		LPB	IP	15 38 31.2	D	0.9	7.6	15.8	
			S	41 08					
			EL	42.4					
		PNS	P	15 38 33.4	D	1.9		13.3	
			I	38 49.0					
			S	41 01.7					
			SS	41 25.3					
OCT	23	USCGS	16 00	44, 1.6S, 80.9W, H = 156 Km, M = 4.2					
				NEAR COAST OF ECUADOR					
		PNS	P	16 05 01.2	D	1.9	86.0	18.4	
			S	08 25.4					
		LPB	P	16 05 05		1.0	20.0	19.4	
			ES	08 27					
OCT	23	PNS	EP	16 14 44		1.6	95.4		
OCT	23	LPB	P	16 59 14.0	C	1.0	10.0	6.2	
			S	17 00 25					
		SCS	EP	16 59 18.7					
		PNS	EP	16 59 36				3.7	
			IP	59 40.3	C				
			S	17 00 19.2					
OCT	23	PNS	EP	18 54 00.2		0.6		2.7	
			S	54 32.5					
OCT	23	PNS	EP	20 58 17.2					
		LPB	EP	20 58 18					
OCT	23	PNS	P	21 42 37.5	C	0.7	17.6	1.8	
			IS	43 00.7					
		LPB	EP	21 42 40					
OCT	23	LPB	EP	22 52 29					
		PNS	P	22 52 30.3		1.2	18.6		
OCT	24	LPB	P	00 03 09		1.0	13.0		
		PNS	EP	00 03 34.7					
OCT	24	LPB	EP	00 05 06				7.8	
			S	06 34.5					
		PNS	IP	00 05 08.4	C	0.9	10.5	4.4	
			(S)	05 59.2					

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
OCT	24	PNS	IP	02 15 01.7	D	0.7	23.9	2.8	
			S	15 35					
		LPB	IP	02 15 14.0		0.8	23.0	2.2	
			S	15 39.8					
OCT	24	LPB	FP	03 20 59					
		PNS	P	03 21 01.4		1.7	74.7		
OCT	24	PNS	IP	07 01 50.7	D	0.8	10.3	1.8	
			S	02 13					
OCT	24	LPB	EP	07 19 16					
		PNS	EP	07 19 19.5				3.4	
			S	19 59.7					
OCT	24	PNS	FP	10 31 52.6				3.8	
			S	32 36.4					
OCT	24	PNS	P	10 35 19.1					
OCT	24	PNS	EP	11 03 06.4		0.7	6.4	7.5	
			S	04 31.0					
OCT	24	USCGS	12 24	19, 33.6S, 69.4W, H = 101 Km, M = 4.7					
				CHILE-ARGENTINA BORDER REGION					
		PNS	EP	12 28 13.3					
OCT	24	USCGS	14 32	13.7, 4.1N, 125.9E, H = 175 Km, M = 5.8					
				TALAUD IS.					
		PNS	EPKP	14 51 58.8		1.0	10.9		
			PPKP	52 39.3					
			PKS	55 20.5					
OCT	24	PNS	P	15 42 42.1		0.5	2.8	1.9	
			S	43 05.2					
OCT	24	PNS	P	16 22 20.2		1.0	8.5	5.2	
			S	23 20					
OCT	24	PNS	EP	18 19 24.6				3.4	
			S	20 05					
OCT	24	USCGS	18 15	04.9, 49.7N, 156.1E, H = 30 Km, M = 5.7					
				KURILE ISLANDS					
		LPB	PKP	18 34 16.5		1.0	45.0	131.4	
			EL	19 17.5					
		PNS	PKP	18 34 16.7	C	2.5	2937.0		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	24	PNS	P	19 01 07.0		0.7	5.6	
OCT	24	USCGS	18 45	38.3, 45. N, 149.3E, H = 48 Km, M = 5.0				
		KURILE ISLANDS						
		PNS	EPKP	19 04 48.3				
		LPB	EPKP	19 04 49			138.9	
			EL	50 00				
		LPZ	EPKP	19 04 49				
OCT	24	PNS	EP	19 09 08.5				
OCT	24	LPB	EP	19 13 45				
		PNS	EP	19 13 47.6		0.8	6.5	
OCT	24	PNS	EP	19 49 05.3				7.8
			S	50 33.3				
OCT	24	DSG	P	21 12 13.5				
OCT	24	PNS	EP	21 25 04.9				
OCT	24	PNS	P	22 31 54.9		0.5	3.3	
OCT	24	LPB	P	23 28 21				
		PNS	P	23 28 24.4		1.0	17.0	5.3
			S	29 25.5				
OCT	24	PNS	EP	23 29 21.8				
OCT	25	PNS	IP	00 23 44.6	D	0.9	46.8	1.8
			(S)	24 07.1				
		LPB	EP	00 23 46				
OCT	25	USCGS	00 15	07, 24.5N, 124.9E, H = 39 Km, M = 5.2				
		SW. RYUKYU IS.						
		LPB	EPKP	00 35 10			165.6	
			EL	01 31 00				
OCT	25	PNS	P	00 56 36.6		0.7	4.7	
OCT	25	PNS	EP	02 12 37.1				
OCT	25	CCH	EP	02 18 49.7				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	25	PNS	EP	02 30 27				3.3
			S	31 06.5				
		LPB	EP	02 30 32				
OCT	25	LPB	EP	05 55 35				4.5
		PNS	EP	05 55 41.5				
			S	56 34				
OCT	25	PNS	EP	06 29 30.6				
OCT	25	LPB	P	07 44 34.5		1.0	30.0	
		PNS	P	07 44 37.6		2.0	179.4	
			E	45 01.6				
OCT	25	USCGS	08 38	30.6, 22.2S, 170.3E, H = 33 Km, M = 5.0				
		LOYALTY IS. REGION						
		LPB	EPKP	08 57 21				111.2
			EL	09 34 00				
OCT	25	CCH	IP	10 31 13.5	C			
OCT	25	LPB	EP	10 47 57.5		1.2	180.0	
		PNS	P	10 47 59.7		1.2	16.6	
OCT	25	PNS	IP	10 59 40.0	D	0.6	21.9	2.0
			S	11 00 04.3				
OCT	25	USCGS	11 17	27, 1.1S, 81.0W, H = 33 Km, M = 4.3				
		NEAR COAST OF ECUADOR						
		PNS	P	11 21 54.6		1.9	85.4	
		LPB	EP	11 21 59				19.8
			EL	26 00				
OCT	25	PNS	P	11 37 06.2	C	0.5	7.7	1.5
			S	37 28.0				
OCT	25	PNS	EP	14 57 36.9				3.8
			S	58 21.1				
		LPB	EP	14 57 49				
OCT	25	USCGS	16 05	21.3, 17.2N, 94.3W, H = 33 Km, M = 4.3				
		CHIAPAS, MEXICO						
		PNS	EP	16 13 09				42.0
			S	19 27				
		LPB	EP	16 13 13				42.6

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	25	PNS	EP S	16 36 53.4 37 29.3		1.0	6.0	3.1
OCT	25	PNS	P S	16 52 10.3 53 06.3		0.9	7.3	4.9
OCT	25	USCGS		17 53 45, 60.5S, 154.0E, H = 33 Km, M = 5.1 W. OF MACQUARIE IS.				
		LPB	EL	18 38 00				96.1
OCT	25	PNS	P S	21 26 38 27 00		0.7	4.7	1.8
OCT	25	PNS	EP S	22 24 06.3 24 30.4				2.0
OCT	25	LPB	EP S	22 38 35 39 12.5				3.2
		LPZ	EP	22 38 36				
		PNS	IP S	22 38 36.5 39 14	C	1.0	23.9	3.2
OCT	25	USCGS		22 34 24.3, 44.2N, 145.3E, H = 180 Km, M = 6.2 HOKKAIDO, JAPAN REGION				
		LPB	EPKP I PP PKS	22 53 27 53 37 56 33.5 56 55				140.6
			SS EL	23 14 34 41 00				
		LPZ	EPKP EL	22 53 27 23 41 00				
		PNS	PKP PP PKS	22 53 29.7 56 37.0 56 55.0		2.6	4000.0	
OCT	25	PNS	P	23 43 07.9		0.5	3.3	
OCT	25	USCGS		23 41 01.1, 8 N, 119.5E, H = 70 Km, M = 5.4 N. CELEBES				
		LPB	EPKP PPKP EL	00 01 01 01 18 01 00 00				167.9
		PNS	PKP PPKP	00 01 01.5 01 18.2		2.0	65.7	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	26	LPB PNS	EP IP S	00 05 36 00 05 36.3 06 00	D	0.7	16.8	1.9
OCT	26	LPB PNS	EP P	01 00 49 01 00 49.4		0.6	6.1	
OCT	26	PNS	EP S	01 50 07.4 50 46.4				3.3
OCT	26	USCGS		01 55 53, 65.5N, 133.6W, H = 33 Km, M = 5.7 N. YUKON TERRITORY, CANADA				
		LPB	EP EL	02 09 09 41 00				95.1
OCT	26	PNS	EP S	02 50 35 50 56.4				1.7
OCT	26	PNS	EP E (S)	04 12 47 12 52.5 14 07.7				7.2
OCT	26	PNS	P S	04 37 25.6 37 50.0		0.6	6.7	2.0
OCT	26	PNS	EP IP S	05 57 19 57 21.9 58 12.8	C			4.7
		LPB	EP S	05 57 19 58 16.3				5.0
		LPZ	EP	05 57 20				
OCT	26	PNS	EP S	06 23 30 23 45				1.2
OCT	26	PNS	EP (S)	06 39 29.6 40 04.6				3.0
OCT	26	LPB	P S	06 56 53 57 23.5				2.5
		PNS	EP S	06 56 57.3 57 33.6				3.1
OCT	26	PNS	EP	07 45 11.8				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	26	USCGS TONGA ISLANDS REGION	08 15	36.5, 22. S, 175.1W, H = 33 Km, M = 5.1				
		LPB	EP EL	08 29 12 09 02 00				99.0
OCT	26	PNS	EP S	08 47 55 48 47.5				4.5
OCT	26	USCGS LOYALTY IS.	10 21	46.1, 20.1S, 168.8E, H = 37 Km, M = 5.2				
		PNS LPB	PKP EPKP EL	10 40 20 10 40 22 11 15 00				113.4
OCT	26	PNS	EP	11 11 31.7				
OCT	26	PNS	P	11 55 57.9				
OCT	26	USCGS NEAR COAST OF N. CHILE	12 15	08.3, 24.4S, 70.2W, H = 55 Km, M = 5.2				
		CCH LPB	EP P S L	12 17 04.1 12 17 06 18 34 19.9	C	1.0	140.0	8.1
		PNS LPZ	IP S P	12 17 06.1 18 36 12 17 07	C	0.7	29.1	8.0
OCT	26	USCGS BANDA SEA	12 18	39, 7.8S, 123.6E, H = 229 Km, M = 5.4				
		LPB	EPKP EL	12 38 13 13 29 00				153.0
		PNS	EPKP PKP2	12 38 14.2 38 42				
OCT	26	PNS	P	13 16 41.6		0.9	8.3	
OCT	26	PNS	EP S	14 32 21 32 46.3				2.1
OCT	26	USCGS NEAR COAST OF GUATEMALA	14 58	55, 13.9N, 91.4W, H = 156 Km, M = 4.3				
		PNS	P E	15 05 55.0 07 09.3		2.2	527.7	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	26	PNS	EP (S) EP	15 54 35.3 55 17.6 15 54 36				3.6
OCT	26	PNS	P	16 25 34.5		0.8	4.6	
OCT	26	PNS	P S	16 36 34 37 09		0.9		3.0
OCT	26	PNS	P S	16 40 58.4 42 03		0.9	10.4	5.7
OCT	26	PNS	P	17 49 52.8		1.0	19.1	
OCT	26	LPB LPZ PNS	IP IP IP S	18 22 25.5 18 22 26.0 18 22 29.1 23 31.5	C		610.0	5.4
OCT	26	LPZ LPB	EP P S	19 33 34 19 33 36 35 05		1.0	50.0	7.9
		PNS	L P S	37.5 19 33 38.6 35 07		0.9	10.4	7.8
OCT	26	USCGS SOLOMON ISLANDS	20 20	51.8, 10.5S, 161.2E, H = 72 Km, M = 5.6				
		PNS LPB	EPKP EL	20 39 33 21 19 00				124.1
OCT	26	LPB PNS	EP EP S	20 44 23 20 44 27 45 05				3.2
OCT	26	PNS	EP S	20 59 57.8 21 00 20				1.8
OCT	26	PNS	P S	21 18 55.6 19 38.5		0.6	6.0	3.7
OCT	26	PNS	P	23 03 45.7		0.6	3.3	
OCT	26	USCGS MINDANAO, PHILIPPINE ISLANDS	23 15	35, 5.8N, 126.3E, H = 135 Km, M = 5.7				
		LPB	EPKP EL	23 35 11 00 32 00				162.0
		LPZ PNS	EPKP EPKP	23 35 22 23 35 26				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	27	PNS	P	00 47 03.5		0.6	3.4	
OCT	27	PNS LPR	EP EP	01 24 42 01 24 44				
OCT	27	LPB PNS	EP P	02 14 12 02 14 13.2		0.8	4.7	
OCT	27	PNS LPB	P S P	02 36 04.5 36 31.7 02 36 10		1.1	15.7	2.3
OCT	27	LPB PNS	EP P (S)	03 45 25 03 45 29.1 46 01.4				2.7
OCT	27	SCS PNS	P IP	04 10 16.8 04 10 19.0	D D			2.3
OCT	27	LPB LPZ	IS IP S IP	10 47.0 04 10 19.8 10 47.5 04 10 20.0	D	0.8	42.0	2.3
OCT	27	PNS	P	04 28 39.1		0.7	4.9	
OCT	27	PNS LPB	IP S P	04 53 18.2 53 46.3 04 53 20.5	C	0.6	8.2	2.3
OCT	27	LPB	L	06 07.8				
OCT	27	PNS	EP	07 24 01				
OCT	27	PNS	P	07 36 06.5	D	0.5	4.5	
OCT	27	LPB PNS	EP P	07 47 42 07 48 03				
OCT	27	PNS SCS LPB LPZ	IP (S) IP IP S IP	08 08 03.6 08 26 08 08 04.6 08 08 04.8 08 15.5 08 08 06.0	D D D	1.0	120.0	0.8
OCT	27	PNS	EP	08 22 06.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	27	PNS LPB	(EP) E EP	10 13 00 13 36.8 10 13 30				
OCT	27	PNS	IP S	12 06 40.9 07 03.6	C	0.4	3.3	1.9
OCT	27	PNS	EP S	13 54 57 55 45.6				4.2
OCT	27	PNS	IP S	15 00 11.0 01 38	C	0.6	6.8	7.7
OCT	27	USCGS HALMAHERA		15 41 01.1, 1.1N, 127.1E, H = 142 Km, M = 5.3				
OCT	27	PNS LPB	(EPKP) EPKP EL	16 00 30.1 16 00 48 53 00				158.3
OCT	27	PNS	E(P) S	16 34 45 35 50.5				5.7
OCT	27	PNS	P S	16 43 03.3 43 39.7		0.8	6.6	3.1
OCT	27	PNS	P	16 51 42.6		0.4	3.3	
OCT	27	PNS	P S	19 01 54.7 02 17.6		0.8	17.0	1.9
OCT	27	LPB PNS	EP EP	19 55 15 19 55 22.8				
OCT	27	PNS	P S	21 04 17.4 04 40				1.9
OCT	27	PNS	E(P) S	21 13 14 13 35.8				1.7
OCT	27	USCGS SAKHALIN IS.		22 40 17.1 46. N, 142.9E, H = 230 Km, M = 5.1				
OCT	27	PNS LPB	EPKP EPKP EL	22 59 20.6 22 59 28 23 45 00		1.0	7.4	140.9
OCT	27	PNS	P	23 19 17.2				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	28	PNS	IP IS	00 17 57.4 18 19.6	D	0.9	19.3	1.8
OCT	28	LPB	IP S	01 18 03.0 18 27.5	D	0.8	28.0	2.0
		LPZ	P	01 18 04				
		SCS	IP IS	01 18 07.4 18 34.8	D			2.3
		PNS	IP IS	01 18 09.0 18 24.5	D			1.2
		CCH	IP	01 18 21.5				
OCT	28	CCH	IP	01 29 19.8	C			
		PNS	IP S	01 29 28.3 30 25	C	0.6	6.4	5.0
OCT	28	CCH	IP	01 39 19.8				
		LPB	EP S	01 39 54 40 24				2.5
		PNS	EP S	01 40 00.5 40 34.5				2.9
OCT	28	CCH	IP	01 46 07	C			
OCT	28	CCH	EP	02 29 34.8				
OCT	28	USCGS RAT IS,	01 46 45.9, 51.8N, 176.5E, H = 65 Km, M = 5.0 ALEUTIAN IS.					
		PNS	EPKP	02 05 24				
		LPB	FL	02 41 00				114.3
OCT	28	PNS	EP E	02 42 01 45 01.5		2.0	70.9	
		LPB	EP	02 42 02		1.2	180.0	
		LPZ	EP	02 42 03				
OCT	28	LPB	EP	03 40 11				
		PNS	EP S	03 40 11.7 40 51.2		1.0	7.0	3.3
OCT	28	PNS	EP (S)	04 48 33.7 49 18				3.8
		LPB	EP	04 48 38				
OCT	28	PNS	P	05 05 35.2		0.5	4.3	
OCT	28	PNS	EP LPB	05 37 01.7 05 37 05				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	28	PNS	IP E	05 37 23.8 37 34.4				
OCT	28	PNS	EP	05 48 11.2				
OCT	28	PNS	EP	07 43 10				
OCT	28	PNS	EP	08 34 59.2				
OCT	28	PNS	P LPB	08 38 26.7 08 38 27		1.0	11.7	
OCT	28	USCGS HALMAHERA	08 58 25.9, 1.3S, 127.7E, H = 33 Km, M = 5.8					
		PNS	EPKP	09 18 24				
			PPKP	18 33				
			I	18 40				
		LPZ	EPKP	09 18 30				
		LPB	EPKP	09 18 31				156.6
			EL	10 08 00				
OCT	28	PNS	IP IS	09 22 05.3 22 30.0	D	0.4	11.2	2.1
OCT	28	PNS	P (S) LPB	10 08 43.8 09 32 10 08 45		0.9	7.1	4.1
OCT	28	PNS	P S	11 19 31.2 19 54.3		0.5	2.7	1.9
OCT	28	PNS	P S	12 46 32.9 46 57		0.5	5.4	1.8
OCT	28	PNS	P S	13 23 35.2 24 24		1.0	8.2	4.2
OCT	28	PNS	EP	13 24 35.9				
OCT	28	PNS	EP	14 12 39				
OCT	28	PNS	P S	16 20 50.5 21 15		0.9	8.1	2.0
OCT	28	PNS	EP S	16 41 34.3 42 10		1.0	12.8	3.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	28	CCH	EP	19 50 34.2	D			
		LPB	EP	19 51 15				
		PNS	EP	19 51 17				3.2
			S	51 55.2				
OCT	28	USCGS	20 20	11.0, 28.7N, 108.0W, H = 33 Km, M = 5.0				
		CHIUAHUA, MEXICO						
		LPB	EL	20 48 00				58.9
OCT	28	SCS	IP	21 01 35.3	C			
		LPB	IP	21 01 44.7				4.3
			S	02 34				
		LPZ	IP	21 01 46				4.2
			S	02 35.5				
		PNS	IP	21 01 48.3	D			4.5
			S	02 40				
OCT	28	PNS	P	21 15 55.1		1.0	9.3	4.0
			S	16 40.8				
OCT	28	PNS	EP	21 36 39.2		0.8	6.3	
OCT	28	PNS	P	23 37 38.5		0.8	6.3	5.8
OCT	29	PNS	EP	01 12 21.4		0.9	9.1	
OCT	29	PNS	EP	04 02 50.5		0.8	4.3	
OCT	29	USCGS	04 32	00, 4.7N, 82.6W, H = 20 Km				
		SOUTH OF PANAMA						
		PNS	P	04 37 26		1.8	305.4	25.0
			S	41 44				
		LPB	EP	04 37 29		1.0	45.0	25.1
		LPZ	EP	04 37 29.5				
		SCS	EP	04 37 37.2	D			
OCT	29	PNS	EP	04 42 04.3				2.6
			(S)	42 35				
OCT	29	PNS	EP	07 40 27.7				2.9
			S	41 02.2				
OCT	29	PNS	EP	10 13 11				3.9
			S	13 56.2				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	29	USCGS	12 23	25.8, 6.2S, 148.9E, H = 59 Km, M = 4.7				
		NEW BRITAIN REGION						
		PNS	EPKP	12 42 34.7				
			PKS	46 19				
		LPB	EPKP	12 42 35				136.5
			PKP2	42 47				
			PKS	46 20.5				
			EL	13 27 00				
OCT	29	PNS	P	13 14 02.0		0.5	3.1	
OCT	29	PNS	EP	15 23 55.3				3.3
			S	24 34.3				
OCT	29	PNS	P	15 45 49.6		0.6	8.2	2.1
			IS	46 14.3				
OCT	29	PNS	EP	16 45 56		1.6	36.4	
OCT	29	PNS	EP	17 54 06				2.5
			S	54 36.0				
OCT	29	PNS	EP	18 26 34.5				2.5
			S	27 04.2				
OCT	29	PNS	EP	19 01 24.8				3.5
			S	02 05.7				
OCT	29	PNS	IP	19 06 57.9	D			1.3
			IS	07 14.0				
OCT	29	PNS	EP	19 13 48.5				
OCT	29	PNS	EP	21 16 45.1				
			E	17 52				
OCT	29	PNS	EP	21 27 11.5				
			I	27 19.5				
OCT	29	PNS	IP	22 37 57.0	D	0.8	39.1	1.9
			S	38 20.0				
OCT	29	PNS	P	23 44 27.8				1.9
			S	44 51.3				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	29	USCGS S. OF HERMADEC ISLANDS	23 55 07.0, 34.0S, 179.1E, H = 225 Km, M = 5.1					
		PNS	EP	00 08 16				
		LPB	EL	00 41 00				97.2
OCT	30	PNS	EP	03 11 57				
OCT	30	PNS	P	05 33 44.3		0.5	4.2	1.9
		LPB	IS	34 07.5				
		LPB	EP	05 33 49				2.0
		LPZ	S	34 13				
		LPZ	EP	05 33 50				
OCT	30	PNS	EP	06 10 08.8				4.3
			S	10 58.8				
OCT	30	USCGS TONGA ISLANDS	06 57 39.7, 16.5S, 173.3W, H = 33 Km, M = 5.3					
		LPB	EP	07 11 54				99.0
			L	44.3				
OCT	30	PNS	EP	08 39 38.7				
		LPB	E	40 20.0				
		LPB	EP	08 39 40				
OCT	30	USCGS ECUADOR	08 37 14.0, 1.7S, 76.0W, H = 130 Km, M = 4.3					
		LPB	EP	08 40 39				16.2
			EL	45 00				
		PNS	EP	08 40 52.9				4.6
			S	43 45.5				
OCT	30	PNS	EP	09 10 28.3				
OCT	30	PNS	EP	09 25 57.7				
OCT	30	PNS	EP	09 55 05.4				
OCT	30	PNS	EP	12 54 27.8				
		LPB	EP	12 54 33				
OCT	30	PNS	EP	13 12 37.6				
OCT	30	PNS	P	13 42 38.9				
OCT	30	PNS	EP	16 44 09		1.0	11.3	
				15				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	30	PNS	P	17 13 05.0		0.7	4.5	
OCT	30	PNS	P	17 38 46.9		1.0	11.3	
OCT	30	PNS	(EP)	19 48 54				
OCT	30	PNS	EP	20 07 41				2.0
			S	08 04.6				
		LPB	EP	20 07 51				
OCT	31	SCS	EP	00 08 33.6				
		LPB	P	00 08 44.5	D	1.0	30.0	
		LPZ	P	00 08 45				4.9
		PNS	P	00 08 46.1				
			S	09 42.0				
OCT	31	SCS	IP	02 00 23.2	C			
		LPB	IP	02 00 32.5	D	1.1	160.0	3.3
			S	01 12				
		LPZ	IP	02 00 33.5				3.2
		PNS	EP	02 00 33.8				
			(S)	01 12				
			E	02 05.5				
OCT	31	LPB	P	03 25 52.2				
		PNS	EP	03 25 52.7				
OCT	31	USCGS ECUADOR	04 02 25.0, 1.7S, 77.5W, H = 241 Km, M = 5.0					
		PNS	P	04 06 11.4				
		LPB	EP	04 06 18.5				16.7
		SCS	P	04 06 26.6	D			
OCT	31	USCGS NEAR COAST NEW GUINEA	03 49 06.6, 2.8S, 140.5E, H = 26 Km, M = 5.5					
		PNS	PKP	04 08 44		1.7	174.0	
		SCS	IPKP	04 08 46.9	D			
		LPB	IPKP	04 08 47.5	C	1.0	32.0	145.8
			EL	58 00				
		LPZ	PKP	04 08 48				
OCT	31	PNS	P	04 34 15.0		0.3	2.4	0.4
			IS	34 22.2				
OCT	31	PNS	IP	05 07 21.8		0.4	39.3	
		LPZ	P	05 07 25.5				
		LPB	IP	05 07 26.8	D	0.7	28.0	0.6
			S	07 35.8				
		SCS	P	05 07 41.7				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	31	LPB	EP	07 00 45				
		PNS	EP	07 00 52				
OCT	31	PNS	EP	07 03 44				
OCT	31	PNS	IP	07 13 23.5	D			3.1
			(S)	13 59.6				
		LPZ	IP	07 13 27				
		LPB	IP	07 13 28.6	D	0.7	65.0	0.6
			S	13 37.5				
			SCS	P	07 13 43.2			
		CCH	EP	07 14 07.1				2.3
			S	14 33.7				
OCT	31	PNS	P	07 45 44.5		0.6	4.5	
OCT	31	PNS	EP	08 33 46.9				
OCT	31	PNS	EP	09 45 59.7				
OCT	31	PNS	EP	10 55 36				
OCT	31	PNS	EP	12 13 10.2				4.1
			E	13 28.5				
			(S)	13 57.8				
		LPB	EP	12 13 19				
OCT	31	CCH	IP	13 37 06.9	D			
		SCS	P	13 37 10.3	D			
		LPB	IP	13 37 20.0	C	1.0	70.0	1.1
			S	37 34				
		PNS	P	13 37 22.2	C	0.8	31.3	6.4
		S	38 35.5					
OCT	31	USCGS	13 47 56.8, 24.9S, 69.0W, H = 107 Km, M = 5.4					
		CHILE-ARGENTINA BORDER REGION						
		SCS	IP	13 49 46.9	D			
			IP	13 49 50.5				6.9
			S	51 08.9				
		LPZ	EP	13 49 55				
		LPB	P	13 49 56		0.8	42.0	8.6
			(S)	51 14				
			L	51.9				
		PNS	IP	13 49 57.2	C			6.6
		S	51 12					
		SS	51 40					
OCT	31	PNS	EP	14 00 18.8		0.4	3.6	3.2
			S	00 56				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
OCT	31	PNS	P	14 23 41.3		0.6	4.5	2.0
			S	24 05.1				
OCT	31	PNS	EP	15 23 19.6				
OCT	31	USCGS	15 02 51.9, 19.5S, 176.3W, H = 34 Km, M = 5.5					
		FIJI ISLANDS REGION						
		LPB	EL	15 50 00				100.8
OCT	31	PNS	EP	16 41 14.7				4.9
			(S)	42 11				
OCT	31	PNS	EP	17 15 33.5				2.0
			S	15 57.4				
OCT	31	USCGS	17 24 06.4, 14.2S, 95.2E, H = 33 Km, M = 5.4					
		S. INDIAN OCEAN						
		SCS	PKP	17 43 41.9	D			
			IPKP	17 43 44.5		1.1	210.0	145.3
		LPB	EL	18 33 00				
		PNS	PKP	17 43 46.5		2.0	296.2	
OCT	31	PNS	EP	19 03 41.3				
OCT	31	PNS	EP	19 55 25.5				
OCT	31	PNS	P	19 58 57.8		0.7	6.1	3.8
			S	59 42				
OCT	31	PNS	EP	20 03 45.6				
OCT	31	PNS	P	20 20 56.5	C	1.7	80.5	1.6
			S	21 16.5				
OCT	31	PNS	IP	21 25 20.6	D	0.6	39.4	1.8
			S	25 43.1				
								77

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	1	PNS	EP	01 32 20.6				
NOV	1	PNS	EP	01 37 51				1.9
			S	38 14.2				
		LPB	P	01 37 55.2				2.0
			S	38 19.5				
NOV	1	PNS	P	02 50 27.7				
NOV	1	PNS	P	05 31 08.5				
NOV	1	PNS	EP	07 24 45				
		LPB	EP	07 24 46				
NOV	1	LPB	EP	07 30 18				
		PNS	EP	07 30 49.1				3.3
			IS	31 28.3				
NOV	1	PNS	P	07 36 35.1				2.3
			S	37 02.3				
		LPB	EP	07 36 36				
NOV	1	USCGS		08 58 37.2, 4.2S, 142.9E, H = 101 Km, M = 6.0				
				NEW GUINEA				
		PNS	EPKP	09 17 58		1.2	61.0	
			PPKP	18 25.5				
			PKS	21 29				
		LPB	IPKP	09 17 59.5		0.9	34.0	142.3
			PKS	21 29				
			EL	10 06 00				
NOV	1	USCGS		09 54 17.2 17. N, 99.9W, H = 33 Km, M = 4.4				
				GUERRERO, MEXICO				
		LPB	EP	10 02 30				45.8
		PNS	P	10 02 33.7		1.6	30.0	
NOV	1	PNS	P	10 26 19.0				1.8
			(S)	26 41.4				
NOV	1	PNS	EP	10 28 35.3				1.8
			S	28 58.7				
NOV	1	PNS	P	12 45 41.3		1.9	34.3	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	1	PNS	P	12 59 37.8		0.4	3.0	2.4
			IS	13 00 07.1				
NOV	1	PNS	E(P)	14 59 17				1.8
			(S)	59 40				
		LPB	EP	14 59 22				
NOV	1	PNS	P	15 26 47.4	D	0.6	8.7	1.8
			IS	27 09.7				
NOV	1	PNS	EP	16 47 09				
NOV	1	USCGS		18 03 09.6, 24.1S, 178.9E, H = 546 Km, M = 5.6				
				S. OF FIJI IS.				
		LPB	EP	18 16 11				103.5
			EL	50 00				
		PNS	EP	18 16 15				
NOV	1	PNS	EP	19 16 43				
NOV	1	LPB	P	19 23 04				
		PNS	IP	19 23 04.2	D	0.5	11.6	1.7
NOV	1	PNS	IP	20 38 29.0	D	0.4	6.9	
		LPB	EP	20 38 33				
NOV	1	CCH	EP	20 58 44				
		PNS	EP	20 58 45				
NOV	1	PNS	P	21 14 09.0		0.5	7.7	
NOV	2	USCGS		00 49 13.4, 23.7S, 179.8W, H = 522 Km, M = 5.4				
				S. OF FIJI IS.				
		CCH	IP	01 01 03.2	C			
		SCS	IP	01 01 33.1	C			
		LPB	IP	01 01 38.8	C	1.1	310.0	103.1
			EL	39 00				
		LPZ	IP	01 01 41				
		PNS	IP	01 01 43.7	D	0.3	16.1	
NOV	2	CCH	IP	01 05 25.5	D			
NOV	2	LPB	EP	01 17 06				
		PNS	EP	01 17 13				
			S	17 50.0				2.5
		CCH	IP	01 17 13.4	C			

MONTH	DAY	TIME	PHASE	STATION	AMPLITUDE	PERIOD	WAVELENGTH
NOV	1	11 28 27.8	PHS	18	13.00	0.4	2.0
NOV	1	14 20 102.10	PHS	18	14.20	0.4	2.0
NOV	1	14 20 32.10	PHS	18	14.20	0.4	2.0
NOV	1	14 21 31.10	PHS	18	14.21	0.4	2.0
NOV	1	14 22 31.10	PHS	18	14.22	0.4	2.0
NOV	1	14 23 31.10	PHS	18	14.23	0.4	2.0
NOV	1	14 24 31.10	PHS	18	14.24	0.4	2.0
NOV	1	14 25 31.10	PHS	18	14.25	0.4	2.0
NOV	1	14 26 31.10	PHS	18	14.26	0.4	2.0
NOV	1	14 27 31.10	PHS	18	14.27	0.4	2.0
NOV	1	14 28 31.10	PHS	18	14.28	0.4	2.0
NOV	1	14 29 31.10	PHS	18	14.29	0.4	2.0
NOV	1	14 30 31.10	PHS	18	14.30	0.4	2.0
NOV	1	14 31 31.10	PHS	18	14.31	0.4	2.0
NOV	1	14 32 31.10	PHS	18	14.32	0.4	2.0
NOV	1	14 33 31.10	PHS	18	14.33	0.4	2.0
NOV	1	14 34 31.10	PHS	18	14.34	0.4	2.0
NOV	1	14 35 31.10	PHS	18	14.35	0.4	2.0
NOV	1	14 36 31.10	PHS	18	14.36	0.4	2.0
NOV	1	14 37 31.10	PHS	18	14.37	0.4	2.0
NOV	1	14 38 31.10	PHS	18	14.38	0.4	2.0
NOV	1	14 39 31.10	PHS	18	14.39	0.4	2.0
NOV	1	14 40 31.10	PHS	18	14.40	0.4	2.0
NOV	1	14 41 31.10	PHS	18	14.41	0.4	2.0
NOV	1	14 42 31.10	PHS	18	14.42	0.4	2.0
NOV	1	14 43 31.10	PHS	18	14.43	0.4	2.0
NOV	1	14 44 31.10	PHS	18	14.44	0.4	2.0
NOV	1	14 45 31.10	PHS	18	14.45	0.4	2.0
NOV	1	14 46 31.10	PHS	18	14.46	0.4	2.0
NOV	1	14 47 31.10	PHS	18	14.47	0.4	2.0
NOV	1	14 48 31.10	PHS	18	14.48	0.4	2.0
NOV	1	14 49 31.10	PHS	18	14.49	0.4	2.0
NOV	1	14 50 31.10	PHS	18	14.50	0.4	2.0
NOV	1	14 51 31.10	PHS	18	14.51	0.4	2.0
NOV	1	14 52 31.10	PHS	18	14.52	0.4	2.0
NOV	1	14 53 31.10	PHS	18	14.53	0.4	2.0
NOV	1	14 54 31.10	PHS	18	14.54	0.4	2.0
NOV	1	14 55 31.10	PHS	18	14.55	0.4	2.0
NOV	1	14 56 31.10	PHS	18	14.56	0.4	2.0
NOV	1	14 57 31.10	PHS	18	14.57	0.4	2.0
NOV	1	14 58 31.10	PHS	18	14.58	0.4	2.0
NOV	1	14 59 31.10	PHS	18	14.59	0.4	2.0
NOV	1	14 59 31.10	PHS	18	14.59	0.4	2.0

MONTH	DAY	TIME	PHASE	STATION	AMPLITUDE	PERIOD	WAVELENGTH
NOV	1	11 28 27.8	PHS	18	13.00	0.4	2.0
NOV	1	14 20 102.10	PHS	18	14.20	0.4	2.0
NOV	1	14 20 32.10	PHS	18	14.20	0.4	2.0
NOV	1	14 21 31.10	PHS	18	14.21	0.4	2.0
NOV	1	14 22 31.10	PHS	18	14.22	0.4	2.0
NOV	1	14 23 31.10	PHS	18	14.23	0.4	2.0
NOV	1	14 24 31.10	PHS	18	14.24	0.4	2.0
NOV	1	14 25 31.10	PHS	18	14.25	0.4	2.0
NOV	1	14 26 31.10	PHS	18	14.26	0.4	2.0
NOV	1	14 27 31.10	PHS	18	14.27	0.4	2.0
NOV	1	14 28 31.10	PHS	18	14.28	0.4	2.0
NOV	1	14 29 31.10	PHS	18	14.29	0.4	2.0
NOV	1	14 30 31.10	PHS	18	14.30	0.4	2.0
NOV	1	14 31 31.10	PHS	18	14.31	0.4	2.0
NOV	1	14 32 31.10	PHS	18	14.32	0.4	2.0
NOV	1	14 33 31.10	PHS	18	14.33	0.4	2.0
NOV	1	14 34 31.10	PHS	18	14.34	0.4	2.0
NOV	1	14 35 31.10	PHS	18	14.35	0.4	2.0
NOV	1	14 36 31.10	PHS	18	14.36	0.4	2.0
NOV	1	14 37 31.10	PHS	18	14.37	0.4	2.0
NOV	1	14 38 31.10	PHS	18	14.38	0.4	2.0
NOV	1	14 39 31.10	PHS	18	14.39	0.4	2.0
NOV	1	14 40 31.10	PHS	18	14.40	0.4	2.0
NOV	1	14 41 31.10	PHS	18	14.41	0.4	2.0
NOV	1	14 42 31.10	PHS	18	14.42	0.4	2.0
NOV	1	14 43 31.10	PHS	18	14.43	0.4	2.0
NOV	1	14 44 31.10	PHS	18	14.44	0.4	2.0
NOV	1	14 45 31.10	PHS	18	14.45	0.4	2.0
NOV	1	14 46 31.10	PHS	18	14.46	0.4	2.0
NOV	1	14 47 31.10	PHS	18	14.47	0.4	2.0
NOV	1	14 48 31.10	PHS	18	14.48	0.4	2.0
NOV	1	14 49 31.10	PHS	18	14.49	0.4	2.0
NOV	1	14 50 31.10	PHS	18	14.50	0.4	2.0
NOV	1	14 51 31.10	PHS	18	14.51	0.4	2.0
NOV	1	14 52 31.10	PHS	18	14.52	0.4	2.0
NOV	1	14 53 31.10	PHS	18	14.53	0.4	2.0
NOV	1	14 54 31.10	PHS	18	14.54	0.4	2.0
NOV	1	14 55 31.10	PHS	18	14.55	0.4	2.0
NOV	1	14 56 31.10	PHS	18	14.56	0.4	2.0
NOV	1	14 57 31.10	PHS	18	14.57	0.4	2.0
NOV	1	14 58 31.10	PHS	18	14.58	0.4	2.0
NOV	1	14 59 31.10	PHS	18	14.59	0.4	2.0
NOV	1	14 59 31.10	PHS	18	14.59	0.4	2.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	3	USCGS ATLANTIC OCEAN	08 33	51.6, 58.1N, 32.1W, H = 33 Km, M = 4.8				
		LPB	EP EL	08 45 45 09 12 00				80.1
NOV	3	USCGS CHILE	12 59	55, 26. S, 69.5W, H = 176 Km, M = 4.5				
		LPB	P EL	13 02 11.0 04.4				9.7
NOV	3	PNS	IP	16 05 01.0	D	0.5	17.7	6.0
			S	06 10.4				
		LPB	IP	16 05 05.0		0.9	32.0	
		LPZ	P	16 05 07				
NOV	3	USCGS BANDA SEA	16 41	06.1, 4.7S, 126.6E, H = 450 Km, M = 5.7				
		CCH	PKP	16 59 59.1				
		PNS	IPKP	17 00 11.3	D	1.0	27.6	
			I	00 21.0				
			PPKP	01 57.6				
			PP	04 13.5				
		LPB	PKP	17 00 12				154.4
			I	00 20				
			PP	04 11.5				
			EL	50 00				
		LPZ	EPKP	17 00 13				
			I	00 21				
			PP	04 12				
NOV	3	USCGS E. Is. REGION	18 21	05. 22.3S, 114.1W, H = 12 Km, M = 5.8				
		PNS	IP	18 29 02.2	C	1.8	1031.4	44.0
			PP	30 47.0				
			IS	35 35.0				
		LPB	IP	18 29 12.0		2.0	700.0	42.2
			IS	35 42				
			L	42.0				
		LPZ	P	18 29 13				2.4
			ES	29 42				
			L	42.2				
NOV	3	PNS	IP	18 46 48.0	C	1.0	60.1	6.3
			S	48 00				
		LPB	IP	18 46 53.5		1.2	54.0	
			I	47 42				
		LPZ	P	18 46 55				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	3	USCGS E. Is. REGION	20 11	38, 22.2S, 113.9W, H = 33 Km, M = 4.9				
		LPB	EP EL	20 19 38 32 00				43.5
		PNS	P	20 19 38.6		1.2	86.9	
		LPZ	EP	20 19 39				
NOV	3	USCGS NEAR COAST OF N. CHILE	23 29	18, 27.4S, 71.5W, H = 33 Km				
		LPZ	EP	23 31 30				
		LPB	EP EL	23 31 33 34 00				11.3
NOV	4	USCGS CATAMARCA PROVINCE, ARGENTINA	00 40	03, 27.2S, 67.3W, H = 131 Km, M = 4.1				
		LPB	EP EL	00 42 25 45 00				10.7
		PNS	EP	00 42 37.5				
NOV	4	DSG	EP	00 57 44.5				
NOV	4	DSG	P	01 12 55.6				
NOV	4	USCGS NEW HEBRIDES ISLANDS	01 09	08.4, 17. S, 167.5E, H = 23 Km, M = 4.8				
		LPB	EPKP EL	01 27 53 02 03 00				115.8
		PNS	EPKP	01 28 01.8				
NOV	4	PNS	IP	01 56 08.4	C	0.5	15.5	3.3
			S	56 47.8				
		LPB	P	01 56 13.5				
		LPZ	EP	01 56 15				
NOV	4	USCGS NEW HEBRIDES ISLANDS	03 59	28.1, 17.1S, 167.9E, H = 42 Km, M = 4.9				
		PNS	EPKP	04 19 30.4				
NOV	4	LPB	EP	04 22 14				
		CCH	P	04 22 14.1				
		LPZ	EP	04 22 16				
		PNS	IP	04 22 16.3	C	0.7	11.1	6.7
			(S)	23 32.3				
NOV	4	DSG	EP	04 36 22.7				
NOV	4	CCH	P	05 07 20.9				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	4	PNS	P	06 57 17.2		0.3	13.6	3.7
			IS	58 00.6				
		LPB	P	06 57 23				
NOV	4	USCGS		06 52 31.3, 52.5S, 13.5E, H = 33 Km, M = 5.7				
			SW OF AFRICA					
		LPB	IP	07 03 53.0		1.3	130.0	71.6
			EL	25 00				
		LPZ	IP	07 04 02				
		PNS	P	07 04 04.0		1.5	293.0	
NOV	4	PNS	EP	07 44 21.2				
		LPB	EP	07 44 25				
NOV	4	LPB	EP	08 09 25				4.8
		PNS	EP	08 09 25.6				
			S	10 20.8				
NOV	4	LPB	EP	08 38 42				
		PNS	EP	08 38 43.2				
NOV	4	LPB	EP	12 12 37				2.8
			S	13 10.5				
		PNS	IP	12 12 38.1	C	0.5	47.0	2.8
			IS	13 11.4				
NOV	4	PNS	IP	13 05 10.8	D	0.4	20.8	
		LPB	EP	13 05 22				
NOV	4	USCGS		14 02 51, 47.2S, 10.6W, H = 33 Km, M = 5.6				
			S. ATLANTIC RIDGE					
		LPB	P	14 12 29		1.5	46.0	55.9
			ES	20 15				
			SSS	26 20				
			EL	29.7				
		PNS	EP	14 12 31.1		1.3	41.4	
		CCH	EP	14 12 32.6	D			
NOV	4	PNS	EP	15 10 23.4				
NOV	4	USCGS		15 39 44.5, 10.3N, 122.4E, H = 76 Km, M = 5.0				
			PANAY, PHILIPPINE ISLANDS					
		PNS	EPKP	15 59 38				
		LPB	EPKP	15 59 57				167.8
			EL	16 59 00				
NOV	4	PNS	P	16 41 45.2		0.4	3.2	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	4	LPB	EP	20 25 59				
		LPZ	EP	20 26 00				
		PNS	P	20 26 01.3		0.8	11.1	
NOV	4	USCGS		20 15 00.8, 7.8S, 158.5E, H = 42 Km, M = 5.0				
			SOLOMON ISLANDS					
		PNS	EPKP	20 34 07				
NOV	5	DSG	EP	01 12 55.9				1.2
			S	13 12.3				
NOV	5	LPB	EP	03 00 34				1.8
		PNS	P	03 00 37				
			S	01 00.1				
NOV	5	PNS	EP	05 08 30.5				4.4
			S	09 21.2				
		LPB	P	05 08 32.5				
		LPZ	EP	05 08 33				
NOV	5	LPB	EP	05 12 53				2.3
		PNS	EP	05 12 58				
			S	13 25.9				
NOV	5	USCGS		10 03 27, 22.3S, 113.9W, H = 33 Km, M = 5.3				
			E. IS. REGION					
		PNS	IP	10 11 17.0	C	1.9	446.5	
		LPB	P	10 11 31	C	1.7	120.0	42.9
			S	18 06				
			L	24.3				
		LPZ	P	10 11 31.5				
NOV	5	PNS	IP	11 23 57.6	D	0.6	17.4	5.0
			S	24 54.5				
NOV	5	PNS	EP	12 04 51.2				3.2
			S	05 29.2				
NOV	5	LPB	EP	12 16 14				9.8
		PNS	EP	12 16 14				
			(S)	18 04.0				
NOV	5	DSG	EP	14 21 41.4				
NOV	5	LPB	EP	15 17 23				6.0
		PNS	(EP)	15 17 34.5				
			(S)	18 44				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	5	LPB PNS	P IP	17 56 56.5 17 57 00.7		0.8	25.0	
NOV	5	USCGS		19 01 04.3, 3.1S, 143.8E, H = 31 Km, M = 5.7				NEAR N.C. OF NEW GUINEA
		SCS	P	19 20 34.5	D			
		LPZ	EPKP	19 20 36				
		LPB	PKP	19 20 36		0.9	29.0	142.4
			EL	20 08 00				
NOV	5	PNS	EP	21 58 27				
NOV	5	USCGS		22 02 47.8, 34.1N, 138.9E, H = 31 Km, M = 5.0				NEAR S.C. OF HONSHU, JAPAN
		PNS	EPKP	22 22 34.7				
		LPB	PKP	22 22 39.0		1.2	31.0	149.7
			EL	23 13 00				
		LPZ	EPKP	22 22 40				
NOV	5	PNS	P	22 43 58.6	D	0.5	6.1	1.8
			S	44 20.8				
NOV	5	PNS	EP	23 40 07.5		0.6	4.7	2.0
			S	40 31.8				
NOV	6	PNS	P	00 07 20.6		0.7	5.5	
NOV	6	LPB LPZ PNS	EP EP EP	00 43 59 00 44 00 00 44 01				
NOV	6	USCGS		01 06 06.4, 9.4S 78.9W, H = 59 Km, M = 4.7				NEAR C. OF N. PERU
		PNS	EP	01 09 00.7				11.7
			I	09 12.8				
			S	11 11.6				
		LPZ	EP	01 09 04				
			EL	13 00				
		LPB	EP	01 09 05				12.4
			EL	13.1				
NOV	6	DSG PNS	EP P	01 22 26.3 01 22 31.5	C	0.5	8.3	1.8
			IS	22 53.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	6	USCGS		01 23 13.34.1N, 138.1E, H = 73 Km, M = 4.5				NEAR S.C. OF HONSHU, JAPAN
		PNS	EPKP	01 43 00.5				
		LPB	EPKP	01 43 01				150.3
NOV	6	LPB PNS	EP EP	05 04 42 05 04 46.3				3.3
			S	05 25.9				
NOV	6	USCGS		05 18 23.5, 7. N, 73.1W, H = 136 Km, M = 4.3				N. COLOMBIA
		PNS	EP	05 23 20.7				
			I	23 54.5				
		LPB	EP	05 23 22				23.4
NOV	6	DSG PNS	EP P	06 20 26.8 06 20 33.8		0.9	13.7	3.1
			IS	21 10.2				
		LPZ	EP	06 20 38				
		LPB	P	06 20 39				3.5
			S	21 20.5				
		SCS	P	06 20 42.4	D			
NOV	6	LPB PNS	EP (EP)	07 15 29 07 15 38				
NOV	6	USCGS		06 38 41.5, 60.6N, 147.3W, H = 37 Km, M = 6.2				ALASKA
		LPB	EL	07 25 00				99.0
NOV	6	PNS LPB LPZ	IP P P	07 29 22.8 07 29 24.2 07 29 25	D	2.4 1.5	2327.3 120.0	
NOV	6	LPB PNS	EP EP	07 41 50 07 41 50.7				
NOV	6	PNS LPB DSG	EP S EP	09 11 18.7 11 41.3 09 11 20.5				1.9
			P	09 11 24.5				
NOV	6	USCGS		08 57 12.3, 34. N, 138.9E, H = 15 Km, M = 5.0				NEAR S.C. OF HONSHU, JAPAN
		LPB	EPKP	09 17 00				150.2
		PNS	EPKP	09 17 01.7				
		LPZ	EPKP	09 17 02				
		DSG	PKP	09 17 06.2				
		SCS	EPKP	09 17 08.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	6	SCS	P	09 26 49.1	D				
		PNS	P	09 26 59.0		1.0	10.1	2.8	
			S	27 32.5					
		LPB	P	09 27 00		1.0	22.0		
		DSG	P	09 27 08.9					
NOV	6	USCGS		09 21 48.6, 22.1S, 113.8W, H = 33 Km, M = 6.2					
				E. IS. REGION					
		DSG	EP	09 29 44.7					
		PNS	IP	09 29 49.5	C				
		LPB	IP	09 29 52.0	C	1.5	62.0	42.	
			S	36 14					
			G	39.9					
			L	42.4					
		LPZ	IP	09 29 52					
			EI	42.7					
NOV	6	PNS	EP	09 57 19.5					
		LPB	EP	09 57 20					
NOV	6	PNS	EP	11 03 22.8		2.4	412.9		
		LPB	EP	11 03 25					
		DSG	P	11 03 27.5					
NOV	6	DSG	EP	11 25 23.7	D				
		SCS	IP	11 25 48.3	D				
		PNS	EP	11 25 49.8				5.0	
			S	26 47.5					
NOV	6	DSG	P	13 22 06.7					
		LPB	EP	13 22 25					
		PNS	P	13 22 26.3		1.1	12.9	3.2	
			S	23 03.5					
NOV	6	PNS	EP	16 39 53					
		LPB	EP	16 39 58					
NOV	6	CCH	EP	16 48 44.6	D				
		LPB	EP	16 49 56					
NOV	6	LPB	EP	17 00 22					
		PNS	EP	17 00 22.5					
NOV	6	DSG	EP	20 17 22.3					
NOV	6	PNS	E(P)	20 26 30				5.1	
			S	27 29					
		LPZ	EP	20 26 33					
		LPB	P	20 26 34					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	6	PNS	EP	20 41 20					
		LPB	EP	20 41 24					
NOV	6	PNS	E(P)	21 08 10					
NOV	6	DSG	P	21 32 30.1					
		PNS	P	21 32 37.1		0.7	7.4	4.9	
			S	33 33.9					
NOV	6	LPB	EP	22 12 09					
		PNS	EP	22 12 11					
NOV	6	DSG	P	23 06 54.3					
		PNS	EP	23 06 55		0.6	4.4		
NOV	7	PNS	EP	00 55 23					
NOV	7	PNS	P	01 43 18		0.8	8.2	2.1	
			S	43 42.8					
NOV	7	PNS	IP	01 46 06.8	C	0.8	9.9	2.2	
			IS	46 33.0					
NOV	7	DSG	IP	2 31 57.9	C				
NOV	7	PNS	P	03 18 03					
NOV	7	PNS	P	03 52 03.7		1.0	7.1	2.7	
			IS	52 35.5					
NOV	7	PNS	P	03 54 49.6		0.8	9.0	2.7	
			S	55 21.5					
NOV	7	USCGS		04 43 51, 18.6N, 71.8W, H = 33 Km, M = 4.1					
				DOMINICAN REPUBLIC REGION					
		LPB	EP	04 50 47				35.1	
			EL	05 02 00					
NOV	7	PNS	EP	04 50 48				34.0	
			S	56 11					
NOV	7	PNS	EP	05 56 27				7.2	
			(S)	57 49					
		LPB	EP	05 56 27					
NOV	7	PNS	P	06 30 07.6					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	7	PNS	EP	07 02 10.5				
NOV	7	DSG	EP	07 07 48.7				
		SCS	IP	07 07 49.4	D			
		LPB	P	07 07 53.0		0.8	47.0	2.5
			S	08 23				
		PNS	IP	07 07 55.9	C			3.4
			S	08 36				
		LPZ	EP	07 08 02				
		CCH	EP	07 08 11.3	C			
NOV	7	PNS	P	07 28 36.4				
NOV	7	PNS	P	08 17 27				
NOV	7	PNS	P	08 47 52.5		0.6	6.5	
NOV	7	LPB	EP	09 54 39				
		PNS	EP	09 54 41.5				
NOV	7	PNS	P	10 19 40.8				2.1
			S	20 05.5				
NOV	7	PNS	EP	12 10 00				
NOV	7	PNS	EP	13 35 13.5				5.9
			S	36 22.2				
NOV	7	PNS	IP	14 17 49.6		0.8	7.2	
		DSG	IP	14 17 57				
NOV	7	USCGS		14 12 38, 48.9N, 154.9E, H = 33 Km, M = 4.7				
				KURILE ISLANDS				
		PNS	EPKP	14 31 51.7				
		LPB	EL	15 15 00				132.5
NOV	7	DSG	EP	16 03 41.0		1.8	251.2	
		PNS	P	16 03 41.2				
NOV	7	PNS	P	16 19 05.4		0.6	7.9	
NOV	7	PNS	EP	16 34 54.4				5.0
			(S)	35 52				
NOV	7	PNS	EP	16 56 37.2				
				56 42				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	7	PNS	EP	17 01 29				
NOV	7	DSG	P	17 26 36.5				
NOV	7	PNS	EP	17 52 53.7				5.8
			S	53 59.8				
NOV	7	DSG	IP	18 08 45.5	C			
		PNS	IP	18 08 49.7	D			1.9
			IS	09 12.5				
		LPB	EP	18 08 50				
NOV	7	PNS	EP	18 42 44.5				1.8
			S	43 07				
		LPB	EP	18 42 50				
NOV	7	USCGS		18 06 34.1, 43. N, 78.5E, H = 33 Km, M = 4.9				
				ALMA-ATA REGION				
		LPB	EL	19 14 00				141.1
NOV	7	PNS	EP	19 46 53.5				
NOV	7	USCGS		21 27 45.1, 22.4S, 171.5E, H = 117 Km, M = 5.0				
				LOYALTY IS. REGION				
		LPB	EPKP	21 46 12				109.8
			EL	22 21 00				
NOV	7	USCGS		22 59 28.7, 24. S, 180.0W, H = 514 Km, M = 4.7				
				S. OF FIJI ISLANDS				
		LPB	EP	23 13 09				102.2
			EL	48 00				
NOV	8	DSG	EP	01 36 10.3				
		PNS	EP	01 36 16.2				3.3
			S	06 55.7				
		LPB	P	01 36 22.0		0.8	11.2	
NOV	8	USCGS		01 57 25, 27.9N, 57.0E, H = 38 Km, M = 5.1				
				S. IRAN				
		LPB	EPKP	02 16 31				128.4
			EL	57 00				
		PNS	EPKP	02 16 32.2		2.2	464.0	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	8	DSG	P	03 30 15.0				
		PNS	P	03 30 18.1		1.4	27.7	4.9
			S	31 14				
		LPB	EP	03 30 22				
		SCS	EP	03 30 30.3				
NOV	8	USCGS		03 46 03, 23.6S, 70.5W, H = 52 Km, M = 4.4				
				NEAR COAST OF N. CHILE				
		SCS	EP	03 47 50.0				
		LPB	P	03 47 53				7.6
			S	49 26				
		PNS	P	03 47 54.2		0.8	9.1	9.5
			IP	48 03.0				
			IS	49 41.1				
		DSG	P	03 48 04.2				
NOV	8	LPB	EP	03 54 27				
		PNS	IP	03 54 30.0	D	1.0	16.6	5.8
			S	55 37				
NOV	8	USCGS		04 01 00, 46.8S, 33.7E, H = 33 Km, M = 4.5				
				PRINCE EDWARD IS. REGION				
		PNS	P	04 13 40.7		2.4	640.0	
		LPB	EP	04 13 41				86.0
NOV	8	PNS	P	07 04 03.1				
NOV	8	PNS	EP	07 19 42				4.7
			S	20 36.3				
NOV	8	PNS	EP	09 03 04.2				
		LPB	EP	09 03 09				
NOV	8	PNS	EP	09 22 58.7		0.6	4.6	5.4
			S	24 01.3				
NOV	8	PNS	P	11 22 43.9				
NOV	8	SCS	P	11 34 32.4	D			
		LPB	EP	11 34 40				2.4
			S	35 09.5				
		PNS	IP	11 34 40.2	D	0.4	26.3	2.6
			IS	35 11.3				
NOV	8	PNS	E(P)	12 39 45				2.4
			S	40 14				
		DSG	P	12 40 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	8	USCGS		13 18 09, 1.2N, 127.2E, H = 141 Km, M = 5.5				
				HALMAHERA				
		LPB	EPKP	13 37 54				158.3
			EL	14 33 00				
NOV	8	USCGS		14 24 10.6, 7.1N, 73.1W, H = 142 Km, M = 5.0				
				N. COLOMBIA				
		PNS	P	14 29 06.8		1.0	12.9	
			IPP	29 40.6				
		LPB	P	14 29 09				23.7
			IPP	29 44				
NOV	8	LPB	EP	15 21 32				
		PNS	P	15 21 36.1		0.8	9.0	6'2
			S	22 47.0				
NOV	8	PNS	EP	15 36 06				
NOV	8	PNS	EP	17 50 34.4				10.8
			S	52 35				
NOV	8	USCGS		18 05 10, 16.6N, 46.6W, H = 33 Km, M = 4.7				
				N. ATLANTIC RIDGE				
		PNS	EP	18 12 38.2				
NOV	8	USCGS		18 20 19.6, 31.7S, 69.7W, H = 101 Km, M = 4.9				
				SAN JUAN PROVINCE, ARGENTINA				
		LPB	P	18 23 49.7		1.2	110.0	14.9
			EL	27 00				
		PNS	IP	18 23 53.0	D	1.5	235.8	11.7
			(S)	26 03				
			E	26 53.5				
		LPZ	P	18 23 53				
NOV	8	PNS	P	18 56 06.0		2.3	592.0	
		LPB	EP	18 56 07				
NOV	8	PNS	P	20 33 59.4		0.9	6.1	
NOV	8	DSG	EP	22 07 04.1				
NOV	8	PNS	EP	22 36 49.2				
		LPB	EP	22 36 50				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	9	PNS	IP S	00 14 24.2 14 48.5	D	0.6	7.9	2.0
NOV	9	LPB	P	02 47 35.5		1.4	16.0	
NOV	9	USCGS	02 39 38,	28.4N, 43.6W, H = 33 Km, M = 4.6				
			N. ATLANTIC RIDGE					
		PNS	EP	02 48 35.8	D	0.8	21.8	
		LPZ	EP	02 48 36				
		LPB	EP	02 48 36				57.1
			EL	03 07 00				
NOV	9	PNS	EP	03 17 25				
		LPB	EP	03 17 27				
NOV	9	LPZ	EP	04 31 06				
		LPB	P	04 31 06.5	C	0.7	14.0	
		PNS	P	04 31 09.8	C	0.9	32.5	7.1
			S	32 30				
		DSG	P	04 31 11.3				
NOV	9	PNS	IP S	05 01 14.3 01 36.7	C	0.5	4.9	1.8
NOV	9	PNS	IP IS	06 39 23.8 39 47.5	C	0.5	26.1	1.9
		LPB	EP	06 39 36				
NOV	9	PNS	EP S	08 43 07.6 44 12				5.6
NOV	9	USCGS	09 29 33,	16.9S, 69.7W. H = 155 Km, M = 3.8				
			PERU-BOLIVIA BORDER REGION					
		DSG	IP	09 29 57.1	C			
		SCS	IP	09 30 03.4	D			
		PNS	IP	09 30 04.0	C	0.3		2.4
			IS	30 33.0				
		LPB	IP	09 30 05.7	C	0.4	58.0	1.7
			S	30 34				
		LPZ	IP	09 30 07				
NOV	9	USCGS	10 15 21, 34.	S, 178.1W, H = 50 Km, M = 5.1				
			S. OF KERMADEC ISLANDS					
		LPB	EP	10 28 46				96.6
			EL	11 02 00				
		PNS	EP	10 28 47				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	9	PNS	P	10 45 57.8		0.5	10.3	
NOV	9	PNS	P	10 58 57.0		1.0	8.2	
NOV	9	PNS	EP S	11 31 52.9 32 53				5.2
NOV	9	PNS	P S	11 41 58.1 42 20.5	C	0.4	4.1	1.8
NOV	9	DSG	P	11 43 24.3				
		PNS	P S	11 43 44.5 44 08.7		0.8	7.2	2.0
NOV	9	USCGS	11 38 14.8,	51.8N, 174.4E, H = 33 Km, M = 5.1				
			NEAR IS, ALEUTIAN IS.					
		LPB	EPKP EL	11 57 09 12 36 00				119.9
NOV	9	DSG	IP	12 48 23.1	C			
NOV	9	DSG	P	12 58 43.8				
NOV	9	DSG	IP IP	13 09 32.1 13 09 38	C D	0.6	49.2	2.9
			IS	10 12.6				
		LPB	EP S	13 09 39 10 05.5				2.2
NOV	9	DSG	EP	13 38 27.3	(C)			
NOV	9	PNS	EP	13 47 45.3				
NOV	9	PNS	P S	14 18 16.9 18 40.6		0.7	6.9	1.9
NOV	9	PNS	EP LPB	16 19 06.5 16 19 10				
NOV	9	PNS	EP S	16 41 46.6 42 31.5				3.9
		LPB	EP	16 41 55				
NOV	9	PNS	EP S	17 05 47.7 06 21.6				2.9

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	9	PNS	P S	17 34 26.4 35 42	C	0.9	11.3	6.7	
NOV	9	PNS	FP	20 08 18					
NOV	9	USCGS	21 59	04.3, 22.3S, 113.7W, H = 33 Km, M = 5.2 E. IS. REGION					
		DSG	EP	22 07 01.8	C				
		PNS	IP	22 07 04.4	C	1.2	181.8	40.0	
			S	13 13.5					
		LPB	P	22 07 08		1.2	46.0	42.9	
			ESS	16 42					
			SSS	18 00					
			L	19.8					
		LPZ	P	22 07 09					
NOV	9	PNS	EP	22 39 46.5					
NOV	9	PNS	IP S	23 06 23.1 06 45.5	D	0.9	13.3	1.8	
NOV	9	DSG	IP	23 19 03.4	C			1.9	
			S	19 25.8					
		PNS	IP	23 19 05.6	D	0.6	59.3	1.8	
			S	19 28.0					
		LPB	P	23 19 07.5	D	0.7	15.0	1.9	
			S	19 30.5					
NOV	9	DSG	P	23 23 22.2					
		PNS	P	23 23 53.5	D	0.5	8.1	1.8	
			S	24 15.8					
NOV	9	PNS	E(P)	23 46 32					
NOV	10	PNS	EP	00 14 18				4.2	
			S	15 07					
		LPB	P	00 14 18.6		1.2	41.0		
NOV	10	USCGS	01 47	22.8, 17.8S, 69.6W, H = 140 Km, M = 4.3 PERU-BOLIVIA BORDER REGION					
		DSG	IP	01 47 51.8	C				
		SCS	IP	01 47 52.2	C				
		PNS	IP	01 47 55.5	D			2.2	
			S	48 22					
		LPB	IP	01 47 57.5	D	0.8	980.0	1.8	
			S	48 23					
		LPZ	IP	01 48 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	10	PNS	P S	02 18 10.1 18 37.7		0.8	7.2	2.3	
		LPB	P	02 18 12.5					
NOV	10	LPB PNS	EP IP (S)	02 31 11 02 31 18.4 31 57	C	0.8	10.9	3.3	
NOV	10	PNS	EP	03 18 55		0.8	6.3		
NOV	10	USCGS	09 45 53,	44.9S, 75.3W, H = 33 Km, M = 4.7 OFF COAST OF S. CHILE					
		PNS	EP	09 51 53.2		1.2	32.2		
		LPB	EP	09 51 53.5		1.0	8.0	28.8	
			S	56 33					
			L	10 00 00					
		LPZ	EP	09 51 56					
NOV	10	PNS	EP (S)	11 58 21 58 47				2.2	
NOV	10	PNS	EP	12 26 00					
NOV	10	USCGS	12 47 37.5,	21. S, 69.0W, H = 110 Km, M = 4.8 N. CHILE					
		SCS	IP	12 48 32.2	D				
		PNS	IP	12 48 39.0	C				
		DSG	IP	12 48 46.4	C				
		LPB	IP	12 48 46.4	C	0.6	480.0	4.5	
			S	49 38.5					
		LPZ	IP	12 48 47					
NOV	10	PNS	P S	15 11 19 12 23.5		0.8	9.0	5.6	
		LPB	EP	15 11 23					
NOV	10	PNS	E(P) (S)	17 43 41 44 38				4.9	
		LPB	EP	17 43 41					
NOV	10	USCGS	19 15 48.1,	7.5N, 79.5W, H = 33 Km, M = 4.1 S. OF PANAMA					
		PNS	IP	19 21 26.0	D		35.8		
NOV	10	PNS	P	20 10 40.2		0.9	11.1		
NOV	10	DSG	IP	20 19 12.3	C				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	10	USCGS	21 01 19, 18.1N, 105.7W, H = 21 Km, M = 4.5					
			OFF COAST OF JALISCO, MEXICO					
		PNS	P	21 10 10.3				
		LPB	EP	21 10 19				50.4
NOV	10	PNS	EP	21 23 01				
NOV	10	USCGS	21 29 33.6, 20.7S, 67.5W, H = 202 Km, M = 4.4					
			S. BOLIVIA					
		SCS	IP	21 30 31.0	C			
		LPB	IP	21 30 40.5		0.7	1040.0	4.3
			S	31 29				
		LPZ	IP	21 30 41				6.0
			IS	31 50				
		DSG	IP	21 30 43.3	C			
		PNS	IP	21 30 44.7				3.6
			S	31 26.5				
NOV	10	PNS	EP	22 21 28;				
NOV	10	PNS	EP	23 42 07.9				
NOV	11	USCGS	01 32 59.3, 22.8S, 172.6E, H = 62 Km, M = 5.4					
			LOYALTY IS. REGION					
		LPB	EP	01 47 23				108.9
			EL	02 23 00				
NOV	11	PNS	E(P)	01 51 42.4				
NOV	11	LPB	EP	02 20 18				2.6
			S	20 49				
		PNS	EP	02 20 22.7				3.2
			S	21 00				
NOV	11	PNS	P	02 33 33.3				
NOV	11	USCGS	02 21 24.4, 51.7N, 176.2E, H = 104 Km, M = 5.					
			RAT IS, ALEUTIAN IS.					
		LPB	EPKP	02 39 57				118.8
			EL	03 16 00				
NOV	11	USCGS	02 51 25, 60.7S, 154.0E, H = 33 Km, M = 5.1					
			W. OF MACQUARIE IS.					
		PNS	EP	03 04 45.7				
		LPB	EP	03 04 50				95.8
			S	15 46				
				30.3				
				36.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	11	LPB	EP	07 04 41				
		PNS	EP	07 04 52				
NOV	11	SCS	P	10 37 43.6	D			
		DSG	EP	10 37 47.3				
		LPB	P	10 37 51.8		0.7	28.0	
		LPZ	EP	10 37 52				
		PNS	IP	10 37 53.5	C	0.4	44.4	3.2
			ES	38 30.6				
NOV	11	PNS	IP	10 41 23	C	0.8	15.4	5.8
			ES	42 28.9				
NOV	11	DSG	EP	10 56 12.3				
NOV	11	PNS	EP	12 41 56				2.3
			S	42 24.1				
NOV	11	DSG	EP	14 18 32.1				
		PNS	EP	14 18 37.7				4.2
			S	19 26.7				
		LPB	EP	14 18 45				
NOV	11	PNS	IP	14 58 03.7	D	0.5	7.1	
NOV	11	PNS	E(P)	15 19 46.7	(S)			2.8
			(S)	20 20				
NOV	11	PNS	E(P)	16 29 43				
NOV	11	PNS	EP	16 38 10				
NOV	11	PNS	P	16 43 10.7		1.0	11.8	
		LPB	P	16 43 23				
NOV	11	DSG	EP	17 09 07.6				
NOV	11	LPB	EP	17 30 45				
		PNS	EP	17 30 53.2				0.1
			S	30 57.9				
NOV	11	USCGS	17 22 36.7, 14. N, 145.0E, H = 131 Km, M = 5.					
			MARIANA ISLANDS					
		PNS	EPKP	17 42 07.2				
		LPB	EPKP	17 42 08				148.1
			EL	18 31 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	11	USCGS BALLENY IS. REGION	16 52 23.4,	61.3S,	154.5E,	H = 33 Km		
		LPB	EL	17 52 00			126.5	
NOV	11	PNS	IP	19 31 53.9	D	0.6	127.9	1.9
			S	32 17.4				
		LPB	IP	19 31 54.2	D	0.7	52.0	2.0
			S	32 18.2				
NOV	11	PNS	IP	19 37 17.4	C	0.5	27.2	2.5
			S	37 47.5				
NOV	11	PNS	IP	20 06 01.2	D	0.7	10.8	1.9
			S	06 24.0				
NOV	11	USCGS KERMADEC ISLANDS	22 49 57.8,	28.4S,	176.5W,	H = 47 Km, M = 4.9		
		PNS	EP	23 03 25				
		LPB	EP	23 03 41			97.2	
			EL	36 00				
NOV	11	PNS	EP	23 08 14.7		0.9	5.1	7.3
			S	09 38				
NOV	11	PNS	EP	23 11 09.4				
		LPB	EP	23 11 11				
NOV	12	PNS	EP	00 36 40.7				
NOV	12	USCGS E. IS. CORDILLERA	02 04 10.5,	56. S,	121.5W,	H = 33 Km, M = 4.9		
		PNS	EP	02 13 59.7			54.2	
			ES	21 36				
		LPB	EP	02 14 00			56.3	
			S	21 47				
			G	27.1				
			L	31.1				
NOV	12	USCGS BANDA SEA	03 49 55,	6.4S,	130.0E,	H = 136 Km, M = 4.6		
		LPB	PKP	04 09 36.8			151.0	
		PNS	EPKP	04 09 37.1		1.2	21.7	
			PKP	09 45.5				
NOV	12	PNS	EP	04 25 10				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	PNS	IP	04 42 11.5		0.5	24.4	1.8
			S	42 34				
		LPB	P	04 42 14				
NOV	12	USCGS BANDA SEA	06 58 42.3,	6.8S,	129.4E,	H = 85 Km, M = 5.3		
		SCS	PKP	07 18 10.5				
		LPB	IPKP	07 18 24.0	C	0.8	11.0	95.2
			IPKP2	18 29.5				
			ESS	39 44				
			EL	08 11 00				
		PNS	IPKP	07 18 24.9	D	1.8	92.3	150.9
			IPKP2	18 30.0				
NOV	12	USCGS COSTA RICA	08 59 53.3,	10.6N,	84.4W,	H = 25 Km, M = 4.9		
		PNS	EP	09 06 13.2		0.7	9.3	
			PP	07 14				
		LPB	EP	09 06 16			31.5	
			ESS	13 27				
			L	09 15.9				
NOV	12	PNS	EP	09 40 35.4				
		LPB	P	09 40 39.5		0.8	2.8	
NOV	12	PNS	EP	09 52 14.2				
NOV	12	LPB	IP	10 15 16.5	C	0.7	39.0	4.0
			S	16 11.5				
		PNS	IP	10 15 20.3	C	0.5	48.9	5.0
			S	16 18.0				
NOV	12	PNS	P	11 33 26.5		0.4	1.8	1.8
			S	33 48.9				
NOV	12	PNS	P	15 56 49.0		0.6	3.	
NOV	12	LPB	EP	16 58 35				
		PNS	P	16 58 36.0		0.9	18.4	
NOV	12	USCGS E. IS. REGION	17 04 57,	22.2S,	113.9W,	H = 33 Km, M = 5.3		
		PNS	IP	17 12 59.3	C	1.5	214.0	
		LPB	P	17 13 01.6		2.2	210.0	42.7
			EL	25.8				
NOV	12	PNS	EP	04 25 10				101

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	USCGS S. OF HONSHU, JAPAN	17 13	59. 30.7N, 139.9E,	H = 100 Km, M = 4.5			
		PNS	EPKP	17 33 42.7		1.5	47.9	
		LPB	EPKP	17 33 54				151.0
NOV	12	USCGS S. OF HONSHU, JAPAN	17 14	27.6, 30.4N, 138.8E,	H = 150 Km, M = 5.2			
		DSG	EPKP	17 34 02.0				
		PNS	EPKP	17 34 05.5		2.3	1222.0	
		LPB	EPKP	17 34 07.2				151.6
NOV	12	PNS	EP	17 54 53.3				
NOV	12	PNS	EP	17 58 54.4				
NOV	12	USCGS S. OF HONSHU, JAPAN	17 52	24.1, 30.5N, 140.2E,	H = 40 Km, M = 6.6			
		PNS	EPKP	18 12 10.4		2.0	372.0	
			IPKP	12 16.8				
			PP	15 51.7				
		LPB	EPKP	18 12 11.5		2.0	190.0	150.3
			L	19 02.8				
		SCS	PKP	18 12 58.6				
NOV	12	PNS	P	18 27 34.6		1.0	8.2	
NOV	12	PNS	IP	18 33 42.8		2.0	65.0	
NOV	12	USCGS S. OF HONSHU, JAPAN	18 15	18, 31.6N, 140.2E,	H = 177 Km, M = 4.6			
		PNS	EPKP	18 34 48.2				
			I	34 53.7				
NOV	12	USCGS SEA OF OKHOTSK	18 53	34, 53.3N, 153.6E,	H = 469 Km, M = 4.9			
		PNS	IPKP	19 11 53.2	C	1.2	30.8	
		LPB	PKP	19 11 53.5		1.0	35.0	131.0
			EL	55 00				
NOV	12	USCGS S. OF HONSHU, JAPAN	19 04	37, 31.3N, 140.6E,	H = 33 Km, M = 4.7			
		PNS	EPKP	19 24 24.8		1.2	18.1	
			PKP2	24 29.8				
NOV	12	PNS	P	19 25 13.3		0.9	9.2	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	12	PNS	EP	19 57 09.7				
NOV	12	DSG	P	20 12 17.1				
NOV	12	PNS	EP	20 23 12				
NOV	12	PNS	EP	22 10 06.0		0.8	5.4	2.3
			S	10 33.2				
NOV	12	LPB	P	22 11 02		1.0	18.0	
		PNS	IP	22 11 56.8	C	0.4	24.0	3.3
			S	12 35.7				
NOV	12	USCGS REVILLA GIGEDO IS. REGION	22 34	10, 19. N, 108.4W,	H = 33 Km, M = 4.3			
		PNS	EP	22 43 17.8				
			PP	43 28				
NOV	13	PNS	EP	01 10 51.9				4.5
			S	11 43.8				
NOV	13	PNS	P	02 19 06.1		1.0	8.2	
NOV	13	PNS	EP	02 19 32.4				1.9
			I	19 33.6				
			S	19 55.1				
		LPB	P	02 19 37.7				
NOV	13	PNS	EP	02 38 52.5				
NOV	13	USCGS CENTRAL CHILE	04 24	50, 37.7S, 72.7W,	H = 5 Km, M = 4.4			
		LPB	P	04 29 40.5		1.0	20.0	21.4
			EL	34 00				
		PNS	EP	04 29 43.2	C	1.0	12.9	
NOV	13	SCS	P	04 48 17.1	D			
		LPB	P	04 48 25.5		1.0	50.0	
		PNS	IP	04 48 30.3	D	0.7	85.3	5.0
			IS	49 28.8				
NOV	13	USCGS N. SINKIANG PROVINCE, CHINA	04 33	53, 43.8N, 87.8E,	H = 59 Km, M = 6.3			
		LPB	PKP	04 53 27.5		1.0	27.0	145.9
			SS	05 15 44				
			EL	42 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
		PNS	IPKP	04 53 28.1	C	1.0	146.8		
			IPP	56 51.7					
			SKS	05 00 26.8					
		SCS	P	04 53 30.3	D				
NOV	13	PNS	P	05 06 31				1.9	
			IS	06 54.4					
NOV	13	USCGS	06 14 25, 26.2N, 65.1E, H = 22 Km, M = 5.2						
			W. PAKISTAN						
		PNS	EPKP	06 33 48				135.7	
		LPB	EPKP	06 33 48					
			EL	07 18 00					
NOV	13	PNS	EP	07 25 45.0				3.3	
			S	26 24					
			E	28 21					
		LPB	EP	07 25 53					
NOV	13	USCGS	17 59 41.7, 29.4S, 68.1W, H = 48 Km, M = 5.9						
			SAN JUAN PROVINCE, ARGENTINA						
		CCH	EP	18 02 33					
		SCS	P	18 02 36.9	D			12.6	
		LPB	EP	18 02 42					
			L	05.2					
		LPZ	EP	18 02 44					
		PNS	IP	18 02 45.3	D	0.8	19.0	11.3	
			I	02 50.0					
			S	04 52.4					
		DSG	EP	18 02 47.8					
NOV	13	USCGS	19 02 22, 1.5S, 77.7W, H = 188 Km, M = 4.8						
			ECUADOR						
		PNS	IP	19 06 12.6	C	1.0	41.3	16.4	
			IS	09 22.8					
		SCS	P	19 06 25.9	D				
		CCH	P	19 06 30.2					
NOV	13	DSG	P	20 12 17.1					
NOV	14	PNS	P	00 15 23.1					
NOV	14	PNS	EP	02 05 44.9				1.7	
			S	06 06.4					
NOV	14	LPB	EP	02 30 16.5					
		PNS	IP	02 30 18.6		0.5	6.3		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	14	USCGS	03 11 23, 1.7N, 90.6W, H = 33 Km, M = 5.0						
			GALAPAGOS IS. REGION						
		PNS	EP	03 17 16.4					
			E	17 20.3					
		LPZ	EP	03 17 20					
		LPB	P	03 17 20.2		1.2	28.0	28.8	
			L	25.4					
NOV	14	DSG	IP	04 12 29.8					
NOV	14	USCGS	04 20 17, 2. N. 90.3W, H = 19 Km, M = 4.7						
			GALAPAGOS IS. REGION						
		PNS	EP	04 26 05					
		LPB	P	04 26 15.5		1.2	15.0	28.7	
		LPZ	EP	04 26 16					
NOV	14	CCH	IP	04 30 02.8	D			2.8	
			S	30 35.7					
		SCS	IP	04 30 42.2	D				
		DSG	IP	04 30 43.7	C				
		LPB	IP	04 30 46.8		1.0	100.0	2.2	
			S	31 13					
		LPZ	IP	04 30 48					
		PNS	IP	04 30 48	D	0.5	64.5	3.2	
			S	31 26.2					
NOV	14	USCGS	05 54 16.7, 36.8N, 140.8E, H = 67 Km, M = 5.9						
			NEAR E. COAST OF HONSHU, JAPAN						
		CCH	PKP	06 13 47.2					
		LPB	PKP	06 13 52.5		1.2	32.5	147.6	
			EL	07 04 00					
		PNS	IPKP	06 13 52.9	D	1.3	102.8		
		LPZ	EPKP	06 13 53					
		DSG	PKP	06 13 58.1					
NOV	14	LPB	EP	06 42 07					
		PNS	EP	06 42 08.7					
NOV	14	USCGS	07 52 49, 1.1N, 27.7W, H = 27 Km, M = 4.8						
			CENTRAL MID-ATLANTIC RIDGE						
		LPB	EP	08 00 53	D	1.0	12.0	44.0	
			L	13.6					
		LPZ	EP	08 00 54					
		PNS	EP	08 00 54.4					
NOV	14	PNS	EP	08 04 40					
NOV	14	PNS	P	09 36 44.0		0.2	15.2	2.0	
			S	37 08.5					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	14	CCH	EP	10 52 13.2					
			EP	10 52 17					
		LPB	IP	10 52 20.0	D	1.0	19.5	1.6	
			S	52 40					
		LPZ	EP	10 52 37					
SCS	EP	10 52 37.3							
NOV	14	PNS	EP	11 00 21		1.1	13.6		
NOV	14	PNS	P	11 10 52.3		0.6	4.6	2.1	
			S	11 17.5					
NOV	14	CCH	P	11 46 20.2				2.1	
			EP	11 46 57.3					
			S	47 22.5					
NOV	14	PNS	EP	12 26 08.3		0.5	3.7	3.4	
			(S)	26 48.3					
NOV	14	PNS	P	13 14 11.2		0.5	4.7		
NOV	14	PNS	IP	15 14 25.1	D	0.6	16.4	1.9	
			S	14 48.6					
NOV	14	LPB	EP	15 56 55				3.2	
			S	57 32.2					
		PNS	IP	15 56 57.9	D	0.4	4.4	3.3	
			S	57 35.8					
NOV	14	USCGS SOLOMON ISLANDS	EP	16 04 07, 10.7S, 163.4E, H = 33 Km, M = 5.0					
			EPKP	16 33 02.6					
			PKP	16 33 14.9					
NOV	14	PNS	EP	17 50 27				13.0	
			P	17 50 27.5	1.2				
NOV	14	DSG	(EP)	18 48 47.4					
NOV	14	PNS	(EP)	18 49 28.5					
NOV	14	DSG	EP	18 56 08.8					
NOV	14	PNS	EP	20 06 55.2		0.9	9.9		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	15	USCGS SOLOMON ISLANDS	EP	00 15 52.4, 10.6S, 163.4E, H = 33 Km, M = 5.2					
			EL	01 14 00				122.4	
NOV	15	CCH	EP	06 35 05.0	D				
			IP	06 35 15.5	D	0.7	18.0		
		LPZ	EP	06 35 16					
			EP	06 35 17.2					
			IP	06 35 19.5	D	0.7	41.1		
NOV	15	CCH	EP	06 56 05.3					
			IP	06 56 18.8	C	1.0	40.0		
		PNS	P	06 56 21.3					
			IP	06 56 22.8	C	0.5	17.5	1.7	
		S	56 44.2						
NOV	15	USCGS N. CHILE	EP	07 39 42.3, 22.8S, 69.1W, H = 111 Km, M = 3.6					
			P	07 41 06.8					
			EP	07 41 14				6.3	
			EP	07 41 16					
			IP	07 41 16	0.7	18.3	5.5		
		S	42 19.4						
NOV	15	USCGS S. OF HONSHU, JAPAN	EP	11 00 12, 30.7N, 140.3E, H = 49 Km, M = 4.7					
			IPKP	11 20 00.6	C	0.8	14.6		
			PKP	11 20 02		0.8	12.6	150.3	
NOV	15	JSCGS CENTRAL MID-ATLANTIC RIDGE	EP	11 18 49.9, 3. S, 18.7W, H = 24 Km, M = 5.6					
			EP	11 27 44.6	D				
			P	11 27 55		1.2		50.4	
			PP	29 48.2					
			S	35 15					
			L	42.8					
			IP	11 27 56					
			IP	11 27 56.8	D	1.4	121.4		
			E	29 07.8					
			P	11 27 58.1	D				
NOV	15	CCH	PKP	11 38 32.4					
			EPKP	11 38 40.4					
NOV	15	LPB	EP	13 54 53					
			EP	13 54 58.0				2.3	
			S	55 26.4					
NOV	15	DSG	P	14 44 09.6					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	15	DSC	P	19 28 53.7				
		PNS	IP	19 28 56.1		0.6	6.2	1.4
			S	29 14.5				
		LPB	EP	19 28 58				
NOV	15	LPB	EP	19 46 04				
		PNS	EP	19 46 10				
NOV	16	USCGS		01 03 55.7, 36.4N, 71.2E, H = 241 Km, M = 5.5				
				AFGHANISTAN-USSR BORDER REGION				
		LPB	EPKP	01 22 56				124.0
			EL	02 03 00				
		PNS	PKP	01 22 56	D	1.6	91.6	
			PPP	26 06.4				
NOV	16	USCGS		04 49 03.7, 11.4S, 163.0E, H = 33 Km, M = 5.0				
				SOLOMON ISLANDS				
		LPB	EPKP	05 07 02				122.1
			EL	47 00				
NOV	16	PNS	IP	05 27 08.7	D	0.4	11.6	2.0
			S	27 33.1				
NOV	16	USCGS		06 09 02.5, 17.2S, 69.0W, H = 210 Km, M = 3.7				
				BOLIVIA				
		DSG	IP	06 09 31.1	D			
			S	09 53.2	C			
		LPB	IP	06 09 34.7	D	0.8	350.0	1.3
			S	09 57				
		PNS	IP	06 09 34.7	D	0.5	152.2	1.4
			S	09 53				
		LPZ	IP	06 09 35				
		SCS	IP	06 09 36.8	C			
		CCH	IP	06 09 49.8	D			
NOV	16	PNS	EP	06 53 50				
NOV	16	USCGS		07 52 59.8, 31.1N, 41.1W, H = 33 Km, M = 4.7				
				N. ATLANTIC RIDGE				
		LPB	P	08 02 23.5	C	1.0	16.0	54.5
		PNS	IP	08 02 23.5	C	1.3	24.7	
		LPZ	EP	08 02 24				
NOV	16	PNS	EP	11 58 00.2				
				108				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	16	USCGS		15 24 42.9, 31. N, 41.5W, H = 17 Km, M = 6.0				
				N. ATLANTIC RIDGE				
		DSG	EP	15 34 04.0				
		PNS	IP	15 34 04.4	D	2.0	1459.2	54.0
			ES	41 36.6				
		LPB	IP	15 34 07.0		1.2	702.0	54.0
			PP	36 08				
			S	41 44.0				
			L	49.7				
		LPZ	IP	15 34 07				
		SCS	P	15 34 11.0	D			
NOV	16	USCGS		15 40 56.3, 30.8N, 41.2W, H = 33 Km, M = 5.2				
				N. ATLANTIC RIDGE				
		PNS	IP	15 50 17.4	D	1.3	51.3	
		LPB	P	15 50 18.2				54.0
			EPP	52 13				
			ES	57 42				
			EL	16 07 00				
		LPZ	P	15 50 19				
NOV	16	LPB	EP	16 05 05.5				
NOV	16	LPB	EP	16 05 45.1				
		PNS	EP	16 05 45.2		0.7	3.8	
NOV	16	PNS	P	16 36 44.6		0.5	3.0	0.8
			S	36 55.7				
NOV	16	PNS	EP	16 39 06.5				
NOV	16	USCGS		17 05 37.9, 25.4N, 125.2E, H = 77 Km, M = 6.0				
				SW RYUKYU IS.				
		PNS	IPKP	17 25 26.6	C	1.2	76.2	
			PPKP	25 52.8				
		LPB	IPKP	17 25 37.0		1.0	55.0	164.7
			ESS	50 44				
			EL	18 26 00				
		LPZ	PKP	17 25 37.5				
NOV	16	PNS	EP	21 12 56.9				2.2
			S	13 23.3				
NOV	16	USCGS		23 35 08, 48.1N, 153.2E, H = 102 Km, M = 5.0				
				KURILE ISLANDS				
		LPB	EPKP	23 54 15				133.6
			EL	00 37 00				
		PNS	EPKP	23 54 15.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	17	PNS	IP	02 34 20.0	D	0.3	8.7	1.9	
			IS	34 43.2					
		LPB	EP	02 34 20					
NOV	17	PNS	EP	02 47 07.5				4.2	
			(S)	47 56.6					
		LPB	EP	02 47 09					
NOV	17	LPB	P	03 56 10.2		1.1	26.4	0.2	
			S	56 15.5					
NOV	17	USCGS	05 39 01.8, 29.5N, 41.1W, H = 33 Km, M = 4.4 N. ATLANTIC RIDGE						
		LPB	EP	05 48 16				52.5	
			EL	54 00					
		LPZ	EP	05 48 17					
		PNS	EP	05 48 26.5		1.4	22.6		
NOV	17	PNS	EP	11 09 27.4		0.4	1.3		
		LPB	EP	11 09 30					
NOV	17	PNS	EP	12 02 10.5				1.9	
			S	02 33.3					
NOV	17	LPB	P	12 09 12					
		PNS	EP	12 09 19.0		0.8	5.9		
NOV	17	PNS	IP	12 28 40.0	C	0.3	10.1	3.1	
			S	29 16					
NOV	17	PNS	IP	12 30 25.5	C	0.3	114.0	2.1	
			IS	30 50.8					
		LPB	P	12 30 28.0		1.0	48.0	2.3	
			S	30 55.5					
		LPZ	P	12 30 29					
NOV	17	PNS	EP	12 34 39.8				5.5	
			E	34 57.6					
			S	35 43					
NOV	17	USCGS	12 52 26, 31.2N, 140.2E, H = 107 Km, M = 4.2 S. OF HONSHU, JAPAN						
		LPB	EPKP	13 12 06				150.0	
			EL	14 15 00					
		PNS	EPKP	13 12 08.2		0.8	6.7		
		DSG	PKP	13 12 11.7					
				13 14 01.7				1.9	
				14 24.7					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	17	PNS	IP	14 40 50.1	D	0.4	5.5	2.6
			S	41 21.1				
NOV	17	PNS	EP	15 29 38				
NOV	17	PNS	EP	15 46 54				
NOV	17	DSG	EP	15 53 11.8				
NOV	17	PNS	IP	15 56 20.5	D	0.9	16.4	2.2
			S	56 46.2				
NOV	17	PNS	EP	16 36 15.4		0.6	3.0	
		LPB	EP	16 36 17				
		CCH	P	16 36 20.2				
NOV	17	PNS	EP	16 38 31.5				
NOV	17	PNS	EP	16 40 07.4				3.3
			S	40 46.5				
NOV	17	PNS	P	16 50 17.6				
NOV	17	PNS	EP	17 14 00.4				2.7
			(S)	14 32.7				
			E	15 30.7				
NOV	17	LPB	EP	18 36 49				
		PNS	IP	18 36 52.4	C	0.8	42.6	2.5
			S	37 22.4				
NOV	17	LPB	P	21 29 40		0.7	26.0	18.5
			S	31 01.5				
		PNS	IP	21 29 42.8	C	1.0	5.5	1.9
			S	30 06				
NOV	17	LPB	P	21 36 45.6		1.0	32.0	3.8
			S	37 29.5				
		PNS	IP	21 36 49.9	D	0.7	18.7	4.0
			S	37 37.4				
NOV	17	PNS	EP	22 03 59				2.2
			IS	04 25.0				
NOV	17	LPB	EP	22 14 09				
		PNS	IP	22 14 17.6	D	0.3	9.1	1.9
			IS	14 40.2				
				111				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	17	PNS	IP	22 25 46.1	C	0.8	101.2	3.7
			S	26 28.7				
		LPB	P	22 25 51.8		0.8	25.2	
NOV	17	PNS	EP	23 59 03	C			
			IP	59 07.5				
NOV	18	PNS	IP	00 04 54.2	D	0.6	63.9	2.0
			S	05 18.4				
		LPB	P	00 04 56.5				2.4
			S	05 22.5				
NOV	18	PNS	IP	00 10 42.8	C	0.4	21.9	3.1
			S	11 18.8				
		LPB	EP	00 10 47				3.4
			S	11 27.5				
NOV	18	LPB	EP	01 16 04				2.5
			S	16 35				
		PNS	P	01 16 05.0	0.9	11.4	2.5	
			S	16 36.2				
NOV	18	PNS	IP	02 52 17.9	D	0.6	12.1	1.9
			S	52 41				
		LPB	EP	02 52 20				
NOV	18	LPB	EP	03 28 59				3.3
			PNS	EP				
			(S)	29 40.6				
NOV	18	PNS	EP	03 51 14.6				2.6
			S	51 45.9				
NOV	18	DSG	P	05 14 46.9		0.6	7.9	2.3
			PNS	P				
			S	15 29.3				
NOV	18	PNS	EP	05 21 28.3		0.4	2.9	2.4
			(S)	21 57.7				
NOV	18	LPB	EP	05 29 29		0.9	9.5	
			PNS	EP				
NOV	18	PNS	EP	07 07 53.5				2.4
			IS	08 22.7				
NOV	18	LPB	P	07 25 15		1.2	18.2	3.3
			S	25 54.2				
		PNS	EP	07 25 18.5	D	0.6	7.3	2.7
			(S)	25 50.7				
				5 19.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	18	USCGS	09 23	03.8, 15.5N, 94.8W, H = 33 Km, M = 4.4				
			NEAR COAST OF OAXACA, MEXICO					
		LPB	EP	09 30 50				44.9
			EL	44 00				
		PNS	EP	09 30 56.8				
NOV	18	LPB	EP	11 57 31				1.3
			PNS	EP				
			(S)	57 49				
NOV	18	PNS	P	13 12 02.6	C	0.8	9.0	
NOV	18	USCGS	13 10	59.6, 18.8N, 108.0W, H = 33 Km, M = 4.6				
			OFF COAST OF JALISCO, MEXICO					
		PNS	EP	13 20 15.7				
NOV	18	PNS	P	13 34 26.5				
NOV	18	CCH	IP	16 12 20.7	D	0.3	1.8	3.7
			PNS	IP				
			I	12 59.2				
			S	13 40				
NOV	18	LPB	EP	16 12 57				3.2
			S	13 35.5				
NOV	18	PNS	EP	16 37 50				
			LPB	EP				
NOV	18	LPB	EP	17 04 50				
			PNS	EP				
NOV	18	USCGS	17 17	23.1, 7.1S, 129.5E, H = 208 Km, M = 5.4				
			BANDA SEA					
		PNS	IPKP	17 36 41.4	C	0.7	48.3	
		LPB	IPKP	17 36 51.5	C	1.0	80.0	150.7
			IPKP2	37 09				
			PPKP	37 38				
			EL	18 28 00				
		LPZ	IPKP	17 36 52				
		CCH	IPKP	17 36 57.4				
NOV	18	PNS	EP	19 32 51.4				6.2
			(S)	34 02.5				
		LPB	EP	19 32 53				
				113				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	18	USCGS	20 00 19. 18.8S, 177.9W, H = 421 Km, M = 5.6 FIJI ISLANDS REGION						
		LPZ	EP	20 13 32					
		PNS	EP	20 13 32.4	D	2.0	60.3		
			(PP)	15 13.2					
			PP	17 49.0					
		LPB	P	20 13 33.5		1.2	19.5	102.4	
			PP	17 42					
			ES	24 30					
			EL	43 00					
NOV	18	USCGS	20 47 55.9, 5.1S, 145.2E, H = 55 Km, M = 5.1 E. NEW GUINEA REGION						
		PNS	EPKP	21 07 14.6					
		LPB	EL	21 54 00				140.4	
NOV	18	PNS	IP	21 22 24.8	D	0.4	12.6		
NOV	18	PNS	EP	21 41 16.8		0.7	4.3		
		LPB	EP	21 41 37					
NOV	18	USCGS	21 58 12.4, 53.9N, 160.7E, H = 12 Km, M = 6.0 NEAR COAST OF KAMCHATKA						
		LPB	IPKP	22 17 19.8	C	1.0	120.0	127.3	
			EL	57 00					
		LPZ	IPKP	22 17 19					
NOV	18	USCGS	22 29 51.3 42.9N, 137.4E, H = 10 Km, M = 5.1 E. SPA OF JAPAN						
		LPB	PKP	22 49 33.5	D	1.0	14.0	146.2	
			EL	23 39 00					
NOV	19	USCGS	07 08 10.8, 29.6S, 178.6W, H = 33 Km, M = 5.0 KERMADEC ISLANDS REGION						
		LPB	EP	07 21 37				98.1	
			S	32 06					
			EL	54 00					
NOV	19	USCGS	07 14 13.2, 45.3N, 150.9E, H = 13 Km, M = 5.6 KUPILE ISLANDS						
		LPB	EPKP	07 33 37				136.8	
			EL	08 18 00					
NOV	19	USCGS	09 52 37.3 2. S, 77.6W, H = 183 Km, M = 4.2 PERU-ECUADOR BORDER REGION						
		LPB	P	09 56 28	C	1.0	15.0	16.3	
				9 56 29					
				9 56 46.7	C				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	19	LPB	IP	11 57 47.8	C	1.0	170.0		
			IS	58 16.5					
		LPZ	IP	11 57 48					
NOV	19	USCGS	15 11 44.5, 50.2N, 177.7E, H = 33 Km, M = 5.1 RAT IS, ALEUTIAN IS.						
		LPB	EPKP	15 30 29				114.9	
			EL	16 06 00					
NOV	19	PNS	EP	16 25 11.8	D	0.5	5.1		
NOV	19	PNS	EP	17 22 52.3		0.6	8.1		
NOV	19	DSG	P	17 36 30.2					
NOV	19	PNS	IP	18 48 55.2	C	0.3	6.1		
NOV	19	PNS	EP	18 59 46					
NOV	19	PNS	EP	21 09 36				2.6	
			S	10 07.0					
NOV	19	USCGS	22 31 19.8, 23.6N, 121.8E, H = 10 Km, M = 5.3 TAIWAN						
		LPB	EPKP	22 51 29				167.8	
			EPKP2	52 38					
			EPP	56 31					
			EL	23 49					
		PNS	EPKP	22 51 30					
			EPKP2	52 37.4					
			PP	56 32.6					
NOV	20	PNS	EP	02 33 22.8				1.9	
			S	33 45.8					
NOV	20	LPB	EP	03 57 19					
		PNS	EP	03 57 19					
NOV	20	USCGS	03 47 52.4, 15.4S, 174.5W, H = 12 Km, M = 5.2 TONGA ISLANDS						
		LPB	EP	04 01 38				100.7	
			EL	35 00					
NOV	20	PNS	EP	04 34 59.7					

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	USCGS	06 53 58, 3.3S, 143.0E, H = 34 Km, M = 5.6					
			NEAR COAST OF NEW GUINEA					
		LPB	EPKP	07 13 25			143.9	
			EL	08 01 00				
		LPZ	EPKP	07 13 26				
		PNS	EPKP	07 13 31				
			E	13 37				
NOV	20	CCH	IP	08 58 44.7	C			
		LPB	IP	08 58 57.5	C	1.2	110.5	5.2
			S	59 57.5				
		LPZ	IP	08 58 59				
		PNS	IP	08 59 02.2	C	0.6	38.5	5.6
			S	09 00 06.6				
NOV	20	USCGS	08 56 00.2, 43.8N, 87.7E, H = 28 Km, H = 5.0					
			N. SINKIANG PROVINCE, CHINA					
		PNS	IPKP	09 15 38.6	C	1.3	41.8	
		LPZ	PKP	09 15 39				
		LPB	PKP	09 15 39		1.3	14.0	145.8
			EL	10 04 00				
NOV	20	USCGS	09 56 38.6, 5.8S, 153.2E, H = 36 Km, M = 4.9					
			NEW IRELAND REGION					
		LPB	EPKP	10 15 49			133.2	
			EL	11 00 00				
		LPZ	EPKP	10 15 50				
		PNS	EPKP	10 15 56.4				
NOV	20	LPB	EP	11 54 31				
		PNS	EP	11 54 43			2.6	
			(S)	55 14.5				
NOV	20	USCGS	11 35 58.9, 11.5S, 163.0E, H = 39 Km, M = 5.1					
			SOLOMON ISLANDS					
		LPB	EPKP	11 54 53			122.3	
			EL	12 34 00				
		PNS	EPKP	11 54 54				
NOV	20	LPB	P	12 07 04		1.2	9.1	
		PNS	IP	12 07 07	C	1.1	75.5	5.3
			(S)	08 08.5				
NOV	20	CCH	IP	12 58 05.2	C			
NOV	20	PNS	P	14 07 57.4				
		LPB	P	14 07 59.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	PNS	P	14 19 57.5				2.1
			S	15 00 22.4				
NOV	20	LPB	EP	14 22 47				
		PNS	EP	14 22 49.2				
NOV	20	USCGS	15 05 39, 7.3S, 129.2E, H = 132 Km, M = 6.1					
			BANDA SEA					
		DSG	IPKP	15 25 14.7				
		LPB	IPKP	15 25 15.0	C	0.8	63.0	150.0
			I	25 20.5				
			PKS	28 30				
			SS	58 22				
			EL	16 16 00				
		LPZ	IPKP	15 25 15				
			I	25 20				
		PNS	IPKP	15 25 15.8	C	0.9	95.6	
			PKS	28 30				
			PP	28 53				
			SKS	32 30				
NOV	20	PNS	IP	16 08 14.6	C	0.7	5.8	1.9
			S	08 37.6				
NOV	20	PNS	EP	16 19 16.6		0.3	3.2	0.6
			S	19 25.8				
		LPB	EP	16 19 22				4.4
			S	20 13				
		LPZ	EP	16 19 30				
NOV	20	USCGS	16 06 12.3, 5.2S, 102.2E, H = 55 Km, M = 5.7					
			S. SUMATRA					
		LPB	EPKP	16 26 10			156.1	
			EL	17 20 00				
		PNS	EPKP	16 26 12				
			PPKP	26 37				
NOV	20	PNS	EP	16 37 25.9		0.4	12.7	4.0
			(S)	38 12				
		LPB	EP	16 37 30				
NOV	20	LPB	P	18 47 46				
		DSG	P	18 47 47.1				
		PNS	IP	18 47 50.2	D	0.9	12.4	5.4
			S	48 50.4				
NOV	20	PNS	EP	18 52 29.2	D	1.0	7.7	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	USCGS P. I. REGION	18 34	21.9, 10.1N, 126.1E, H = 65 Km, M = 4.9				
		CCH	PKP	18 54 04.2				
		PNS	EPKP	18 54 23.5				
NOV	20	PNS	P	19 00 46.2		0.8	4.2	
NOV	20	PNS	P	19 03 35.6				
NOV	20	PNS	P S	19 33 08.3 33 45.3				3.2
NOV	20	PNS	P S	19 35 46 36 08.5		0.5	2.5	1.8
NOV	20	PNS	IP IS	20 20 40.8 21 06.8	D	0.6	47.0	2.2
		LPB	P S	20 20 42.5 21 09		0.5	9.1	2.2
NOV	20	PNS	EP S	21 49 51.3 51 16.7				7.5
NOV	20	PNS	IP S	21 54 08.7 54 31.5	D	0.5	14.2	1.9
NOV	20	PNS	EP S	23 02 44.5 04 15.7				8.1
		LPB	EP	23 02 48				
NOV	21	PNS	P S	00 03 25.6 03 47.8				1.8
NOV	21	PNS	EP	02 26 14.7				
		LPB	EP	02 26 17				
		LPZ	EP	02 26 18				
NOV	21	PNS	EP	03 22 04				
NOV	21	USCGS PERU	04 29	24, 11.3S, 73.5W, H = 81 Km, M = 4.2				
		PNS	EP	04 31 06		0.7	3.5	7.1
			IPG	31 30.0				
			S	32 26.6				
		LPB	P	04 31 11.5		0.7	6.5	7.2
			ES	32 25				
		LPZ	EP	04 31 13				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	19	LPB	IP IS	11 57 47.8 58 16.5	C	1.0	170.0	
		LPZ	IP	11 57 48				
NOV	19	USCGS RAT IS, ALEUTIAN IS.	15 11	44.5, 50.2N, 177.7E, H = 33 Km, M = 5.1				
		LPB	EPKP EL	15 30 29 16 06 00				114.9
NOV	19	PNS	EP	16 25 11.8	D	0.5	5.1	
NOV	19	PNS	EP	17 22 52.3		0.6	8.1	
NOV	19	DSG	P	17 36 30.2				
NOV	19	PNS	IP	18 48 55.2	C	0.3	6.1	
NOV	19	PNS	EP	18 59 46				
NOV	19	PNS	EP S	21 09 36 10 07.0				2.6
NOV	19	USCGS TAIWAN	22 31	19.8, 23.6N, 121.8E, H = 10 Km, M = 5.3				
		LPB	EPKP EPKP2 EPP EL	22 51 29 52 38 56 31 23 49				167.8
		PNS	EPKP EPKP2 PP	22 51 30 52 37.4 56 32.6				
NOV	20	PNS	EP S	02 33 22.8 33 45.8				1.9
NOV	20	LPB PNS	EP EP	03 57 19 03 57 19				
NOV	20	USCGS TONGA ISLANDS	03 47	52.4, 15.4S, 174.5W, H = 12 Km, M = 5.2				
		LPB	EP EL	04 01 38 35 00				100.7
NOV	20	PNS	EP	04 34 59.7				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	USCGS		06 53 58, 3.3S, 143.0E, H = 34 Km, M = 5.6				
				NEAR COAST OF NEW GUINEA				
		LPB	EPKP	07 13 25			143.9	
			EL	08 01 00				
		LPZ	EPKP	07 13 26				
		PNS	EPKP	07 13 31				
			E	13 37				
NOV	20	CCH	IP	08 58 44.7	C			
		LPB	IP	08 58 57.5	C	1.2	110.5	5.2
			S	59 57.5				
		LPZ	IP	08 58 59				
		PNS	IP	08 59 02.2	C	0.6	38.5	5.6
			S	09 00 06.6				
NOV	20	USCGS		08 56 00.2, 43.8N, 87.7E, H = 28 Km, H = 5.0				
				N. SINKIANG PROVINCE, CHINA				
		PNS	IPKP	09 15 38.6	C	1.3	41.8	
		LPZ	PKP	09 15 39				
		LPE	PKP	09 15 39		1.3	14.0	145.8
			EL	10 04 00				
NOV	20	USCGS		09 56 38.6, 5.8S, 153.2E, H = 36 Km, M = 4.9				
				NEW IPELAND REGION				
		LPB	EPKP	10 15 49			133.2	
			EL	11 00 00				
		LPZ	EPKP	10 15 50				
		PNS	EPKP	10 15 56.4				
NOV	20	LPB	EP	11 54 31				
		PNS	EP	11 54 43			2.6	
			(S)	55 14.5				
NOV	20	USCGS		11 35 58.9, 11.5S, 163.0E, H = 39 Km, M = 5.1				
				SOLOMON ISLANDS				
		LPB	EPKP	11 54 53			122.3	
			EL	12 34 00				
		PNS	EPKP	11 54 54				
NOV	20	LPB	P	12 07 04		1.2	9.1	
		PNS	IP	12 07 07	C	1.1	75.5	5.3
			(S)	08 08.5				
NOV	20	CCH	IP	12 58 05.2	C			
NOV	20	PNS	P	14 07 57.4				
		LPB	P	14 07 59.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	PNS	P	14 19 57.5				2.1
			S	15 00 22.4				
NOV	20	LPB	EP	14 22 47				
		PNS	EP	14 22 49.2				
NOV	20	USCGS		15 05 39, 7.3S, 129.2E, H = 132 Km, M = 6.1				
				BANDA SEA				
		DSG	IPKP	15 25 14.7				
		LPB	IPKP	15 25 15.0	C	0.8	63.0	150.0
			I	25 20.5				
			PKS	28 30				
			SS	58 22				
			EL	16 16 00				
		LPZ	IPKP	15 25 15				
			I	25 20				
		PNS	IPKP	15 25 15.8	C	0.9	95.6	
			PKS	28 30				
			PP	28 53				
			SKS	32 30				
NOV	20	PNS	IP	16 08 14.6	C	0.7	5.8	1.9
			S	08 37.6				
NOV	20	PNS	EP	16 19 16.6		0.3	3.2	0.6
			S	19 25.8				
		LPB	EP	16 19 22				4.4
			S	20 13				
		LPZ	EP	16 19 30				
NOV	20	USCGS		16 06 12.3, 5.2S, 102.2E, H = 55 Km, M = 5.7				
				S. SUMATRA				
		LPB	EPKP	16 26 10			156.1	
			EL	17 20 00				
		PNS	EPKP	16 26 12				
			PPKP	26 37				
NOV	20	PNS	EP	16 37 25.9		0.4	12.7	4.0
			(S)	38 12				
		LPB	EP	16 37 30				
NOV	20	LPB	P	18 47 46				
		DSG	P	18 47 47.1				
		PNS	IP	18 47 50.2	D	0.9	12.4	5.4
			S	48 50.4				
NOV	20	PNS	EP	18 52 29.2	D	1.0	7.7	

NOVEMBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	20	USCGS P. I. REGION	18 34	21.9, 10.1N, 126.1E, H = 65 Km, M = 4.9				
		CCH	PKP	18 54 04.2				
		PNS	EPKP	18 54 23.5				
NOV	20	PNS	P	19 00 46.2		0.8	4.2	
NOV	20	PNS	P	19 03 35.6				
NOV	20	PNS	P S	19 33 08.3 33 45.3				3.2
NOV	20	PNS	P S	19 35 46 36 08.5		0.5	2.5	1.8
NOV	20	PNS	IP IS	20 20 40.8 21 06.8	D	0.6	47.0	2.2
		LPB	P S	20 20 42.5 21 09		0.5	9.1	2.2
NOV	20	PNS	EP S	21 49 51.3 51 16.7				7.5
NOV	20	PNS	IP S	21 54 08.7 54 31.5	D	0.5	14.2	1.9
NOV	20	PNS	EP S	23 02 44.5 04 15.7				8.1
		LPB	EP	23 02 48				
NOV	21	PNS	P S	00 03 25.6 03 47.8				1.8
NOV	21	PNS LPB LPZ	EP EP EP	02 26 14.7 02 26 17 02 26 18				
NOV	21	PNS	EP	03 22 04				
NOV	21	USCGS PERU	04 29	24, 11.3S, 73.5W, H = 81 Km, M = 4.2				
		PNS	EP IPG S	04 31 06 31 30.0 32 26.6		0.7	3.5	7.1
		LPB	P ES	04 31 11.5 32 25		0.7	6.5	7.2
		LPZ	EP	04 31 13				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	21	USCGS CE. KAZAKH SSR.	04 57	57.9, 49.8N, 78.1E, H = Km, M = 5.0				
		DSG	EPKP	05 27 23.1				
		PNS	EPKP	05 27 24.8				
		LPB	EPKP	05 27 26				136.8
			EL	06 03 00				
NOV	21	PNS	P S	06 13 52.0 14 14.5	C	0.8	6.6	1.8
NOV	21	PNS	(EP) S	06 37 10 38 44.0				8.3
NOV	21	PNS	EP	08 36 09.2				
NOV	21	LPB PNS	P EP	09 50 23.3 09 50 27.2				
NOV	21	USCGS BANDA SEA	10 31	49.7, 6.1S, 130.4E, H = 93 Km, M = 6.3				
		PNS	IPKP	10 51 30.0	C	1.5	383.9	
			I	51 36.2				
			PKS	55 02				
			PP	55 12				
			SKS	58 20				
		LPZ	PKP	10 51 30				
		LPB	PKP	10 51 30.2	C	1.7	360.0	150.7
			I	51 36.2				
			PKP2	51 47				
			PPKP	51 55				
			PP	55 36				
			ESKS	58 21				
			SS	11 14 13				
			EL	43 00				
		DSG	IPKP	10 51 31.0				
NOV	21	PNS	P	14 51 16.1				
NOV	21	PNS	P IS	16 09 06.8 09 29.1		0.9	9.2	1.8
NOV	21	PNS	EP S	16 51 42.6 52 28.1				3.9
		LPB	EP	16 51 45				
NOV	21	USCGS OFF COAST OF CENTRAL AMERICA	17 04	14, 6.8N, 84.3W, H = 33 Km, M = 4.0				
		PNS	EP	17 10 01.3				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	21	PNS	(EP) S	17 46 20.7 46 51.8				2.6
NOV	21	LPB PNS	P EP	21 39 52.5 21 39 54.3		0.7 0.5	14.3 4.9	
NOV	21	USCGS		21 39 27, 16.4N, 98.8W, H = 18 Km, M = 4.6 NEAR COAST OF GUERRERO, MEXICO				
		PNS	EP IPP	21 47 35.2 47 43.3		1.0	12.8	
		LPZ LPB	EP EP	21 47 41 21 47 41				44.5
NOV	21	DSG	IP S	22 30 02.3 30 22.6	C			
		PNS	IP S	22 30 05.6 30 28.4	D	0.2	176.0	1.9
		LPZ LPB	P IP S	22 30 06 22 30 07.5 30 30.5	D	1.0	115.0	1.9
NOV	21	PNS	IP	22 36 28.2	D	0.6	11.8	
NOV	21	USCGS		22 36 26.7, 11.2N, 62.1W, H = 134 Km, M = 4.6 WINDWARD IS.				
		PNS	IP ES	22 42 08.8 46 37.5	D	1.2	30.0	26.0
		LPZ LPB	P P EL	22 42 10 22 42 10.5 50 00		1.2	44.2	28.3
NOV	21	LPB PNS	EP (EP) E S	22 48 12 22 48 28 50 06 50 50				12.8
NOV	21	LPB PNS	EP EP	23 10 07 23 10 15.5				
NOV	22	USCGS		00 11 15, 77.5N, 16.5E, H = 33 Km, M = 5.1 SVALBARD REGION				
		LPB	EL	01 02 00				104.1
NOV	22	PNS	P	04 16 54.4		0.5	3.2	
NOV	22	PNS	P S	04 54 10.4 54 35		0.4	3.6	2.1

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	22	PNS	EP S	04 58 40.8 59 26.5				4.0
NOV	22	PNS	EP S	05 32 56.8 33 18.6				1.8
NOV	22	LPB PNS	P EP	07 14 15 07 14 15.3		0.9	21.3	
NOV	22	PNS	EP S	07 38 20 38 50.5				2.5
NOV	22	PNS	EP S	07 49 19.4 49 42.5		0.5	9.2	1.9
		LPB	EP	07 49 24				
NOV	22	PNS	EP S	08 19 40.7 20 05				2.0
NOV	22	PNS	EP	10 01 04.7				
NOV	22	USCGS		12 01 44.2, 52.1S, 15.7E, H = 33 Km, M = 5.5 SW OF AFRICA				
		LPB	P PP ES EL	12 13 15 13 23.5 22 37 36 00		2.0	200.0	73.2
		LPZ PNS	EP IP PP	12 13 16 12 13 17.5 13 25.8	D	1.8	218.3	
NOV	22	PNS	EP	13 49 52.4				
NOV	22	USCGS		14 00 27, 52. N, 176.1W, H = 49 Km, M = 5.5 ANDREANOF IS, ALUTIAN IS.				
		PNS	EPKP	14 19 02.3				
NOV	22	PNS LPB	EP EP	15 19 26 15 19 28				
NOV	22	PNS LPB	EP EP	16 36 20 16 36 54				
NOV	22	PNS	IP S LPB	16 42 45.8 43 23.6 16 42 46	C	0.5	25.7	3.2

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	22	LPZ	EP	18 17 31					
		LPB	EP	18 17 32					
		PNS	EP	18 17 33.0					
NOV	22	PNS	EP	19 04 26.9				1.8	
			S	04 49					
NOV	22	USCGS	19 09 09.4, 12. S, 167.4E, H = 326 Km, M = 5.1						
			SANTA CRUZ IS.						
		LPB	EPKP	19 28 11				118.3	
			EL	20 05 00					
NOV	22	LPB	EP	20 42 30					
		PNS	EP	20 42 34.2		0.5	6.2		
NOV	22	USCGS	20 25 30.4, 51.3N, 179.8W, H = 40 Km, M = 5.9						
			ANDREANOF IS, ALEUTIAN IS.						
		PNS	EPKP	20 44 03.7					
		LPB	EPKP	20 44 04				110.0	
			ESS	21 01 36					
			EL	21 21 00					
NOV	22	LPB	EP	20 51 13					
		PNS	EP	20 51 14.6		0.3	7.9		
NOV	22	USCGS	20 39 48, 51.4N, 179.9W, H = 16 Km, M = 5.4						
			ANDREANOF IS, ALEUTIAN IS.						
		PNS	EPKP	20 58 31.2					
NOV	22	PNS	EP	21 00 25					
NOV	22	PNS	EP	21 01 04					
NOV	22	PNS	P	21 42 35.5				2.1	
			S	43 01					
NOV	23	USCGS	01 17 31.2, 3, N, 124.8E, H = 45 Km, M = 5.6						
			CELEBES SEA						
		PNS	EPKP	01 37 32					
			PPKP	37 58.8					
			PP	42 01					
		LPZ	EPKP	01 37 32				161.1	
		LPB	EPKP	01 37 32					
			PPKP	37 57					
			EL	42 02					
			SS	02 02 18					
			EL	34 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	23	PNS	EP	02 36 32.3					
		LPB	EP	02 36 33					
NOV	23	PNS	P	03 42 35.2		0.6	6.5		
NOV	23	USCGS	05 47 53, 6.9N, 73.2W, H = 150 Km, M = 3.9						
			N. COLOMBIA						
		PNS	EP	05 52 49.1					
			PP	53 23					
NOV	23	LPB	EP	06 46 16					
		LPZ	EP	06 46 17					
		PNS	EP	06 46 28.8					
NOV	23	PNS	IP	10 04 06.8	D	0.3	6.3		
NOV	23	USCGS	10 21 00, 18.1S, 70.7W, H = 94 Km, M = 4.4						
			NEAR COAST OF N. CHILE						
		CCH	EP	10 21 06.4					
		PNS	IP	10 21 44.9	C	0.7	54.3	3.1	
			S	22 20.6					
		LPB	IP	10 21 47.5		0.6	360.0	3.0	
		LPZ	IP	10 21 48					
NOV	23	LPB	EP	10 57 15					
		CCH	P	10 57 30.2					
		PNS	EP	10 57 35.4				1.3	
			S	57 52.5					
NOV	23	PNS	IP	11 10 20.6	D	0.3	3.1	2.0	
			S	10 45.1					
NOV	23	PNS	EP	11 35 32.1		0.6	3.0		
		LPB	EP	11 35 40					
NOV	23	USCGS	11 39 44, 4.6N, 96.3E, H = 33 Km						
			N. SUMATRA						
		PNS	EPKP	11 59 42					
			I	12 00 24.9					
		LPB	EPKP	11 59 44				160.2	
NOV	23	PNS	EP	13 30 24.2					
		LPB	EP	13 30 31					
NOV	23	PNS	EP	15 20 53.1					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	23	USCGS JAVA	16 31 10,	8.7S, 111.0E,	H = 100 Km,	M = 5.8		
		LPB	EPKP	16 50 56			155.0	
			PKP2	51 20				
			EPP	54 51				
			EL	17 45				
		PNS	IPKP	16 50 56.6	D	1.4	31.5	
		LPZ	EPKP	16 50 57				
NOV	23	PNS	EP (S)	17 44 04.5 44 34.5				2.5
NOV	23	PNS	P	18 51 18.7		0.5	2.5	
NOV	23	PNS	(EP)	20 39 37				
NOV	23	PNS	EP	21 27 05.5				
NOV	23	LPB PNS	EP EP	23 36 49 23 36 49.2				
NOV	24	PNS LPB	EP P	02 52 49 02 52 51.5				
NOV	24	PNS LPB	EP EP	03 13 37 03 13 41				
NOV	24	USCGS E. IS. REGION	03 12 43,	30. S, 114.7W,	H = 33 Km,	M = 5.2		
		PNS	EP	03 21 13.6				
		LPZ	EP	03 21 14			45.8	
		LPB	EP	03 21 15				
			ES	27 00				
			L	32.5				
NOV	24	USCGS E. IS. REGION	06 43 58,	27.3S, 114.6W,	H = 33 Km,	M = 4.8		
		PNS	EP	06 52 12				
		LPZ	EP	06 52 14			44.0	
		LPB	EP	06 52 14				
			EL	07 06 00				
NOV	24	PNS	EP	07 10 47.1				
NOV	24	LPB PNS	EP IP	08 40 30 08 40 36.2 41 00.0	D	0.7	19.0	2.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	24	USCGS PERU	09 30 59,	9.7S, 74.8W,	H = 152 Km,	M = 4.2		
		PNS	EP	09 32 50				
			IPP	33 23.6				
			S	35 12				
		LPB	EP	09 32 52			9.4	
			PP	33 24				
		LPZ	EP	09 32 53				
NOV	24	PNS	IP S	10 26 16.4 27 18.8	C	0.5	4.9	5.4
NOV	24	PNS LPB	EP EP	11 04 19.3 11 04 27				
NOV	24	PNS	P IS	11 06 11.8 06 20.0		0.6	9.0	0.5
NOV	24	PNS LPB	EP S EP	11 57 45 58 26.5 11 57 51				3.5
NOV	24	PNS	EP S	12 34 26.3 34 49				1.9
NOV	24	PNS	EP	13 27 22.4				
NOV	24	USCGS SW OF SUMATRA	15 06 53.8,	2. S, 97.3E,	H = 29 Km,	M = 5.2		
		PNS	FKP	15 26 54.5				
			PKP2	27 27.9				
		LPB	EPKP	15 26 56			156.2	
			PKP2	27 29				
			EL	16 21 00				
NOV	24	USCGS	14 3' 10.9,	51.6N, 174.2W,	H = 34 Km,	M = 4.6		
			ANDREANOF IS,	ALEUTIAN IS.				
		LPB	EL	15 30 00			112.9	
NOV	24	PNS LPB	P P	16 07 54 16 07 54	D	2.0	58.8	1.0 16.0
NOV	24	LPB	P	19 44 21.2		0.8	14.0	
NOV	24	PNS	P	21 23 33.8		1.1	14.8	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	24	PNS	P	21 41 17.0		0.6	5.8	
NOV	24	PNS	P	22 30 54.6		0.5	4.8	
NOV	25	USCGS TURKEY	02 06 29.4, 37.6N, 36.6E, H = 40 Km, M = 4.8					
		LPB	EL	03 00 00				111.5
NOV	25	PNS	P	02 26 50.4				
NOV	25	USCGS	03 35 11.7, 55.2N, 163.0E, H = 33 Km, M = 5.0					
			NEAR COAST OF KAMCHATKA					
		PNS	EPKP	03 54 15				
NOV	25	LPB	EP	05 36 57				
		PNS	P	05 36 59.4				
NOV	25	PNS	EP	06 32 17.5				
NOV	25	PNS	IP	09 54 09.8	D	0.7	12.2	1.8
			S	54 32.2				
		LPB	EP	09 54 10				
NOV	25	PNS	EP	10 42 51.7				
		LPB	EP	10 42 55				
		LPZ	EP	10 42 57				
NOV	25	USCGS	10 50 38.1, 17.1S, 100.4W, H = 29 Km, M = 5.8					
			SE. COAST PACIFIC OCEAN					
		PNS	IP	10 56 53.4	C	1.2	73.0	
			I	56 56.6				
		LPZ	P	10 56 55				
		LPB	P	10 56 56		1.6	67.4	30.8
			S	11 02 07				
			L	05.4				
NOV	25	USCGS	11 43 01.7, 16.2S, 167.9E, H = 183 Km, M = 5.4					
			NEW HEBRIDES ISLANDS					
		LPB	EL	12 38 00				116.1
NOV	25	USCGS	12 28 03.3, 51.8N, 174.4W, H = 44 Km, M = 4.7					
			ANDREANOF IS. ALEUTIAN IS.					
		PNS	EPKP	12 46 40.2				

21.3

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	25	PNS	P	13 30 24.3				
NOV	25	USCGS	16 36 13, 28.1S, 176.9W, H = 32 Km, M = 5.1					
			KERMADEC ISLANDS					
		PNS	EP	16 49 48.8				
		LPB	EP	16 49 50				97.4
			EL	17 23 00				
NOV	25	LPZ	EP	17 47 34				
		LPB	EP	17 47 36				
		PNS	EP	17 47 39.8		0.4	11.6	
NOV	25	PNS	EP	19 41 37				
		LPB	EP	19 41 50				
NOV	25	PNS	EP	19 52 13.7				
		LPB	EP	19 52 15				
NOV	25	USCGS	21 24 50, 57.8S, 7.5W, H = 33 Km, M = 4.9					
			SW ATLANTIC OCEAN					
		LPB	P	21 35 02				60.8
			EL	54 00				
		LPZ	EP	21 35 02				
		PNS	EP	21 35 03.1				
NOV	25	PNS	IP	22 13 35.4	C	0.2	133.8	2.3
			S	14 03.8				
		LPB	IP	22 13 39.0		0.6	62.9	
		LPZ	IP	22 13 39				
NOV	25	USCGS	22 35 37.2, 3.9S, 150.3E, H = 457 Km, M = 5.5					
			NEW IRELAND REGION					
		PNS	EPKP	22 53 56.8		0.9	7.0	
		LPB	EPKP	22 53 58				136.8
			EL	23 40 00				
NOV	25	LPB	P	22 56 59				
		LPZ	EP	22 57 00				
		PNS	IP,	22 57 00.5	C	1.0	40.5	
NOV	25	USCGS	23 29 46.1, 6.9N, 73.1W, H = 144 Km, M = 4.9					
			N. COLOMBIA					
		PNS	P	23 34 42.3				
			IPP	35 14.3				
		LPB	P	23 34 42.5				23.4
			PP	35 20				
			EL	41 00				
		LPZ	EP	23 34 43				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	26	USCGS S. OF HONSHU, JAPAN	00 17	18.2 32.1N, 140.8E, H = 64 Km, M = 5.4				
		PNS	EPKP	00 36 58.3		1.0	28.9	
		LPZ	EPK	00 37 00				
		LPB	PKP	00 37 00.5		1.0	22.0	149.4
			EL	01 28 00				
NOV	26	USCGS N. PERU	00 25	49, 4.7S, 77.1W, H = 123 Km, M = 4.4				
		PNS	EP	00 29 07.5				13.8
			I	29 14.4				
			S	31 41				
		LPB	EP	00 29 14				14.9
			I	29 20				
NOV	26	PNS	EP	03 08 24.8				
NOV	26	USCGS N. SINKIANG PROVINCE, CHINA	06 41	20. 44. N, 88.4E, H = 33 Km, M = 4.6				
		LPB	EPKP	07 00 54				146.2
		PNS	PKP	07 00 55.7	D	1.0	10.4	
NOV	26	PNS	IP	09 36 41.4	D	0.3	11.1	
		LPB	P	09 36 43.5				
NOV	26	USCGS BRAZIL	12 48	40, 8.6S, 71.0W, H = 553 Km, M = 3.5				
		PNS	IP	12 50 16.4	D	0.6	13.5	
		LPB	EP	12 50 20				8.1
NOV	26	PNS	IP	14 51 57.6	D	0.3	6.8	
NOV	26	PNS	IP	18 34 15.7				1.9
			S	34 39.0				
NOV	26	PNS	P	19 24 02.6				
NOV	26	PNS	IP	21 10 05.5	C	0.5	9.6	
NOV	26	PNS	EP	23 55 57.8		0.5	8.0	3.4
			S	56 37.7				
		LPZ	EP	23 56 04				
		LPB	P	23 56 05.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	27	LPB PNS	EP EP	01 39 00 01 39 03.0			0.8	6.2
NOV	27	USCGS NEW BRITAIN REGION	01 29	49.5, 6.1S, 148.5E, H = 56 Km, M = 5.8				
		LPB	EPKP	01 48 59				137.2
			PPKP	48 10.5				
		LPZ	EPKP	01 49 00				
		PNS	EPKP	01 49 00.5				
			IPPKP	49 13.9				
NOV	27	USCGS SOUTH OF HONSHU, JAPAN	03 04	20.6, 30.6N, 140.2E, H = 60 Km, M = 5.2				
		LPB	EPKP	03 24 07				150.3
			PPKP	24 12.8				
			ESS	47 10				
			EL	04 15 00				
		PNS	EPKP	03 24 07.6		1.2	21.4	
			I	24 41.2				
		LPZ	EPKP	03 24 08				
			EL	04 15 00				
NOV	27	SCS	P	03 27 11.9	D			
NOV	27	USCGS CENTRAL MID-ATLANTIC RIDGE	03 53	36.3, 7 N, 26.0W, H = 33 Km, M = 4.6				
		LPB	P	04 01 51		1.0	14.0	47.8
		LPZ	P	04 01 52				
		PNS	EP	04 01 52.7	C	1.2	21.4	
NOV	27	USCGS SOUTH OF HONSHU, JAPAN	03 44	04.9, 30.5N, 140.2E, H = 41 Km, M = 5.0				
		PNS	PKP	04 03 54.6				
		LPB	PKP	04 06 56				150.3
			EL	56 00				
NOV	27	USCGS SOUTH OF PANAMA	04 37	13, 3.9N, 82.5W, H = 28 Km, M = 4.2				
		PNS	EP	04 42 31.3		0.7	7.5	
		LPZ	EP	04 42 34				
		LPB	EP	04 42 34		1.0	12.0	24.2
			PP	43 04				
			EL	00 50 00				
NOV	27	CCH SCS LPB LPZ PNS	IP IP IP IP IP	00 05 23 24.4 05 24 08.7 05 24 14.7 05 24 15 05 24 16.1			0.9	255.0
					C	0.4	61.4	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	27	USCGS	05 48 11, 24.7S, 70.8W, H = 33 Km, M = 4.4 NEAR COAST OF N. CHILE						
		LPB	EP	05 50 16				8.7	
		LPZ	EP	05 50 16					
		PNS	IP	05 50 16.8	C	0.5	3.7		
		SCS	EP	05 50 17.2					
NOV	27	PNS	IP	09 02 03.8	C	1.0	38.8		
		LPB	IP	09 02 04.5	C	1.0	40.0		
		LPZ	P	09 02 05					
			I	02 09					
		SCS	EP	09 02 06.5					
NOV	27	SCS	P	12 01 39.5	D				
		LPB	EP	12 01 49					
		PNS	IP	12 01 52.9	D	0.7	9.8	4.3	
			S	02 42.5					
NOV	27	PNS	(PP)	12 06 22.6				3.6	
			S	07 05.0					
NOV	27	USCGS	12 01 51.9, 9.7S, 159.7E, H = 51 Km, M = 6.3 SOLOMON ISLANDS						
		CCH	EPKP	12 20 43.2					
		PNS	IPKP	12 20 51.5	C	1.0	15.1		
		LPB	PKP	12 20 52.5		1.0	30.0	126.0	
		LPZ	EPKP	12 20 53					
NOV	27	PNS	P	13 06 47.7	D	0.5	11.0	2.9	
			S	07 12					
NOV	27	PNS	EP	14 01 57.5					
NOV	27	SCS	P	14 02 03.5	D				
NOV	27	PNS	P	15 18 21.2		0.5	7.9	2.2	
			S	18 47.0					
		LPB	P	15 18 24					
NOV	27	USCGS	14 44 24, 10.7S, 163.4E, H = 33 Km, M = 5.4 SOLOMON ISLANDS						
		LPB	EL	15 43 00				122.3	
NOV	27	PNS	P	18 31 09.00		0.3	11.0		
NOV	27	PNS	IP	23 34 49.3	C	0.3	18.1	2.5	
			S	35 19.2					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	27	PNS	EP IS	23 44 14.3 44 36.8				1.8	
NOV	28	PNS	EP IS	02 49 36.5 49 48.4	D	0.3	20.4	0.9	
NOV	28	USCGS	03 56 45.9, 45.6S, 72.4W, H = 33 Km, M = 5.8 NEAR COAST OF S. CHILE						
		LPB	IP	04 02 44				29.6	
			S	07 42					
			SS	09 00					
			L	10.9					
		LPZ	IP	04 02 48				30.5	
			S	07 52					
			L	10.5					
		PNS	IP	04 02 50.5	C	1.9	833.0	30.0	
			S	07 51.2					
			SS	09 11.7					
NOV	28	USCGS	05 26 05.6, 36.1N, 27.7E, H = 89 Km, M = 5.9 DODECANESE IS.						
		PNS	EP	05 40 05.6					
			PP	44 19.4					
NOV	28	PNS	EP	06 08 14.5					
NOV	28	PNS	P	07 09 10.4					
NOV	28	PNS	EP	09 28 54					
NOV	28	PNS	EP	13 04 50.1		0.9	73.1		
NOV	28	USCGS	12 51 20.5, 30.2S, 176.4W, H = 41 Km, M = 5.3 KERMADEC ISLANDS						
		LPB	EL	13 38 00				102.4	
NOV	28	PNS	(EP) S	13 58 56 14 01 20				13.0	
NOV	28	PNS	(EP) S	15 01 30.6 02 11.2				3.5	
NOV	28	PNS	EP	15 33 58.9	D	0.7	9.2		
NOV	28	PNS	EP	18 17 55.5					

NOVEMBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	28	USCGS W. NEW GUINEA	18 57	20.7, 2.4S, 138.1E, H = 32 Km, M = 4.9				
		PNS	IPKP	19 17 07.0	C	1.2	51.9	
		LPB	EL	20 06 00				147.6
NOV	28	USCGS S. SUMATRA	21 31	47.3, 4.9S, 103.2E, H = 87 Km, M = 5.9				
		LPB	PKP	21 51 37.5				156.6
			EL	22 45 00				
		PNS	EPKP	21 51 37.6		1.5	65.4	
			I	52 27.2				
NOV	28	PNS	P	23 26 28.2		0.4	4.3	1.9
			S	26 51.5				
NOV	28	PNS	P	23 42 10.0				
NOV	29	PNS	IP	01 19 49.0	D	0.5	49.9	2.8
			S	20 11.8				
		LPB	IP	01 19 51		0.5	14.3	
NOV	29	USCGS ANDREANOF IS. ALEUTIAN IS.	01 24	46, 51.7N, 175.6W, H = 60 Km, M = 4.3				
		PNS	EPKP	01 43 20				
NOV	29	USCGS S. PACIFIC CORDILLERA	05 01	27, 54.1S, 133.5W, H = 33 Km, M = 4.9				
		CCH	P	05 11 33.2				
		SCS	IP	05 11 45.7	D			
		LPB	IP	05 11 48.6	D	1.1	143.0	61.8
			ES	20 26				
			L	31 00				
		PNS	IP	05 11 49.6	D	1.4	191.9	
NOV	29	PNS	EP	08 06 30.8				
NOV	29	USCGS KURILE ISLANDS	09 00	08.3, 45.1N, 146.5E, H = 153 Km, M = 5.3				
		LPB	EPKP	09 19 11				139.5
			EL	10 06 00				
		PNS	EPKP	09 19 12.8				
NOV	29	USCGS CELEBES SEA	10 21	27.1, 4.7N, 124.3E, H = 490 Km, M = 5.0				
		LPB	EPKP	10 41 40				162.9

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
NOV	29	USCGS N. CELEBES	13 47	17, 0.0N, 123.4E, H = 180 Km, M = 5.4				
		LPB	EPKP	14 07 00				159.3
			EL	15 02 00				
		PNS	PKP	14 07 00.3	C	1.3	27.6	
			PPKP	07 51.5				
			I	08 22.6				
NOV	29	USCGS N. PERU	17 07	01.6, 6. S, 78.6W, H = 33 Km, M = 5.4				
		PNS	EP	17 10 22.5				13.7
			IPP	10 32.6				
			S	12 55				
		LPB	EP	17 10 29				14.4
		LPZ	EP	17 10 30				
		SCS	P	17 10 35.1	D			
NOV	29	SCS	P	17 16 35.1				
NOV	29	SCS	EP	17 53 48.0				
		PNS	EP	17 53 54.6		0.6	2.0	3.9
			S	54 40				
		LPB	EP	17 53 57				
		LPZ	EP	17 54 00				
NOV	29	PNS	EP	17 57 24				
		LPB	EP	17 57 25				
NOV	29	PNS	P	18 47 56.6		0.5	4.5	
NOV	29	PNS	IP	18 50 10.2	D	0.3	72.5	
		SCS	IP	18 50 12.4	D			
		LPB	IP	18 50 12.8				
		LPZ	IP	18 50 30				
NOV	29	USCGS E. IS. CORDILLERA	18 50	31, 32.5S, 109.0W, H = 33 Km, M = 4.7				
		PNS	EP	18 58 05.2		0.4	4.7	
		LPB	EP	18 58 06.5				40.0
			ES	19 04 18				
			EL	09 00				
NOV	30	LPB	EP	03 07 30				
		PNS	IP	03 07 54.8	C	0.5	10.2	
		DSG	IP	03 08 08.3				
NOV	30	PNS	IP	03 45 45.3	D	0.5	11.3	2.1
			S	46 09.9				
		LPB	EP	03 45 46				
		SCS	EP	03 45 49.6				2.1
			S	46 14.4				
		LPZ	EP	03 45 50				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	30	PNS	P	05 50 02.9				3.6	
			S	50 45.4					
		CCH	P	05 50 32.3					
NOV	30	USCGS	09 16 11.6, 6.9N, 73.0W, H = 159 Km, M = 4.7 N. COLOMBIA						
		PNS	IP	09 21 08.3	C	0.4	2.0		
			PP	21 41.2					
		LPB	EP	09 21 11				23.3	
			EL	26 00					
		LPZ	EP	09 21 12					
		SCS	P	09 21 21.7	D				
			PP	21 58.2	D				
NOV	30	USCGS	09 44 41.6, 18.4S, 71.0W, H = 62 Km, M = 4.1 NEAR COAST OF N. CHILE						
		DSG	IP	09 45 25.2	D				
		PNS	IP	09 45 32.2	D	1.5	772.5		
		LPZ	IP	09 45 34					
		LPB	IP	09 45 34.2		1.2	1405.0	3.3	
			IPG	45 46					
			S	46 07					
			L	46.5					
		SCS	IP	09 45 36.3	D				
NOV	30	CCH	IP	09 45 54.2	C				
NOV	30	PNS	EP	11 43 20.4		0.9	7.5		
		LPB	EP	11 43 22					
NOV	30	PNS	EP	12 01 01.7					
NOV	30	LPB	P	12 28 34		0.9	42.5		
		PNS	IP	12 28 34.4	D	1.0	29.5		
NOV	30	USCGS	12 34 55, 26. N, 109.8W, H = 33 Km, M = 4.7 GULF OF CALIFORNIA						
		PNS	EP	12 44 47.8					
NOV	30	PNS	IP	14 27 59.2	D	0.8	14.2		
NOV	30	PNS	EP	14 57 47.0					
NOV	30	LPB	EP	16 40 26					
		PNS	EP	16 40 26.2		0.4	2.4		
NOV	30	PNS	IP	18 01 55.5	D	0.4	17.0		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
NOV	30	PNS	EP	18 08 46.4					
			S	10 15.7				7.9	
NOV	30	PNS	EP	19 52 12					
NOV	30	USCGS	19 47 26, 17. S, 175.5E, H = 33 Km, M = 5.0 FIJI ISLANDS REGION						
		PNS	EP	20 01 12.9					
		LPB	EP	20 01 14				100.8	
		DSG	P	20 01 20.9					
NOV	30	LPB	EP	22 19 07					
		PNS	EP	22 19 17.6				6.3	
			S	20 29.2					
NOV	30	USCGS	22 29 53, 22.7S, 176.2W, H = 77 Km, M = 5.4 S. OF FIJI ISLANDS						
		PNS	P	22 43 31.9					
		LPB	EL	23 17 00				99.4	
NOV	30	PNS	EP	23 09 10.9					
			I	09 18.1				4.4	
			S	10 02.0					
		LPB	P	23 19 15.5					

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DEC	1	USCGS	00 56 03, 3.2S, 142.2E, H = 76 Km, M = 5.1 NEAR COAST OF NEW GUINEA						
		LPB	EPKP	01 15 32				144.0	
		PNS	PKP	01 15 32.1	C	1.1	15.7		
DEC	1	USCGS	01 46 08, 30.9S, 72.0W, H = 33 Km, M = 4.3 NEAR COAST OF CENTRAL CHILE						
		LPB	EP	01 49 41		1.1	20.6	14.4	
			EL	53 00					
		PNS	EP	01 49 41.2		1.1	14.2		
		LPZ	EP	01 49 42					
DEC	1	LPB	P	03 05 04.5		1.0	14.0		
		LPZ	EP	03 05 05					
		PNS	IP	03 05 07.4	C	1.4	105.0		

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	1	USCGS	02 34 40,	51.2N, 175.5E,	H = 33 Km,	M = 4.8		
			RAT IS, ALEUTIAN IS.					
		PNS	EPKP	02 53 21				
		LPB	EL	03 28 00				113.6
DEC	1	LPB	P	05 33 49.5		1.0	12.0	
		LPZ	EP	05 33 50				
		PNS	EP	05 33 51				
DEC	1	LPB	EP	06 01 12				
		PNS	EP	06 01 12				
		LPZ	EP	06 01 13				
DEC	1	USCGS	07 26 25,	51.8N, 172.1E,	H = 33 Km,	M = 4.8		
			NEAR IS, ALEUTIAN IS.					
		PNS	EPKP	07 45 04.8				
DEC	1	PNS	(EP)	10 33 32.5				
DEC	1	USCGS	10 29 58,	24. N, 5.1E,	H =	Km, M = 5.0		
			S. ALGERIA					
		LPB	EP	10 42 23				82.4
		PNS	IP	10 42 23.6	C	0.9	13.9	
DEC	1	PNS	IP	11 01 51.0	D	0.7	54.3	2.0
			S	02 14.8				
DEC	1	USCGS	14 17 16.9,	4.5S, 139.7E,	H = 33 Km,	M = 4.5		
			W. NEW GUINEA					
		PNS	IPKP	14 36 52.9	C	0.9	47.8	
		LPZ	PKP	14 36 54				
		LPB	IPKP	14 36 54.5		1.0	35.0	146.0
			EL	15 00 00				
DEC	1	PNS	IP	15 37 14.2		0.3	4.7	
DEC	1	PNS	IP	16 43 36.2		0.4	3.3	
		LPB	EP	16 43 42				
DEC	1	USCGS	17 09 06.4,	42. S, 87.9E,	H = 33 Km,	M = 5.2		
			SE INDIAN RISE					
		LPB	EL	18 03 00				117.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	1	USCGS	20 22 01,	16.3N, 95.8W,	H = 62 Km,	M = 4.4		
			OAXACA, MEXICO					
		PNS	EP	20 29 50.2		1.0	12.3	
		LPB	EP	20 29 51				42.3
DEC	1	LPB	EP	22 31 41.5				
		LPZ	EP	22 31 42				
		PNS	EP	22 31 43.2				
DEC	2	USCGS	00 36 30.1,	16.4S, 69.6W,	H = 196 Km,	M = 5.2		
			PERU-BOLIVIA BORDER REGION					
		PNS	IP	00 37 02.3	D			
		LPZ	IP	00 37 05				
		LPB	IP	00 37 05	D	0.4	1600	1.6
			ES	37 14.2				
DEC	2	PNS	EP	01 47 47.5	C	0.4	5.7	2.0
			S	48 11.6				
DEC	2	PNS	IP	03 59 32.3				2.3
			S	59 59.5				
		LPB	IP	03 59 33.0	D	1.0	30.0	
		LPZ	P	03 59 34				
DEC	2	LPB	EP	04 31 43				
		PNS	EP	04 31 46.4		0.5	3.3	
DEC	2	PNS	EP	04 53 53.5				
DEC	2	LPZ	EP	05 34 24				
		LPB	P	05 34 26.8		0.5	14.3	
		PNS	IP	05 34 27.5				1.9
			S	34 51				
DEC	2	LPB	EP	06 42 20				
		PNS	IP	06 42 22	C	0.6	8.0	
DEC	2	USCGS	06 45 55,	37.7N, 29.4E,	H = 41 Km,	M = 4.6		
			TURKEY					
		LPB	EP	06 59 37				105.7
			EL	07 36 00				
DEC	2	PNS	EP	07 31 23.2				
DEC	2	PNS	IP	07 55 36.4				2.1
			S	56 01.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	2	PNS LPB LPZ	EP EP EP	08 35 28 08 35 29 08 35 30		0.6	11.3	
DEC	2	PNS	EP	09 53 08.6				
DEC	2	USCGS SAN JUAN PROVINCE, ARGENTINA		10 16 27, 31.3S, 68.5W, H = 46 Km, M = 4.6				
		LPB	IP	10 19 58.0				14.8
			I	20 18				
			EL	25 00				
		LPZ	EP	10 19 59				
			I	20 19				
			LL	25 00				
		PNS	EP	10 19 59				
			I	20 12				
DEC	2	PNS	EP	10 30 41.6		0.5	7.2	
DEC	2	USCGS NEAR COAST OF NEW GUINEA		13 26 45.7, 2.9S, 142.0E, H = 51 Km, M = 5.1				
		PNS	IPKP	13 46 19.9	D	0.9	63.4	
		LPB	IP	13 46 20		1.0	50.0	144.5
			PPKP	46 33				
			SS	14 08 39				
DEC	2	PNS	EP	13 49 13.2				
DEC	2	USCGS CHILE-BOLIVIA BORDER REGION		14 06 28, 21.5S, 67.4W, H = 231 Km, M = 4.0				
		LPB	IP	14 07 43.5		0.4	400.0	5.4
			S	08 40				
		LPZ	IP	14 07 45				
		PNS	IP	14 07 47.8	C	0.5	60.6	5.0
			S	08 48.5				
DEC	2	LPB PNS	EP EP	14 24 14 14 24 16.8				
DEC	2	PNS	EP	16 35 09				
DEC	2	PNS	IP	16 59 01.5	C	0.3	3.5	
DEC	2	PNS LPB	EP S EP	20 33 14 33 44 20 33 15				2.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	2	USCGS TONGA ISLANDS		23 38 13.3, 15.3S, 173.1W, H = 20 Km, M = 5.5				
		LPB	EL	00 25 00				99.5
DEC	3	LPB PNS LPZ	P IP S EP	01 02 51 01 02 51.2 03 32.3 01 02 52	C	0.8 0.5	15.0 22.7	3.5
DEC	3	PNS	IP	02 52 51.4	D	0.6	9.6	
DEC	3	USCGS JAVA		03 03 34, 6.2S, 112.9E, H = 574 Km, M = 5.0				
		PNS	EPKP	03 22 30.6				
			PKP2	23 04.8				
		LPB	EPKP	03 22 31				157.3
DEC	3	PNS	IP	03 30 19.7				
DEC	3	LPZ PNS LPB	EP IP S EP	06 47 10 06 47 22.4 47 47.8 06 47 26	C	0.3	15.4	2.1
DEC	3	USCGS TONGA ISLANDS		06 45 02.5, 20.4S, 174.2W, H = 33 Km, M = 5.4				
		PNS	EP	06 58 37				
		LPB	EP	06 58 38				98.1
			ES	07 09 14				
			EL	31 00				
DEC	3	CCH	EP	08 35 54.0	C			
DEC	3	USCGS PERU-ECUADOR BORDER REGION		08 32 25, 3.6S, 77.9W, H = 32 Km, M = 4.7				
		PNS	EP	08 36 05.4		0.9	10.7	15.2
			S	38 53.7				
		LPB	EP	08 36 08				15.1
			I	36 15				
			EL	40 00				
		LPZ	EP	08 36 10				
			I	36 15.5				
			EL	39.8				
DEC	3	LPB PNS	EP EP	09 03 30 09 03 56				1.5 26.9

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	3	PNS LPB	EP EP	09 35 10.8 09 35 12		0.4	3.8	
DEC	3	USCGS		09 55 50, 4.5S, 79.9W, H = 89 Km, M = 4.5				
				PERU-ECUADOR BORDER REGION				
		PNS	EP	09 59 33.4	C	1.0	9.8	2.8
		S	S	10 00 07.1				
		LPB	P	09 59 38.5		1.0	25.0	15.7
DEC	3	PNS	IP	10 22 10.0	C	0.4	3.3	2.2
		S	S	22 35.6				
DEC	3	PNS	EP	10 53 36.8				5.6
		(S)	(S)	54 42				
		LPB	EP	10 53 39		1.0	12.0	
DEC	3	LPB	P	11 03 47.2		0.7	13.0	
		PNS	IP	11 03 50.9	C	0.5	22.7	
DEC	3	USCGS		13 17 45.6, 51.4N, 179.4E, H = 40 Km, M = 4.6				
				RAT IS, ALEUTIAN IS.				
		PNS	EPKP	13 36 37				
DEC	3	PNS	IP	15 24 13.8	C	1.0	23.3	
		LPB	IP	15 24 15.5		0.8	50.4	
DEC	3	USCGS		15 21 23.5, 47.4S, 100.0E, H = 33 Km, M = 5.5				
				SE INDIAN RISE				
		PNS	EPKP	15 40 02.5				115.2
		LPB	EL	16 16 00				
DEC	3	LPB	P	16 56 08.8		0.6	28.5	
		LPZ	EP	16 56 09				
		PNS	EP	16 56 10.8		0.5	7.9	3.1
		S	S	56 46.6				
DEC	3	USCGS		18 48 26.4, 6.8N, 73.0W, H = 164 Km, M = 4.7				
				N. COLOMBIA				
		PNS	EP	18 53 22				
		PP	PP	53 54.4				
DEC	3	PNS	IP	18 56 37.5	D			2.0
		S	S	57 02				
DEC	3	PNS	(EP)	19 53 19.9				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	3	USCGS		20 29 51, 55.9S, 127.6W, H = 33 Km, M = 4.7				
				S. PACIFIC CORDILLERA				
		PNS	EP	20 39 50				
		LPZ	EP	20 39 51		1.1	12.6	
		LPB	EP	20 39 51				58.9
			ES	48 17				
			EL	58 00				
DEC	3	PNS	IP	21 17 00	D	0.9	9.6	
DEC	3	USCGS		21 17 33.6, 36.3N, 69.5E, H = 19 Km, M = 5.5				
				HINDU KUSH REGION				
		LPB	EPKP	21 37 00				137.7
			EL	22 23 00				
		PNS	PKP	21 37 00.2	D	0.8	9.4	
DEC	4	PNS	EP	00 25 48.8				
DEC	4	PNS	IP	02 06 07.5	D	0.4	2.8	3.5
		S	S	06 48.4				
		LPZ	EP	02 06 08				
		LPB	EP	02 06 08				
DEC	4	USCGS		02 11 49.9, 51.3N, 170.6W, H = 18 Km, M = 5.5				
				FOX IS ALEUTIAN IS.				
		LPB	EPKP	02 30 20				110.6
			EL	03 03 00				
		PNS	EPKP	02 30 22				
DEC	4	PNS	IP	02 34 12.9	D	0.4	9.9	2.8
		S	S	34 46.0				
		LPZ	P	02 34 17				
		LPB	IP	02 34 17.8		0.9	59.5	
		S	S	34 56				
DEC	4	USCGS		03 00 46.8, 36.1S, 103.1W, H = 33 Km, M = 4.8				
				S. PACIFIC OCEAN				
		LPB	EP	03 07 52				36.8
			ES	13 50				
			EL	18 00				
		PNS	IP	03 07 52.4	D	0.9	12.8	3.2
		(S)	(S)	08 30.4				
		LPZ	EP	03 07 53				
			EL	18 00				
		SCS	EP	03 08 07.5	D			
DEC	4	SCS	EP	03 08 00.8	D			

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	4	USCGS		03 25 31, 45.8S, 76.1W, H = 33 Km, M = 4.8				
				OFF COAST OF S. CHILE				
		PNS	EP	03 31 22.4				
		LPZ	EP	03 31 30				
		LPB	EP	03 31 31				29.7
DEC	4	PNS	IP	03 55 50.5	C	0.3	5.1	2.1
			S	56 16				
DEC	4	PNS	IP	04 45 35.0				
DEC	4	USCGS		04 56 51, 51.7N, 178.8W, H = 78 Km, M = 4.5				
				ANDREANOF IS, ALEUTIAN IS.				
		LPB	EPKP	05 15 23				115.6
			EL	52 00				
		PNS	EPKP	05 15 24.2				
DEC	4	PNS	IP	12 11 08.8	D	0.3	4.1	7.1
			(S)	12 28.4				
		LPB	EP	12 11 10				
DEC	4	PNS	EP	12 27 41.8				
DEC	4	PNS	EP	16 43 28.4				0.3
			S	43 34.8				
DEC	4	USCGS		16 39 58.4, 34.2N, 26.2E, H = 21 Km, M = 4.9				
				CRETE				
		PNS	EPKP	16 58 31.6				
DEC	4	USCGS		17 16 29.1, 3.9S, 79.2W, H = 33 Km, M = 4.3				
				NEAR COAST OF ECUADOR				
		PNS	EP	17 20 16.3				
		LPB	EP	17 20 17				16.2
DEC	4	SCS	EP	18 44 54.7	D			
DEC	4	LPB	P	19 44 18.5				
		PNS	EP	19 44 22.8				7.6
			S	45 49.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	4	USCGS		19 58 19.8, 30.4S, 67.9W, H = 127 Km, M = 4.3				
				SAN JUAN PROVINCE, ARGENTINA				
		LPB	EP	20 01 24				
			EL	05 00				13.5
		LPZ	EP	20 01 26				
		PNS	EP	20 01 27				
DEC	4	PNS	IP	20 55 32.3		0.2	4.2	3.1
			S	56 09				
DEC	4	SCS	IP	23 12 45.4	D			
DEC	5	SCS	P	02 59 12.5	D			
DEC	5	PNS	EP	03 10 50.4				
DEC	5	PNS	IP	03 12 46.0	D	0.2	27.7	2.1
			S	13 11.5				
		LPB	P	03 12 46				
DEC	5	LPB	P	03 15 48.5		1.0	16.0	
		LPZ	EP	03 15 49				
		PNS	EP	03 15 50.5				
DEC	5	PNS	EP	03 23 05		0.5	9.4	2.3
			S	23 33.0				
DEC	5	PNS	IP	04 18 48.3	C	0.5	11.0	0.4
			S	18 56.0				
		LPB	EP	04 18 49				
DEC	5	PNS	IP	07 08 55.6	C			1.9
			S	09 18.3				
DEC	5	SCS	P	09 53 30.5	D			
DEC	5	PNS	IP	12 23 49.8	C			4.0
			S	24 37				
		LPB	P	12 23 51				
		LPZ	EP	12 23 52				
DEC	5	PNS	EP	13 53 32.4				2.1
			S	53 57.0				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	5	PNS	EP S	16 40 12.4 40 40.8				2.3
DEC	5	USCGS TAIWAN		16 30 59.3, 23.9N, 121.7E, H = 52 Km, M = 5.2				
		PNS	EPKP	16 51 06.7				168.0
		LPB	EPKP EL	16 51 10 17 50 00				
DEC	5	USCGS		18 14 50.2, 52.6N, 173.2E, H = 36 Km, M = 5.5 NEAR IS, ALEUTIAN IS.				
		LPB	EPKP	18 33 28				112.3
DEC	5	LPB LPZ PNS	EP EP EP S	20 36 37 20 36 38 20 36 58.6 41 10		1.0	15.6	24.0
DEC	5	USCGS		22 01 27.7, 23.3N, 94.5E, H = 13 Km, M = 5.5 BURMA-INDIA BORDER REGION				
		LPB	EPKP	22 21 32				162.4
		LPZ	EPKP	22 21 32				
		PNS	PKP	22 21 32.4	C	1.0	12.0	
DEC	6	PNS	EP	03 39 24.8				
DEC	6	LPB PNS	EP EP S	04 44 22 04 44 23 45 16				4.6
		CCH	EP IS	04 44 37.8 45 31.9	C			4.7
DEC	6	LPB PNS	EP (EP) S	04 45 06 04 45 15 46 14				5.1
DEC	6	USCGS		04 39 11, 12.7N, 87.3W, H = 47 Km, M = 4.6 NEAR COAST OF NICARAGUA				
		LPB	EP EL	04 46 59 59 00				42.3
DEC	6	PNS	EP S I	04 51 02.4 51 51 52 09.0				4.1
DEC	6	PNS	P S	06 24 57.1 25 27.6				2.5

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	6	PNS LPB	EP EP	08 14 03.6 08 14 04		1.0	19.2	
DEC	6	PNS	EP	08 36 22				
DEC	6	PNS CCH	P S P	09 03 38.5 04 04.4 09 03 42.2				2.2
DEC	6	USCGS		10 20 25, 19. N, 108.2W, H = 33 Km, M = 3.8 REVILLA GIGEDO ISLANDS REGION				
		PNS	EP I PP	10 29 36.5 31 03.4 31 47.4				
		LPB	EL	10 50 00				52.7
DEC	6	USCGS		11 34 53.7, 18.9N, 107.1W, H = 37 Km, M = 5.9 OFF COAST OF JALISCO, MEXICO				
		PNS	EP IPP IS	11 43 58.6 44 00.0 51 26.7		0.6	3.3	53.0
		LPB	EP IPP PP S EL	11 44 01 44 04 46 07 51 35 58 00				51.9
		LPZ	EP IPP S EL	11 44 03 44 07 51 35 58 00				54.0
DEC	6	LPB PNS	P P S	13 02 38 13 02 53.9 04 10.3		1.0 0.4	20.0 4.6	6.7
DEC	6	USCGS		18 42 33.2, 18.8N, 107. W, H = 40 Km, M = 5.1 OFF COAST OF JALISCO, MEXICO				
		PNS	IP	18 51 38.4	C	0.9	10.4	
		LPZ	P	18 51 40				
		LPB	P EL	18 51 41 19 07 00		0.7	14.3	51.8
DEC	6	LPB LPZ PNS	P P IP I	21 32 20.5 21 32 21 21 32 24.1 32 31.4		0.9 0.9	13.6 11.5	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	7	PNS	P	03 19 16.2		0.5	5.0	2.1
			S	19 41.7				
		LPB	EP	03 19 20				
DEC	7	PNS	P	03 26 52.7		0.6	3.3	
		LPB	EP	03 26 53				
DEC	7	USCGS		03 44 41.2, 3.5S, 78.1W, H = 46 Km, M = 4.4				
				PERU-ECUADOR BORDER REGION				
		PNS	EP	03 48 24.2				15.7
		LPB	EP	03 48 29				
			EL	52 00				
		LPZ	EP	03 48 30				
DEC	7	PNS	(EP)	03 53 13.8				
DEC	7	PNS	EP	06 28 43				5.7
			S	29 47.8				
		LPB	EP	06 28 51				
DEC	7	CCH	IP	07 10 18.2	D			
DEC	7	PNS	IP	08 22 15.5	D	0.3	3.0	2.6
			S	22 46.7				
DEC	7	LPB	EP	08 52 23				
		PNS	IP	08 52 24.8	C	0.7	7.1	2.1
			S	52 50				
DEC	7	PNS	P	09 49 53.6				1.9
			S	50 16.4				
DEC	7	USCGS		11 15 07, 18.9S, 69.6W, H = 116 Km, M = 4.3				
				N. CHILE				
		PNS	IP	11 15 50.5	C			0.8
			S	16 10				
DEC	7	PNS	EP	13 51 19.6				
DEC	7	PNS	P	16 49 49.5		0.4	2.8	
DEC	7	USCGS		17 18 25, 5.8S, 151.7E H = 46 Km, M = 5.0				
				NEW BRITAIN REGION				
		PNS	EPKP	17 37 43.7				
		LPB	EL	18 22 00				134.6

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	7	PNS	IP	20 00 38.9	D	0.3	15.6	
DEC	7	USCGS		21 25 34, 43.4S, 38.5E, H = 22 Km, M = 5.0				
				PRINCE EDWARD IS. REGION				
		PNS	EP	21 38 33.5				
DEC	7	USCGS		22 19 14.8, 6.4S, 146.3E, H = 109 Km, M = 6.4				
				E. NEW GUINEA REGION				
		SCS	EPKP	22 38 22.4	D			
		PNS	IPKP	22 38 22.8	D	0.8	11.1	
			PPKP	38 50				
		LPB	PKP	22 38 23.0		1.0	18.0	138.6
			PPKP	38 49				
			EL	23 24 00				
		LPZ	EPKP	22 38 23				
			PPKP	38 34				
DEC	8	USCGS		02 55 35, 15.7S, 74.5W, H = 61 Km, M = 4.2				
				NEAR COAST OF PERU				
		LPB	EP	02 57 06				6.4
		PNS	EP	02 57 07.2		0.7	5.5	7.3
			IS	58 30.5				
		LPZ	EP	02 57 08				
		SCS	EP	02 57 28.1	D			
DEC	8	SCS	EP	05 04 53.7	D			
DEC	8	SCS	P	05 05 00.2	D			
DEC	8	USCGS		05 25 17, 33.1N, 130.5E, H = 33 Km, M = 4.5				
				KYUSHU, JAPAN				
		PNS	EPKP	05 45 12.6				
DEC	8	USCGS		06 25 56.8, 18.4S, 69.3W, H = 131 Km, M = 3.8				
				N. CHILE				
		SCS	IP	06 26 29.8	D			
		LPB	IP	06 26 34.0		0.8	105.0	2.7
			ES	27 00				
		LPZ	IP	06 26 35				
			S	27 04				
		PNS	IP	06 26 35.7	D	0.6	367.5	
		CCH	IP	06 26 36.8	C			
				147				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	8	USCGS BANDA SEA		06 43 35, 7.1S, 128.9E, H = 159 Km, M = 5.2				151.1
		LPB	PKP I PKP2 EL	07 03 07.2 03 13.0 03 21.5 55 00				
		LPZ	EPKP I	07 03 08 03 14				
		PNS	EPKP I	07 03 08 03 13.2		0.9	5.2	
		SCS	PKP	07 03 12.4	D			
DEC	8	CCH LPB PNS	P P EP	07 44 15.9 07 44 20.5 07 44 22.5		0.8 0.9	9.8 5.2	
DEC	8	PNS	EP	08 01 19.6				
DEC	8	PNS	EP	09 24 35.8				
DEC	8	PNS	EP	09 53 12.8				
DEC	8	PNS	EP	10 17 15.8		0.4	2.3	
DEC	8	PNS	EP	12 58 46.5		0.3	5.0	
DEC	8	LPB PNS	EP EP	13 10 24 13 10 27.2				
DEC	8	PNS	EP	13 16 18.7	C	0.4	2.3	
DEC	8	PNS	EP S	14 04 06.7 04 29.8				1.9
DEC	8	PNS	IP S	14 29 21.9 29 45	D	0.5	5.5	1.9
DEC	8	USCGS		18 05 26.1, 37.1S, 177.5E, H = 165 Km, M = 5.8 OFF E. COAST OF NORTH IS, N.Z.				
		PNS	EP PP ES	18 18 49.1 19 30.8 29 13.6		1.2	9.2	85.0
		LPB	EP EPP ES EL	18 18 50 19 31 29 20 52 00				98.1

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	8	PNS	EP	21 55 51.4		0.3	1.0	
DEC	8	LPB PNS	EP EP	22 18 39 22 18 40.4		0.9	4.2	
DEC	8	SCS	P	23 15 53.1				
DEC	8	PNS LPB	IP S EP	23 19 37.9 20 25.6 23 19 38	C	0.7	7.1	4.0
DEC	9	PNS LPB	EP (S) EP	01 23 28 24 24.9 01 23 31				5.0
DEC	9	PNS	EP	01 38 17.2		0.3	1.5	
DEC	9	USCGS		02 52 43.8, 43.5S, 39.0E, H = 33 Km, M = 5.3 PRINCE EDWARD IS. REGION				
		LPB	EP ESS EL	03 05 50 22 27 35 00				90.9
		PNS LPZ	EP EP	03 05 51.7 03 05 52		1.3	10.3	
DEC	9	PNS	EP	03 37 22.6				
DEC	9	SCS	IP	04 16 15.2	D			
DEC	9	PNS	EP	04 31 17.0				
DEC	9	USCGS		06 07 48.6, 17.3N, 100.0W, H = 57 Km, M = 6.0 GUERRERO, MEXICO				
		PNS	IP S	06 16 04.4 22 49.4	C	2.1	1978.2	46.0
		LPB	IP PP S SS G L	06 16 07.7 16 24.5 22 44 26 03 26.5 30.8	C	2.0	500.0	46.4
		LPZ	IP PP EL	06 16 08 16 25 31 00				
		CCH	EP	06 16 29.3				
DEC	9	PNS	IP S	08 33 56.6 34 18.6	D	0.7	5.5	1.8

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	9	PNS	EP	08 45 44.0		0.4	0.9		
DEC	9	PNS LPB	EP EP	11 08 52.6 11 08 55		0.8	2.8		
DEC	9	SCS	IP	12 04 16.5	D				
DEC	9	PNS	EP	12 29 27					
DEC	9	PNS	EP S	12 58 09.4 58 36.6	C	0.4	1.4	2.3	
DEC	9	PNS	EP	13 09 17.6		1.0	6.0		
DEC	9	USCGS		13 12 55.5, 18. S, 178.2W, H = 650 Km, M = 5.6 FIJI ISLANDS REGION					
		PNS	EP	13 25 53.2		0.9	5.2		
			E	30 15.2				104.0	
		LPB	EP	13 25 55					
			EL	14 01 00					
DEC	9	USCGS		13 25 40.7, 17.7S, 178.3W, H = 650 Km, M = 5.1 FIJI ISLANDS REGION					
		LPB	EP	13 39 43				104.1	
			EL	14 15 00					
DEC	9	LPB PNS	P IP IS	14 04 20 14 04 21.9 04 50	C	0.5	17.7	2.3	
DEC	9	PNS	EP	16 13 52					
DEC	9	CCH LPB PNS	IP EP IP	19 42 05.3 19 43 07 19 43 15.2	C	0.8	10.9		
DEC	9	PNS	EP	20 43 15			14.2		
DEC	9	USCGS		20 26 04, 27.5N, 92.5E, H = 22 Km, M = 5.3 INDIA-CHINA BORDER REGION					
		LPB	EPKP	20 46 03		1.0	3.6	159.3	
		PNS	EPKP	20 46 04					
		LPB	P	21 08 44	C	1.0 0.5	20.0 9.4	3.5	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	10	PNS	IP	02 26 42.8	D	0.3	2.4		
DEC	10	PNS LPB	IP EP	02 40 59.4 02 41 01	D	0.5	2.8		
DEC	10	USCGS		02 59 15.9, 6.5S, 80.8W, H = 30 Km, M = 4.6 NEAR COAST OF N. PERU					
		PNS	IP	03 03 02.8		0.9	81.5		
		LPZ	IP	03 03 03					
			I	03 07					
		LPB	IP	03 03 03.5		1.0	20.0	15.3	
			I	03 07.5					
		SCS	P	03 03 16.0	C				
DEC	10	CCH	P	03 31 39.8					
DEC	10	PNS LPZ LPB	EP EP EP	03 52 40.2 03 52 41 03 52 43		0.4	6.0		
DEC	10	PNS	P	05 23 27.8					
DEC	10	PNS	EP	08 05 15.6					
DEC	10	PNS	EP	09 05 15.6		0.3	1.0	4.3	
			S	06 05.2					
		LPB	EP	09 05 43.5					
		LPZ	EP	09 05 45					
DEC	10	CCH SCS LPB	IP IP IP	09 18 25.9 09 18 26.6 09 18 34	C C C	0.7	65.0		
			S	19 09.5					
		LPZ	IP	09 18 35					
		PNS	IP	09 18 38.4	C	0.6	70.7	3.5	
			S	19 19.5					
DEC	10	LPB PNS	EP EP	10 03 08.5 10 03 12.5	D	0.9	10.0 9.1		
DEC	10	TRJ	P	10 27 34.3	D				
DEC	10	PNS	EP	12 04 08.5					
DEC	10	PNS	EP	12 41 36.0		0.5	2.1		
DEC	10	PNS	EP	13 34 47.1		0.4	1.3		



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	10	LPZ	EP	16 37 45					
		LPB	EP	16 37 46					
		PNS	EP	16 37 49.8				3.1	
			S	38 26.8					
		SCS	P	16 37 57.7	D				
DEC	10	PNS	EP	18 43 49.8				2.0	
			S	44 13.3					
DEC	10	LPZ	P	18 56 07					
			LPB	EP	18 56 07	D	1.0	50.0	
			PNS	EP	18 56 07.8		1.0	34.7	
DEC	10	PNS	EP	20 47 34.4		0.4	1.1	2.9	
			S	48 08.8					
DEC	10	PNS	EP	20 51 55.6				1.8	
			ES	52 28					
DEC	10	PNS	IP	21 11 29.1	D	0.4	1.6		
DEC	10	USCGS SANTA CRUZ IS.	21 53	17.4, 11.4S, 166.2E, H = 55 Km, M = 5.8					
			PNS	EPKP	22 12 02.4		0.8	3.6	
			LPB	EPKP	22 12 05				119.5
				EL	50 00				
DEC	10	PNS	EP	22 22 16.3		1.0	6.9		
			LPB	P	22 22 17				
DEC	10	PNS	EP	23 52 18.4		0.2	1.3	1.4	
			S	52 36.4					
DEC	11	USCGS SOLOMON ISLANDS	00 01	28.4, 4.4S, 155.0E, H = 510 Km, M = 5.1					
			LPB	EPKP	00 19 42				132.3
				I	19 48.4				
				PP	22 29.5				
				EL	01 04 00				
			LPZ	EPKP	00 19 42				
				I	19 48				
				EPP	22 30				
			PNS	IPKP	00 19 47.9	D	0.5	24.0	
			SCS	PKP	00 19 48.4	D			
DEC	11	SCS	P	00 22 29.6	D				
DEC	11	LPB	EP	00 37 10		1.0	10.0		
			PNS	EP	00 37 12		0.5	1.1	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	11	LPB	EP	01 40 46					
			PNS	IP	01 40 46.4	D	0.9	85.0	
			S	41 12		0.6	17.4	2.2	
DEC	11	PNS	IP	02 16 42.6	D	0.3	1.9		
DEC	11	USCGS SANTIAGO DEL ESTERO, ARGENTINA	03 40	42, 27.6S, 63.1W, H = 571 Km, M = 4.1					
			LPB	EP	03 43 22		0.8	98.0	12.2
				S	45 29.5				
			LPZ	EP	03 43 22				
			PNS	EP	03 43 25.8		0.9	22.1	10.0
				I	43 24.2				
		S	45 35.8						
DEC	11	USCGS PERU-BOLIVIA BORDER REGION	04 29	42, 17.5S, 69.4W, H = 154 Km, M = 3.9					
			SCS	P	04 30 07.5	D			
			LPB	IP	04 30 13.0	D	0.5	22.1	3.0
				PN	30 31.5				
				PG	30 41				
			LPZ	EP	04 30 13.5				
				PG	30 41				
			PNS	IP	04 30 14.3	D	0.4	37.8	
				PG	30 43.0				
DEC	11	PNS	IP	07 15 39.4	D	0.4	21.3	1.8	
			S	16 01.0					
DEC	11	LPB	EP	07 15 41.5		0.7	6.0	1.9	
			(S)	16 05					
DEC	11	PNS	EP	07 35 36		0.9	10.0		
DEC	11	CCH	IP	08 04 00.1	C				
			LPB	P	08 04 37.8				
			PNS	IP	08 04 42.1	D	0.5	5.3	
DEC	11	CCH	P	10 52 50.1					
			LPB	EP	10 53 30				3.0
				S	54 05				
			PNS	EP	10 53 30		0.2	1.3	3.9
		S	54 15						
DEC	11	LPB	EP	11 20 49		1.4	20.0		
			PNS	EP	11 20 50.3				
DEC	11	PNS	IP	13 09 53.3	D	0.5	6.4		
			LPB	EP	13 09 55				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	11	USCGS LA RIOJA PROVINCE, ARGENTINA		13 40 13, 29.7S, 67.0W, H = 29 Km, M = 5.0				
		LPB	EP	13 43 22				12.9
			I	43 33				
		LPZ	EP	13 43 24				
		PNS	EP	13 43 27.4		0.8	5.3	17.0
			E	43 38.2				
			ES	46 43				
DEC	11	PNS	IP	15 19 17	C	0.4	1.8	
DEC	11	PNS	EP	16 35 21.9				4.5
			(S)	36 14.0				
DEC	11	PNS	EP	16 38 03		0.4	1.8	
DEC	11	PNS	EP	16 40 16				
DEC	11	PNS	EP	18 28 56.4		0.3	3.4	2.4
			S	29 25.8				
DEC	11	PNS	IP	20 45 28.4	D			
DEC	11	USCGS OFF COAST OF N. PERU		21 48 29, 7.1S, 81.9W, H = 33 Km, M = 4.2				
		PNS	EP	21 52 15.0				
			E	52 18.4				
		LPZ	EP	21 52 18				
		LPB	EP	21 52 19.5		1.0	15.0	15.8
DEC	11	USCGS NEAR COAST OF CENTRAL CHILE		22 10 06, 38.2S, 73.4W, H = 33 Km, M = 4.6				
		LPB	EP	22 15 02		1.1	39.0	22.1
			PP	15 11.5				
		LPZ	EP	22 15 03				
		PNS	EP	22 15 03.4		1.5	57.8	
DEC	11	USCGS SOUTH OF KERMADEC ISLANDS		22 39 50, 33.1S, 178.8W, H = 33 Km, M = 5.1				
		LPB	EP	22 53 23				97.2
			EL	23 26 00				
DEC	12	USCGS ANDREANOF IS, ALEUTIAN IS.		00 48 01.7, 51.5N, 178.9W, H = 50 Km, M = 5.0				
		LPB	EPKP	01 06 45				115.4
			EL	42 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	12	PNS	EP	01 28 26.6				
			S	28 51.4		0.3	1.9	2.1
DEC	12	USCGS N. CHILE		01 57 33.4, 22.4S, 68.7W, H = 119 Km, M = 4.3				
		SCS	EP	01 58 55.7				
		LPB	IP	01 59 02	C	0.7	19.5	6.0
			PN	59 04				
			I	59 21.0				
		LPZ	EP	01 59 02				
		PNS	IP	01 59 03.8	C	0.6	16.1	5.2
			I	59 24.0				
			S	02 00 04				
DEC	12	SCS	P	01 59 06.7				
DEC	12	PNS	EP	02 54 59.2		0.5	2.1	
DEC	12	PNS	EP	05 07 33.3		0.3	3.4	
DEC	12	PNS	EP	05 38 14.8	D	0.3	3.4	
DEC	12	LPB	IP	07 00 46.8	C	0.9	25.5	
		PNS	IP	07 00 49.8	C	0.6		
DEC	12	USCGS KERMADEC ISLANDS		07 20 53.7, 27.9S, 177.9W, H = 10 Km, M = 4.9				
		LPB	EL	08 07 00				98.1
DEC	12	PNS	IP	08 28 56.8	D	0.4	2.2	
DEC	12	PNS	EP	09 20 37.1		0.4	1.3	
DEC	12	PNS	EP	10 09 52		0.5	2.7	
		LPB	EP	10 09 52				
DEC	12	PNS	EP	11 40 04.9	D	0.3	5.8	
		LPB	EP	11 40 06				
DEC	12	CCH	IP	11 56 01.2	D			
		LPB	IP	11 56 27.0		0.5	52.0	2.2
			S	56 53				
		PNS	IP	11 56 33.9	D	0.6	70.7	3.1
			S	57 08.4				
DEC	12	PNS	EP	12 19 06.4				
			(S)	19 40.2				2.9

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	12	PNS	EP (S)	12 33 20.2 33 55.0				2.9
DEC	12	PNS	EP E	13 08 11.0 08 52.0		0.4	1.8	
DEC	12	LPB PNS	EP EP	14 59 29 14 59 32.5		0.9	5.0	
DEC	12	PNS	EP S	15 11 40.0 12 12.8				2.8
DEC	12	SCS	IP	15 53 51.1	D			
DEC	12	PNS	EP S	16 10 46.0 12 35.8		0.4	0.9	9.8
DEC	12	USCGS TONGA ISLANDS REGION	16 40	14.3, 23.3S, 175.5W, H = 32 Km, M = 5.0				
		LPB	EP EL	16 53 47 17 28 00				98.6
DEC	12	PNS	EP S	17 24 13.4 24 56.8				3.7
DEC	12	PNS	IP S	18 13 01.3 13 31.2	D	0.3	4.3	2.5
DEC	12	USCGS N. COLOMBIA	18 34	32.6, 6.8N, 73.0W, H = 162 Km, M = 4.6				
		LPB	EP (PP)	18 39 26 39 31.5				23.3
		PNS	EP (PP)	18 39 29.6 40 04		0.7	4.6	
DEC	12	LPB PNS	EP EP	19 43 19 19 43 39		0.7	4.6	
DEC	12	PNS	EP S	21 04 02.6 04 25				1.8
DEC	12	USCGS ECUADOR	22 25	14.1, 1.5S, 77.7W, H = 191 Km, M = 4.2				
		PNS	EP S	22 29 06.0 32 19.0	C	0.9	10.0	16.0

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	12	USCGS	22 35	58.5, 29.3S, 60.6E, H = 33 Km, M = 5.3				
		ATLANTIC-INDIAN RISE						
		LPB	EPKP EL	22 54 24 23 29				112.5
DEC	13	PNS	IP S	02 05 18.4 05 57.0	C			3.3
		LPB	EP S	02 05 23 06 07		1.0	10.0	
DEC	13	LPB PNS	EP EP	04 03 17 04 03 17.2		0.5	1.6	
DEC	13	USCGS	03 44	49, 5.7S, 133.8E, H = 33 Km, M = 5.2				
		AROE IS. REGION						
		LPB	PKP ESKS EL	04 04 35.5 11 17 55 00		1.0	14.0	148.9
		PNS	EPKP I	04 04 36.5 04 40.2		1.8	55.3	
		SCS	PKP	04 04 38.4	D			
DEC	13	USCGS	05 45	12.7, 44.1N, 150.2E, H = 33 Km, M = 5.4				
		KURILE ISLANDS REGION						
		LPB	EPKP EL	06 04 39 50 00				137.5
		PNS	EPKP	06 04 45.4				
DEC	13	CCH SCS LPB	IP P IP	08 56 03.0 08 56 18.1 08 56 28.0	D D			
			S	56 55		0.5	26.0	2.3
		PNS	IP S	08 56 36.3 57 10.0	D	0.5	24.0	2.8
DEC	13	LPB PNS	EP EP	10 45 46 10 45 49.0		1.1 1.1	11.5 8.9	
DEC	13	USCGS	10 52	08.5, 44.7N, 150.1E, H = 35 Km, M = 5.7				
		KURILE ISLANDS REGION						
		PNS	EPKP PPKP PKS	11 11 30.8 11 44.5 15 00.9		1.4	37.4	
		LPB	EPKP PPKP ESS EL	11 11 32 11 46.0 15 02.6 32 30				137.2



MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	13	USCGS KURILE ISLANDS REGION	14 46	10.2, 44.7N, 150.2E, H = 33 Km, M = 5.4				
		LPB	EPKP	15 05 30				137.1
			SS	26 35				
			EL	52 00				
DEC	13	SCS	(EP)	15 17 03.5				
DEC	13	USCGS S. SANDWICH ISLANDS REGION	15 08	27, 56.1S, 27.6W, H = 157 Km, M = 5.2				
		SCS	EP	15 16 59.6	D			
		LPB	IP	15 17 08.0		1.0	75.0	49.7
			PP	18 07.5				
			S	24 11				
		PNS	IP	15 17 11.0	C	0.9	150.0	49.0
			I	17 39.0				
			IS	24 15.8				
DEC	13	USCGS NEW HEBRIDES ISLANDS REGION	16 50	16.8, 14.1S, 170.2E, H = 638 Km, M = 5.0				
		LPB	EL	17 44 00				114.6
		PNS	EPKP	17 45 48.8				
DEC	13	PNS	IP	18 28 00.7	D	0.5	4.8	2.2
			S	28 26.8				
DEC	13	PNS LPB	EP EP	19 20 12 19 20 15				
DEC	13	USCGS BALLENY IS. REGION	20 09	27, 62.2S, 165.4E, H = 33 Km, M = 5.2				
		LPB	EP	20 22 30				91.2
			EL	52 00				
		PNS	EP	20 22 31.5		1.1	10.3	
		LPZ	EP	20 22 32				
DEC	13	PNS	EP	22 39 23.3		0.4	1.3	
DEC	13	USCGS KURILE ISLANDS REGION	22 37	37.2, 44.7N, 150.0E, H = 33 Km, M = 5.0				
		PNS	EPKP	22 57 04				
		LPB	EPKP	22 57 06				137.4
			EL	23 43 00				
DEC	13	USCGS KURILE ISLANDS	22 53	17.1, 44.7N, 149.9E, H = 33 Km, M = 5.0				
		LPB	EPKP	23 12 42				137.4

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	13	PNS	EP	23 42 18.8			0.4	0.9
DEC	13	PNS	EP S	23 45 50 46 34.4			0.4	0.9 3.8
DEC	14	USCGS NEAR S. COAST OF S. HONSHU, JAPAN	00 04	04.9, 33.9N, 136.7E, H = 358 Km, M = 4.6				
		PNS	IPKP	00 23 19.5	C		0.6	9.0
		LPZ	EPKP	00 23 20				
		LPB	PKP	00 23 20				151.2
DEC	14	PNS LPB	EP EP	01 49 10.4 01 49 10.5			0.8	3.6
DEC	14	SCS	IP	03 55 07.3	C			
DEC	14	PNS LPB	EP EP	04 00 02 04 00 03			0.8	3.6
DEC	14	USCGS NEAR COAST OF N. CHILE	04 55	14, 18.3S, 70.4W, H = 50 Km, M = 4.8				
		PNS	IP	04 56 06.9	D	1.5	802.5	
		LPB	IP	04 56 09.2				3.1
			PP	56 20				
			SN	56 41				
			S	56 47				
		LPZ	EP	04 56 09.5				
			SN	56 40.5				
		CCH	EP	04 56 28				
DEC	14	PNS	EP	05 26 52.6	C	0.4	1.8	
DEC	14	SCS	P	05 41 38.5	D			
DEC	14	USCGS S. SANDWICH ISLANDS REGION	05 34	04.8, 56. S, 27.6W, H = 1.08 Km, M =				
		LPB	IP	05 42 50	C	0.8	14.0	50.0
			IPP	43 20				
		LPZ	EP	05 42 52				
		PNS	IP	05 42 53.0	C	0.9	11.1	
			IPP	43 23.2				
			E	47 53.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	14	USCGS EASTER IS. CORDILLERA		06 06 47, 35. S, 111.4W, H = 33 Km, M = 5.1				
		PNS	EP	06 14 42.5		1.4	17.0	
		LPZ	EP	06 14 46				
		LPB	EP	06 14 47		1.5	52.0	42.1
			S	18 21				
			EL	27 00				
DEC	14	PNS	EP	06 15 40				1.5
			(S)	15 58.8				
		LPB	P	06 15 40		1.0	20.0	
DEC	14	LPB	P	06 42 46	C	0.6	72.0	
		LPZ	IP	06 42 46.5				
		PNS	IP	06 42 47.6	C	0.6	77.1	3.2
			S	43 25.4				
DEC	14	PNS	EP	08 01 35.8		0.9	4.0	
		LPB	EP	08 01 42				
DEC	14	PNS	IP	08 06 52.8	C	0.4	8.0	
		LPB	EP	08 06 56				
DEC	14	SCS	IP	09 23 30.9	C			
DEC	14	USCGS CHILE-BOLIVIA BORDER REGION		10 23 28.5, 21.4S, 68.5W, H = 144 Km, M = 3.9				
		LPZ	IP	10 24 41				
		LPB	IP	10 24 41.5		0.7	143.0	5.0
		PNS	IP	10 24 44.9	C	0.6	225.5	4.8
			S	25 40				
DEC	14	SCS	P	10 45 25.3	D			
DEC	14	PNS	IP	10 46 44.6	D	0.3	5.8	1.9
			S	47 08.1				
DEC	14	PNS	EP	11 38 16.8		0.3	0.8	1.9
			S	38 40.2				
DEC	14	LPB	P	12 04 35		1.0	42.0	
		LPZ	EP	12 04 37				
		PNS	IP	12 04 39.8	C	0.5	80.0	6.9
			S	05 58				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	14	USCGS GUATEMALA		14 21 05.3, 14.4N, 89.8W, H = 276 Km, M = 4.9				
		PNS	IP	14 27 54.1				
			ES	33 30.6	C	0.7	34.2	36.0
		LPB	P	14 27 57.5		0.8	8.4	37.8
			EL	40 00				
DEC	14	PNS	EP	15 15 58.9		0.6	2.6	5.0
			S	16 56.3				
DEC	14	PNS	EP	15 31 08.3		0.3	0.9	
DEC	14	PNS	EP	15 32 27.2		0.3	1.4	1.9
			S	32 50				
DEC	14	PNS	IP	16 42 57		0.3	3.4	
DEC	14	PNS	EP	18 19 01.1				3.5
			(S)	19 42.5				
		LPB	EP	18 19 07				
DEC	14	PNS	EP	19 04 45				10.7
			S	06 45.3				
DEC	14	PNS	EP	20 27 04.5				9.9
			S	28 55.2				
		LPB	EP	20 27 10				
DEC	14	PNS	EP	21 57 31.5				
DEC	15	PNS	EP	01 08 15.8				3.2
			S	09 53.3				
		LPB	EP	01 08 20				
		LPZ	EP	01 08 21				
DEC	15	PNS	EP	01 26 28				4.1
			S	27 15.8				
DEC	15	USCGS N. OF ASCENSION ISLANDS		02 26 10.5, 3.3S, 12.0W, H = 33 Km, M = 4.8				
		LPB	EP	02 35 54				57.9
			EL	54 00				
		LPZ	EP	02 35 54				
		PNS	EP	02 35 55				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	15	PNS	P S	04 41 47.6 42 09.1				1.7
DEC	15	USCGS BURMA		04 43 47, 22.2N, 94.6E, H = 106 Km, M = 5.3				
		LPB	EPKP PKS EL	05 03 32 07 08 06 01 00				162.0
		PNS	EPKP PKS	05 03 37 07 05				
DEC	15	PNS	P	05 08 06.3		0.3	2.7	
DEC	15	USCGS N. CELEBES		08 22 21.9, 0.0N, 123.7E, H = 162 Km, M = 5.9				
		LPB	PKP PKP2 PP	08 42 08 42 48 46 28		1.0	10.0	159.3
		LPZ	EPKP	08 42 08				
		PNS	PKP PKP2 I PP	08 42 08.1 42 48.2 43 24.0 46 44		1.4	30.6	
DEC	15	USCGS N. CELEBES		09 06 20, 0.2N, 123.9E, H = 216 Km, M = 4.8				
		PNS	EPKP I	09 26 00.8 26 40.4				
		LPB	EPKP EPP	09 26 25 30 53				161.3
DEC	15	PNS	P S	10 01 14.9 01 46.8				2.7
DEC	15	USCGS KURILE ISLANDS REGION		10 22 22.5, 44.8N, 150.3E, H = 67 Km, M = 5.3				
		PNS	EPKP	10 41 40				
		LPB	EPKP EL	10 41 40 11 28 00				137.2
DEC	15	PNS LPB	EP EP	12 15 08.2 12 15 11				
DEC	15	USCGS S. PACIFIC CORDILLERA		12 09 36.4, 57. S, 141.5W, H = 33 Km,				
		LPB	EP ES EL	12 20 26 30 20 41 00				67.1
		PNS	EP	12 20 26.4				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	15	PNS LPB	EP EP	12 33 54.2 12 34 04				
DEC	15	PNS	IP S	17 18 55.9 19 29	C	0.4	5.0	2.8
DEC	15	PNS	EP	17 51 23				
DEC	15	LPB PNS	EP EP	19 07 51 19 07 51.7				
DEC	15	USCGS S. PACIFIC CORDILLERA		19 19 51, 56.8S, 142.0W, H = 33 Km, M = 5.7				
		LPB	IP PP L	19 30 45.5 30 56.5 51.7		1.0	45.0	67.3
		LPZ PNS	IP IP	19 30 46 19 30 46.2	C	0.9	112.7	
DEC	15	PNS	EP S	20 35 00 35 40				3.4
DEC	15	LPB PNS	EP P S	22 22 51 22 23 00 23 32.4		0.3	16.9	2.7
DEC	15	USCGS S. OF PANAMA		23 05 20.7, 7.5N, 82.2W, H = 15 Km, M = 6.0				
		PNS	IP I S	23 11 05.8 11 11.3 15 27	C	0.9	35.2	25.5
		LPZ	EP	23 11 06				27.0
		LPB	ES EP PP ES L	15 44 23 11 06 12 05 15 43 18.7				17.9
DEC	16	PNS	P	01 36 04.4		0.4	2.2	
DEC	16	PNS LPB	EP EP	06 33 21.2 06 33 23				
DEC	16	PNS	EP	09 23 55				
				163				



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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	16	PNS	EP	09 25 02.0		0.5	16.0	5.0
			(S)	25 58.8				
		LPZ	EP	09 25 08				
		LPB	EP	09 25 10				
DEC	16	USCGS		10 09 23.3, 47.4S, 99.7E, H = 33 Km, M = 5.6				
			SE INDIAN RISE					
		LPB	EL	11 04 00				115.2
DEC	16	LPB	EP	12 12 41				1.4
		PNS	EP	12 12 48				
			S	13 06				
DEC	16	PNS	IP	13 17 01.5	D	0.5	37.3	2.2
			S	17 28.2				
DEC	16	USCGS		13 38 22, 35.3S, 105.0W, H = 33 Km, M = 5.1				
			S. PACIFIC OCEAN					
		PNS	IP	13 45 38.4	C	1.1	93.4	
			I	47 00.2				
		LPB	P	13 45 39.5				37.8
			ES	51 34				
			L	56.5				
DEC	16	LPB	EP	14 16 29				
		PNS	IP	14 16 31.0	C	0.8	12.5	
DEC	16	PNS	P	17 12 07.2		0.2	8.0	2.5
			S	12 36.8				
DEC	16	LPB	P	17 24 30.5		0.7	13.0	
		PNS	IP	17 24 31.9	D	1.0	31.2	4.4
			I(S)	25 24				
DEC	16	PNS	IP	18 23 17.9	C	0.3	5.8	3.2
			S	23 55.2				
DEC	16	LPB	P	18 41 19		0.9	25.5	
		PNS	IP	18 41 20.5	D	0.7	45.6	2.2
			S	41 46.6				
DEC	16	PNS	IP	19 53 15.8				15.8
			S	56 10				
		LPB	EP	19 53 21				
DEC	16	PNS	IP	20 25 56.0	C	1.5	1086.5	
		LPB	P	20 26 01.5				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	16	USCGS		22 46 30, 22.4S, 68.5W, H = 116 Km, M = 5.5				
			N. CHILE					
		LPB	IP	22 47 58.2	D	0.8	280.0	5.9
			IPP	48 07.4				
			PG	48 25.7				
			S	49 06				
			L	49.6				
		PNS	IP	22 48 01.6		0.8	222.5	3.8
			S	48 46				
DEC	16	SCS	IP	23 03 48.3	D			
DEC	17	SCS	EP	02 59 37.8				
DEC	17	PNS	EP	03 43 39		0.3	4.8	
DEC	17	LPB	EP	05 03 02				
		PNS	EP	05 03 02.8		1.0	26.6	
DEC	17	PNS	IP	05 05 47	D	0.5	112.2	
		LPB	IP	05 05 49	D	0.8	35.0	
DEC	17	SCS	IP	05 21 54.2	D			
DEC	17	USCGS		06 12 32.8, 8.7N, 39.3W, H = 33 Km, M = 4.7				
			CENTRAL MID-ATLANTIC RIDGE					
		PNS	EP	06 19 02				
		LPB	EP	06 19 39		1.1	11.5	38.2
			EPP	19 51				
			ES	25 44				
			EL	31 00				
DEC	17	USCGS		06 17 24.7, 8.6N, 39.4W, H = 33 Km, M = 5.3				
			CENTRAL MID-ATLANTIC RIDGE					
		LPB	P	16 24 41.4	D	1.3	98.0	37.8
			PP	24 52				
			ESS	33 21				
			EL	36 00				
		PNS	IP	06 24 43.0	D	1.0	196.3	37.0
			S	30 31.6				
DEC	17	SCS	IP	06 41 44.9	D			
DEC	17	LPB	IP	09 13 45	D	0.7	13.0	2.3
			S	14 12				
		PNS	IP	09 13 53.5	D	0.5	64.2	2.8
			S	14 27				



MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	17	PNS	EP IS	09 15 01.4 15 35.0				2.9	
DEC	17	SCS	IP	09 29 35.3	D				
DEC	17	USCGS	10 54 50.5, 8.5N, 39.6W, H = 33 Km, M = 4.7 CENTRAL MID-ATLANTIC RIDGE						
		PNS	EP I S	11 02 03.6 02 08.4 07 56.6		0.8	13.3	38.0	
		LPB	EP PP EPP	11 02 07 02 17.5 03 41		1.2	39.0	37.9	
DEC	17	PNS	EP	13 36 01.4					
DEC	17	USCGS	16 10 46.3, 21.8N, 142.6E, H = 298 Km, M = 5.0 MARIANA ISLANDS REGION						
		LPB	EPKP EL	16 30 07 17 22 00				150.3	
DEC	17	PNS	IP (S)	16 32 21.8 32 38.4	C	0.3	36.3	0.3	
		LPZ	EP	16 32 24					
		LPB	IP S	16 32 26.6 32 36.5	C	0.4	32.0	0.6	
DEC	17	USCGS	21 13 41.9, 6.9N, 73.0W, H = 168 Km, M = 4.6 N. COLOMBIA						
		PNS	IP (S)	21 18 37.9 19 12	D	0.9	60.3	2.3	
		LPB	EP PP EL	21 18 41 19 14.5 26 00		0.7	19.5	23.4	
DEC	17	LPB	IP	22 47 47	C	0.6	18.0		
		PNS	IP S	22 47 48.0 48 28	C	0.3	33.9	3.4	
		LPZ	EP	22 47 48					
		TRJ	IP	22 48 13.7	C				
DEC	17	SCS	IP	23 03 48.3	C				
DEC	17	TRJ	P	23 38 20.1	C				
DEC	17	TRJ	P S	23 42 48.7 43 17.9				2.4	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	18	TRJ PNS	P P	03 02 03.7 03 03 02.1	D		0.3	1.4	
DEC	18	TRJ	IP	05 59 39.1	D				
DEC	18	USCGS	05 57 45.8, 28.7S, 67.3W, H = 116 Km, M = 4.2 LA RIOJA PROVINCE, ARGENTINA						
		LPB	EP	06 00 39				12.7	
		PNS	EP	06 00 42					
DEC	18	PNS	P	07 02 05.3					
DEC	18	PNS	EP S	07 15 30 16 00.9				2.6	
		LPB	EP	07 15 35					
DEC	18	PNS	EP	08 32 25.4					
DEC	18	USCGS	08 30 45.8, 44.7N, 149.9E, H = 33 Km, M = 5.5 KURILE ISLANDS						
		PNS	IPKP	08 50 08.8					
		LPB	PKP	08 50 09		0.8	9.8	137.7	
DEC	18	TRJ	EP	11 30 47.0	D				
DEC	18	LPB	IP	11 34 38		0.4	2150.0		
		PNS	IP S	11 34 38.6 35 06.7	C	1.1	81.3	2.3	
		LPZ	IP	11 34 39					
		TRJ	P	11 35 21.1	D				
DEC	18	USCGS	18 20 23.4, 44.3N, 150.2E, H = 36 Km, M = 5.1 KURILE ISLANDS REGION						
		PNS	EPKP	13 39 47					
		LPB	EPKP EL	13 39 47 14 26 00				137.5	
DEC	18	TRJ	IP	15 04 45.3	C				
DEC	18	PNS	EP	17 25 17.7					
DEC	18	TRJ	EP IS	18 25 46.8 26 11.9				2.1	
DEC	18	PNS	IP	20 08 23.4	D	0.8	8.6		

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	18	SCS	EP	21 02 15.8				
DEC	18	SCS	IP	21 02 27.2	D			
DEC	18	PNS	(EP)	23 18 42				
DEC	19	LPB PNS	EP IP	00 00 03 00 00 04.3	D	0.4	15.2	
DEC	19	LPB PNS	EP P S	00 56 43 00 56 47.1 56 24.9				3.2
DEC	19	PNS LPB	EP (S) EP	01 01 28 02 39 01 01 43				6.2
DEC	19	TRJ	IP IS	06 12 41.2 13 12.3	D C			2.6
DEC	19	TRJ	P	08 26 05.7	D			
DEC	19	SCS	IP	09 01 08.5	C			
DEC	19	PNS LPB	IP S IP S	09 15 08.8 15 34.0 09 15 09.0 15 34	D	0.5	70.9	2.1
		TRJ	P	09 16 02.1	D		143.0	2.1
DEC	19	PNS LPB	EP S EP	09 58 06 58 46 09 58 10		0.3	11.3	3.4
DEC	19	PNS	EP S	11 16 05 16 10		0.8	11.2	0.2
DEC	19	PNS	EP S	11 58 40 59 14				2.8
DEC	19	LPB PNS	EP EP	12 18 26 12 18 29.6				
DEC	19	LPB PNS	EP (EP)	14 21 05 14 21 06				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	19	PNS	EP S	16 12 39 13 24.9				4.0	
DEC	19	LPB PNS	EP EP E	17 51 01.5 17 51 02.6 51 53.6					
DEC	19	USCGS	19 15 43.4, 11.8N, 143.5E, H = 33 Km, M = 5.1 S. OF MARIANA ISLANDS						
		PNS LPB	EPKP EPKP EL	19 35 29 19 35 29 20 26 00				148.6	
DEC	19	USCGS PERU	20 10 23.5, 14.8S, 73.6W, H = 94 Km, M = 5.1						
		PNS LPZ	IP ES IP	20 11 40.0 12 37.9 20 11 45				5.0	
		LPB	ES IP	12 42 20 11 46.0	C	1.0	270.0	5.5	
		SCS	ES IP	12 44 20 11 51.5	D				
DEC	19	USCGS	22 06 32.7, 32.2S, 78.8E, H = 33 Km, M = 5.8 MID-INDIAN RISE						
		LPB	EPKP PP EL	22 25 28 27 00 23 04 00				121.8	
		PNS	EPKP E	22 25 29 27 03.7		1.0	16.1		
DEC	20	PNS	EP	00 13 27					
DEC	20	LPB PNS	IP IP S	02 03 00.5 02 03 00.6 03 33.4	D	0.9 0.5	20.4 60.4	2.8	
DEC	20	PNS	IP S	06 13 48.3 14 08.3	D	0.5	7.5	1.6	
DEC	20	USCGS	07 12 33.7, 50.4N, 156.6E, H = 33 Km, M = 5.1 KURILE ISLANDS						
		PNS LPB	EPKP EPKP EL	07 31 44.4 07 31 45 08 14 00		1.5	36.3	130.7	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	20	SCS	IP	08 02 06.7	D			
		LPB	IP	08 02 11	C	0.6	12.0	72.0
		LPZ	EP	08 02 14				
		PNS	IP	08 02 19.3	C	0.2	123.1	0.8
			S	02 30				
DEC	20	PNS	IP	08 41 43.3	D	0.4	63.0	2.0
			S	42 07				
		LPB	P	08 41 45				
DEC	20	PNS	IP	10 21 32				2.3
			(S)	22 00				
DEC	20	TRJ	P	11 02 27.3	D			
		LPB	EP	11 03 09				
		PNS	EP	11 03 11				
DEC	20	TRJ	IP	12 04 23.5	C			1.9
			IS	04 46.2				
		PNS	EP	12 05 02.6				
		LPB	EP	12 05 12				
DEC	20	PNS	EP	13 52 18.4				2.2
			S	52 44.2				
DEC	20	PNS	IP	15 39 48.5	C	0.4	50.4	
			S	39 51.2				
		LPZ	EP	15 39 53				
		LPB	IP	15 39 54				
DEC	20	PNS	IP	16 40 31.2	C	0.3	24.0	
			S	40 34.0				0.7
		LPB	EP	16 40 36.2				
			S	40 46				
DEC	20	PNS	IP	19 48 10.0	C	0.3	22.6	
			S	48 12.4				
		LPB	IP	19 48 15.7		0.7	13.0	0.6
			IS	48 25				
DEC	20	PNS	IP	21 05 50.3	C	0.3	18.5	
			S	05 53.0				
		LPB	IP	21 05 55.5		0.4	11.0	0.6
			S	06 04.7				
		LPZ	EP	21 05 56				
DEC	21	USCGS		00 32 00.7, 52.6N, 158.8E, H = 67 Km, M = 5.0				132.3
		NEAR E. COAST OF KAMCHATKA						
		LPB	EPKP	00 51 02				
		PNS	EPKP	00 51 02.6				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	21	TRJ	IP	01 23 39.3	D			
DEC	21	TRJ	IP	06 11 28.8	C			3.6
			S	12 10.4				
DEC	21	PNS	P	08 10 04.8	C	0.4	4.9	
DEC	21	PNS	IP	08 22 02.0	D	0.5	15.9	2.5
			S	22 32.0				
DEC	21	TRJ	EP	08 27 37.5				
		LPB	EP	08 28 58				
		PNS	EP	08 28 58.4				4.2
			ES	29 46.8				
DEC	21	USCGS		08 41 00.4, 16.8N, 98.1W, H = 53 Km, M = 5.0				
		NEAR COAST OF GUERRERO, MEXICO						
		PNS	EP	08 49 05		1.4	50.7	
			I	49 11.1				
		LPB	EP	08 49 08.2				44.1
			ESS	59 04				
			EL	09 03 00				
		TRJ	P	08 49 53.0	D			
DEC	21	USCGS		10 38 23.7, 30. S, 179.3W, H = 288 Km, M = 5.4				
		KERMADEC ISLANDS						
		TRJ	EP	09 46 56.9	D			
		PNS	IP	09 48 58.6	D	0.7	113.2	1.7
			S	49 20.5				
		LPZ	IP	09 48 59				
		LPB	IP	09 48 59.5		0.7	54.8	99.0
			PP	50 04				
DEC	21	LPB	P	10 19 38		0.7	14.0	
		PNS	EP	10 19 40				4.1
			S	20 27.9				
DEC	21	USCGS		12 25 43, 6.9N, 73.0W, H = 172 Km, M = 4.9				
		N. COLOMBIA						
		PNS	IP	12 30 39.5		0.7	20.7	
			PP	31 13.6				
		LPB	P	12 30 40.5		0.9	29.0	23.4
			PP	31 15				
DEC	21	PNS	(EP)	12 36 15				
				171				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	21	USCGS BOLIVIA	13 15 11,	17.6S, 68.6W,	H = 296 Km, M = 3.7			
		TRJ	IP	13 15 23.4	D			
		LPB	IP	13 15 51.0	D	0.7	125.0	1.3
		PNS	IP	13 15 55.4	D	0.5	73.1	
DEC	21	LPB	P	15 12 09.5		1.0	22.0	
		PNS	IP	15 12 11.3		0.5	4.4	
DEC	21	PNS	EP	19 16 50.5				
DEC	21	PNS	EP	20 11 35.7				
DEC	21	LPB	IP	21 12 21.5		1.2	234.0	
		S		12 55				
		LPZ	IP	21 12 22				
		PNS	IP	21 12 23.2	C			3.2
		S		13 01.3				
		TRJ	EP	21 12 45.8	C			
DEC	21	LPB	EP	23 34 25.5				
		LPZ	EP	23 34 26				
		PNS	EP	23 34 55.6				
DEC	21	PNS	IP	23 47 06.7				1.9
		S		47 30.4				
DEC	22	PNS	IP	00 06 54.9	D	0.2	2.4	2.1
		S		07 20.4				
DEC	22	USCGS OFF E. COAST OF KAMCHATKA	00 28 46.2,	52.4N, 160.5E,	H = 5 Km, M = 5.1			
		PNS	EPKP	00 48 00				
		LPB	EPKP	00 48 01				127.8
			EL	01 28 00				
DEC	22	USCGS MINDANAO, PHILIPPINE ISLANDS	00 52 56,	6.6N, 124.1E,	H = 542 Km, M = 5.6			
		LPB	PKP	01 12 01.5		1.2	18.2	164.5
		EL		02 10 00				
		PNS	PKP	01 12 02.3		1.0	4.1	
DEC	22	USCGS CENTRAL MID-ATLANTIC RIDGE	03 48 54.8,	8.2N, 39.4W,	H = 33 Km, M = 4.8			
		PNS	EP	03 56 11				
		LPZ	EP	03 56 13				
		LPB	P	03 56 15.5	C	1.5	52.0	38.3
		FS		04 02 13				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	22	USCGS CENTRAL MID-ATLANTIC RIDGE	04 23 09.1,	8.8N, 39.4W,	H = 33 Km, M = 5.0			
		LPZ	EP	04 30 26				
		LPB	P	04 30 26.5				
			PP	30 37		1.7	72.0	38.3
			S	36 23				
			L	41.2				
		PNS	EP	04 30 28		0.9	27.0	
DEC	22	PNS	EP	07 26 57				
DEC	22	USCGS OFF E. COAST OF KAMCHATKA	07 27 20.8,	52.5N, 160.2E,	H = 33 Km, M = 5.1			
		LPB	EPKP	07 46 24				128.0
			EL	08 29 00				
		PNS	EPKP	07 46 26.7				
DEC	22	TRJ	P	12 45 56.0	C			3.0
			S	46 31.0				
DEC	22	LPB	EP	16 14 41				
		PNS	IP	16 14 41.2	C			2.5
			S	15 11.7				
DEC	22	PNS	EP	16 21 35.2		1.2	5.3	
DEC	22	PNS	EP	16 52 40.5				
DEC	22	PNS	EP	16 53 37.5	(S)			3.3
			(S)	54 17				
DEC	22	USCGS NEW HEBRIDES ISLANDS	19 41 23,	58.4N, 153.0W,	H = 37 Km, M = 4.6			
		PNS	EP	19 55 06.7	D	2.0	172.6	94.0
			PP	59 27.5				
			S	20 06 10.0				
		LPB	P	19 55 08.6	D	1.2	41.0	101.2
			PP	59 27				
			SKS	20 05 46				
			S	06 11.5				
			EL	29 00				
		LPZ	P	19 55 09				8.7
			EPP	59 28				
			S	20 05 46				
			SKS	06 11				
DEC	22	PNS	EP	20 02 21				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	22	PNS	EP	20 47 55.8				
DEC	22	LPB PNS	EP EP	22 18 22 22 18 36.2		0.8	12.2	
DEC	23	PNS	EP S	00 25 58.7 26 31.1				2.7
DEC	23	USCGS COLOMBIA	01 57 50, 5.3N, 74.3W, H = 59 Km, M = 4.9					
		PNS LPB	EP EP EL	02 02 44.4 02 02 46 09 00				22.6
DEC	23	LPB PNS	EP EP	02 09 04 02 09 17				
DEC	23	TRJ	P	02 21 39.0				
DEC	23	PNS	P S	04 58 14.0 58 37.5		0.4	2.6	1.9
DEC	23	TRJ	IP IS P (S) LPB	08 18 21.8 19 01.8 08 18 40.3 19 50 08 18 47	D			3.4 6.0
DEC	23	PNS	IP S	10 22 27 22 50	D	0.6	7.6	1.9
DEC	23	USCGS S. IRAN	11 10 00.7, 27.7N, 54.6E, H = 40 Km, M = 4.8					
		PNS LPB	EPKP EPKP	11 29 04.6 11 29 06				126.4
DEC	23	PNS	EP S	11 41 06.0 42 09.5		0.7	18.1	5.5
		LPZ LPB TRJ	EP P P	11 41 12 11 41 13 11 42 07.1	D D	0.8	12.6	
DEC	23	TRJ	EP	11 51 13.1	D			
DEC	23	TRJ	P	13 44 41.7	D			

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	23	LPB	IP S	14 55 44.5 56 14		0.6	132.0	2.4
		PNS	IP S	14 55 53.2 56 26	D	0.5	47.7	2.8
DEC	23	LPZ LPB	EP P S	15 24 32 15 24 33.4 25 12				3.3
		PNS	EP S	15 24 37.5 25 25				4.0
DEC	23	PNS	EP S	15 32 47.2 33 18.3				2.6
DEC	23	LPB PNS	EP IP S	16 16 29 16 16 36 8 17 12	C	0.4	10.6	2.8
DEC	23	PNS	EP S	16 40 19.2 40 40.8				1.7
DEC	23	PNS	EP S	16 59 39.8 17 00 13				2.8
DEC	23	PNS	EP S	17 27 18 27 50.5				2.7
DEC	23	PNS	EP S	17 49 34 50 07.5				2.8
DEC	23	USCGS SE. ALASKA	20 47 37.5, 60.5N, 141.0W, H = 33 Km, M = 5.4					
		PNS LPB	EP EP ES EL	21 01 01 21 01 02 12 21 34 00				96.1
DEC	23	PNS LPB	EP EP S	21 44 11.1 21 44 43 44 59				1.2
DEC	23	PNS	EP S	23 24 35.7 25 44.0				5.9
DEC	24	TRJ	EP S PNS	00 32 11.2 32 58.2 00 32 12.8	D C			

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	24	LPB	EP	03 02 58				
		TRJ	IP	03 02 58.6				
		PNS	EP	03 03 00.9				8.8
			(S)	04 40				
DEC	24	USCGS	08 08	23.9, 23.2S, 176.2W, H = 74 Km, M = 4.6				
				SOUTH OF FIJI ISLANDS				
		LPB	EP	08 20 57				99.0
DEC	24	PNS	EP	09 14 50				
		LPB	EP	09 14 50				
DEC	24	PNS	P	10 38 32.6		0.3	1.7	2.3
			S	38 59.4				
DEC	24	LPB	EP	10 44 33				24.0
			S	48 53				
		PNS	EP	10 44 36				24.5
			S	48 52.5				
DEC	24	TRJ	IP	13 17 29.9	D			2.7
			IS	18 02.6	D			
DEC	24	PNS	EP	14 15 02.8		0.8	2.6	
DEC	24	PNS	EP	15 46 01.8				5.3
			S	47 02.6				
DEC	24	LPB	P	15 51 17.5		0.9	34.0	
			PNS	15 51 18.4				6.3
		S	52 30					
DEC	24	PNS	P	16 42 05.6	C	0.5	10.2	
			LPB	16 42 10				
DEC	24	PNS	IP	17 12 45.0	D	0.2	68.3	2.1
			S	13 10.0				
		LPB	EP	17 12 46				2.1
			S	13 11.5				
		LPZ	EP	17 12 46				
DEC	24	PNS	P	17 45 12				
DEC	24	PNS	EP	22 21 54.7				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	24	USCGS	22 20	54.9, 6.9S, 148.1E, H = 52 Km, M = 5.1				
				NEW BRITAIN REGION				
		LPB	EPKP	22 40 18				137.2
		PNS	EL	23 27 00				
EPKP	22 40 26.7							
		PKS	44 01.6					
DEC	24	USCGS	22 51	25.3, 6.8N, 73.0W, H = 160 Km, M = 4.3				
				N. COLOMBIA				
		LPB	EP	22 56 21				23.4
		PNS	P	22 56 21.3		0.7	6.3	
DEC	24	LPB	EP	23 25 35				
			PNS	IP	23 25 35.3	D	0.9	10.1
DEC	24	PNS	IP	23 43 49.3	D	0.3	11.7	2.5
			S	44 19.3				
DEC	25	PNS	IP	00 10 59.9	C	0.4	10.4	
DEC	25	USCGS	01 07	18.3, 6.7N, 126.1E, H = 72 Km, M = 5.2				
				MINDANAO, PHILIPPINE ISLANDS				
		PNS	IPKP	01 27 17.0	D	0.9	9.3	
		LPB	EPKP	01 27 17				162.9
EL	02 25 00							
DEC	25	USCGS	02 57	57.9, 18. S, 179.2W, H = 625 Km, M = 5.5				
				FIJI ISLANDS REGION				
		PNS	EP	03 11 01.4		0.8	8.9	85.0
			PP	13 15.6				
			S	21 26.4				
		LPB	EP	03 11 02				103.9
SKS	20 40							
		EL	42 00					
DEC	25	PNS	P	06 30 14.8				1.9
			S	30 38.0				
DEC	25	PNS	EP	07 21 06.7				
			LPB	EP	07 21 09			
DEC	25	USCGS	07 21	55, 1.9S, 81.2W, H = 33 Km, M = 4.5				
				OFF COAST OF ECUADOR				
		PNS	IP	07 26 18.4	C	0.9	27.8	
		LPZ	IP	07 26 22				
		LPB	IP	07 26 22.5	C	0.9	47.5	19.3
			EL	32 00				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	25	LPB	IP	10 56 31.5	C	0.4	430.0	1.2	
			IS	56 47					
		LPZ	IP	10 56 33					
		PNS	IP	10 56 39.2	C			3.7	
			(S)	57 22					
		TRJ	EP	10 57 38.2					
DEC	25	TRJ	EP	11 57 48.9	D				
		LPB	EP	11 58 07					
		PNS	(EP)	11 58 07.7					
DEC	25	PNS	EP	12 13 35					
		LPB	EP	12 13 43					
DEC	25	USCGS	12 34 19, 25.1N, 108.9W, H = 33 Km, M = 4.5						
		GULF OF CALIFORNIA							
		LPB	EL	13 01 00/				57.9	
DEC	25	LPB	EP	14 46 42				3.0	
			S	47 16.7					
		LPZ	EP	14 46 46					
		PNS	IP	14 46 55.3	D	0.4	10.0	1.8	
DEC	25	PNS	IP	16 17 11.4	C	0.3	5.0		
DEC	25	LPB	EP	18 19 32				5.5	
			S	20 35					
		PNS	IP	18 19 35.7	C	0.3	36.4	5.6	
			S	20 41.4					
DEC	25	TRJ	IP	18 28 51.5	D			2.5	
			IS	29 21.7					
DEC	25	LPB	EP	19 21 01				3.0	
		PNS	P	19 21 09.7		0.5	19.2		
			(S)	21 43.5					
DEC	26	PNS	IP	02 25 14.4	D	0.3	2.0		
DEC	26	LPB	EP	03 03 42					
		PNS	P	03 03 45.6					
DEC	26	USCGS	03 53 16.6, 5.5S, 151.4E, H = 133 Km, M = 6.0						
		NEW BRITAIN REGION							
		PNS	EPKP	04 12 14					
			PKS	15 51					
			I	16 30.0					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
		LPB	EPKP	04 12 16				135.0	
			PKP	12 50					
			PKS	15 51					
			ESS	33 20					
			EL	57 00					
DEC	26	TRJ	P	06 00 13.8	D				
DEC	26	TRJ	P	08 27 55.6	C				
DEC	26	TRJ	EP	09 19 11.7					
		LPB	IP	09 20 04.2	C	0.9	90.0		
		LPZ	IP	09 20 08					
		PNS	IP	09 20 18.4	C	0.3	55.9		
DEC	26	TRJ	P	09 37 14.9	D			2.2	
			S	37 40.7					
DEC	26	PNS	(IP)	16 33 56.4	C	0.5	17.4		
DEC	26	USCGS	18 05 38.9, 23.8S, 180.0W, H = 520 Km, M = 5.2						
		SOUTH OF FIJI ISLANDS							
		LPB	EL	18 54 00				102.2	
DEC	26	PNS	IP	19 32 56.9	D	0.3	17.4	1.9	
			S	33 21.4					
DEC	26	USCGS	20 03 13, 44.3N, 128.7W, H = 33 Km, M = 4.8						
		OFF COAST OF OREGON							
		LPB	EL	20 42 00				81.9	
DEC	26	PNS	EP	21 13 36.1		0.8	6.0		
DEC	26	PNS	EP	22 38 34.4					
		LPB	EP	22 38 38					
DEC	27	TRJ	P	01 36 17.0	C				
DEC	27	LPB	EP	03 07 05					
		PNS	IP	03 07 05.9	D	0.3	5.7	2.7	
			S	07 37.8					
DEC	27	USCGS	04 07 26.5, 36.5N, 141.9E, H = 50 Km, M = 4.4						
		E. COAST OF HONSHU, JAPAN							
		LPB	EPKP	04 27 05				147.2	
		PNS	EPKP	04 27 05.4					

DECEMBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	27	LPB PNS	P EP (S)	04 50 40 04 50 51.6 51 06	D	0.9	15.3	1.1	
DEC	27	USCGS	05 08 04, 44.4N, 128.7W, H = 33 Km, M = 4.9 OFF COAST OF OREGON						
		PNS	EP	05 20 18					
		LPB	EP	05 20 23				82.0	
DEC	27	PNS	EP	05 45 41.6		0.4	3.3		
DEC	27	TRJ	IP IS	06 16 43.8 17 08.1	D C			2.0	
DEC	27	TRJ	P S	06 56 46.8 57 16.6	D			2.5	
DEC	27	PNS	P S	07 03 09.7 03 39.5				2.5	
DEC	27	USCGS	11 55 11.2, 19.6S, 69.4W, H = 117 Km, M = 4.7 N. CHILE						
		LPB	IP PG I	11 56 03.3 56 19.5 56 42	C	1.2	610.0	3.6	
		PNS	IP S	11 56 05.3 56 38	C	0.8	150.6	2.1	
		TRJ	IP	11 56 20.1	C				
DEC	27	LPB PNS	P P	13 52 06 13 52 13	D	0.7	5.4		
DEC	27	LPB PNS	EP (EP)	14 57 30 14 57 34					
DEC	27	PNS	EP	16 42 17.4					
DEC	27	USCGS	17 48 02, 6.4S, 130.0E, H = 155 Km, M = 4.9 BANDA SEA						
		LPB	EPKP EL	18 07 15 59 00				150.4	
		PNS	EPKP	18 07 42.3					
DEC	27	TRJ	EP IS	19 01 28.3 02 02.1	C			3.0	

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	27	PNS	EP	19 59 08.7					
DEC	27	USCGS	20 18 35.4, 3.1N, 126.9E, H = 66 Km, M = 4.7 TALAUD IS.						
		PNS	EPKP E	20 38 32.5 39 13.8		0.5	6.7		
		LPZ	EPKP	20 38 33					
		LPB	EPKP EL	20 38 33 21 34 00				160.3	
DEC	27	PNS	IP S	21 15 55.5 16 20.0	D	0.2	50.4	2.0	
DEC	2	LPB TRJ	EP IP IS	22 16 25 22 16 25.1 16 51.9	D				
		PNS	EP	22 16 41.2					
DEC	27	LPB LPZ PNS	IP P IP S	22 37 10.5 22 37 12 22 37 18.8 37 36.1	C C	0.9 0.5	51.0 6.2	1.3	
DEC	27	PNS LPB	IP EP	22 45 10.1 22 45 11	C	0.9	5.9		
DEC	27	LPB PNS	EP IP	23 32 42 23 32 44.6	D	0.5	4.4		
DEC	28	PNS LPB	IP S EP S	01 04 53.3 05 17.7 01 04 53.5 05 18.5	D	0.2	18.5	2.0 2.1	
DEC	28	PNS	IP	01 09 47.5	D	0.2	5.6		
DEC	28	PNS	IP S	02 28 28.7 29 01.0	D	0.4	3.7	2.7	
DEC	28	TRJ	P	04 24 32.0					
DEC	28	LPB PNS	EP S IP S	05 16 51.5 17 30 05 16 53.3 17 33.2	C	0.3	12.6	3.2 3.4	
		TRJ	P S	05 17 12.6 18 07.1	D				

DECEMBER 1965

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	28	TRJ	IP	07 20 05.1	D			2.6	
			IS	20 36.7					
		LPB	P	07 20 29.4					
		PNS	IP	07 20 33.5	C	0.5	5.3		
DEC	28	USCGS	07 37 36.4, 22.9N, 142.6E, H = 150 Km, M = 4.6						
			VOLCANO IS. REGION						
		PNS	IPKP	07 57 08.4	D	1.1	23.6		
		LPZ	PKP	07 57 08.5					
		LPB	PKP	07 57 08.5	D	1.0	20.0	150.1	
			PKP2	57 22					
		TRJ	P	07 57 14.5	D				
DEC	28	TRJ	IP	08 10 55.9	D				
		LPB	P	08 11 06		0.8	84.0		
		PNS	IP	08 11 09.9	C			4.0	
			S	11 57.4					
DEC	28	TRJ	P	09 02 05.9	D				
DEC	28	USCGS	09 14 47, 19.1N, 108.5W, H = 33 Km, M = 4.1						
			REVILLA GIGEDO IS. REGION						
		LPB	EP	09 24 04				53.1	
		PNS	EP	09 24 04.9					
DEC	28	LPB	EP	11 16 11					
		PNS	EP	11 16 14.2		0.6	5.9		
DEC	28	USCGS	12 10 31.4, 3.2N, 127.0E, H = 53 Km, M = 5.3						
			TALAUD IS.						
		LPB	EPKP	12 30 19				159.7	
			PKP	31 45.5					
			PKP2	31 11.5					
			EL	13 27 00					
		LPZ	EPKP	12 30 20					
		PNS	PKP	12 30 30.8					
DEC	28	CCH	IP	15 53 26.1	C				
DEC	28	USCGS	16 01 35.8, 15.5N, 97.6W, H = 33 Km, M = 4.7						
			NEAR COAST OF OAXACA, MEXICO						
		PNS	IP	16 09 32.8	C	1.0	32.0		
		LPZ	P	16 09 34					
		LPB	P	16 09 35.5	C	1.4	40.0	43.2	
			EL	31 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	28	USCGS	16 02 40, 34.1N, 37.7W, H = 33 Km, M = 4.4						
			N. ATLANTIC RIDGE						
		PNS	P	16 12 31.3	D	0.8	29.8		
		LPB	P	16 12 32.8		0.8	14.3	58.0	
		LPZ	EP	16 12 33					
DEC	28	PNS	P	17 10 37.3					
DEC	28	PNS	EP	17 14 33.0	C	0.7	7.0	5.6	
			(S)	15 36.4					
DEC	28	PNS	IP	18 36 31.2	D	0.2	18.5		
DEC	28	PNS	EP	18 44 31					
DEC	28	USCGS	20 32 24.7, 27.8N, 141.8E, H = 36 Km, M = 5.9						
			BONIN IS. REGION						
		PNS	IPKP	20 52 10.3	C	1.0	90.1		
			I	52 16.2					
			PP	55 56.4					
		LPB	PKP	20 52 10.5				150.2	
			I	52 16					
			PKP2	52 23.5					
			EPP	55 56					
			ESS	21 15 07					
			EL	43 00					
DEC	28	PNS	IP	21 50 48.0					
DEC	28	USCGS	22 04 52, 3.2S, 77.2W, H = 14 Km, M = 5.0						
			PERU-ECUADOR BORDER REGION						
		PNS	P	22 08 30.8		0.2	5.6	14.3	
			S	11 09					
			SS	11 30					
			ESSS	11 43					
			I	13 47.9					
		LPZ	EP	22 08 37					
			EL	12.6					
		LPB	EP	22 08 37				15.7	
			PP	08 44.5					
			ES	11 10					
			EL	12.7					
DEC	29	LPB	P	00 51 04					
		PNS	IP	00 51 08.0		0.3	32.4	7.6	
			(S)	52 34					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	29	USCGS	04 08 24.1, 3.2S, 77.3W, H = 24 Km, M = 4.7 PERU-ECUADOR BORDER REGION						
		PNS	EP	04 12 00.8					
			E	17 04.1					
			I	17 22.2					
		LPB	EP	04 12 11			15.3		
			PP	12 37					
			S	14 33					
			EL	16 00					
		LPZ	EP	04 12 12					
DEC	29	USCGS	04 16 28.8, 3.3S, 143.1E, H = 23 Km, M = 5.4 NEAR COAST OF NEW GUINEA						
		LPB	EPKP	04 35 51			142.6		
			PPKP	36 04					
		LPZ	EPKP	04 36 00					
		PNS	EPKP	04 36 02					
DEC	29	LPB	EP	06 47 15					
		PNS	EP	06 47 30					
DEC	29	USCGS	07 50 07, 40.7S, 72.7W, H = 33 Km, M = 4.5 CENTRAL CHILE						
		LPB	EP	07 55 24			24.3		
		PNS	EP	07 55 28.6					
DEC	29	PNS	EP	14 15 22.2					
DEC	29	USCGS	15 38 23, 2.3N, 128.7E, H = 117 Km, M = 4.9 HALMAHERA						
		PNS	EPKP	15 58 08.4					
		LPB	EPKP	15 58 11			158.0		
DEC	29	PNS	EP	16 31 21.6			1.9		
			S	31 44.2					
DEC	29	LPB	EP	16 38 21					
		PNS	EP	16 38 22.7		1.1	7.4		
DEC	29	LPB	P	18 28 27.5		0.6	18.0		
		PNS	IP	18 28 31.9	C	0.5	20.0		
DEC	29	USCGS	18 39 47.2, 6.6S, 155.0E, H = 68 Km, M = 5.4 SOLOMON ISLANDS						
		PNS	EPKP	18 58 55.5					
		LPB	EPKP	18 58 56		1.0	10.0	131.4	
			EL	19 42 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	29	PNS	IP	19 51 12.7	D	0.4	61.1	1.9	
			S	51 36.0					
		LPZ	EP	19 51 13					
		LPB	EP	19 51 15				2.2	
			S	51 41.5					
DEC	29	CCH	IP	21 07 54.8					
		LPB	P	21 08 20	C	0.6	458.0	2.8	
			(S)	08 53					
		LPZ	P	21 08 21					
		PNS	IP	21 08 28.5	C	0.5	73.2		
DEC	29	PNS	P	22 56 31.2				2.7	
			S	57 03					
DEC	29	USCGS	23 41 00.5, 10.6S, 166.0E, H = 198 Km, M = 5.2 SANTA CRUZ IS.						
		LPB	EPKP	23 59 30				125.1	
			EL	00 41 00					
		PNS	EPKP	23 59 30.3					
DEC	30	CCH	EP	00 14 08.9					
		LPB	EP	00 14 26				3.7	
			S	15 04.5					
		PNS	EP	00 14 43.3				2.8	
			S	15 15.9					
DEC	30	LPB	EP	01 55 34.5					
		PNS	EP	01 55 46					
DEC	30	USCGS	02 06 31.1, 54.1N, 164.3W, H = 28 Km, M = 5.6 UNIMAK IS. REGION						
		LPB	EP	02 20 43				106.6	
			EL	57 00					
		PNS	EP	02 20 44					
DEC	30	LPB	P	03 04 27.5		0.7	9.1	2.3	
			S	04 54.5					
		PNS	P	03 04 36.6				2.7	
			S	05 09.0					
DEC	30	USCGS	04 53 48, 9. N, 26.9W, H = 33 Km, M = 5.0 CENTRAL MID-ATLANTIC RIDGE						
		LPB	P	05 01 55	C	0.9	110.0	48.1	
			PP	02 09.5					
			EL	17 00					
		PNS	IP	05 01 59.2	C	0.9	123.8		
			E	03 43.5					
		LPZ	EP	05 02 00					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
								1.2W, H = 118 Km, M = 5.7
		C						
		C						
		C						2.8
		D				0.6	20.4	2.7
						0.9	20.5	
		D				0.5	16.1	2.8
		C				0.7	19.1	4.4
								2.3
		C				0.9	18.5	
		D				0.3	2.4	1.8
		D				1.0	45.0	3.2
		D				0.8	11.2	2.8
						0.9	12.6	
						1.2	15.7	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
DEC	30	USCGS EASTER IS. CORDILLERA	13 14 15,	24.5S,	116.1W,			H = 33 Km, M = 5.0
		PNS	IP	13 22 31.4	D			
		LPB	P	13 22 5.2		0.9	25.5	45.1
			PP	22 5				
			ES	29 0				
			L	36.0				
DEC	30	PNS	IP	13 44 55.1	C	0.8	6.0	2.4
			S	45 24.5				
DEC	30	LPB	EP	14 34 54				
		PNS	IP	14 34 55.2		0.5	6.2	
DEC	30	TRJ	IP	16 44 01.6				
		CCH	IP	16 44 40.1	D			
DEC	30	USCGS	16 42 44.5,	19.1S,	69.5W,			H = 116 Km, M = 4.6
								N. CHILE
		LPZ	IP	16 43 31.0				
		LPB	IP	16 43 31	C			3.1
			IS	44 04				
		PNS	IP	16 43 32.3	C			3.0
			S	44 07				
DEC	30	USCGS	16 56 56.2,	44.2N,	148.5E,			H = 70 Km, M = 5.2
								KURILE ISLANDS
		PNS	EPKP	17 16 21				
			PPKP	16 35.5				
		LPZ	EPKP	17 16 25				
		LPB	EPKP	17 16 25				138.7
			PPKP	16 36				
DEC	30	USCGS	16 33 43.4,	58.1N,	152.4W,			H = 33 Km, M = 5.4
								KODIAK IS. REGION
		LPB	EL	17 21 00				101.2
DEC	30	PNS	EP	18 13 00.3	C	0.9	10.1	
DEC	30	TRJ	IP	20 33 08.0	D			
			(S)	33 48.5				
		LPB	EP	20 34 01				
		PNS	P	20 34 03.0	C	5.0		
DEC	30	PNS	IP	20 38 32.2		0.4	25.0	1.7
			S	38 54.0				
		LPB	EP	20 38 34				

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	30	PNS LPB	P EP	22 09 51.9 22 09 53	C	0.6	8.6		
DEC	30	LPB PNS	EP IP	23 16 12 23 16 29.2	C	0.8	13.4		
DEC	31	USCGS	01 02 24, 24.6S, 116.4W, H = 33 Km, M = 4.8						
		FASTER IS. CORDILLERA							
		PNS	IP	01 10 41.2	D	1.4	136.7	45.0	
			ES	17 18.1					
			E	17 28					
		LPZ	P	01 10 43					
		LPB	P	01 10 44.5	D	1.0	20.0	45.5	
			PP	12 35					
			S	17 28					
			L	24.1					
DEC	31	USCGS	02 27 52.0, 0.8N, 100.2E, H = 33 Km, M = 5.2						
		N. SUMATRA							
		PNS	EPKP	02 48 01					
			I	48 34.8					
		LPB	EPKP	02 48 03				166.2	
			EL	03 47 00					
DEC	31	PNS	EP	04 14 36.3					
DEC	31	PNS	IP	07 00 08.3	D	0.5	4.4		
DEC	31	USCGS	10 41 57.7, 25.2S, 177.2W, H = 160 Km, M = 5.5						
		SOUTH OF FIJI ISLANDS							
		LPB	EP	10 55 25				99.4	
			EL	11 30 00					
		PNS	EP	10 55 26.6					
DEC	31	TRJ	P	13 20 36.1	C				
		PNS	IP	13 21 02.0	D	0.9	20.2		
DEC	31	PNS	EP	15 54 52					
DEC	31	PNS	EP	17 20 58					
DEC	31	LPB	EP	19 28 21					
		LPZ	EP	19 28 21					
		PNS	EP	19 28 23					

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MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST	
DEC	31	USCGS	19 43 45.8, 9.6S, 123.5E, H = 33 Km, M = 5.2						
		TIMOR							
		TRJ	IPKP	20 03 31.8					
		PNS	PKP	20 03 34.6	C	1.3	38.4		
		LPZ	PKP	20 03 35					
		LPB	PKP	20 03 35				151.2	
			PPKP	03 46					
			PKP2	03 50					
			EL	55 00					
DEC	31	USCGS	20 58 53.4, 2.4N, 128.8E, H = 16 Km, M = 5.6						
		HALMAHERA							
		PNS	EPKP	21 18 55.4					
		LPB	EPKP	21 18 56				159.7	
			EL	22 13 00					
DEC	31	TRJ	P	22 09 55.0	D				
DEC	31	PNS	EP	22 36 36.8					
DEC	31	LPB	EP	22 45 30					
		PNS	EP	22 45 34.2					



STATION	TIME	AMPLITUDE	PERIOD	PHASE	WAVELENGTH	SLANT RANGE	SLANT DISTANCE	SLANT BEARING	SLANT AZIMUTH	SLANT ALTITUDE	SLANT DISTANCE	SLANT BEARING	SLANT AZIMUTH	SLANT ALTITUDE
001	00:00	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
002	00:01	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
003	00:02	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
004	00:03	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
005	00:04	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
006	00:05	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
007	00:06	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
008	00:07	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
009	00:08	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
010	00:09	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
011	00:10	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
012	00:11	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
013	00:12	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
014	00:13	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
015	00:14	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
016	00:15	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
017	00:16	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
018	00:17	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
019	00:18	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
020	00:19	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
021	00:20	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
022	00:21	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
023	00:22	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
024	00:23	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
025	00:24	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
026	00:25	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
027	00:26	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
028	00:27	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
029	00:28	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
030	00:29	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0



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