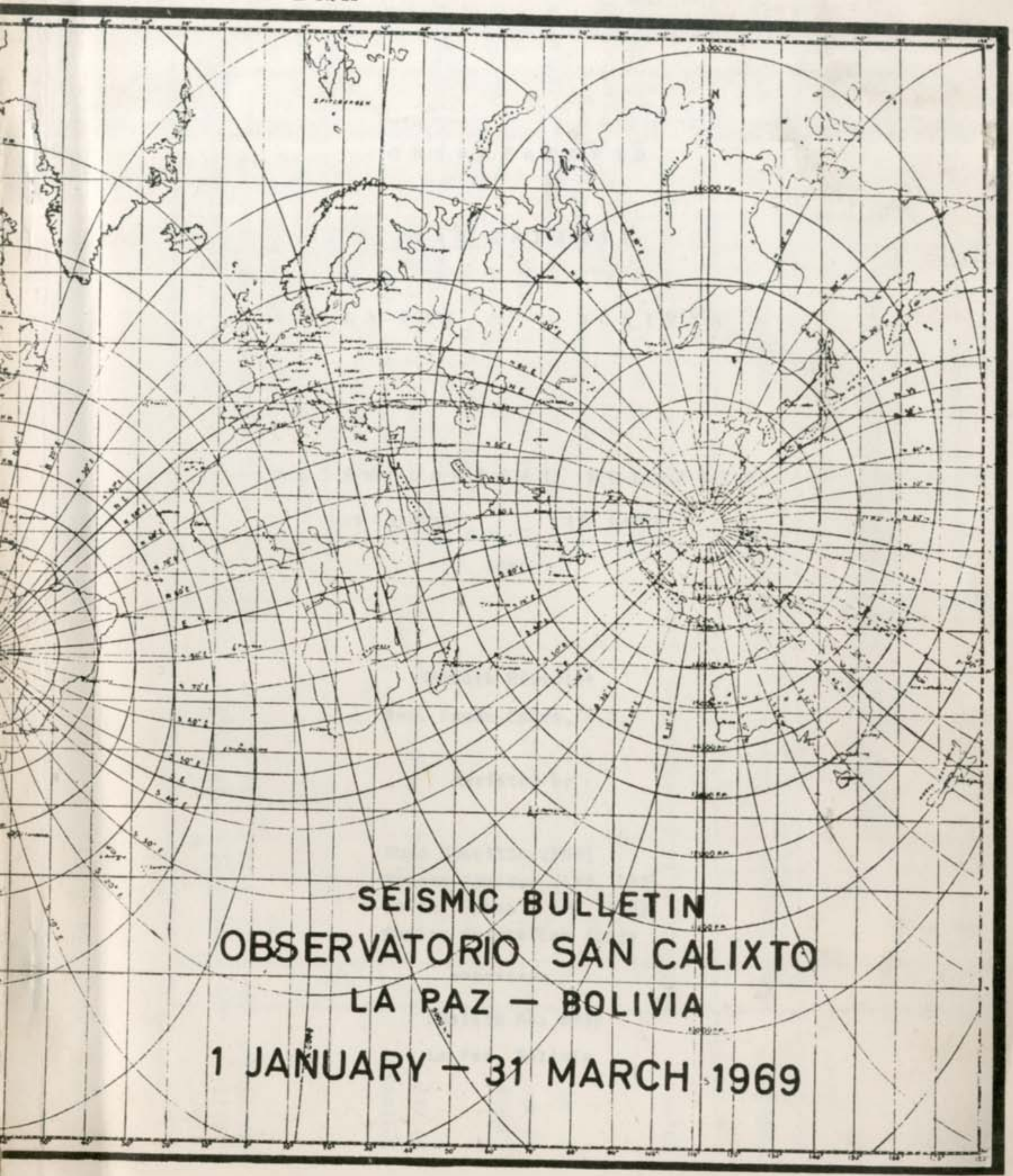
S —— PARA LA PAZ



SEISMIC BULLETIN

OBSERVATORIO SAN CALIXTO

LA PAZ — BOLIVIA

1 JANUARY — 31 MARCH 1969

O B S E R V A T O R I O

S A N C A L I X T O

L A P A Z B O L I V I A

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

1 JANUARY 31 MARCH

1969

Network Director

Rev. Ramón Cabré, S.J.

Assisted by

Hugo Bustillo (PNS)
Nelson Aguilar (LPB, LPZ)
Javier Ochoa (LPB, PNS)
Carlos Abastoflor (LPZ)

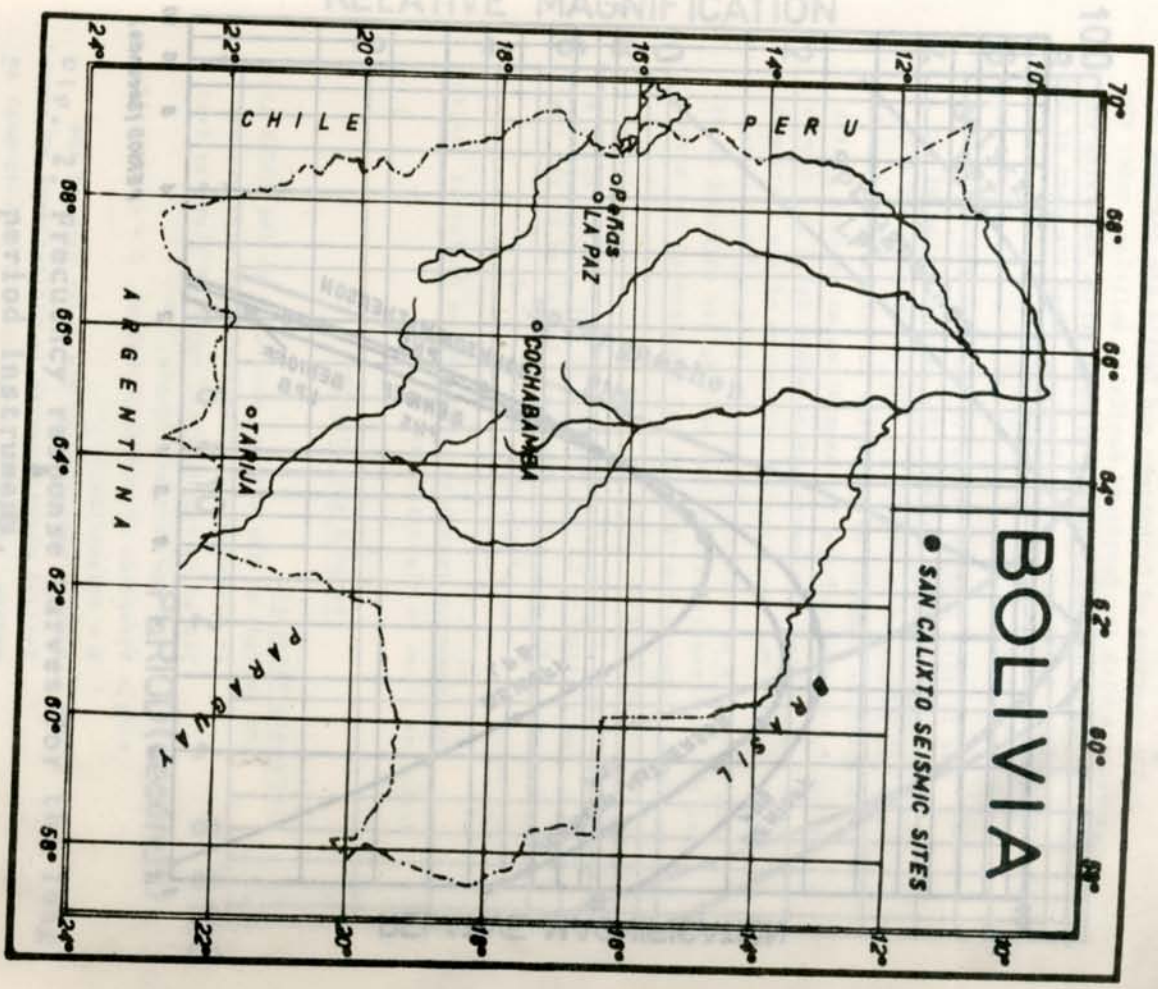
****

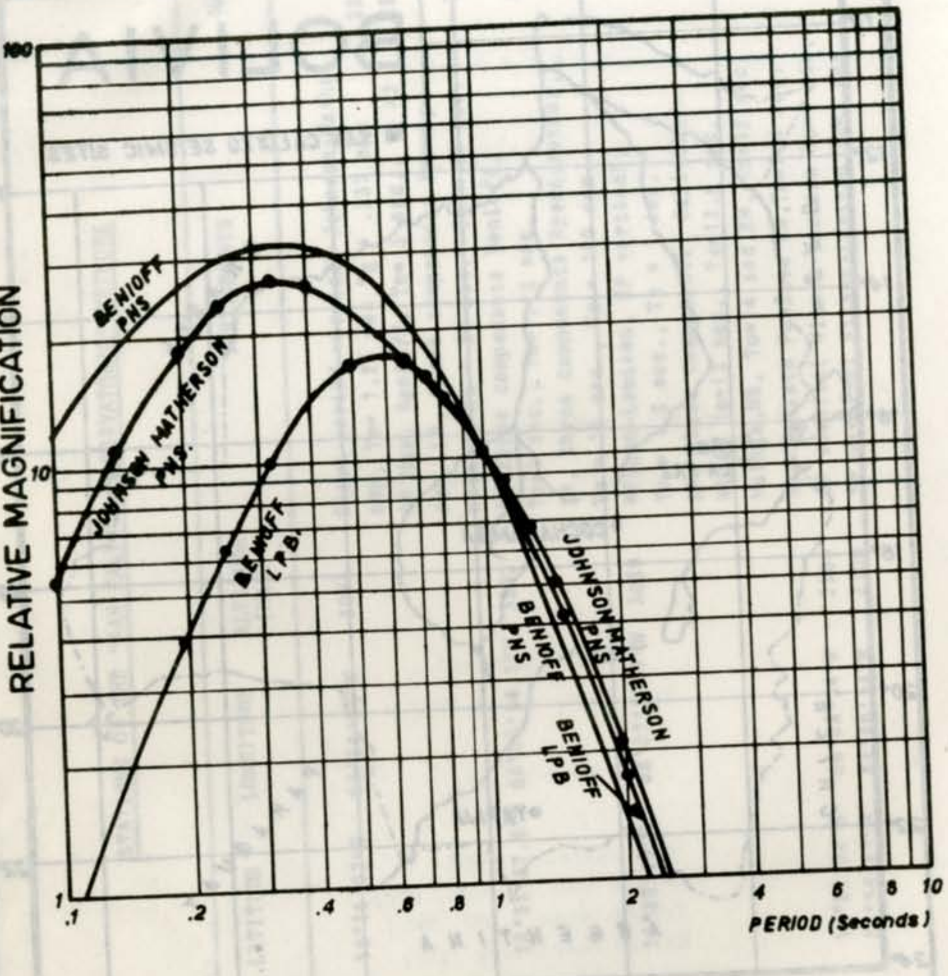
Casilla No. 5939

La Paz, Bolivia

STATIONS OF THE "SAN CALIXTO OBSERVATORIO" NETWORK

LOCATION	CODE	LATITUDE	LONGITUDE	ALTITUDE (Mts)	INSTRUMENTS	MAGNIFICATION
Peñas	PNS	16°16'02"S	68°28'24"W	3986	Short-period vertical Johnson-Matheson, To= 1.25 sec Tg = .337 sec	250.000 at 1 cps
					SP Hor. Benioff, To= 1 sec., Tg =2 sec.	250.000 at 1 cps
					LP, three components Sprengnether, To = 20 sec., Tg = 30 sec.	20.000 at 25 sec
La Paz (WWNSS)	LPB	16°31'57.6"S	68°05'54.1"W	3292	SP three components Benioff, To=1 sec., To= .75 sec.	50.000 at 1 cps
					LP, three components Sprengnether, To = 15 sec., Tg = 100 sec.	1.500 at 15 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.	
					LP, three components, Galitzing-Wilip To=12 sec., Tg=12.6 sec.	1.000 at 12 sec
					Mainka,NS, To=14 sec.EW, To=12 sec.	180 and 300
					San Calixto Pendulo EW,To=2.4 sec.	700
Cochabamba	CCH	17°22'56"S	66°08'34"W	2500	SP vertical Wilson-Lamison To=1 sec.	
Tarija	TRJ	21°30'47"S	64°46'34"W	2100	SP vertical Wilson-Lamison To=3 sec.	





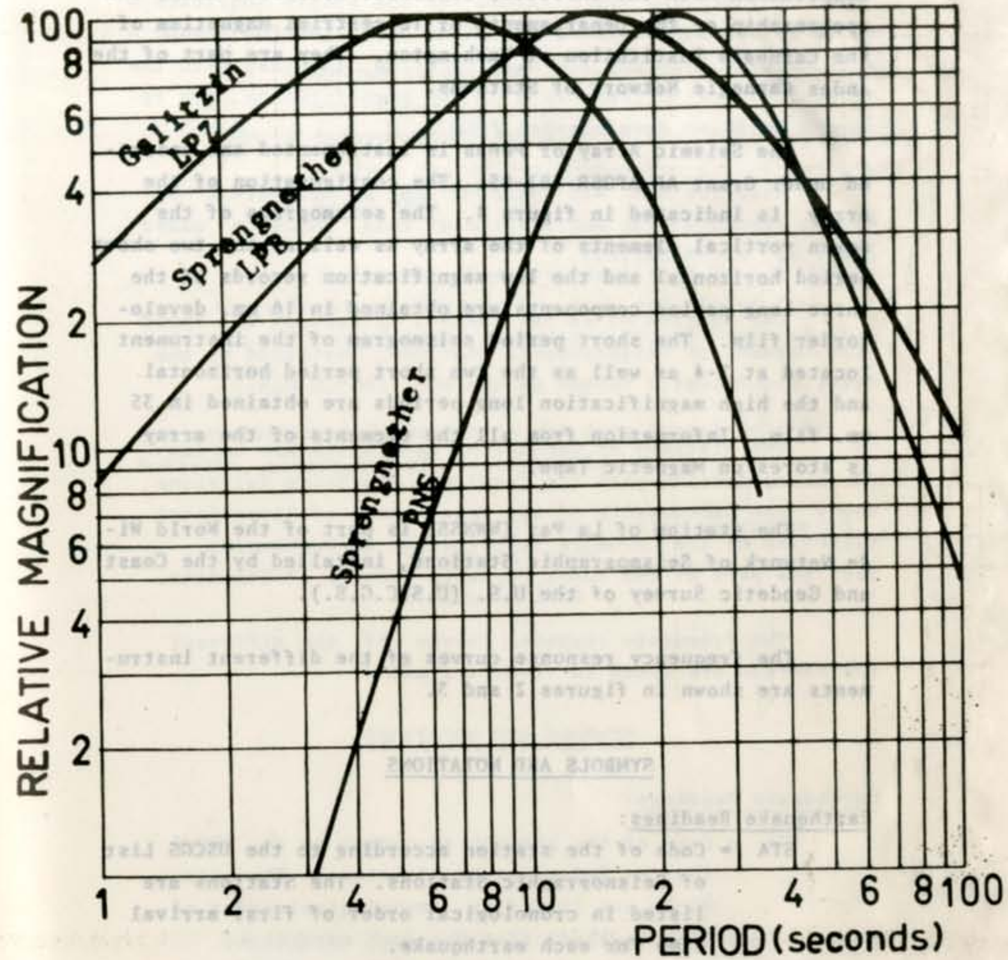


Fig. 2. Frecuency response curves for the long period instruments.

The station of Peñas is operated under U.S. Air Force Office of Scientific Research under Grant No.AFOSR-68-1614. Seismograms are obtained for the single instruments on 35 mm films. Moreover the three short period components both at high and low magnification, together with the three long period components at low magnification, are recorded on 16 mm develocorder film.

Also the U.S. Air Force Office of Scientific Research sponsored the publication of this Bulletin under Grant No. AFOSR-68-1614.

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

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

SYMBOLS AND NOTATIONS

Earthquake Readings:

- STA = Code of the station according to the USCGS List of Seismographic Stations. The stations are listed in cronological 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.

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 furhter information on the data issued on this Bulletin, please direct your inquiries to:

Director of San Calixto Observatorio
Casilla No. 5939
La Paz, Bolivia

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	01	LPB	P	01 07 53.5		0.7	28	
		PNS	P	01 07 56.7				
	01	PNS	P	02 08 02.3				
			S	28.8				
	01	LPB	P	05 47 26.2				
			i	28.2				
		PNS	eP	05 47 36.6				
	01	LPB	P	05 56 49.7		0.7	8	
			S	57 44				
		PNS	P	05 56 53.4		0.7	24	
			eS	57 53				
	01	LPB	eL	08 39.5				
	01	USCGS 08 04 34, 6.0S, 77.1W, h = 97 km., m = 4.3 NORTHERN PERU						
		PNS	eP	08 07 40				
		LPB	P	08 07 43				14
	01	LPB	eP	09 47 45				
			e(S)	48 21.4				
		PNS	eP	09 47 45.8				
	01	PNS	P	10 47 05.6		0.6	14	
			S	27.6				
		LPB	P	10 47 05.8				
	01	LPB	e(P)	12 10 52.5				
	01	PNS	eP	13 03 27.8				
	01	PNS	P	13 12 31		0.5	3	
		LPB	eP	13 12 35.5				
	01	LPB	eP	16 58 10				
		PNS	P	16 58 13.6		0.5	6	
	01	PNS	eP	17 50 45				
		PNS	eP	17 50 49				
	01	LPB	P	22 39 29		1.0	40	
		PNS	P	22 39 23.4		1.0	15	
	02	USCGS 00 36 11.7, 30.5N, 149.W, m = 4.7 NORTH ATLANTIC RIDGE						
		PNS	eP	00 45 27		2.0	64	
			eL	01 03				
		LPB	P	00 45 29		1.6	71	54
			e	48 24.5				
			eL	01 02				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	02	PNS	eP	00 51 21.6		1.2	24	
		LPB	P	00 51 26.5				
	02	PNS	eP	01 12 21.4				
		LPB	eP	01 12 22.5				
	02	USCGS 01 05 07.0, 30.6N, 42.0W, m = 4.9 NORTHN ATLANTIC RIDGE						
		PNS	P	01 14 24.6		1.8	115	
		LPB	P	01 ¥4 24.8		1.3	60	2
	02	LPB	P	02 02 54.2		1.0	14	
	02	PNS	P	02 44 39.2				
	02	LPB	eP	06 08 30				
		PNS	eP	06 07 34.5				
			S	57.8				
	02	LPB	iP	06 49 09.2	D	0.9	37	
			iS	44.1				
		PNS	P	06 49 13	D			
			S	50				
	02	PNS	e(P)	07 58 28.4				
		LPB	eP	07 58 29				
	02	LPB	eP	09 05 21.5				
			e	57				
	02	LPB	eP	10 45 06				
	02	LPB	eP	11 11 15.5				
	02	LPB	eP	11 53 43.8				
	02	PNS	eP	14 07 02.4				
	02	LPB	eP	15 99 33.5				
			i	53.5				
		PNS	P	15 29 37.2		0.6	4	
			i	57.6				
	02	PNS	eP	16 00 15.2				
		LPB	eP	16 00 19				
	02	PNS	eP	17 42 39.6				
		LPB	eP	17 42 46.5				
	02	USCGS 17 50 46.6, 56.0S, 27.5W, h = 81 km., m = 5.9 SOUTH SANDWICH IS REG						

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN		LPB	iP	17 59 35.5	D	1.0	416	
			iS	18 06 41				
			eG	12				
			L	14.4				
		PNS	iP	17 59 38.6	D			
			S	18 06 46				
			eL	15				
	02	PNS	eP	18 33 10				
		LPB	eP	18 33 13				
	02	PNS	eP	18 35 13.6				
	02	PNS	eP	22 37 1o		0.7	4	
		LPB	eP	22 37 18				
	02	LPB	eP	23 01 46.4				
	02	LPB	eP	23 29 20				
			S	44				
		PNS	eP	23 29 24.8		0.6	4	
	03	LPB	eP	00 29 12				
		PNS	P	00 29 17		0.4	8	
	03	LPB	P	01 17 09.2		0.7	114	
			S	39.3				
		PNS	P	01 17 10.8	C			
			C	43				
	03	PNS	P	01 30 04.2		0.5	6	
	03	LPB	eP	01 35 39.4				
	03	PNS	P	02 07 13.6				
		LPB	eP	02 07 15.5				
			S	57				
	03	PNS	P	02 22 03.2				
			iS	28.4				
	03	USCGS 03 16 38.1, 37.1N, 57.9E, h = 11 km., m = 5.6 IRAN-USSR BORDER REGION						
	03	LPB	ePKP	03 35 40				128
			i	50.5				
		PNS	P	03 35 47.8		1.0	15	
	03	LPB	eP	03 47 68				
	03	USCGS 05 14 26.4, 18.5N, 65.1W, h = 113 km., m = 4.7 PUERTO RICO REG						
		LPB	eP	05 21 09.3				35
		PNS	eP	05 21 10.2				
	03	LPB	P	07 09 37.5				
			S	10 15				
		PNS	eP	07 09 41.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	03	LPB	eP	09 13 21.5				
	03	PNS	eP	09 29 15.2		0.9	13	
		LPB	P	09 29 20.8				
	03	LPB	eP	09 37 27				
	03	USCGS 11 19 13.6, 14.5N, 91.7W, h = 89 km., m = 5.0 GUATEMALA						
		PNS	P	11 26 26.4		0.7	5	
		LPB	eP	11 26 29.5		0.9	10	39
	03	PNS	iP	11 38 45.8	D	0.8	21	
		LPB	P	11 38 50				
	03	USCGS 13 28 12.8, 51.2N, 179.4W, h = 29 km., m = 5.8 ANDREANOF IS, ALEUTIAN IS						
		PNS	P	13 46 55		1.0	6	115
		LPB	eP	13 46 55				
	03	PNS	P	14 31 55.8		0.5	3	
			S	23.4				
	03	PNS	eP	16 12 00.6				
	03	PNS	P	16 45 57.2		0.6	4	
	03	LPB	eP	17 10 05		0.5	4	
		PNS	P	17 10 08.8				
	03	PNS	eP	18 17 58.4				
	03	PNS	eP	21 57 10				
		LPB	eP	21 57 14				
	03	USCGS 23 36 32.7, 6.9S, 125.3E, h = 527 km., m = 5.1 BANDA SEA						
		PNS	ePKP	23 55 28.6				153
		LPB	ePKP	23 55 31				
	04	PNS	(P)	01 46 27				
		LPB	e(P)	01 45 36.5				
	04	LPB	P	02 42 28		0.7	112	
	04	LPB	eP	03 35 52.5		0.7	8	
	04	LPB	eP	05 08 45.5				
		PNS	eP	05 08 47.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	04	LPB	eP	05 34 50				
	04	USCGS 05 38 06.7, 6.1S, 77,7W, h = 34 km., m = 4.2 NORTHERN PERU						
		PNS	eP	05 41 21				
		LPB	P	05 41 25		0.7	6	13
	04	LPB	eP	06 04 04.2				
	04	LPB	P	06 53 56		1.2	24	
	04	LPB	eP	08 03 12.2				
	04	PNS	iP	08 18 44	D			
		LPB	iP	08 18 44.8	D	0.5	86	
			iS	19 08.5				
	04	PNS	P	10 14 36.2				
			S	15 00.2				
		LPB	eP	10 14 37				
			S	15 00.8				
	04	PNS	eP	13 45 07.4				
	04	LPB	eP	15 14 47				
			eS	15 24.8				
		PNS	P	15 14 50.6		0.6	10	
			S	15 31.6				
	04	LPB	eP	18 38 04				
		PNS	eP	18 38 04.2		0.7	7	
	04	PNS	P	20 14 16.4		0.7	3	
		LPB	eP	20 14 17.5				
	04	USCGS 22 36 47.9, 6.8S, 129.8E, h = 107 km., m = 5.7 BANDA SEA						
		PNS	P	22 56 26.6		1.4	38	
			i	32.4				
		LPB	P	22 56 27.2		1.0	38	151
			i	32.5				
	05	LPB	eP	01 29 57.5				
	05	PNS	P	01 34 49.4				
			S	11.6				
		LPB	eP	01 34 51				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	05	USCGS 01 32 56.8, 1.1N, 125.9E, m = 5.3 MOLUCCA PASSAGE						
		PNS	ePKP	01 52 56				151
		LPB	ePKP	01 52 56				
	05	LPB	eP	05 39 34				
	05	LPB	eP	05 45 08		0.5	4	
		PNS	eP	05 45 08				
	05	LPB	eP	06 50 07		0.7	66	
	05	LPB	P	07 01 57.5		0.8	9	
	05	LPB	P	07 43 31.5		1.0	10	
	05	USCGS 07 28 55.8, 4.1N, 125.6E, h = 59 km., m = 5.3 TALAUD IS						
		LPB	PKP	07 48 54.6		1.0	12	160
		PNS	ePKP	07 48 55				
	05	PNS	eP	08 40 50				
			eS	41 15				
		LPB	e(P)	08 39 53				
	05	LPB	P	10 10 07.5				
	05	PNS	eP	10 40 48		0.8	6	
		LPB	eP	10 40 49.5				
	05	LPB	eP	11 12 24				
	05	LPB	eP	12 15 20				
		PNS	eP	12 15 30				
	05	USCGS 13 12 00.4, 23.2S, 67.9W, h = 138 km., m = 4.3 CHILE-ARGENTINA BOR REG						
		LPB	P	13 13 37.7		0.9	42	6
		PNS	P	13 13 40.8		0.7	14	
	05	PNS	P	15 15 01.6		0.8	6	
	05	LPB	P	13 23 51		0.7	19	
		PNS	P	13 23 54.6				
	05	USCGS 13 26 39.7, 8.0S, 158.9E, h = 4.7 km., m = 6.4 SALOMON IS						
		PNS	ePKP	13 45 41.4				
			PP	47 48				
			L	14 26		0.8	180	127
		LPB	P	13 45 43.4				
			PP	47 42				
			eL	26.2				
	05	USCGS 16 14 30.4, 16.N, 126.6E, m = 5.4 MOLUCCA PASSAGE						
		PNS	PKP	16 34 30		1.4	19	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN		LPB	ePKP	16 32 30.5				159
	05	USCGS 16 50 42.8, 8.9S, 123.5E, h = 27 km., m = 5.6 FLORES IS REG						
		PNS	ePKP	17 10 35.8				
			i	40				
		LPB	PKP	17 10 39.8		0.7	30	152
	05	PNS	eP	19 39 50.7		0.5	4	
			S	40 11.6				
	05	PNS	eP	21 04 03.8				
			S	25.8				
	05	PNS	P	21 37 00.6				
			S	23				
	05	LPB	P	23 19 47		0.6	115	
	05	LPB	eP	23 45 15				
		PNS	eP	23 45 16.6				
	06	USCGS 00 42 57.0, 21.7S, 69.5W, h = 77 km., m = 4.5 NORTHERN CHILE						
		LPB	P	00 44 18.5		0.7	196	5
		PNS	P	00 44 19.4				
	06	PNS	P	01 29 06.6		0.7	3	
	06	LPB	P	01 51 32		0.6	14	
		PNS	P	01 51 32	D	0.4	7	
			e(S)	52 01.8				
	06	USCGS 02 06 39.9, 8.8S, 157.4E, m = 4.9 SALOMON IS						
		PNS	ePKP	02 24 47.8				
		LPB	ePKP	02 24 48				127
	06	PNS	eP	03 43 20				
		LPB	eP	03 43 29.5				
	06	PNS	P	04 22 15.8		0.4	6	
			S	38.4				
	06	PNS	eP	05 03 13.6				
	06	USCGS 06 46 18.2, 11.8N, 143.1E, m = 5.2 SOUTH OF MARIANA IS						
		PNS	ePKP	07 06 08				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	06	PNS	P	07 14 09.6		0.6	5	
	06	USCGS 09 24 23.3, 11.4N, 87.2W, m = 48 NEAR COAST OF NICARAGUA						
		PNS	P	09 30 32	C			
	06	PNS	eP	12 48 08.6				
	06	PNS	eP	14 32 27.6				
	06	USCGS 15 30 29.7, 30.2S, 178.0W, h = 137 km., m = 5.2 KERMADEC IS REG						
		PNS	eP	15 44 04				
	06	USCGS 15 39 00.9, 10.5S, 164.5E, h = 32 km., m = 6.2 SANTA CRUZ IS REG						
		PNS	PKP PP L	15 57 54.8 59 29.2 16 36.9		1.0	24	
	06	PNS	P	16 38 24.8		0.5	3	
	06	PNS	eP	17 45 22.8				
	06	USCGS 17 33 40.5, 10.7S, 164.4E, m = 5.4 SANTA CRUZ IS REG						
		PNS	ePKP	17 52 32.2				
	06	PNS	P	20 32 11.2				
	06	USCGS 20 59 55.9, 10.6S, 164.4E, m= 4.7 SANTA CRUZ IS REG						
	06	PNS	P	21 10 59.4		1.0	6	
	06	PNS	eP	21 30 38.8				
	06	PNS	P	22 24 49.6				
	06	PNS	P iS	23 42 14.2 50	D			
	06	PNS	eP eS	23 59 17.2 50				
	07	USCGS 01 1414.1, 6.2S, 146.4E, h = 97 km., m= 5.3 EAST NEW GUINEA REG						
		PNS	ePKP	01 33 28				
	07	PNS	eP	01 37 00.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	07	PNS	eP	02 25 45.6				
	07	PNS	eP	04 38 22				
	07	USCGS 04 40 21.4, 16.0S, 167.5E, h =45 km., m= 4.7 NEW HEBRIDES IS						
	07	PNS	eP	05 19 43.8				
	07	PNS	P	05 54 28				
	07	PNS	P S	06 10 21.2 43.8		0.5	7	
	07	PNS	eP	07 02 00.4				
	07	USCGS 07 01 55.2, 26.1N, 129.5E, h = 61 km., m = 5.3 RYUKYU ISLANDS						
		PNS	PKP	07 21 52.2				
	07	PNS	P	08 59 27.2				
	07	PNS	P	11 32 33.6		0.8	9	
	07	PNS	P	13 22 58.4		0.4	2	
	07	PNS	eP (S)	13 46 53.4 47 15.6				
	07	PNS	P eS	14 16 59 26.2		0.3	6	
	07	PNS	P S	14 54 37.5 55 11.6				
	07	PNS	P	16 04 06.2		0.5	3	
	07	PNS	eP	17 05 53.6				
	07	PNS	P	17 08 59		0.5	4	
	07	USCGS 17 46 45.8, 10.8S, 164.4E, h = 29 km., m = 5.3 SANTA CRUZ IS REG						
		PNS	ePKP	18 05 37				
	07	PNS	eP	18 07 11.8		1.6	25	
	07	PNS	eP	19 59 23.2		0.3	2	
	07	USCGS 21 57 05.8, 51.6N,159.5E, m = 4.6 OFF COAST OF KAMCHATKA						
	07	USCGS 20 18 31.3, 18.4S, 70.7W, h = 72 km., m = 4.9 NEAR COAST OF NORTHERN CHILE						
		PNS	P iS	20 19 20.8 20 10	C	0.9	16	

JANUARY

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	08	PNS	P	00 04 33.6		0.4	2	
	08	PNS	P S	03 22 49.4 12		0.4	5	
	08	USCGS 04 00 47.4, 22.7S, 68.3W, h = 111 km., m= 4.4 NORTHERN CHILE						
		PNS	P	04 02 22.2		0.8	13	
	08	PNS	P eS	04 57 42 55 14.6		0.5	6	
	08	PNS	P S	09 03 47 59.4		0.5	8	
	08	PNS	P eS	09 19 31 53.4		0.4	6	
	08	PNS	eP	10 40 39.6				
	08	PNS	eP	11 19 44.6				
	08	PNS	P	11 56 36.2		0.6	3	
	08	PNS	eP	13 11 47.4		0.5	6	
	08	PNS	eP	14 16 24.4				
	08	PNS	eP	16 29 53.6				
	08	PNS	eP	21 15 40				
	08	PNS	P	21 47 04	D			
	08	USCGS 21 55 48.1, 11.8N, 143.1E, m = 5.6 SOUTH OF MARIANA IS						
		PNS	ePKP eL	22 15 37.8 28 07		1.8	41	
	08	PNS	P eS	22 32 37 33 40	C			
	09	PNS	eP	03 02 05.6				
	09	PNS	P	03 17 00.4		0.6	6	
	09	PNS	eP	03 48 30.8				
	09	USCGS 04 20 26.6, 52.9N, 34.9W, m = 4.6 NORTH ATLANTIC OCEAN						
		PNS	eP	04 32 07.4				
	09	PNS	eP	05 42 40				
	09	PNS	eP	06 12 08.8				

JANUARY

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	09	USCGS 07 45 02.9, 38.2N, 74.0E, h = 137 km., m = 5.0 TADZHIK-SINKIAN BORD REG						
	09	PNS	eP	08 22 35.2				
	09	PNS	eP	09 52 58				
	09	PNS	eP	10 06 00.4				
	09	USCGS 10 20 30.4, 24.7S, 68.0W, h = 97 km., m = 4.0 CHILE-ARGENTINA BOR REG						
		PNS	P	10 22 32.2		0.5	7	
	09	PNS	eP eS	11 26 03.6 28				
	09	USCGS 12 23 40.5, 6.6S, 148.1E, h = 68 km., m = 5.1 NEW BRITAIN REG						
		PNS	ePKP	12 42 59				
	09	USCGS 13 43 08.3, 6.6S, 148.0E, h = 66 km., m = 5.0 NEW BRITAIN REG						
		PNS	ePKP	14 02 24.2				
	09	PNS	iP S	15 39 03.8 01.2	C			
	09	USCGS 15 48 00.4, 6.7S, 148.1E, h = 68 km., m = 4.2 NEW BRITAIN REG						
		PNS	ePKP	16 07 17.6				
	09	PNS	eP	16 34 30		0.5	4	
	09	PNS	eP	17 17 43.4				
	09	PNS	P	20 18 14.8				
	09	PNS	P	21 08 00		0.5	7	
	09	PNS	P S	21 33 53.6 34 21.2		0.5	7	
	09	PNS	eP	21 43 13.8				
	09	PNS	P	23 12 03.4		1.0	10	
	10	PNS	P	02 43 17.8		0.5	15	

JANUARY

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	10	USCGS 03 20 54.9, 29.0N, 130.7E, m = 5.5 RYUKYU ISLANDS						
		PNS	PKP	03 40 23.6		0.6	9	
			eL	04 33				
	10	PNS	eP	06 19 03				
			S	20 05.4				
	10	PNS	P	08 31 29.7				
	10	PNS	eP	08 47 17				
	10	PNS	P	08 56 51		0.6	6	
	10	PNS	iP	11 08 08.2	D			
			iS	30				
	10	PNS	iP	12 37 18.4	D			
	10	PNS	P	12 59 20.6				
	10	USCGS 13 37 24.0, 13.2S, 69.2W, h = 636 km., m = 4.0 PERU-BOLIVIA						
		PNS	1P	13 38 48.8	D			
			eS	39 29.2				
	10	PNS	eP	16 40 15.2				
	10	PNS	eP	20 51 56				
	10	PNS	P	20 59 05.5	D	0.4	2	
	10	PNS	eP	22 44 292.2				
	10	USCGS 23 16 37.2, 32.5N, 48.7E, h = 62 km., m = 4.6 WESTERN IRAN						
	11	PNS	eP	00 49 40				
	11	PNS	eP	01 58 42.4				
	11	USCGS 04 26 26.8, 28.4S, 177.0W, h = 68 km., m = 5.4 KERMADEC IS						
		PNS	eP	04 40 00				
			eL	05 12				
	11	USCGS 04 47 42.7, 28.5S, 176.8W, h = 68 km., m = 5.1 KERMADEC IS						
		PNS	eP	05 01 18				
			eL	33.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	11	USCGS 05 02 55.9, 28.5S, 176.7W, h = 76 km., m = 5.2 KERMADEC IS						
		PNS	eP	05 16 28				
	11	USCGS 06 07 51.6, 22.1S, 69.2W, m = 4.1 NORTHERN CHILE						
		PNS	P	06 09 20		0.6	10	
	11	PNS	P	06 23 26.6		0.4	3	
	11	PNS	eP	07 00 00				
	11	PNS	P	07 12 20				
	11	PNS	P	08 38 04.8	C	0.4	5	
			eS	40				
	11	PNS	P	09 20 40				
			S	21 20				
	11	PNS	P	11 29 09.4				
	11	USCGS 11 58 46.8, 10.2S, 13.2W, m = 4.9 ASCENSION IS REG						
		PNS	P	12 08 10		1.2	18	
			eL	25				
	11	PNS	P	14 02 47.6				
	11	PNS	P	17 50 40	D			
	11	PNS	eP	19 17 57				
	11	PNS	eP	20 59 38.2				
	11	PNS	P	22 09 12.2		1.0	10	
	11	PNS	e(P)	22 32 13.8				
	12	PNS	eP	01 51 26				
	12	PNS	P	04 33 48.8		0.5	3	
	12	PNS	P	04 39 23.4		0.4	2	
	12	PNS	eP	05 02 05.4				
	12	PNS	eP	08 22 24.6				
	12	PNS	P	09 14 20				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	12	PNS	P S	10 21 40 22 04				
	12	PNS	P	10 56 16.8		1.2	45	
	12	PNS	P eS	11 13 01.6 14 05		0.5	7	
	12	PNS	eP	11 48 46				
	12	PNS	eP	13 26 08.4				
	12	PNS	P	13 52 38.4	C			
	12	USCGS		14 12 53.0, 14.1S, 72.7W, h = 113 km., m = 5.2 PERU				
		PNS	iP	14 14 03.4	C			
	12	PNS	P	14 40 47.2				
	12	PNS	iP	15 50 42	C			
	12	PNS	P S	16 05 01.6 38.2		0.5	4	
	12	PNS	eP	17 39 37.2		0.9	9	
	12	PNS	iP	19 46 21.6	C			
	12	PNS	P iS	20 09 03.8 25.8				
	12	PNS	eP	20 35 30.4				
	12	PNS	eP	20 59 22.2		0.4	2	
	12	PNS	eP	21 41 18.4		1.4	14	
	12	PNS	eP	23 08 43.8				
	13	PNS	P	01 05 04.4		0.5	4	
	13	PNS	eP eL	01 14 31.6 31		1.6	17	
	13	PNS	eP eS	01 33 24.4 53.2		0.8	6	
	13	PNS	P S	01 37 26.2 38 33.8				
	13	PNS	P S	02 45 22.8 45.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	13	PNS	P S	05 00 59 01 36.4				
	13	USCGS		05 02 32.4, 13.6S, 77.8W, h = 93 km., m = 4.3 OFF COAST OF PERU				
		PNS	P	05 04 47.2		1.0	7	
	13	PNS	P eS	05 26 30 27 56		0.5	2	
	13	USCGS		05 37 30.0, 13.7N, 120.6E, h = 121 km., m = 5.0 MINDORO, PHILIPPINE IS				
		PNS	ePKP eL	05 57 28.8 06 58.3				
	13	PNS	P	06 02 50				
	13	USCGS		06 36 37, 37.1S, 73.6W, m = 4.9 NEAR COAST OF CENTRAL CHILE				
		PNS	P i	06 41 24.2 45 28.2				
	13	PNS	P	06 55 08				
	13	PNS	P i	07 07 01.6 41				
	13	PNS	P iS	08 02 09.6 32.2				
	13	USCGS		08 55 03.9, 0.8S, 158.8E, h = 48 km., m = 5.7 SALOMON IS				
		PNS	PKP i	09 14 06.6 20		1.0	17	
	13	USCGS		09 24 53.5, 37.3S, 73.6W, m = 4.4 NEAR COAST OF CENTRAL CHILE				
		PNS	P	09 29 42.2		1.4	10	
	13	PNS	eP	09 46 40				
	13	PNS	eP	10 36 58				
	13	PNS	P S	11 09 41.4 10 05.8	D			
	13	PNS	P	14 19 27		0.4	4	
	13	PNS	P	14 23 44		1.0	11	
	13	PNS	iP	14 53 39.2	C			

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	13	PNS	eP	16 30 57.4		0.5	3	
	13	PNS	P	17 06 04		0.8	10	
	13	PNS	P	21 01 13				
	13	PNS	P	22 49 11				
	14	PNS	iP	00 40 24.8				
	14	PNS	P	01 10 49		0.4	7	
			S	11 14.4				
	14	PNS	iP	02 03 45	C			
			eS	04 15.2				
	14	PNS	eP	02 27 36.2				
	14	PNS	eP	04 44 15.2		0.8	5	
	14	PNS	eP	06 19 34.4				
	14	PNS	eP	08 42 05.8				
	14	PNS	P	08 52 10		0.6	10	
	14	USCGS 09 51 29.6, 8.6S, 74.4W, h = 150 km., m = 4.5 PERU-BRAZIL BOR REG						
		PNS	eP	09 53 45.4		0.8	10	
	14	PNS	eP	12 59 46				
	14	PNS	P	13 08 44.2				
			S	09 02.4				
	14	PNS	P	13 49 39.2				
			S	50 18.8				
	14	PNS	P	15 36 41.8				
			S	04.8				
	14	USCGS 16 02 00.7, 37.5N, 141.5E, h = 60 km., m = 4.8 NEAR EAST COAST OF HONSHU, JAPAN						
		PNS	PKP	16 21 37.4		1.0	17	
	14	PNS	eP	16 33 37.2		0.6	3	
	14	PNS	eP	16 36 20				
	14	PNS	eP	22 28 07.4				
			S	29 30				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	14	USCGS 23 12 07.9, 36.2N, 29.2E, m = 5.5 TURKEY						
		LPB	ePKP	23 26 19				105
			PP	30 50				
			SKS	36 56				
			eL	00 02				
		PNS	eP	23 26 21				
			PP	30 47				
			SKS	37 00				
			eL	00 02				
	14	PNS	eP	23 42 10				
		LPB	eP	23 42 11				
	15	PNS	eP	00 12 42.2				
	15	PNS	iP	03 29 34.8	D			
			iS	57				
		LPB	P	03 29 35.4		0.6	15	
			iS	59				
	15	LPB	P	04 58 34.8		0.8	25	
		PNS	eP	04 58 35.8				
	15	LPB	eP	05 30 34.7				
		PNS	P	05 30 38.4		0.5	4	
	15	PNS	P	07 51 04		1.0	8	
		LPB	P	07 51 05				
	15	USCGS 08 19 58.2, 6.3S, 78.3W, h = 164 km., m = 4.1 NORTHERN PERU						
		LPB	eP	08 23 14				14
		PNS	eP	08 23 17.4				
	15	PNS	iP	08 51 28. 2	C			
			iS	50				
		LPB	iP	08 51 29.6	C			
	15	PNS	eP	09 05 05.4				
		LPB	eP	09 05 06				
	15	PNS	eP	09 19 28				
		LPB	eP	09 19 31.5				
	15	LPB	eP	10 21 18.5				
		PNS	P	10 21 24				
	15	PNS	iP	11 12 22.4	D			
			S	50				
		LPB	P	11 12 25.5				
	15	PNS	eP	11 33 01				
		LPB	eP	11 33 07				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	15	PNS	eP	11 44 10				
	15	USCGS 12 59 06.7, 3.2S, 118.9E, m = 5.5 CELEBES						150
		LPB	ePKP	13 19 06		2.2	72	
		PNS	PKP	13 19 07				
			i	44.2				
	15	LPB	P	13 48 40.3				
		PNS	iP	13 48 41	D			
			S	49 10.2				
	15	LPB	eP	14 28 20				
		PNS	eP	14 28 20				
	15	PNS	P	14 42 11.2	D	0.5	15	
			S	40				
	15	PNS	P	16 51 48.2		0.6	5	
	15	LPB	eP	17 11 32				
		PNS	eP	17 11 39.2		0.6	3	
	15	PNS	P	20 37 54.8				
	15	LPB	eP	21 20 46				
		PNS	P	21 20 47		0.5	3	
			eS	21 20				
	15	PNS	iP	23 20 10.8	D			
			S	34.4				
		LPB	P	23 20 14		1.0	22	
	16	LPB	eP	00 41 28				
		PNS	eP	00 41 30.8		0.8	4	
	16	LPB	eP	03 54 09				
		PNS	eP	03 53 59.6				
	16	LPB	P	05 04 54.4		0.6	28	
	16	LPB	eP	05 57 00		2.7	37	
	16	PNS	P	06 47 50				
			S	48 02.2				
	16	USCGS 07 14 12.8, 0.5N, 98.7E, m = 5.2 NORTHERN SUMATRA						158
		LPB	ePKP	07 34 11.5				
		PNS	ePKP	07 34 13				
	16	LPB	eP	08 04 06.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	16	PNS	eP	08 10 26.2				
			eS	11 27.8				
	16	PNS	P	08 26 25		0.6	3	
		LPB	P	08 26 30.6				
			i	46.2				
	16	LPB	eP	09 55 25				
		PNS	eP	09 55 29.6				
	16	LPB	eP	10 27 00.5				
	16	PNS	P	14 43 42.4				
			eS	44 07.2				
		LPB	eP	14 43 44				
	16	USCGS 15 51 46.5, 5.5S, 153.2E, h = 53 km., m = 4.9 NEW IRELAND REG						
		LPB	ePKP	16 11 02				133
		PNS	PKP	16 11 02.6		0.6	4	
	16	PNS	P	16 39 44.2				
	16	LPB	eP	17 26 08.2				
		PNS	P	17 26 10		0.8	7	
			e	42.6				
	16	PNS	eP	20 06 03.2				
	16	PNS	eP	20 43 22.6				
	16	PNS	eP	21 57 20				
	17	LPB	e(P)	00 49 11.5				
	17	LPB	eP	00 53 21.3				
		PNS	P	00 58 23.6				
	17	PNS	P	01 39 09.6		0.5	5	
	17	PNS	P	03 02 17.2		0.5	7	
	17	LPB	eP	03 12 23.7		0.8	21	
	17	LPB	eP	04 53 04.5				
		PNS	eP	04 53 06.6				
	17	USCGS 05 28 30.1, 16.3S, 73.5W. h = 62 km., m = 4.4 NEAR COAST OF PERU						
		LPB	P	05 29 50.5		0.9	120	5
		PNS	P	05 29 51.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	17	LPB	P	06 40 03.5				
	17	PNS	eP	07 11 18.4				
	17	LPB	eP	07 59 08.7				
		PNS	eP	07 59 11.6				
	17	USCGS 08 33 54.3, 5.1N, 75.3W, h = 138 km., m = 4.4						
		COLOMBIA						
		LPB	P	08 57 43				21
		PNS	eP	08 37 45				
	17	LPB	P	09 27 09.5		0.9	17	
		PNS	eP	09 27 17.2				
	17	PNS	eP	09 29 42.2				
	17	PNS	eP	11 10 42.6		0.6	4	
		LPB	eP	11 10 41.2				
	17	PNS	eP	12 28 56				
			S	29 24.4				
	17	LPB	P	15 04 00.5		1.0	50	
			S	39				
		PNS	P	15 04 06.8				
			S	47.6				
	17	LPB	eP	15 24 11				
			i	26 38.4				
		PNS	eP	15 24 03.0				
	17	LPB	eP	17 06 07				
	17	PNS	P	20 11 18				
	17	PNS	eP	21 16 38		0.6	3	
	17	LPB	eP	22 54 55				
		PNS	eP	22 54 57.5		0.8	3	
	18	LPB	P	00 05 13		0.8	27	
			(S)	06 12				
		PNS	P	00 05 16.5		0.7	15	
	18	PNS	eP	00 43 01.5		0.5	4	
		LPB	eP	00 42 59				
	18	PNS	P	02 25 21.4				
			S	42.8				
		LPB	eP	02 25 28				
	18	LPB	eP	03 09 00				
		PNS	P	03 09 03.8		0.5	4	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	18	USCGS 03 02 38.7, 56.8S, 26.8W, h = 141 km., m = 5.9						
		SOUTH SANDWICH IS REG						
		LPB	iP	03 11 27	C	1.4	1125	50
			iS	18 30				
			eL	27				
		PNS	iP	03 11 29.6	C			
			S	18 35.8				
			eL	27				
	18	LPB	eP	03 41 30				
	18	USCGS 03 49 55.5, 3.0S, 118.9E, m = 5.3						
		CELEBES						
		PNS	ePKP	04 09 55.2				
			i	10 34				
		LPB	P	04 09 55.4		1.0	14	159
			i	33				
	18	USCGS 03 55 43.8, 3.0S, 118.9E, m = 5.3						
		CELEBES						
		PNS	ePKP	04 15 43				
			e	16 20				
		LPB	eP	04 15 44.5				159
			e	16 21.6				
	18	LPB	eP	07 12 25				
	18	LPB	eP	09 49 07				
	18	LPB	P	10 09 52.6		0.8	9	
	18	PNS	eP	13 38 26.4		0.6	3	
		LPB	eP	13 38 27				
	18	PNS	eP	14 05 11.6				
		LPB	eP	14 05 12.6				
	18	PNS	P	14 29 55.8	D	0.6	5	
			S	30 19.6				
	18	LPB	eP	14 40 27				
		PNS	P	14 40 31.8		0.8	5	
	18	PNS	eP	15 10 21.2		0.8	7	
			eS	11 17.6				
		LPB	eP	15 10 24				
	18	PNS	eP	15 14 15.6		0.8	15	
		LPB	eP	15 14 16				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	18	PNS	P	16 07 04.6	D			
	18	PNS	eP	16 43 03.8		0.6	2	
	18	LPB	eP	17 45 16				
		PNS	eP	17 45 17				
	18	USCGS 18 27 04.2, 22.1S, 63.4W, h = 44 km., m = 4.5 SALTA, PROV. ARGENTINA						
		LPB	P	18 28 46.5				6
			i	30 52		0.9	10	
		PNS	P	18 28 50.6				
			L	31.6				
	18	PNS	P	18 53 40				
		LPB	eP	18 53 43				
	18	PNS	eP	19 07 40				
			eS	57.4				
	18	PNS	eP	20 19 00.4				
			eS	42.4				
	18	PNS	P	20 33 27.6		0.5	3	
			eS	34 31.2				
	18	PNS	eP	22 23 51.8				
	18	PNS	eP	22 50 17	D			
		LPB	eP	22 50 18				
	19	PNS	eP	00 05 00				
	19	PNS	eP	01 03 40				
	19	PNS	P	03 02 27.6		0.8	5	
	19	LPB	P	03 08 19.4		0.8	68	
	19	LPB	P	03 10 41.5		0.8	40	
	19	PNS	eP	03 32 58.6		0.8	13	
		LPB	eP	03 33 03.9				
			S	54.5				
	19	LPB	P	04 03 04.4		0.9	20	
		PNS	P	04 03 08.4		0.5	7	
	19	LPB	eP	04 26 24.5				
		PNS	eP	04 26 30				
	19	LPB	eP	04 58 05		0.6	4	
		PNS	eP	04 58 09.6				
	19	PNS	eP	06 12 46.8				
		LPB	P	06 12 52.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	19	USCGS 07 02 04.4, 45.0N, 143.2E, h = 204 km., m = 6.4 HOKKAIDO, JAPAN REGION						
		PNS	PKP	07 21 05				
			PP	24 20				
			L	08 08.8				
		LPB	PKP	07 21 06.5				142
			PP	24 27.5				
			eL	08 10				
	19	USCGS 07 26 05.9, 1.2N, 126.7E, h = 39 km., m = 5.6 MOLUCCA PASSAGE						
		LPB	ePKP	07 46 04				159
		PNS	ePKP	07 46 04		1.8	40	
	19	PNS	eP	11 15 21.2				
		LPB	eP	11 15 22.3				
	19	LPB	iP	13 10 28.8	C	0.8	160	
			S	53				
		PNS	iP	13 10 29.4	C			
			S	56.4				
	19	PNS	iP	15 05 31.3	D			
			S	06 01.6				
		LPB	P	15 05 35		0.8	45	
	19	LPB	eP	16 00 44.6				
		PNS	P	16 00 52.8				
			eS	01 24.8				
	19	LPB	eP	16 40 46				
		PNS	eP	16 40 50				
	19	USCGS 18 47 59.3, 35.6S, 71.9W, h = 77 km., m = 4.7 CENTRAL CHILE						
		LPB	P	18 52 22	D	1.0	18	19
			i	56				
		PNS	P	18 52 23.8	D	0.8	15	
	19	USCGS 18 50 52.1, 14.9S, 167.2E, h = 112 km., m = 6.2 NEW HEBRIDES IS						
		LPB	PKP	19 09 26				2
		PNS	PKP	19 09 27		1.6	47	
	19	LPB	P	21 29 23		0.5	60	
			S	30 18				
		PNS	iP	21 29 26.6	D			
			eS	30 24				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	19	LPB	eP	23 26 43				
		PNS	eP	23 26 47.7				
	20	LPB	eP	00 39 05.5				
	20	PNS	P	01 48 08.3		0.5	7	
		LPB	eP	01 48 10				
	20	PNS	eP	04 27 06		1.0	8	
			e	11.8				
		LPB	eP	04 27 06.5				
	20	PNS	P	04 50 37.4				
		LPB	e(P)	04 50 39				
			e	51 23				
	20	PNS	eP	05 08 09.2		1.0	16	
		LPB	eP	05 08 12.7				
	20	PNS	eP	05 10 52.5				
		LPB	eP	05 10 55				
	20	LPB	eP	06 09 15				
		PNS	eP	06 09 10.9				
	20	LPB	eP	07 23 19				
	20	LPB	eP	08 09 25.5				
		PNS	eP	08 09 30				
	20	PNS	eP	08 19 10.8				
		LPB	eP	08 19 12				
			S	40				
	20	LPB	P	08 58 35.0	C	0.5	23	
		PNS	eP	08 58 44.3				
	20	PNS	eP	11 33 51.2				
	20	LPB	eL	13 22.5				
	20	USCGS 14 20 11.5, 54.9N, 166.0E, h = 23 km., m = 6.1 KOMANDORSKY IS REG						
		PNS	PKP	14 39 08.6		1.0	34	
		LPB	ePKP	14 39 10		1.0	82	123
	20	LPB	eP	15 25 08.6				
			e	25.4				
	20	LPB	eP	15 41 47		0.7	5	
		PNS	eP	15 41 47.6				
	20	LPB	eP	15 56 57				
		PNS	eP	15 56 59.5		0.8	7	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	20	LPB	eP	16 14 02				
		PNS	eP	16 14 08.3				
	20	LPB	P	16 39 05.5	C	0.6	90	
			S	45.5				
		PNS	P	16 39 07.1	C			
	20	PNS	eP	18 51 07.3				
	20	PNS	P	19 09 39.7		0.8	6	
		LPB	eP	19 09 40				
	20	PNS	eP	20 14 41.7				
	20	PNS	P	22 04 59.6		0.4	2	
		LPB	eP	22 05 02				
	20	PNS	eP	22 25 10.7				
		LPB	eP	22 25 15				
	21	PNS	P	00 08 48.2				
			S	09 10.7				
	21	PNS	eP	01 42 28.5				
		LPB	eP	01 42 36				
	21	USCGS 01 47 29.6, 7.3S, 128.3E, h = 91 km., m = 5.6 BANDA SEA						
		LPB	PKP	02 07 10.3		1.1	60	15
			i	16				
			i	54.5				
			eL	03 00.4				
		PNS	PKP	02 07 10.4		1.2	28	
			i	16.8				
			i	54.4				
	21	PNS	P	04 16 19.4				
		LPB	eP	04 16 22				
	21	LPB	(P)	04 40 55.5				
			e	41 21.7				
	21	LPB	P	04 56 32.5		0.7	11	
			S	57 23				
		PNS	P	04 56 36.7		0.8	8	
	21	LPB	eP	07 48 08				
		PNS	eP	07 08 07				
	21	PNS	eP	08 13 14.5				
		LPB	eP	08 13 19				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	21	USCGS 08 05 40.1, 28.7N, 43.6W, m = 5.2 NORTH ATLANTIC RIDGE						
		LPB	P	08 14 38.6		1.8	258	51
			S	22 00				
			eG	28				
			eL	30				
		PNS	P	08 14 39				
			S	21 58				
			eL	29.8				
	21	PNS	eP	08 24 32.6				
		LPB	(P)	08 24 33.2				
	21	PNS	eP	08 27 34.9		0.5	4	
			eS	58.3				
	21	LPB	eP	09 56 57.2		1.2	18	
	21	LPB	P	10 30 37		1.0	14	
			e	32 19.5				
		PNS	eP	10 30 36.4				
			e	32 20				
	21	USCGS 11 41 36.2, 2.3S, 79.4W, h = 76 km., m = 4.2 NEAR COAST OF ECUADOR						
		PNS	P	11 45 43		0.8	30	18
		LPB	P	11 45 48				
	21	PNS	eP	12 52 02.8				
	21	USCGS 12 42 02.2, 8.8S, 124.1E, h = 16 km., m = 5.5 TIMOR						
		LPB	ePKP	13 02 01				152
		PNS	ePKP	13 02 01.3	C	0.6	8	
	21	PNS	eP	13 57 38.4				
		LPB	eP	13 57 42				
	21	PNS	eP	14 15 36.8				
	21	PNS	P	14 55 48.2		0.9	6	
		LPB	eP	14 55 52				
	21	USCGS 15 16 15.7, 0.8N, 120.0E, m = 5.6 NORTHERN CELEBES						
		LPB	ePKP	15 36 16				162
		PNS	ePKP	15 36 21.2		1.9	27	
	21	LPB	eP	16 24 12				
		PNS	eP	16 24 14.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	21	PNS	eP	17 20 17.8				
			i	34.4				
	21	PNS	e(P)	17 47 59.8				
	21	LPB	eP	19 48 49.5				
		PNS	eP	19 48 55.6				
	21	PNS	eP	23 28 05.1				
	21	LPB	eP	23 52 51.5				
			S	53 20				
		PNS	P	23 52 57.3				
			S	53 21.8				
	22	USCGS 00 42 30.0, 55.9N, 163.0E, m = 5.5 OFF EAST COAST OF KAMCHATKA						
		PNS	PKP	01 01 29.1		0.8	7	
		LPB	PKP	01 01 29.5		1.0	24	125
	22	PNS	eP	01 12 37.6				
		LPB	eP	01 12 39				
	22	PNS	eP	02 47 20.9		0.9	5	
		LPB	eP	02 47 21				
	22	USCGS 04 02 52, 6.0S, 153.7E, h = 17 km., m = 4.9 NEW BRITAIN REG						
		PNS	ePKP	04 22 06.7				
	22	LPB	P	06 09 08.2		0.7	18	
		PNS	P	06 09 08.8		1.2	11	
	22	PNS	eP	08 09 33.5				
	22	LPB	P	09 18 26.5		0.7	36	
		PNS	P	09 18 30.4	C			
	22	PNS	P	10 39 32.4		0.6	6	
	22	PNS	eP	10 56 51.2				
		LPB	eP	10 56 54		0.8	22	
	22	PNS	eP	12 30 52				
	22	PNS	eP	14 44 31.6				
			eS	51.7				
	22	LPB	eP	16 24 15.8				
			S	47.6				
		PNS	iP	16 24 20.6	D			
			S	43.8				
	22	PNS	P	16 39 31.4		0.6	2	
		LPB	eP	16 39 32				
	22	PNS	eP	16 44 12.5				
	22	LPB	eP	17 33 50				
		PNS	P	17 33 53.2		1.6	20	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	22	LPB	eP	17 46 27				
		PNS	eP	17 46 28.8				
	22	PNS	e(P)	18 20 10.5				
	22	LPB	P	19 36 54.2				
			S	37 39.3				
		PNS	P	19 37 00.6	C			
	22	PNS	eP	22 43 50.8				
	22	PNS	P	22 52 14.2				
	22	USCGS 23 14 51.6, 22.7S, 68.6W, h = 124 km., m = 4.5 NORTHERN CHILE						
		LPB	P	23 16 24		0.9	50	7
			i	38.8				
			eS	17 07				
		PNS	P	23 16 24.9				
	22	PNS	eP	23 50 04		1.0	7	
	23	PNS	eP	00 34 32.4				
			S	58.8				
		LPB	eP	00 34 35.5		0.5	15	
			S	59.4				
	22	LPB	eP	01 55 04				
			e	10.5				
		PNS	eP	01 55 04.6				
			e	12.4				
	23	LPB	eP	02 49 53.4				
			e	50 32.8				
		PNS	eP	02 49 57.2				
	23	USCGS 05 16 35.3, 14.2S, 14.5W, m = 4.8 SOUTH ATLANTIC RIDGE						
		PNS	eP	05 25 42				
	23	PNS	eP	05 38 54.8				
			S	39 27				
	23	USCGS 06 06 48.6, 31.4S, 69.1W, h = 122 km., m = 4.0 SAN JUAN PROVINCE, ARGENTINA						
		PNS	eP	06 10 17				14
		LPB	eP	06 10 17.5				
			(S)	51.7				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	23	LPB	P	07 42 14				
			e	43 10				
			S	43 52.7				
		PNS	eP	07 42 17.3				
	23	LPB	e(P)	10 06 34.8				
		PNS	eP	10 06 36.8				
	23	PNS	eP	13 17 42				
	23	USCGS 13 46 11.2, 20.0S, 70.5N, h = 70 km., m = 4.2 NEAR COAST OF NORTHERN CHILE						
		LPB	P	13 47 14.5		1.2	35	5
			eS	48 05.5				
		PNS	P	13 47 15		0.4	4	
	23	PNS	eP	14 21 07.5				
	23	PNS	eP	14 57 30				
	23	PNS	eP	15 38 41.2				
	23	PNS	eP	16 32 15.4				
	23	PNS	eP	16 35 05.4				
			S	41.4				
	23	PNS	eP	18 21 01				
	23	PNS	eP	18 42 18.2				
		LPB	eP	18 42 24				
			e	43 44				
	23	LPB	eP	19 04 20				
		PNS	P	19 04 22.3		0.8	4	
	23	LPB	eP	19 14 15				
		PNS	P	19 14 19.7		0.5	6	
	23	LPB	eP	20 31 40				
	23	PNS	P	22 08 06.5				
			e(S)	55.2				
		LPB	eP	22 08 11.4				
	23	PNS	P	22 36 58.5		0.6	5	
	23	LPB	eP	22 40 07.6				
	23	LPB	eP	23 08 53				
		PNS	P	23 08 53.7				
			S	09 20				
	24	PNS	P	01 16 11.8		0.5	5	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	24	LPB	eP	01 39 39				
		PNS	P	01 39 39.4		0.5	2	
			S	40 08.8				
	24	USCGS 02 33 03.5, 21.9S, 179.6W, h = 595 km., m = 5.9 FIJI ISLANDS REGION						
		LPB	P	02 45 37.6		1.4	47	103
			PP	50 19.5				
			SKS	55 38.2				
		PNS	P	02 46 00.8				
			PP	50 20.4				
			SKS	55 40.8				
	24	LPB	P	03 01 52.4				
			e	02 15				
		PNS	eP	03 01 56.4				
			e	02 21.2				
	24	LPB	P	03 28 00		1.2	34	
		PNS	P	03 28 01.4		1.2	16	
	24	PNS	P	04 20 13.2				
	24	PNS	eP	05 38 15.4				
		LPB	eP	05 38 21.2				
	24	LPB	eP	09 41 50.7				
		PNS	P	09 41 56.6		0.8	8	
	24	LPB	eP	10 44 33				
	24	PNS	P	11 31 14.2				
	24	PNS	P	11 55 36.9		0.5	5	
		LPB	eP	11 55 42				
	24	LPB	P	12 06 33.4		0.7	34	
	24	LPB	iP	12 50 18		0.8	95	
			e	51 04.5				
		PNS	iP	12 50 24.8	C			
	24	LPB	eP	15 08 50				
		PNS	eP	15 08 51.7				
	24	PNS	P	17 03 29.5				
			eS	58.4				
	24	PNS	P	17 13 26.6		0.5	3	
	24	LPB	e(P)	18 25 53.5				
			eS	27 21.3				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	24	PNS	e(P)	20 01 15.2				
	24	LPB	eP	22 34 11.5				
	24	PNS	P	23 43 47.8	D			
			S	44 10				
	25	PNS	eP	00 03 06.5				
	25	PNS	P	01 10 24.4				
			eS	11 03.8				
	25	PNS	P	01 50 59.7		0.4	2	
	25	PNS	eP	03 33 26				
			S	34 04.4				
		LPB	eP	03 33 31.5				
	25	LPB	e(P)	03 40 33.6				
	25	PNS	eP	04 04 41				
			S	05 32.6				
		LPB	eP	04 04 44.5				
	25	USCGS 05 06 45.2, 23.4S, 66.7W, h = 202 km., m = 4.0 JUJUY, PROV. ARGENTINA						
		LPB	P	05 08 27		0.8	34	7
			S	09 41.6				
		PNS	P	05 08 31	C			
			S	09 50.4				
	25	USCGS 05 19 17.1, 0.8N, 126.1E, h = 24 km., m = 5.9 MOLUCCA PASSAGE						
		PNS	PKP	05 39 17.2				
			PP	43 31.6				
			eL	06 35				
		LPB	PKP	05 39 17.6		1.2	128	159
			PP	43 32.4				
			eL	34.5				
	25	LPB	eP	07 45 34.2				
	25	LPB	eP	09 41 45.2				
	25	LPB	eP	10 26 09.6				
	25	PNS	iP	10 58 59.2	C			
		LPB	P	10 59 04.7		1.0	48	
	25	PNS	eP	12 06 18.2				
			eS	50				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	25	PNS	e(P)	14 08 59				
	25	PNS	eP	15 17 05				
		LPB	eP	15 17 06				
	25	PNS	eP	16 41 42.8		0.5	5	
	26	PNS	eP	01 09 33.3				
		LPB	e(P)	01 09 40				
	26	LPB	eP	01 56 51.5				
	26	LPB	eP	02 18 41.8				
			eS	19 02.5				
	26	LPB	eP	05 52 31				
	26	PNS	P	06 11 37.9		0.9	4	
		LPB	eP	06 11 40				
	26	USCGS 06 06 05.9, 6.6N, 127.4E, h = 50 km., m = 5.4 PHILIPPINE IS REG						
		LPB	ePKP	06 26 06				152
			i	53.4				
		PNS	ePKP	06 26 06.5				
			i	52.6				
	26	PNS	eP	06 51 11.8				
	26	PNS	eP	09 52 30				
	26	USCGS 11 49 26.5, 6.7N, 72.8W, h = 182 km., m = 4.3 N COLOMBIA						
		LPB	eP	11 54 21.5				22
		PNS	P	11 54 23.8		0.7	3	
			iP	56.8				
	26	LPB	eP	12 54 21				
		PNS	eP	12 54 26				
	26	USCGS 13 23 46.9, 56.3S, 27.2W, m = 5.1 SOUTH SANDWICH IS REG						
		LPB	P	13 32 43				50
			eL	50.2				
		PNS	P	13 32 45.4		0.8	11	
			eS	40 10				
			eL	49.6				
	26	PNS	eP	15 18 26				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	26	USCGS 15 05 32.7, 55.8N, 162.9E, h = 16 km., m = 5.5 NEAR EAST COAST OF KAMCHATKA						
		PNS	eP	15 24 33.6				
		LPB	ePKP	15 24 36.4				125
	26	PNS	P	15 59 50				
			eL	16 18.5				
		LPB	eP	15 59 51				
	27	PNS	P	00 45 58		0.6	3	
		LPB	eP	00 46 06.5				
	27	LPB	eP	01 05 40				
			eS	06 04.2				
		PNS	P	01 05 37.8	D			
			iS	06 00.2				
	27	LPB	P	02 24 34.4				
	27	USCGS 02 54 40.2, 30.6S, 177.2W, m = 5.0 KERMADEC IS REG						
		PNS	eL	03 43				
	27	PNS	eP	04 28 34.2				
		LPB	eP	04 28 38				
	27	LPB	eP	04 37 02				
		PNS	P	04 37 06.4		0.5	7	
	27	LPB	eP	04 56 01				
		PNS	P	04 56 05.8		0.8	5	
	27	PNS	eP	05 33 03.8				
		LPB	eP	05 33 05				
	27	LPB	eP	07 05 25				
		PNS	eP	07 05 30				
	27	LPB	eP	07 10 16.4				
		PNS	P	07 10 17.6		0.7	4	
	27	LPB	eP	08 28 12				
	27	LPB	eP	09 41 12				
		PNS	P	09 41 14.8				
	27	PNS	P	10 46 55.2				
	27	LPB	eP	11 16 37				
	27	USCGS 13 15 24.4, 8.8N, 137.7E, h = 5 km., m = 5.5 WEST CAROLINE IS.						

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN		LPB	PKP	13 35 20.6		1.2	37	153
		PNS	PKP	13 35 20.6				
	27	USCGS 14 39 58.3, 12.5N, 114.4E, m = 5.3 SOUTH CHINA SEA						
		PNS	ePKP	15 00 09.2				
			e	01 46				
		LPB	ePKP	15 00 09.5				180
	27	LPB	eP	15 58 09				
		PNS	eP	15 58 13.8				
	27	LPB	eP	17 23 26				
			eS	53				
	27	LPB	eP	17 45 25				
		PNS	P	17 45 25.8		0.4	3	
	27	USCGS 18 37 42.2, 43.7N, 140.7E, h = 220 km., m = 4.6 HOKKAIDO, JAPAN REG						
		PNS	ePKP	18 56 51				
	27	PNS	eP	19 48 14.4				
	27	LPB	eP	22 32 29				
		PNS	eP	22 32 36.2				
	28	LPB	eP	00 45 32				
		PNS	P	00 45 32.4				
	28	LPB	eP	01 19 20.6				
		PNS	P	01 19 24		1.0	8	
	28	PNS	eP	03 24 03.8				
		LPB	eP	03 34 07				
	28	LPB	eP	07 16 41				
			S	17 06.5				
		PNS	P	07 16 38.8				
			iS	17 08				
	28	USCGS 09 54 49.1, 29.9N, 140.4E, h = 130 km., m = 4.8 SOUTH OF HONSHU, JAPAN						
		LPB	eP	10 14 28				150
		PNS	P	10 14 28.4				
	28	PNS	eP	13 53 49.5				
		LPB	eP	13 53 52				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	28	PNS	eP	18 00 16.6				
		LPB	eP	18 00 19				
	28	USCGS 19 30 21.9, 7.7S, 106.7E, h = 80 km., m = 5.3 JAVA						
		PNS	ePKP	19 50 12.2				
	28	LPB	eP	21 12 30				
		PNS	eP	21 12 30.6				
	28	LPB	eP	21 25 02				
		PNS	P	21 25 05.0		0.5	2	
	28	PNS	P	22 51 15.2		0.5	2	
		LPB	eP	22 51 19				
	28	PNS	P	23 09 48.6				
			i	58.2				
		LPB	eP	23 09 50				
			i	58.5				
	29	PNS	P	02 56 15.2		0.4	5	
			S	40				
	29	LPB	eP	03 21 15.7				
		PNS	eP	03 21 20.8				
	29	PNS	P	04 07 14	C			
		LPB	P	04 07 18.5				
			eS	08 15				
	29	LPB	eP	05 14 18.5				
	29	PNS	eP	05 41 12.8				
	29	LPB	eP	06 02 20.3				
			(S)	40				
	29	PNS	P	06 27 37.4	D			
		LPB	eP	06 27 40				
	29	LPB	e(P)	06 35 07				
			S	24.6				
	29	LPB	P	06 36 22		1.0	12	
		PNS	P	06 36 23.5				
	29	PNS	P	07 43 09.6				
		LPB	eP	07 43 12				
	29	LPB	eP	08 54 07				
		PNS	eP	08 54 10.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	29	LPB	eP	09 06 25				
	29	PNS	P	09 14 44.5				
		LPB	P	09 14 45.5		0.9	13	
	29	LPB	e(P)	11 12 09.2				
			S	21.7				
	29	PNS	P	11 12 48.4				
		LPB	eP	11 12 51.4				
			e	13 26.5				
	29	USCGS 11 22 42.1, 24.6N, 121.8E, h = 77 km., m = 4.9 TAIWAN						
		PNS	ePKP	11 42 43				
		LPB	ePKP	11 42 43				157
	29	PNS	eP	12 13 21.5				
	29	PNS	eP	13 07 53.6				
	29	LPB	eP	13 12 53				
		PNS	P	13 12 55.3				
	20	PNS	eP	13 24 11.2				
	29	LPB	eP	13 57 40				
	29	PNS	eP	16 41 29				
			i	37.6				
	29	LPB	P	17 43 40.2				
			e(S)	45 08				
		PNS	P	17 43 43.6	C			
	29	LPB	P	17 46 39		0.9	23	
		PNS	P	17 46 42.5	C			
	29	USCGS 17 44 31.1, 17.2S, 171.6W, m = 6.0 TONGA IS REG						
		PNS	P	17 58 04				
			eL	18 29.7				
		LPB	P	17 58 05				97
			L	18 30				
	29	PNS	eP	22 39 14.8				
	29	LPB	eP	22 55 47				
		PNS	eP	22 55 49				
	30	LPB	P	01 22 30		0.6	11	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	30	USCGS 02 33 34.1, 4.1N, 126.4E, h = 68 km., m = 5.5 TALAUD IS						
		LPB	ePKP	02 53 30				160
		PNS	ePKP	02 53 32.1				
	30	LPB	eP	03 23 20				
			S	24 01				
	30	LPB	P	04 06 58.3				
	30	LPB	P	04 08 38.5		0.9	34	
			S	09 37.5				
		PNS	P	04 08 42.8				
	30	LPB	eP	04 48 27.5				
	30	LPB	eP	07 32 24.8				
	30	PNS	eP	10 11 13.2				
		LPB	eP	10 11 14.6				
	30	USCGS 10 29 40.4, 4.8N, 127.4E, h = 70 km., m = 5.9 TALAUD IS						
		LPB	ePKP	10 49 37				160
			eSS	36				
			eL	46				
		PNS	ePKP	10 49 39.6				
			SS	11 14 40				
	30	USCGS 12 38 26.6, 4.7N, 127.7E, h = 65 km., m = 5.1 TALAUD IS						
		PNS	eP	12 58 33.6				
	30	USCGS 12 57 28.7, 6.4S, 81.3W, h = 91 km., m = 4.4 NEAR COAST NORTHERN PERU						
		PNS	eP	13 01 10				
		LPB	eP	13 01 14				16
	30	PNS	eP	13 30 22				
		LPB	eP	13 30 29				
	30	PNS	P	15 49 47.1				
	30	PNS	eP	16 31 59.4				
			i	32 05.2				
		LPB	eP	16 32 00				
	30	USCGS 17 19 35.0, 4.9N, 127.5E, h = 72 km., m = 5.3 TALAUD IS						
		LPB	ePKP	17 39 32.3				160
			eL	36				
		PNS	ePKP	17 39 33				
			eL	18 35.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	30	LPB	eP	19 36 22				
		PNS	eP	19 36 24.8				
	30	LPB	eP	21 35 40.5				
	30	LPB	eP	22 15 38				
		PNS	eP	22 15 38.8				
	30	LPB	eP	22 35 43				
		PNS	eP	22 35 47				
	30	LPB	eP	23 13 54				
		PNS	P	23 13 56.6				
			eS	14 20				
	31	USCGS 00 44 13.3, 4.2N, 128.1E, m = 5.7 NORTH OF ALMAHERA						
		LPB	PKP	01 04 13.6		1.2	46	159
			eL	02 00				
		PNS	PKP	01 04 13.8		1.2	18	
			L	02 00.3				
	31	PNS	P	02 17 30				
	31	LPB	P	02 32 58				
		PNS	P	02 32 59		1.2	19	
	31	LPB	eP	03 13 46.8				
	31	LPB	eP	03 21 12.5				
		PNS	eP	03 21 14.8				
	31	PNS	eP	04 20 56.8				
		LPB	eP	04 20 58.2				
	31	USCGS 04 10 26.3, 53.5N, 158.7E, h = 145 km., m = 5.2 NEAR EAST COAST OF KAMCHATKA						
		PNS	PKP	04 29 17.4				
			e	55				
		LPB	PKP	04 29 18.1		0.8	9	128
	31	USCGS 04 59 32.6, 4.5N, 128.1E, m = 5.1 NORTH OF HALMAHERA						
		LPB	ePKP	05 20 10				159
		PNS	PKP	05 20 10		0.8	4	
	31	PNS	eP	05 28 39.2				
		LPB	eP	05 28 42.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	31	PNS	P	07 53 20				
			eS	42.8				
	31	LPB	e(P)	09 15 02				
		PNS	eP	09 15 04				
	31	USCGS 08 56 42.8, 4.3N, 188.1E, m = 5.4 NORTH OF HALMAHERA						
		PNS	ePKP	09 16 42.4				
			e	17 23				
		LPB	P	09 16 42.6				177
			S	17 26.1				
	31	PNS	P	09 36 06.4		0.4	4	
			S	28.8				
	31	PNS	eP	10 21 12				
		LPB	eP	10 21 13				
	31	USCGS 10 45 42.1, 4.1N, 128.0E, h = 36 km., m = 4.9 NORTH OF HALMAHERA						
		PNS	ePKP	11 05 41				
		LPB	ePKP	11 05 43				159
	31	USCGS 11 21 26.7, 4.2N, 128.1E, NORTH OF HALMAHERA						
		LPB	ePKP	11 41 20				159
		PNS	ePKP	11 41 24				
	31	PNS	eP	12 09 39				
		LPB	eP	12 09 40				
	31	USCGS 13 19 05.7, 4.4N, 128.2E NORTH OF HALMAHERA						
		PNS	ePKP	13 39 07				
			e	45.4				
		LPB	ePKP	13 39 10				159
	31	USCGS 13 48 22.2, 4.3N, 128.1E, m = 5.4 NORTH OF HALMAHERA						
		LPB	ePKP	14 08 24				159
			i	09 03				
			eL	15 04				
		PNS	ePKP	14 08 25.1				
			i	09 01.9				
	31	LPB	eP	15 43 14				
		PNS	P	15 43 16.9				
	31	PNS	eP	20 19 14.3				
	31	USCGS 20 37 50.5, 4.4N, 128.1E, m = 5.3 NORTH OF HALMAHERA						
		LPB	ePKP	20 57 49				159
		PNS	ePKP	20 57 50				

JANUARY

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
JAN	31	LPB	P	22 07 49				
			S	08 12.8				
		PNS	P	22 07 49.8				
			S	08 17				
	31	PNS	eP	22 28 02.4				
	31	PNS	eP	20 19 20				
	31	PNS	P	22 43 44.2		0.8	8	
		LPB	eP	22 43 45				
	31	PNS	P	23 45 27		0.8	7	
		LPB	eP	23 45 31				

FEBRUARY

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	01	LPB	P	00 26 01.5		1.0	16	
			S	31				
		LPB	iP	00 26 02.7	D			
			iS	32.8				
	01	PNS	eP	00 56 35				
	01	LPB	eP	01 21 48.4				
	01	LPB	P	01 26 10				
	01	USCGS 03 35 14.9, 17.8N, 145.9E, h = 115 km., m = 5.1 MARIANA IS						
		PNS	ePKP	03 54 43.4				
		LPB	PKP	03 54 46.7		1.0	24	148
	01	LPB	eP	05 39 30				
		PNS	P	05 39 33.8		0.8	17	
	01	LPB	P	07 32 09				
	01	USCGS 07 41 22.8, 9.2N, 126.4E, m = 5.5 MINDANAO, PHILIPPINE IS						
		LPB	ePKP	08 01 27				164
	01	PNS	eP	12 27 51.2				
		LPB	eP	12 27 59.6				
	01	PNS	P	13 14 29.1		0.8	4	
	01	PNS	P	15 07 43.9		0.4	3	
	01	PNS	eP	16 19 33.0				
	01	USCGS 16 19 133.3, 4.9N, 128.1E, m = 5.2 NORTH OF HALMAHERA						
		LPB	ePKP	16 39 04.4				159
			eS	57.5				
		PNS	ePKP	16 39 13.9				
	01	PNS	P	16 45 49.7				
	01	USCGS 16 53 48.8, 3.8N, 128.0E, m = 4.8 NORTH OF HALMAHERA						
		PNS	ePKP	17 13 51				
	01	PNS	P	18 41 22		0.6	4	
	01	LPB	eP	19 21 13.4				
			eS	22 20.5				
		PNS	P	19 21 17.2				
			S	22 24.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	01	USCGS 20 03 26.8, 7.2N, 34.0W, m = 4.8 CENTRAL MID-ATLANTIC RIDGE						
		LPB	P	20 11 11				44
		PNS	P	20 11 12.4				
	01	PNS	P	22 24 03.2				
		LPB	eP	22 24 14				
	01	LPB	eP	22 41 40				
		PNS	eP	22 41 49.8				
	01	LPB	eP	23 59 47.7				
		PNS	P	23 59 54.2				
	02	PNS	eP	00 38 09				
		LPB	eP	00 38 09.2				
	02	LPB	eP	01 48 10				
		PNS	eP	01 48 12.6				
	02	USCGS 01 38 44.2, 3.9N, 128.2E, m = 5.4 NORTH OF HALMAHERA						
		PNS	PKP	01 58 43.6				159
		LPB	PKP	01 58 45.4				
	02	LPB	eP	02 02 17.3				
			e	03 13				
		PNS	eP	02 02 16.1				
			e	03 00				
	02	USCGS 02 07 01.0, 4.0N, 128.3E, m = 5.3 NORTH OF HALMAHERA						
		PNS	ePKP	02 27 01				
			e	40				
		LPB	ePKP	02 27 02				159
			e	40.2				
	02	USCGS 02 34 10.5, 4.1N, 1283E, m = 5.2 NORTH OF HALMAHERA						
		PNS	ePKP	02 54 12				
	02	LPB	eP	02 59 16				
	02	LPB	eP	03 29 16.5				
	02	LPB	eP	03 52 47.6				
	02	LPB	e(P)	04 51 32.4				
	02	LPB	P	05 21 34.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	28	USCGS 02 40 32.5, 36.0N, 10.6W, h = 22 km., m = 7.3 NORTH ATLANTIC OCEAN						
		LPB	iP	02 52 16.6	C	1.5	2420	76
		PNS	P	02 52 17.6				
	28	LPB	eP	03 19 31				
	28	LPB	P	03 42 31.7				
	28	USCGS 04 25 36.9, 36.2N, 10.5W, m = 5.7 NORTH ATLANTIC OCEAN						
		LPB	P	04 37 19.5		1.5	38	76
		PNS	P	04 37 21.8				
	28	LPB	P	04 54 38		1.0	70	
			eS	55 21.5				
		PNS	eP	04 54 40				
	28	PNS	P	05 07 21.7				
		LPB	eP	05 07 22				
	28	PNS	P	05 33 10				
			S	32.6				
	28	PNS	P	07 13 01.2				
			eS	23.6				
		LPB	eP	07 13 02				
			eS	25.5				
	28	PNS	P	11 23 56				
			S	24 18.1				
	28	PNS	P	12 36 53.4		0.3	4	
			S	37 15.7				
	28	PNS	eP	13 31 51.8				
	28	USCGS 13 18 07.4, 3.4S, 119.0E, h = 51 km., m = 5.3 CELEBES						
		LPB	ePKP	13 38 08.6				159
			eL	33.5				
		PNS	ePKP	13 38 08.7				
	28	LPB	eP	16 40 52.6				
	28	USCGS 15 20 38.6, 35.9N, 10.7W, h = 27 km., m = 4.2 NORTH ATLANTIC OCEAN						
		PNS	eP	15 32 19				
	28	LPB	eP	22 55 24				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	01	LPB	eP	02 56 08.4				
	01	LPB	eP	03 18 20				
	01	LPB	P	03 55 55				
			S	56 19.4				
	01	LPB	e(P)	05 51 26.5				
	01	LPB	iP	08 17 25.5		0.8	150	
			S	52.8				
	01	LPB	eP	09 01 15.5				
	01	LPB	eP	12 17 42.5				
	01	PNS	P	16 38 51.8				
		LPB	eP	16 38 54.6				
	01	USCGS 23 55 15.7, 16.9S, 69.9W, h = 147 km., m = 4.3 PERU-BOLIVIA BORDER REG						
		PNS	P	23 55 46.4				
			iS	56 11				
		LPB	P	23 55 48		1.0	134	
			iS	56 14				
	02	LPB	eP	01 24 10				
	02	LPB	P	02 07 58				
	02	LPB	eP	02 19 58.5				
	02	LPB	eP	02 47 48.5				
			e	48 11.5				
	02	LPB	eP	03 27 04				
	02	USCGS 04 47 37.3, 4.5N, 128.1E, h = 138 km., m = 5.3 HALMAHERA						158
		LPB	ePKP	05 07 22.5				
			PPKP	56.5				
		PNS	ePKP	05 07 23				
			PPKP	56.4				
			eL	06 02.4				
	02	LPB	eL	07 27				
	02	LPB	eP	10 38 26.7				
		PNS	P	10 38 30.8				
	02	PNS	P	11 47 11				
			S	35.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	03	USCGS 07 51 25.4, 25.8S, 178.1E, m = 629 km., m = 5.3 SOUTH OF FIJI IS						
		PNS	eP	08 04 24				
			PP	08 11.8				
		LPB	eP	08 04 27				103
			e	08 38				
	03	USCGS 08 13 44.2, 25.6S, 178.1E, h = 610 km., m = 4.9 SOUTH OF FIJI IS						
		PNS	eP	08 26 42				
	03	USCGS 08 18 14.7, 25.7S, 178.3E, h = 654 km., m = 5.3 SOUTH FIJI IS						
		LPB	eP	08 31 07.5				
		PNS	eP	08 31 10.4				103
	03	USCGS 08 57 06.8, 49.4N, 155.6E, m = 5.4 KURILE IS						
		LPB	ePKP	09 15 16				132
		PNS	ePKP	09 16 16				
	03	LPB	P	09 30 02.5		0.5	21	
	03	PNS	eP	10 05 58.4				
		LPB	eP	10 05 59				
	03	PNS	eP	12 30 29.3				
		LPB	eP	12 30 23				
	03	PNS	P	14 35 26				
			S	48				
	03	PNS	eP	16 16 11.6				
	03	PNS	P	16 37 24.1		0.6	3	
	03	PNS	P	16 42 28				
	03	USCGS 17 11 51.4, 4.3N, 128.5E, m = 5.4 NORTH OF HALMAHERA						
		LPB	ePKP	17 31 40.2				159
			e	32 37.5				
		PNS	ePKP	17 31 47.6				
	03	PNS	eP	18 23 20		0.8	7	
	03	USCGS 19 01 29.4, 4.4N, 128.1E, m = 52 NORTH OF HALMAHERA						
		LPB	PKP	19 21 30.2				159
			e	22 13.5				
		PNS	ePKP	19 21 30.8				
			e	22 10.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	03	LPB	eP	19 46 26				
		PNS	P	19 46 28.5				
	03	USCGS 19 31 04.1, 4.4N, 128.2E, m = 5.0 NORTH HALMAHERA						
		PNS	ePKP	19 51 14.6				
	03	USCGS 21 38 33.5, 5.7S, 77.1W, h = 40 km., m = 4.9 NORTHERN PERU						
		PNS	P	21 40 43.3				13
		LPB	P	21 40 50				
			e	45 27				
	03	USCGS 21 41 41.9, 4.9N, 127.4E, m = 6.1 TALAUD IS						
		LPB	PKP	22 01 41.5		1.4	180	160
			SS	22 30				
			eL	58				
		PNS	PKP	22 01 42.4				
			eSS	26 34				
			eL	58				
	04	LPB	eP	01 37 32				
		PNS	eP	01 37 34.8				
	04	USCGS 01 38 26.2,0.6S, 121.7E, m = 4.8 NORTHERN CELEBES						
		NOR						
		PNS	PKP	01 58 25				
			PP	02 02 50				161
		LPB	PKP	01 58 27				
			ePP	02 02 51				
			e(G)	46				
			eL	57				
	04	LPB	eP	02 24 27				
	04			03 49 26.4				
	04	USCGS 04 10 13.3, 8.2S, 80.2W, h = 16 km., m = 6.0 OFF COAST NORTHERN PERU						
		PNS	P	04 13 32				
			S	16 21				
			L	17				13
		LPB	P	04 13 38				
			S	16 28				
			eL	17.4				
	04	PNS	P	10 06 43.1				
			S	07 12.2				
		LPB	eP	10 06 45				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	04	LPB	eP	10 23 48				
			S	24 23				
		PNS	P	10 23 51.5				
	04	PNS	P	11 06 26				
	04	LPB	eP	11 08 30				
	04	PNS	eP	12 21 08				
	04	PNS	eP	12 32 53.2				
	04	LPB	eP	14 55 24				
		PNS	P	14 55 25.9				
			eS	50.8				
	04	LPB	eP	18 59 18				
	04	LPB	eP	22 27 23.4				
	05	USCGS 01 50 36.9, 15.8S, 73.0W, h = 113 km., m = 4.4 SOUTHERN PERU						
		PNS	P	01 51 42.6				
		LPB	P	01 51 47.7				4
			e	52 40				
			L	02 06				
	05	LPB	P	02 25 47.5				
	05	LPB	P	02 54 13.5		0.8	17	
	05	LPB	eP	03 00 07.5				
	05	LPB	eP	03 10 06				
	05	LPB	e(P)	03 26 01				
	05	LPB	eP	04 05 41				
	05	LPB	eP	04 13 27				
	05	LPB	eP	05 35 08				
	05	LPB	P	06 41 24				
	05	LPB	(P)	06 58 00				
	05	PNS	eP	07 25 32				
		LPB	P	07 25 36				
			eS	26 27.3				
	05	LPB	eP	07 56 45.3				
	05	LPB	P	07 39 52.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	05	LPB	eP	07 37 48.2				
	05	LPB	P	08 22 31.6		1.0	28	
	05	PNS	eP	08 39 19.6				
		LPB	eP	08 39 22				
	05	LPB	e(P)	09 20 34.2				
	05	PNS	P	09 44 25				
	05	LPB	eP	10 10 20				
	05	LPB	eP	10 33 58.6				
	05	LPB	eP	15 25 19.5				
	05	USCGS 23 45 31.4, 0.7N, 29.7W, m = 4.9 CENTRAL MID-ATLANTIC RIDGE						
		LPB	P	23 53 10		1.7	225	42
			eL	00 05				
	06	LPB	P	00 34 43				
	06	LPB	e(P)	00 41 11.5				
	06	LPB	eP	01 50 31				
	06	LPB	eP	02 21 12				
	06	LPB	eP	04 46 10				
			S	47 37.4				
	06	LPB	P	05 09 34.8				
	06	LPB	eP	06 29 56.6				
	06	USCGS 07 33 00.5, 21.8N, 145.7E, h = 56 km., m = 5.2 MARIANA IS REG						
		LPB	P	07 32 40				148
	06	LPB	eP	07 58 14.2				
	06	LPB	(P)	08 03 57.7				
			eL	43				
	06	USCGS 08 35 50.3, 42.4N, 142.4E, m = 5.1 HOKKAIDO, JAPAN REG						
		LPB	eP	08 55 25				143
	06	LPB	eP	09 00 42				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	06	LPB	eP	09 10 10				
	06	LPB	eP	09 13 17				
	06	LPB	eP	09 44 24				
	06	USCGS 14 36 41.2, 5.8S, 78.4W, m = 4.2 NORTHERN PERU						
		LPB	eP	14 40 09				14
			eL	46				
	07	LPB	eP	00 28 03				
	07	LPB	P	00 41 36.7				
	07	LPB	eP	02 38 02				
	07	LPB	eP	05 51 44.5				
	07	LPB	P	05 55 35.7				
	07	LPB	P	07 21'51				
	07	LPB	P	08 17 41.8				
	07	LPB	eP	11 16 16				
	07	LPB	eP	18 08 28.5				
	07	LPB	P	22 29 09.2		0.8	22	
	08	LPB	P	00 48 27.2				
	08	LPB	eP	01 07 04.6				
	08	LPB	e(P)	05 15 25.3				
	08	LPB	P	05 25 04.2		1.0	12	
	08	LPB	P	05 41 25		1.0	22	
	08	LPB	P	07 16 31.7				
	08	LPB	eP	07 41 57				
	08	USCGS 07 40 07.2, 6.9N, 73.1W, h = 157 km., m = 4.1 NORHTERN COLOMBIA						
		LPB	P	07 44 06		1.0	18	23
	08	LPB	eP	07 49 01.2				
	08	LPB	eP	09 12 43				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	08	LPB	eP	11 00 20.5				
	09	LPB	eP	18 52 04				
	09	LPB	eP	22 08 13.4				
			eL	13				
	10	LPB	eP	01 03 49.4				
	10	LPB	P	03 19 07.8		0.8	12	
	10	LPB	P	04 10 50		0.7	19	
	10	LPB	P	05 03 10.4		0.7	9	
	10	LPB	eP	05 35 36.4				
	10	LPB	eP	06 41 16.2				
	10	USCGS 07 16 12.9, 2.1N, 96.8E, m = 5.4 NORTHERN SUMATRA						
		LPB	ePKP	07 36 10				159
	10	LPB	P	07 57 15		0.7	28	
	10	LPB	eP	08 04 53				
			eL	38				
	10	LPB	eP	10 00 35		1.0	34	
	10	LPB	iP	11 02 05.0		0.9	85	
	10	LPB	eP	11 22 24				
	10	USCGS 14 09 17.4, 3.7N, 128.2E, h = 78 km., m = 5.0 NORTH OF HALMAHERA						
		LPB	eL	15 25				159
	10	LPB	P	23 03 07.7		1.0	20	
	10	USCGS 22 58 05.8, 22.7S, 178.6E, h = 673 km., m = 6.0 SOUTH OF FIJI IS						
		PNS	eP	23 11 00				
			i	13 26				
			PP	15 22				
			eL	47.2				
		LPB	P	23 11 10.5				102
			i	13 30.5				
			PP	15 23				
			e	20 37				
			eL	48				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	10	LPB	iP	23 44 10.7	D	0.9	119	
	10	LPB	eP	23 52 50.4				
			i	55.8				
	11	LPB	eP	00 27 42.5		0.9	13	
	11	LPB	eP	00 30 25.4				
			S	31 53				
	11	LPB	eP	01 27 28.2				
	11	LPB	P	01 46 27.4		1.0	18	
	11	LPB	eP	03 52 47.7				
	11	LPB	eP	03 58 53.6		0.7	6	
	11	LPB	eP	04 49 51		0.9	6	
	11	LPB	P	05 03 56.7		0.9	11	
	11	LPB	P	05 32 16.3		0.9	23	
	11	LPB	eP	06 00 28				
	11	LPB	eP	06 09 07.5				
			i	10.7				
	11	LPB	eP	06 23 27.5				
	11	LPB	P	06 36 43.3	D	0.9	47	
	11	LPB	eP	06 49 53.2				
	11	LPB	eP	06 57 53		1.2	15	
	11	LPB	P	07 28 29.6		0.4	59	
			S	41.2				
	11	LPB	eP	08 10 41.2				
	11	LPB	eP	08 55 03.5				
			S	58 54				
	11	LPB	P	10 08 57.3		1.0	30	
	11	LPB	P	10 21 21.7		0.8	34	
	11	LPB	P	10 49 25				
	11	LPB	P	11 46 17.7				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	11	USCGS 22 08 54.7, 41.4N, 79.2E, m = 5.8 KIRGIZ-SINKIAN BOR REG						
		LPB	PKP	22 28 26.8				142.
			i	33.7				
			eL	09				
		PNS	ePKP	22 28 29				
			eL	23 08.4				
	11	USCGS 22 16 13.5, 6.7S, 126.8E, m = 450 km., m = 6.0 BANDA SEA						
		LPB	PKP	22 35 14.6		1.6	390	153
			eL	28.8				
		PNS	ePKP	22 35 18				
	11	LPB	P	23 47 03.7				
	12	LPB	P	02 24 48		1.0	8	
	12	LPB	P	03 21 12.5		0.7	56	
	12	LPB	eP	03 28 39.3		0.8	7	
	12	LPB	eP	03 34 56.6				
	12	LPB	eP	04 11 28.3				
	12	LPB	P	07 55 48.3		1.0	10	
	12	LPB	eP	08 12 27.6				
	12	LPB	eP	08 48 19				
	12	LPB	P	13 48 49.5		0.8	22	
			eL	14 07.8				
	12	LPB	P	16 56 04.8		1.0	20	
			S	30.2				
		PNS	eP	16 55 59.6				
			i	56 04.2				
	12	LPB	P	22 56 52.8				
	12	PNS	P	23 55 22.6				
		LPB	P	23 55 28		1.0	20	
	13	LPB	eP	03 02 28				
		PNS	eP	03 02 31.8				
	13	LPB	P	03 11 20.7				
	13	LPB	eP	04 39 16.7				
	13	LPB	eP	05 32 27.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	13	LPB	P	06 21 41.2		0.7	16	
			S	22 08				
		PNS	P	06 21 41.8				
			iS	22 10				
	13	LPB	P	06 30 07.2		0.6	6	
	13	LPB	P	08 21 51.4		1.0	10	
	13	USCGS 10 22 31.1, 5.0, 126.9E, m = 4.2 MINDANAO, PHILIPPINE IS						
		PNS	ePKP	10 42 38.4				
		LPB	ePKP	10 42 39.5		1.1	150	161
			i	44 34.7				
			eL	11 39.6				
	13	PNS	P	16 38 30.6		0.5	6	
		LPB	P	16 38 35.7		1.0	24	
	13	PNS	eP	16 39 02.6				
		LPB	P	16 39 04.2		0.7	11	
	13	LPB	P	20 49 27.4		0.9	136	
		PNS	P	20 49 28.4				
	13	LPB	eP	23 25 02				
		PNS	eP	23 25 06.4				
	14	LPB	P	00 29 11.4				
	14	USCGS 00 40 31.3, 8.3S, 80.1W, h = 22 km., m = 4.8 OFF COAST OF NORTHERN PERU						
		PNS	P	00 43 52				
		LPB	P	00 43 56.4		1.0	20	14
			eL	48				
	14	LPB	eP	02 24 54.7				
		PNS	eP	02 25 02.2				
	14	LPB	P	03 02 11.7		0.9	10	
			eL	50.6				
	14	LPB	eP	03 34 15				
			e	35				
	14	LPB	eP	03 56 53		0.9	6	
	14	LPB	eP	04 32 56				
	14	LPB	eP	05 44 21				
		PNS	eP	05 44 22				
	14	LPB	eP	06 01 59.6				
	14	LPB	eP	06 59 06.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	14	LPB	eP	07 20 38.5				
		PNS	eP	07 20 41.2				
	14	LPB	P	07 25 39.2				
	14	LPB	eP	08 18 20				
			S	19 39.5				
	14	LPB	P	08 45 47.4		0.8	7	
	14	USCGS 09 33 09.6, 6.0N, 76.6W, h = 15 km., m = 4.0 NORTHERN COLOMBIA						
		LPB	P	09 38 19.2				23
		PNS	eP	09 38 25.4				
	14	LPB	P	09 43 34				
		PNS	eP	09 43 39.5				
	14	USCGS 13 10 36.9, 16.6N, 99.1W, h = 18 km., m = 5.1 NEAR COAST OF GUERRERO, MEXICO						
		PNS	P	13 18 50				
		LPB	P	13 18 52.8		1.2	46	45
			eL	34.8				
	15	LPB	P	02 48 27.5				
	15	PNS	eP	04 45 42.2				
		LPB	eP	04 45 46.6		1.0	18	
			eL	49.3				
	15	LPB	eP	05 31 29.2		1.0	8	
		PNS	eP	05 31 30				
	15	LPB	eP	06 46 35		0.6	11	
	15	LPB	eP	07 27 29.7		0.8	6	
	15	LPB	P	08 10 47.3		0.7	9	
	15	PNS	eP	09 23 20				
	15	LPB	P	10 41 25.2		0.9	10	
		PNS	P	10 41 26.2				
	15	PNS	eP	11 24 11.6				
		LPB	P	11 24 12.6		0.8	27	
			eL	39				
	15	USCGS 13 49 13.6, 13.6S, 167.2E, h = 205 km., m = 5.3 NEW HEBRIDES IS						
		PNS	ePKP	14 07 40				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	15	LPB	P	15 52 39.6		0.7	9	
		PNS	P	15 52 45		0.6	5	
	15	PNS	eP	16 08 12.4				
		LPB	eP	16 08 15				
	15	LPB	eP	16 10 54.5		0.8	15	
	15	PNS	P	16 32 27				
		LPB	eP	16 32 31.5				
	15	PNS	eP	17 10 30				
		LPB	eP	17 10 31				
	15	LPB	P	21 08 27.5				
	15	LPB	e(P)	21 34 12		1.0	14	
	15	PNS	P	21 25 52.2				
			e	26 15.4				
		LPB	eP	21 25 53				
	15	LPB	P	21 44 43.2		0.8	10	
	15	LPB	eP	22 34 07		0.6	8	
	15	LPB	P	23 23 21.2		1.3	34	
			eL	42.6				
	16	LPB	eP	00 23 50				
		PNS	eP	00 23 52.2				
	16	LPB	P	01 12 41.4		0.7	14	
	16	LPB	eP	02 45 26.6		0.8	16	
	16	LPB	P	04 58 18.8		0.7	19	
			S	59 41				
		PNS	P	04 58 23				
			S	59 46.8				
	16	LPB	eP	05 16 18.2		0.9	11	
		PNS	eP	05 16 21				
	16	PNS	P	05 20 14				
		LPB	eP	05 20 19.7		0.8	9	
	16	LPB	P	06 29 28		1.0	20	
	16	LPB	P	07 42 56.4		1.0	8	
	16	PNS	eP	07 53 41.4				
		LPB	eP	07 53 46.2		1.0	16	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	16	LPB	P	07 05 38.2		0.8	12	
	16	PNS	eP	08 05 33.8				
		LPB	eP	08 05 38				
	16	LPB	P	07 05 38.2		0.8	12	
	16	LPB	eP	09 37 01		0.9	8	
		PNS	eP	09 37 06.4				
	16	LPB	eP	09 43 51.2		1.2	32	
		PNS	eP	09 43 52.4				
	16	PNS	eP	09 59 29.6				
		LPB	eP	09 59 35		0.9	17	
			S	10 00 31				
	16	LPB	eP	10 45 08.6		1.0	20	
	16	LPB	P	10 51 01.8		0.7	42	
	16	LPB	eP	11 00 48		1.0	18	
		PNS	eP	11 00 50				
	16	PNS	iP	11 43 27.2				
		LPB	iP	11 43 29		0.8	160	
			S	11 43 56				
	16	PNS	eP	12 57 53				
		LPB	e(P)	12 57 55				
	16	LPB	eP	13 00 56				
		PNS	eP	13 00 56				
	16	LPB	P	13 53 58.8		0.9	25	
			eS	54 13				
		PNS	P	13 53 56.2				
	16	PNS	iP	14 54 11				
		LPB	P	14 54 15.7		1.0	20	
	16	LPB	eP	15 30 46.5				
		PNS	eP	15 30 50				
	16	LPB	P	15 40 25				
		PNS	eP	15 40 30				
	16	LPB	P	16 09 42.2		0.8	15	
	16	PNS	eP	19 52 10				
	16	LPB	P	22 15 29.5		1.0	50	
	16	LPB	PKP	23 14 31		1.0	30	
			eL	51				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	17	LPB	P	00 32 38.2		1.0	30	
	17	USCGS 00 42 59.2, 3.8N, 128.4E, h = 14 km., m = 5.6						
		NORTH OF HALMAHERA						
		LPB	ePKP	01 03 01.8		2.2	216	159
			SS	27 28				
			L	54				
		PNS	PKP	01 03 04.8				
	17	USCGS 01 11 48.7, 8.0S, 80.1W, m = 4.4						
		OFF COAST NORTHERN PERU						
		PNS	eP	01 15 10				
		LPB	P	01 15 15.6		1.0	22	14
	17	USCGS 01 15 55.1, 3.9N, 128.6E, h = 88 km., m = 5.4						
		NORTH OF HALMAHERA						
		LPB	P	01 35 49.7		1.2	21	159
		PNS	eP	01 35 50				
	17	USCGS 01 38 33.7, 3.6N, 128.1E, m = 5.3						
		NORTH OF HALMAHERA						
		LPB	ePKP	01 58 28.5				159
		PNS	ePKP	01 58 31.8				
	17	USCGS 02 35 11.0, 3.7N, 128.9E, h = 33 km., m = 4.9						
		NORTH OF HALMAHERA						
		LPB	eP	02 56 04		1.0	12	159
	17	PNS	eP	03 00 40				
			i	48.6				
		LPB	eP	03 00 40.2				
			i	47				
	17	PNS	eP	03 06 17.6				
	17	LPB	eP	03 44 10.5				
	17	LPB	eP	04 25 29.5				
			e	52.5				
	17	PNS	P	04 58 47.6				
			eS	59 10				
		LPB	P	04 58 49.2		0.7	25	
			eS	59 13.7				
	17	LPB	eP	06 27 52.4				
	17	USCGS 06 27 14.1, 3.4N, 128.6E, h = 72 km., m = 4.7						
		NORTH OF HALMAHERA						
		LPB	ePKP	06 47 08				159

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	17	LPB	eP	07 07 55.6				
	17	LPB	eP	07 24 57.4		1.0	34	
	17	USCGS 07 29 07.3, 37.5N, 140.7E, h = 80 km., m = 4.8 HONSHU, JAPAN						
		PNS	PKP	07 48 41.2				
		LPB	PKP	07 48 43.4		0.8	27	147
	17	LPB	P	08 06 53.7		1.0	12	
	17	LPB	eP	08 22 26.7				
	17	LPB	eP	09 10 09				
		PNS	eP	09 10 10				
	17	PNS	eP	09 50 02				
		LPB	P	09 50 04		0.9	12	
	17	PNS	eP	14 02 19.2				
		LPB	e(P)	14 02 21				
	17	LPB	eP	14 47 16				
		PNS	eP	14 47 16.8				
	17	LPB	eP	15 31 51				
	17	LPB	eP	16 27 50				
		PNS	eP	16 27 52.6				
	17	LPB	P	18 00 39.5		1.3	41	
	17	LPB	eP	20 40 37.5		0.9	25	
	17	USCGS 20 48 03.4, 31.4S, 68.5W, h = 115 km., m = 4.2 SAN JUAN, PROV. ARGENTINA						
		LPB	P	20 51 27.5		0.8	22	15
		PNS	P	20 51 32.1				
	17	LPB	P	21 25 19.6		1.0	14	
	17	LPB	P	21 56 30.7		1.0	20	
	17	LPB	eP	22 02 30.5		0.8	22	
	18	USCGS 01 56 39.0, 29.8N, 113.3W, m = 4.8 GULF OF CALIFORNIA						
		LPB	eP	02 07 23				63
			eL	25				
	18	LPB	eP	03 59 38.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	18	LPB	P	04 13 56.2		0.8	7	
	18	USCGS 05 14 55.9, 24.0S, 176.7W, h = 99 km., m = 5.4 SOUTH OF FIJI IS						
		LPB	eP	05 28 38				99
			eL	01.5				
	18	LPB	eP	06 04 55.2				
	18	LPB	P	07 25 20		1.0	12	
	18	PNS	eP	08 52 57.2				
		LPB	P	08 53 01.8		0.9	8	
	18	LPB	eP	09 04 28.3				
	18	LPB	P	09 50 13		0.5	14	
	18	LPB	eP	12 00 26.5		0.8	12	
		PNS	eP	12 00 30				
	18	USCGS 12 53 11.2, 31.4S, 67.4W, h = 69 km., m = 4.3 SAN JUAN, PROV. ARGENTINA						
		LPB	P	12 56 43.5		1.0	40	15
			eL	13 02				
		PNS	P	12 56 43.6				
	18	USCGS 12 59 44.8, 0.9N, 25.0W, m = 4.8 CENTRAL MID-ATLANTIC RIDGE						
		LPB	P	13 07 45.6		1.0	40	43
			eL	21				
		PNS	eP	13 07 48				
	18	PNS	eP	13 26 17.8				
		LPB	eP	13 26 24				
	18	LPB	eP	13 45 32		0.8	15	
		PNS	eP	13 45 37.4				
	18	LPB	eP	14 37 14				
	18	LPB	P	16 14 55		0.8	12	
	18	LPB	eP	16 25 12				
		PNS	eP	16 25 17				
	18	LPB	P	16 44 10.5		0.6	21	
			S	32				
	18	PNS	eP	16 47 32				
		LPB	P	16 47 36.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	18	USCGS 12 38 38.0, 0.8N, 27.9W, m = 4.7 CENTRAL MID-ATLANTIC RIDGE						
		LPB	P	19 46 38.6		0.8	22	44
			e(PP)	48 34				
			S	53 06				
			eSS	56 18				
			eL	59				
		PNS	P	19 46 43.2				
			S	[illegible] 05				
			SS	56 00				
			eL	20 00.3				
	18	LPB	P	19 58 02.2		0.9	85	
		PNS	P	19 58 07				
	18	LPB	eP	21 22 10		0.9	25	
			e	35				
	19	LPB	P	00 13 50.3		0.8	37	
			eS	14 54				
		PNS	P	00 13 54				
			eS	14 58.8				
	19	LPB	eP	01 35 09				
		PNS	eP	01 35 13.2				
	19	PNS	eP	02 38 26.2				
		LPB	eP	02 38 26.3		0.9	8	
	19	LPB	P	04 04 10.4		1.3	38	
			ePP	05 41				
			eL	17				
		PNS	eP	04 04 12				
	19	LPB	eP	04 15 59				
	19	LPB	eP	04 43 10.2				
	19	PNS	eP	08 13 24.8				
		LPB	eP	08 13 29.5				
	19	PNS	P	08 13 48.6				
		LPB	iP	08 13 51.5		0.9	55	
			S	14 22.4				
	19	LPB	P	08 24 10.5		0.8	21	
	19	LPB	P	09 22 23		0.9	15	
			eL	37				
		PNS	P	09 22 25				
	19	LPB	eP	10 59 12.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	19	PNS	P	12 21 05.6				
			S	32.4				
		LPB	P	12 21 06.3				
	19	PNS	P	13 35 21.2				
	19	USCGS 13 47 59.5, 33.3S, 68.9W, h = 159 km., m = 4.5 MENDOZA, PROV. ARGENTINA						
		LPB	P	13 51 45.3		1.0	50	16
		PNS	P	13 51 48.8				
	19	PNS	eP	15 29 26				
	19	PNS	eP	16 12 41.8				
		LPB	eP	16 12 48				
	19	PNS	P	20 02 35		0.6	3	
	19	PNS	eP	21 06 10				
	19	PNS	eP	22 53 04.6				
		LPB	P	22 53 09.8		1.4	45	
	19	USCGS 23 44 12.1, 29.5S, 71.1W, h = 51 km., m = 4.3 NEAR COAST OF CENTRAL CHILE						
		PNS	eP	23 47 21.8				
		LPB	eP	23 47 35.2		0.7	9	13
			eL	51.7				
	20	LPB	eP	02 50 43		0.7	9	
		PNS	eP	02 50 45.4				
	20	LPB	eL	03 45				
	20	LPB	P	05 03 24.5		0.9	10	
	20	PNS	eP	05 08 27.6				
		LPB	eP	05 08 31.2				
	20	LPB	P	05 12 52.7		0.8	12	
			S	13 34.3				
		PNS	P	05 13 00.4				
			S	41.4				
	20	LPB	eP	06 53 49.2		0.9	10	
	20	LPB	eP	07 13 10		0.9	8	
	20	LPB	P	07 46 53		0.8	6	
	20	USCGS 08 38 07.8, 5.5N, 72.1W, h = 259 km., m = 3.8 COLOMBIA						
		LPB	eP	08 43 08				22

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	20	PNS	eP	08 49 30				
		LPB	eP	08 49 34.4		0.8	6	
	20	LPB	eP	08 54 10				
		PNS	eP	08 54 17.2				
	20	LPB	P	09 16 44.5		1.2	77	
			S	17 24.2				
		PNS	P	09 16 48.6				
			S	17 28				
	20	LPB	P	10 12 02		0.7	14	
	20	USCGS 07 55 33.8, 3.5N, 128.2E, h = 33 km., m = 5.7 NORTH OF HALMAHERA						
		LPB	ePKP	10 15 32.5		1.5	55	159
			iPKP2	16 15.2				
			e(PP)	14 50.2				
			SKS	22 23				
			eSS	40 00				
			L	11.7				
		PNS	PKP	10 15 38.2		1.2	16	
			L	11 11.4				
	20	USCGS 10 30 22.1, 3.5N, 128.4E, h = 77 km., m = 6.0 NORTH OF HALMAHERA						
		LPB	PKP	10 50 16.7		2.0	432	159
			iPKP2	55.3				
			(PP)	54 33.4				
			eL	11 46				
		PNS	PKP	10 50 17.8				
	20	USCGS 10 53 21.8, 3.5N, 128.0E, h = 33 km., m = 5.1 NORTH OF HALMAHERA						
		PNS	ePKP	11 13 41				
		LPB	ePKP	11 13 42				159
	20	USCGS 11 04 08.0, 3.5N,128.1E, h = 73 km., m = 4.9 NORTH OF HALMAHERA						
		LPB	ePKP	11 24 05				
		PNS	ePKP	11 24 10				
	20	PNS	P	12 49 53.6		0.4	3	
			S	50 23				
	20	LPB	eP	12 51 21				
		PNS	eP	12 51 22.5				
	20	USCGS 13 29 07.6, 3.6N, 128.1E, h = 83 km., m = 5.5 NORTH OF HALMAHERA						
	LP	LPB	ePKP	13 49 04				159
		PNS	ePKP	13 49 06.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	20	LPB	eP	15 49 29.4				
		PNS	eP	15 49 36.2				
	20	USCGS 15 38 02.4, 3.5N, 128.6E, h = 59 km., m = 5.1 NORTH OF HALMAHERA						
		PNS	ePKP	15 58 07				
		LPB	ePKP	15 58 08				159
	20	PNS	P	16 37 33.9		0.5	3	
	20	USCGS 16 58 13.8, 3.7N, 128.2E, h = 48 km., m = 5.3 NORTH OF HALMAHERA						
		LPB	ePKP	17 17 10				159
			L	13.9				
		PNS	ePKP	17 18 17				
	20	LPB	eP	21 28 10.8				
	20	LPB	eP	23 06 49.5				
		PNS	eP	23 06 53.2				
	20	LPB	P	23 43 52.3				
	21	USCGS 00 52 08.6, 8.9S, 75.4W, h = 135 km., m = 4.4 PERU						
		PNS	eP	00 54 28.3				
		LPB	P	00 54 35.4		1.0	44	10
	21	LPB	eP	03 24 34				
	21	LPB	eP	04 16 11.6				
	21	PNS	P	04 29 52.8		1.0	12	
		LPB	P	04 29 55		1.0	14	
			eL	42.7				
	21	USCGS 06 32 23.5, 62.9S, 60.2W, h = 23 km., m = 5.2 SOUTH SHETLAND IS						
		LPB	P	06 40 52.3		1.0	24	47
		PNS	P	06 40 55.2				
	21	LPB	eP	07 30 47				
		PNS	eP	07 30 53.6				
	21	LPB	eP	08 05 31.8				
	21	PNS	eP	14 55 00				
		LPB	eP	14 55 02				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	21	PNS	P	15 08 28.7				
			S	54.4				
		LPB	eP	15 08 34				
			S	55				
	21	LPB	eP	15 28 39.8				
	21	LPB	eP	15 31 10				
		PNS	P	15 31 13.8				
	21	PNS	P	16 49 06		1.0	8	
		LPB	P	16 49 07		0.7	19	
	21	LPB	eP	20 54 18.5		0.7	8	
		PNS	eP	20 54 22.6				
			i	55 52.8				
	21	USCGS 20 46 27.1, 16.1S, 173.0W, h = 38 km., m = 5.4 TONGA IS						
		LPB	e(PKP)	21 00 05				99
			eL	21 33.5				
	21	LPB	eP	21 51 47				
		PNS	P	21 51 53.2				
			e(S)	52 17				
	21	LPB	eP	22 07 22.2		0.9	17	
	21	LPB	eP	22 58 14.2				
			eL	23 16				
		PNS	eP	22 58 17.4				
	21	LPB	eP	23 43 10.5				
		PNS	P	23 43 17.2		0.8	4	
	22	LPB	eP	00 50 44.5				
	22	USCGS 01 19 21.0, 2.6S, 76.4W, h = 142 km., m = 4.5 PERU-ECUADOR BORDER REG						
		PNS	eP	01 22 55.8				
		LPB	eP	01 23 00				15
	22	LPB	P	01 43 21.7				
			S	51.4				
		PNS	P	01 43 21.8		0.3	3	
			S	59.4				
	22	PNS	P	02 56 41.2		0.6	2	
		LPB	P	02 56 47		0.8	6	
	22	PNS	P	04 04 13.6				
		LPB	eP	04 04 19		0.9	8	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	22	LPB	eP	05 04 09				
	22	LPB	P	05 47 53.5				
		PNS	eP	05 48 01.4				
	22	LPB	eP	06 26 45.5				
	22	LPB	P	07 05 19				
		PNS	eP	07 05 25.3				
	22	PNS	eP	08 02 02.6				
		LPB	eP	08 02 04.5				
			e	12				
	22	USCGS 08 09 23.2, 8.6S, 129.7E, m = 5.1 TIMOR SEA						
		PNS	PKP	08 29 14		1.2	21	
		LPB	PKP	08 29 14.3		1,0	26	149
	22	PNS	eP	09 10 55.6				
		LPB	eP	09 10 59				
	22	PNS	P	09 48 52.2				
			S	49 18.2				
	22	LPB	P	10 54 03				
			S	31				
		PNS	P	10 54 09				
			S	44.2				
	22	PNS	P	16 35 27.8				
	22	PNS	P	16 58 39.4				
			S	59 22				
		LPB	P	16 58 43				
	22	LPB	eP	17 39 06.5		0.8	7	
	22	USCGS 17 53 51.4, 3.5N, 128.2E, h = 96 km., m = 5.2 NORTH OF HALMAHERA						
		PNS	ePKP	18 14 07.2				
		LPB	ePKP	18 14 07.5				159
	22	PNS	P	21 40 37.6				
		LPB	eP	21 40 38.7		0.8	7	
			eL	49				
	22	PNS	P	23 03 12.6				
		LPB	eP	23 03 16				
	22	USCGS 22 58 44.0, 6.9S, 124.3E, h = 540 km., m = 5.5 BANDA SEA						
		LPB	ePKP	23 17 33				153
			i	59.8				
			i	19 52.5				
		PNS	e(PKP)	23 17 35				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	23	USCGS 00 36 56.6, 3.1S, 118.9E, h = 13 km., m = 6.1						
		CELEBES						
		LPB	PKP	00 57 00		3.0	155	158
			e(PKS)	01 00 20				
			PP	01 15				
			SS	21 27				
			G	44.2				
			eL	55.8				
		PNS	PKP	00 57 00.8	C			
			eL	55.9				
	23	USCGS 01 13 15.4, 3.3S, 119.1E, m = 5.3						
		CELEBES						
		LPB	ePKP	01 33 17				159
		PNS	ePKP	01 33 19.2				
	23	LPB	eP	02 03 06.8				
		PNS	eP	02 03 10				
	23	USCGS 02 17 01.4, 3.1S, 118.8E, m = 5.4						
		CELEBES						
		LPB	PKP	02 37 02				159
		PNS	PKP	02 37 06.1				
	23	LPB	eP	02 46 37				
	23	USCGS 02 50 54.4, 3.4S, 119.1E, h = 22 km., m = 5.2						
		CELEBES						
		LPB	ePKP	03 11 00				159
			e	30				
		PNS	ePKP	03 11 02.4				
			e	33.6				
	23	LPB	eP	05 06 16.6				
	23	LPB	eP	05 24 10.5		1.1	10	
		PNS	eP	05 24 14.4				
	23	PNS	P	05 31 25.6				
			S	50				
	23	LPB	P	05 39 57.2		1.1	9	
	23	USCGS 06 03 47.0, 3.4S, 119.0E, m = 5.3						
		CELEBES						
		LPB	PKP	06 23 50.7		2.0	75	159
			e	24 25.5				
			eL	07 20.8				
		PNS	PKP	06 23 51.8				
			e	24 28.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	23	LPB	eP	08 23 21.7				
		PNS	eP	08 23 22.2				
	23	LPB	eP	08 28 35.7				
		PNS	eP	08 28 40.9				
	23	LPB	eP	08 41 31.2				
	23	LPB	P	10 20 30.7		0.7	6	
	23	LPB	eP	10 46 39.6		1.2	18	
		PNS	eP	10 46 41.8				
	23	PNS	P	10 49 05.3				
			S	27.2				
	23	PNS	P	12 21 25.8				
			S	50.4				
		LPB	eP	12 21 26		0.9	6	
	23	USCGS 12 41 17.5, 28.7N, 128.1E, h = 111 km., m = 5.1						
		RYUKYU ISLANDS						
		LPB	PKP	13 01 09.2		0.9	8	160
		PNS	ePKP	13 01 12				
	23	USCGS 14 35 29.9, 60.4S, 26.5W, m = 5.0						
		SOUTH SANDWICH IS REG						
		LPB	P	14 44 45.2		1.2	15	53
		PNS	P	14 44 48.4				
	23	PNS	eP	15 58 55.5				
		LPB	eP	15 58 57.7		0.8	9	
			eS	16 02 16				
	23	LPB	eP	17 08 00				
			e	09 49.2				
		PNS	eP	17 07 54				
	23	PNS	P	18 11 51.1				
		LPB	eP	18 11 52		1.4	22	
			eL	24.3				
	23	USCGS 19 05 57.2, 25.0S, 70.6W, h = 73 km., m = 4.4						
		NEAR COAST OF NORTHERN CHILE						
		LPB	eP	19 08 05.5				9
		PNS	eP	19 08 05.6				
	24	USCGS 00 08 45.6, 6.2S, 131.0E, h = 38 km., m = 5.8						
		TANIMBAR IS REG						
		LPB	PKP	00 28 32.2		1.2	24	150
			i	37.2				
			eSS	51 40				
			eL	01 21				
		PNS	PKP	00 28 34.6				
			i	38.8				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	24	USCGS 01 01 10.9, 1.7N, 126.4E, h = 16 km., m = 5.4 MOLUCCA PASSAGE						
		LPB	eP	01 21 12.5		1.2	8	159
	24	LPB	eP	03 55 56				
	24	USCGS 04 18 03.7, 3.2S, 119.0E, m = 5.1 CELEBES						
		LPB	ePKP	04 38 05.5				159
			e	35.5				
			eL	05 33				
		PNS	ePKP	04 38 07.6				
			e	41.8				
	24	PNS	P	04 42 37.6		0.2	2	
			S	43 00				
		LPB	eP	04 42 44				
	24	LPB	eP	06 06 43				
		PNS	e(P)	06 06 46.8				
	24	LPB	eP	07 13 52				
	24	LPB	P	08 02 02.7		1.0	8	
		PNS	P	08 02 03.9				
	24	LPB	eP	08 42 21.7				
		PNS	eP	08 42 25.6				
	24	LPB	P	08 59 03.6		0.9	15	
			S	38.5				
		PNS	P	08 59 04.5				
	24	LPB	eP	09 10 45				
		PNS	eP	09 10 50				
	24	PNS	eP	09 40 47.8				
		LPB	eP	09 40 48				
	24	USCGS 12 51 31.4, 15.6S, 75.8W, m = 4.8 NEAR COAST OF PERU						
		PNS	P	12 53 16.4				
		LPB	P	12 53 21.3				7
			eL	56				
	24	LPB	eP	15 14 00				
		PNS	P	15 14 04.3		0.4	4	
	24	LPB	eP	16 42 45				
	24	LPB	P	17 40 45.6		1.0	44	
			eL	57.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	24	LPB	P	18 13 16.4		0.8	8	
	24	LPB	eP	19 37 29.5				
			i	54.2				
	24	USCGS 20 47 29.7, 6.4S, 130.2E, h = 70 km., m = 5.2 BANDA SEA						
		LPB	ePKP	21 07 20				150
	24	USCGS 22 44 14.0, 6.9N, 72.9W, h = 150 km., m = 5.0 NORTHERN COLOMBIA						
		LPB	P	22 49 14.4		0.9	25	23
			i	48.3				
			(S)	54 13				
	25	LPB	iP	00 42 31.3		0.8	60	
			i	49				
			S	43 08				
	25	USCGS 01 35 03.0, 5.2N, 126.3E, h = 65 km., m = 5.5 MINDANAO, PHILIPPINE IS						
		LPB	ePKP	01 55 02				162
			eSS	02 18 14				
			eL	53.4				
	25	USCGS 02 01 44.0, 15.3N, 87.5W, h = 13 km., m = 4.8 HONDURAS						
		LPB	eP	02 08 55.4		0.9	8	37
	25	LPB	P	03 07 07.4		0.8	10	
	25	LPB	eP	03 30 06				
	25	LPB	e(P)	04 04 52				
	25	LPB	eP	04 29 38				
	25	LPB	P	05 05 21.7		0.9	34	
	25	USCGS 04 55 28.2, 6.1S, 154.7E, h = 70 km., m = 4.9 SALOMON IS						
		LPB	ePKP	05 14 37.3				132
	25	LPB	P	05 42 17.8		0.9	17	
	25	LPB	eP	06 06 26		0.7	11	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	25	LPB	eP	06 56 40				
	25	LPB	eP	07 10 41.5				
	25	LPB	eP	07 27 38				
	25	USCGS 07 39 00.6, 15.2N, 87.5W, h = 15 km., m = 5.4 HONDURAS						
		LPB	P	07 46 11.2		1.0	21	37
			eL	57				
	25	LPB	eP	07 59 31.2		1.0	6	
	25	LPB	eP	08 15 00		1.0	10	
	25	LPB	eP	08 49 13		0.9	22	
	25	LPB	eL	13 06				
	25	LPB	eP	13 14 01				
			eL	30				
	25	USCGS 14 05 59.8, 19.3S, 12.1W, m = 5.3 SOUTH ATLANTIC RIDGE						
		LPB	P	14 15 17.2		1.0	20	53
			eL	30.2				
	25	LPB	eP	15 06 13.5		0.8	16	
	25	LPB	eP	18 18 19.2				
	26	LPB	eP	00 14 25.6		1.1	15	
		PNS	eP	00 19 28.4				
	26	USCGS 01 31 18.1, 4.3N, 122.1E, h = 636 km., m = 5.1 CELEBES SEA						
		LPB	ePKP	01 50 14				164
			e	51 13				
		PNS	PKP	01 50 15.6				
			e	51 13.2				
	26	LPB	P	01 58 40.7		1.0	26	
			S	59 03.6				
		PNS	P	01 58 43.7				
	26	PNS	P	02 29 22.6				
		LPB	eP	02 29 23				
	26	LPB	eP	05 03 15.6		1.8	40	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	26	PNS	P	05 22 54.5				
		LPB	P	05 22 59.5		0.8	9	
	26	LPB	eP	05 44 15		0.5	4	
	26	PNS	eP	06 51 38.4				
		LPB	eP	06 51 44				
	26	PNS	P	07 36 26.4				
			S	56.8				
	26	USCGS 08 20 15.1, 3.6N, 128.5E, h = 99 km., m = 4.8 NORTH OF HALMAHERA						
		LPB	ePKP	08 40 11				159
	26	PNS	eP	09 39 04.6				
		LPB	eP	09 38 59.5				
	26	PNS	eP	10 25 59.4				
		LPB	eP	10 26 02.6				
	26	PNS	eP	12 32 13.4				
		LPB	P	12 32 15				
	26	LPB	eP	12 36 27.5				
	26	USCGS 12 35 47.8, 36.6N, 27.2E, h = 27 km., m = 4.8 DODECANESE ISLANDS						
		LPB	eP	14 49 00				104
		PNS	eP	14 49 06.8				
	26	PNS	P	16 14 53.2				
			S	15 17.2				
		LPB	P	16 14 55.5				
			S	15 21.2				
	26	LPB	eP	16 36 14.2				
	26	LPB	P	19 28 35.6		0.9	18	
			S	29 18.6				
	26	PNS	P	21 10 46.4		1.1	12	
		LPB	eP	21 10 52				
	26	LPB	eP	22 48 39				
	27	USCGS 01 33 16.8, 5.3N, 82.5W, m = 4.0 SOUTH OF PANAMA						
		PNS	P	01 38 44.8				
		LPB	P	01 38 50		1.0	28	25
			eL	46.7				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	27	LPB	P	04 54 36				
		PNS	P	04 54 40				
	27	USCGS 05 09 30.5, 14.0S, 74.3W, h = 111 km., m = 5.2						
		PERU						
		PNS	P	05 11 01.2				
		LPB	P	05 11 07.2		0.9	425	6
			S	12 00				
			eL	12.8				
	27	PNS	P	07 13 53.6				
			S	14 30				
	27	PNS	eP	07 22 54				
	27	PNS	eP	08 09 54				
		LPB	eP	08 09 55.5				
	27	LPB	eP	08 23 46				
	27	PNS	P	09 17 38.4				
			S	18 06.4				
		LPB	eP	09 17 42				
	27	LPB	eP	10 46 58.4		0.8	24	
		PNS	eP	10 47 04.4				
	27	PNS	eP	14 39 23.4				
		LPB	eP	14 39 28.5				
	27	PNS	eP	15 35 12.6				
			i	19				
		LPB	eP	15 35 15				
	27	PNS	eP	17 21 36.2				
	27	PNS	P	20 10 58.4				
	27	LPB	P	22 53 16		1.2	62	
		PNS	P	22 53 17.8				
	28	PNS	eP	00 18 23.2				
			S	47.2				
		LPB	P	00 18 34.1				
			eS	54.5				
	28	LPB	eP	00 21 02				
		PNS	P	00 21 00				
			S	21				
	28	PNS	P	01 26 44.4				
			S	28 10				
		LPB	P	01 26 40.4				
			eS	28 00.2				
	28	PNS	P	02 46 30.3				
			S	53.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
FEB	28	USCGS 02 40 32.5, 36.0N, 10.6W, h = 22 km., m = 7.3						
		NORTH ATLANTIC OCEAN						
		LPB	iP	02 52 16.6	C	1.5	2420	76
		PNS	P	02 52 17.6				
	28	LPB	eP	03 19 31				
	28	LPB	P	03 42 31.7				
	28	USCGS 04 25 36.9, 36.2N, 10.5W, m = 5.7						
		NORTH ATLANTIC OCEAN						
		LPB	P	04 37 19.5		1.5	38	76
		PNS	P	04 37 21.8				
	28	LPB	P	04 54 38		1.0	70	
			eS	55 21.5				
		PNS	eP	04 54 40				
	28	PNS	P	05 07 21.7				
		LPB	eP	05 07 22				
	28	PNS	P	05 33 10				
			S	32.6				
	28	PNS	P	07 13 01.2				
			eS	23.6				
		LPB	eP	07 13 02				
			eS	25.5				
	28	PNS	P	11 23 56				
			S	24 18.1				
	28	PNS	P	12 36 53.4		0.3	4	
			S	37 15.7				
	28	PNS	eP	13 31 51.8				
	28	USCGS 13 18 07.4, 3.4S, 119.0E, h = 51 km., m = 5.3						
		CELEBES						
		LPB	ePKP	13 38 08.6				159
			eL	33.5				
		PNS	ePKP	13 38 08.7				
	28	LPB	eP	16 40 52.6				
	28	USCGS 15 20 38.6, 35.9N, 10.7W, h = 27 km., m = 4.2						
		NORTH ATLANTIC OCEAN						
		PNS	eP	15 32 19				
	28	LPB	eP	22 55 24				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	01	LPB	eP	02 56 08.4				
	01	LPB	eP	03 18 20				
	01	LPB	P	03 55 55				
			S	56 19.4				
	01	LPB	e(P)	05 51 26.5				
	01	LPB	iP	08 17 25.5		0.8	150	
			S	52.8				
	01	LPB	eP	09 01 15.5				
	01	LPB	eP	12 17 42.5				
	01	PNS	P	16 38 51.8				
		LPB	eP	16 38 54.6				
	01	USCGS 23 55 15.7, 16.9S, 69.9W, h = 147 km., m = 4.3						
		PERU-BOLIVIA BORDER REG						
		PNS	P	23 55 46.4				
			iS	56 11				
		LPB	P	23 55 48		1.0	134	
			iS	56 14				
	02	LPB	eP	01 24 10				
	02	LPB	P	02 07 58				
	02	LPB	eP	02 19 58.5				
	02	LPB	eP	02 47 48.5				
			e	48 11.5				
	02	LPB	eP	03 27 04				
	02	USCGS 04 47 37.3, 4.5N, 128.1E, h = 138 km., m = 5.3						
		HALMAHERA						
		LPB	ePKP	05 07 22.5				158
			PPKP	56.5				
		PNS	ePKP	05 07 23				
			PPKP	56.4				
			eL	06 02.4				
	02	LPB	eL	07 27				
	02	LPB	eP	10 38 26.7				
		PNS	P	10 38 30.8				
	02	PNS	P	11 47 11				
			S	35.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	02	USCGS 12 18 12.6, 30.8N, 40.7W, h = 33 km., m = 4.2						
		NORTH ATLANTIC OCEAN						
		LPB	eP	12 27 45				55
		PNS	eP	12 27 46				
	02	USCGS 12 44 12.2, 3.7N, 75.5W, h = 213 km., m = 4.4						
		COLOMBIA						
		PNS	eP	12 48 40.6				
		LPB	P	12 48 44				21
	02	USCGS 13 57 24.6, 3.2S, 118.8E, h = 4.8 km., m = 5.1						
		CELEBES						
		LPB	ePKP	14 17 22				159
			eL	15 14				
		PNS	ePKP	14 17 25				
	02	LPB	eP	14 53 10.2				
		PNS	eP	14 53 12.9				
	02	LPB	eP	15 39 30				
			eS	07				
		PNS	P	15 39 39.6				
			S	40 04.5				
	02	LPB	eP	16 44 02				
		PNS	P	16 44 02.2				
	02	PNS	P	18 46 22.6				
			S	56				
		LPB	eP	18 46 23.5				
	02	PNS	P	18 53 05.3				
			eS	30				
	02	PNS	P	20 42 02.6				
	02	USCGS 22 21 24.9, 12.9N, 120.8E, h = 54 km., m = 5.0						
		MINDORO, PHILIPPINE IS						
		PNS	ePKP	22 41 36				
		LPB	ePKP	22 41 37				171
	02	USCGS 22 23 17.4, 12.9N, 120.8E, h = 80 km., m = 5.0						
		MINDORO, PHILIPPINE IS, FELTON MIDORO AND SOUTHERN LUZON						
		LPB	ePKP	22 43 21				171
		PNS	ePKP	22 43 24.6				
	02	USCGS 22 37 02.4, 12.9N, 120.6E, h = 46 km., m = 4.4						
		MINDORO, PHILIPPINE IS						
		LPB	ePKP	22 57 13				171
		PNS	ePKP	22 57 14				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	03	LPB	ePKP	01 17 12.4				
			eL	55				
		PNS	eP	01 17 18.4				
	03	PNS	P	03 35 12.8				
	03	LPB	P	04 31 45.7				
		PNS	P	04 31 48.8				
	03	LPB	eP	04 45 24				
	03	LPB	eP	05 55 15.7				
		PNS	eP	05 55 18.3				
	03	LPB	eP	06 00 24				
	03	USCGS 06 20 21.8, 30.2N, 79.9E, h = 20 km., m = 5.3 TIBET-INDIA BOR REG						
		LPB	PKP	06 40 06		1.0	10	148
		PNS	PKP	06 40 06.8		1.0	8	
	03	LPB	eP	07 06 24				
		PNS	P	07 06 25				
	03	LPB	eP	08 15 20.2				
		PNS	eP	08 15 22.2				
	03	LPB	(P)	08 23 57.6				
	03	USCGS 08 53 48.4, 10.6N, 125.3E, h = 49 km., m = 5.1 LEYTE, PHILIPPINE IS FELT						
		PNS	PKP	09 13 45.8		1.3	34	
		LPB	PKP	09 13 46		1.2	45	166
	03	LPB	eP	10 02 20				
		PNS	eP	10 02 24.6		0.4	2	
	03	PNS	eP	13 20 21.2				
	03	PNS	iP	13 57 11.7	D			
		LPB	iP	13 57 12		0.7	140	
			iS	37				
	03	LPB	eL	14 27				
	03	PNS	P	14 56 45.6				
			i	55.6				
		LPB	P	14 56 53				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	03	USCGS 14 49 28.0, 51.6N, 159.3E, h = 12 km., m = 53 OFF EAST COAST OF KAMCHATKA						
		PNS	ePKP	15 08 35.6				
		LPB	ePKP	15 08 38				140
			eL	56				
	03	LPB	P	16 33 06.5				
		PNS	P	16 33 08.6				
	03	LPB	e(P)	18 19 22.3				
		PNS	e(P)	18 19 27.2				
	03	LPB	iP	19 07 47				
			iS	08 22				
		PNS	iP	19 07 51				
			S	08 29				
	03	PNS	eP	23 58 06.1	D			
	04	USCGS 01 11 39, 6.3S, 76.7W, h = 203 km., m = 4.5 NORTHERN PERU						
		PNS	eP	00 14 34.6				
		LPB	eP	00 14 35.5				110
			e(L)	19				
	04	PNS	P	01 12 24.4				
		LPB	P	01 12 25				
			eS	13 04.5				
	04	LPB	eP	01 17 08.5				
		PNS	eP	01 17 13.4				
	04	PNS	eP	02 29 33				
		LPB	eP	02 29 39				
	04	PNS	P	02 57 02				
		LPB	eP	02 56 56				
	04	USCGS 02 18 31.7, 57.7S, 25.3W, h = 23 km., m = 5.2 SOUTH SANDWICH ISLANDS REGION						
		LPB	P	03 27 39.5		1.0	14	56
		PNS	P	03 27 42.8				
	04	LPB	eP	03 56 11				
		PNS	P	03 56 17.2				
	04	LPB	eP	04 08 20				
		PNS	eP	04 08 22				
	04	LPB	eP	07 02 11.7				
			e	05 43				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	04	PNS	eP	07 11 55.4				
		LPB	P	07 11 57.2				
	04	PNS	eP	07 14 56.6				
		LPB	eP	07 14 57.6				
	04	PNS	eP	07 18 01.8				
		LPB	eP	07 18 06				
	04	LPB	(P)	07 23 09.4				
	04	LPB	eP	07 24 09.7				
	04	PNS	P	08 55 57				
			i	56 14				
	04	LPB	P	10 15 23				
	04	LPB	eP	14 36 44				
		PNS	P	14 36 47.6	D			
	04	PNS	eP	17 48 02.5				
	04	LPB	P	18 43 15.4				
	04	PNS	P	18 58 12.6				
	04	PNS	eP	19 10 33.6				
	04	PNS	P	19 27 17.4				
		LPB	eP	19 27 23				
	04	PNS	P	20 15 29.4				
			eS	56.2				
	04	USCGS 20 56 31.5, 26.7S, 114.2W, h = 33 km., m = 5.1 EASTER IS REG						
		LPB	P	21 04 43		0.9	17	44
			eL	15.2				
		PNS	eP	21 04 35.3		1.4	7	
			S	11 09				
			SS	14 35				
			L	21 17.6				
	05	PNS	P	00 36 41.5				
	05	USCGS 00 57 50.7, 20.4S, 69.1N, h = 22.3 km., m = 4.1 NORTHERN CHILE						
		LPB	P	00 58 53				4
			eS	31.5				
		PNS	P	00 58 56.4		0.7	10	
			eS	59 32.9				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	05	PNS	eP	01 31 57.2				
	05	USCGS 01 49 53.4, 18.7S, 71.0W, h = 10.5 km., m = 3.8 OFF COAST OF NORTHERN CHILE						
		PNS	P	01 50 46.2				
			S	51 17				
			eL	52.1				
		LPB	P	01 50 46.4				3
	05	USCGS 02 57 33.5, 35.9N, 10.8W, h = 33 km., m = 4.7 NORTH ATLANTIC OCEAN, FELT IN WESTERN MOROCCO						
		PNS	eP	03 09 16				
	05	PNS	eP	04 48 14.8				
		LPB	P	04 48 17.7		0.5	9	
	05	LPB	eP	06 15 42				
	05	LPB	(P)	06 34 01.5				
	05	LPB	P	07 01 54.3				
	05	LPB	P	07 34 52				
		PNS	P	07 34 56.4		0.5	3	
	05	LPB	eP	08 28 31.8				
		PNS	eP	08 28 31.8				
	05	PNS	P	08 34 25				
		LPB	P	08 34 29		0.8	19	
	05	USCGS 08 51 20.6, 9.9N, 125.8E, h = 66 km., m = 5.1 MINDANAO, PHILIPPINES IS						
		PNS	PKP	09 11 22.6				
		LPB	PKP	09 11 22.4		1.0	12	165
	05	USCGS 13 52 04.9, 4.0N, 128.2E, h = 48 km., m = 5.7 NORTH OF HALMAHERA						
		PNS	ePKP	14 12 04.2				
			e	43.8				
		LPB	PKP	14 12 05				164
			e	44				
			eL	15 08				
	05	USCGS 16 11 22, 4.1N, 128.4E, h = 49 km., m = 5.1 NORTH HALMAHERA						
		PNS	ePKP	16 31 12.2				
	05	PNS	eP	17 19 51.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	05	USCGS 19 33 23.0, 36.4N, 70.7E, h = 20.8 km., m = 5.9 HINDU KUSH REGION, FELT AT KABUL, AFGHANISTAN						
		LPB	ePKP	19 52 12				139
			eL	20 41				
		PNS	ePKP	19 52 14.2				
			i	26.4				
			i	55 37.2				
	05	PNS	iP	22 26 03.6	D			
			iS	28.2				
		LPB	eP	22 26 07				
			S	35.2				
	05	USCGS 23 18 59.6, 6.6S, 76.2W, h = 33 km., m = 4.6 NORTHERN PERU						
		PNS	eP	23 21 54.1				
		LPB	eP	23 21 59				12
			i	26 00				
	06	PNS	P	00 03 10.6				
	06	USCGS 00 59 46.2, 18.0N, 147.4E, h = 33 km., m = 4.8 MARIANA IS REG						
		LPB	ePKP	01 19 26.2				147
		PNS	ePKP	01 19 26.6		1.0	14	
	06	USCGS 01 06 01.2, 4.2N, 128.3E, h = 39 km., m = 5.1 NORTH OF HALMAHERA						
		LPB	ePKP	01 26 08.5				159
			e	45				
		PNS	ePKP	01 26 10				
	06	USCGS 01 20 46.7, 4.2N, 128.3E, h = 33 km., m = 5.1 NORTH OF HALMAHERA						
		LPB	ePKP	01 40 49.5				159
			i	41 25.4				
			eL	02 37				
		PNS	ePKP	01 40 49.6				
	06	USCGS 01 46 37.7, 3.9N, 128.2E, h = 82 km., m = 5.0 NORTH OF HALMAHERA						
		LPB	ePKP	02 06 32				159
		PNS	ePKP	02 06 35				
	06	LPB	eP	07 11 15.6				
	06	LPB	P	07 29 35		1.0	22	
			(S)	50.8				
		PNS	P	07 29 42.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	06	LPB	P	08 27 27.6				
	06	PNS	eP	09 01 09				
		LPB	P	09 00 58		0.8	7	
			i	01 18.7				
	06	LPB	P	09 19 27				
			eL	37				
		PNS	eP	09 19 29.4				
			eL	37.1				
	06	LPB	P	10 02 06.5		1.0	30	
		PNS	P	10 02 08		0.8	7	
			eS	55				
	06	PNS	P	16 46 03.4				
	06	PNS	eP	18 51 51.4				
	06	LPB	eP	20 13 55.4				
	07	PNS	P	01 01 54.4				
		LPB	eP	01 01 56				
	07	PNS	eP	01 24 40	D			
			S	25 02.2				
		LPB	eP	01 24 42.4				
	07	LPB	P	02 04 54				
	07	USCGS 01 45 11.1, 3.7N, 128.0E, h = 83 km., m = 4.9 NORTH OF HALMAHERA						
		PNS	ePKP	02 05 12.6				
	07	PNS	eP	02 59 35.6		0.5	2	
			S	03 00 14.6				
		LPB	eP	02 59 39				
	07	PNS	eP	04 36 43.8				
		LPB	eP	04 36 47				
	07	LPB	eP	04 42 24.7				
	07	PNS	eP	05 12 07.4		0.5	2	
	07	PNS	eP	05 39 13				
		LPB	P	05 39 15.9		1.0	10	
	07	USCGS 06 57 50.0, 16.2N, 98.6W, h = 33 km., m = 4.1 NEAR COAST OF GUERRERO, MEXICO						
		LPB	eP	07 06 56				44
		PNS	eP	07 06 57				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	07	USCGS 07 04 02.1, 16.0N, 98.5W, m = 4.0 NEAR COAST OF GUERRERO, MEXICO						
		PNS	eP	07 13 05				
		LPB	eP	07 13 05				44
	07	PNS	P	07 54 40		0.6	8	
			S	55 28.5				
		LPB	P	07 54 46				
			eS	55 37				
	07	PNS	iP	08 09 10.2	D	0.4	10	
		LPB	P	08 09 10.7				
	07	USCGS 08 26 57.5, 49.8N, 78.2E, h = 0 km., m = 5.5 EASTERN KAZAKH SSR						
		LPB	ePKP	08 46 24				142
		PNS	ePKP	08 46 25.1				
	07	PNS	P	08 49 28.8				
			S	50 02.6				
	07	PNS	eP	11 25 15.6				
		LPB	P	11 25 18.8		1.0	20	
	07	PNS	eP	11 34 21.8	C	0.4	14	
		LPB	eP	11 34 23				
	07	USCGS 11 44 41.8, 5.5S, 152.3E, m = 5.1 NEW BRITAIN REG						
		PNS	ePKP	12 04 02.6				
	07	PNS	P	12 15 53.8				
			S	16 15.6				
	07	USCGS 12 22 23.9, 31.8S, 69.6W, h = 125 km., m = 4.2 SAN JUAN PROVINCE, ARGENTINE						
		LPB	eP	12 25 54.6				15
		PNS	P	12 25 58.3		1.2	22	
	07	LPB	e(P)	14 35 06.6				
	07	PNS	P	15 57 47				
		LPB	eP	15 57 51				
	07	PNS	P	16 38 14.8				
	07	LPB	P	21 26 17		0.5	14	
		PNS	P	21 26 19.6				
	07	PNS	P	21 36 50.8				
		LPB	eP	21 36 56				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	07	LPB	eP	23 11 20				
		PNS	eP	23 11 22.2				
	07	USCGS 22 55 31.5, 5.0N, 127.7E, h = 67 km., m = 5.2 PHILIPPINE IS REG						
		LPB	ePKP	23 15 29				160
		PNS	ePKP	23 15 31				
	08	LPB	P	01 18 13.8				
			i	19.5				
		PNS	eP	01 18 28.4				
	08	PNS	eP	01 33 47				
		LPB	eP	01 33 48.5				
	08	PNS	eP	02 10 36.2				
		LPB	eP	02 10 37				
	08	LPB	P	02 19 16				
	08	PNS	P	03 45 58.4				
		LPB	P	03 46 03.5		1.0	40	
	08	PNS	P	07 40 11.1				
		LPB	eP	07 40 12				
	08	PNS	eP	07 49 32.4				
		LPB	eP	07 49 33				
	08	PNS	P	09 17 15.8				
		LPB	P	09 17 21.3				
	08	USCGS 10 20 09.3, 41.2N, 139.6E, h = 169 km., m = 5.7 HOKKAIDO, JAPAN REGION						
		PNS	iPKP	10 39 29	C			
		LPB	iPKP	10 39 30.5		1.0	190	146
	08	PNS	eP	10 50 57				
		LPB	eP	10 50 58.6				
			e(S)	51 51.4				
	08	USCGS 11 49 49.8, 3.8N, 128.2E, h = 54 km., m = 5.0 NORTH OF HALMAHERA						
		PNS	ePKP	12 09 50				
		LPB	ePKP	12 09 53				159
	08	PNS	eP	12 47 20				
			S	46.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	08	USCGS 13 38 05.6, 5.5S, 77.1W, h = 44 km., m = 4.6 NORTHERN PERU						
		PNS	P	13 40 17.8				
			PP	29				
		LPB	eP	13 40 20				14
			PP	33				
	08	PNS	P	16 54 49		0.5	5	
		LPB	eP	16 54 52				
	08	LPB	eP	21 06 17.8				
	08	USCGS 21 06 17, 2.3N, 126.5E, h = 42 km., m = 5.1 MOLUCCA PASSAGE						
		PNS	ePKP	21 26 20				
	08	PNS	eP	21 53 03.1				
	09	LPB	P	01 39 54.5		1.2	46	
		PNS	P	01 39 56.5				
			S	40 43.2				
	09	LPB	eP	03 06 41				
		PNS	eP	03 06 44				
	09	LPB	e(P)	07 08 32				
	09	PNS	eP	07 19 30.6				
		LPB	eP	07 19 33				
	09	PNS	P	08 02 10				
			S	35				
	09	LPB	eP	10 06 53				
			e	07 21.2				
		PNS	eP	10 06 57				
	09	PNS	eP	10 36 38.6				
		LPB	eP	10 36 39.4				
	09	LPB	eP	10 52 17.4				
		PNS	eP	10 52 19				
	09	USCGS 11 35 30.4, 48.1N, 148.3E, h = 388 km., m = 5.1 NORTHWEST OF KURILE IS						
		PNS	P	11 54 09				
		LPB	P	11 54 10				137
	09	LPB	P	13 06 31.4				
			i	07 16.8				
		PNS	iP	13 06 41.4	C			

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	09	USCGS 13 47 58.4, 4.1S, 135.5E, h = 14 km., m = 5.5 WEST NEW GUINEA REG						
		LPB	PKP	14 07 48.5		1.0	14	148
			eL	58				
		PNS	PKP	14 07 48.6		1.0	35	
			SS	30 20				
			L	57.8				
	09	PNS	P	14 23 46.4				
	09	LPB	eP	14 45 19				
		PNS	eP	14 45 23.9				
	09	USCGS 14 26 18.9, 31.2N, 141.6E, m = 5.2 SOUTH OF HONSHU, JAPAN						
		PNS	PKP	14 46 07				
		LPB	PKP	14 46 08.2		0.7	35	149
			e	35.4				
	09	LPB	eP	14 56 15				
		PNS	P	14 56 15.8				
	09	USCGS 14 39 04.8, 4.1S, 135.6E, m = 5.5 WEST NEW GUINEA REG						
		LPB	PKP	14 58 50.5		1.0	40	148
			i	54.2				
		PNS	PKP	14 58 50.2		1.2	35	
			i	54.2				
	09	USCGS 15 53 55.1, 4.2S, 135.5E, m = 4.8 WEST NEW GUINEA REG						
		PNS	PKP	16 13 44.8		0.8	5	
			i	47.4				
		LPB	PKP	16 13 46.9		1.0	30	148
	09	USCGS 16 00 13.8, 4.2S, 135.5E, m = 4.8 WEST NEW GUINEA REG						
		PNS	PKP	16 30 04		1.0	9	
		LPB	PKP	16 20 07.8		1.0	24	148
	09	PNS	eP	16 43 07.4				
		LPB	eP	16 43 03				
	09	LPB	eP	18 15 29.3				
			S	40.7				
	09	LPB	eP	18 47 22				
		PNS	P	18 47 26.6		0.5	6	
	09	LPB	eP	21 26 17.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	09	LPB	P	21 36 57.5				
			S	38 06				
	09	PNS	eP	22 52 14.2		0.8	3	
	10	PNS	P	00 08 36.2		0.4	6	
			S	09 00.6				
		LPB	eP	00 08 37.5				
	10	PNS	P	00 20 34		0.6	3	
	10	PNS	eP	03 58 43				
		LPB	eP	03 58 46				
	10	USCGS 05 35 15.1, 22.8N, 121.0E, h = 37 km., m = 4.8 TAIWAN REG						
		PNS	PKP	05 55 21				
		LPB	PKP	05 55 23				169
	10	USCGS 06 54 17.6, 5.6S, 147.2E, h = 206 km., m = 5.8 EAST NEW GUINEA REG						
		PNS	PKP	07 13 10.8				
			i	14.3				
			eSS	34 12				
		LPB	PKP	07 13 13		1.0	10	139
	10	USCGS 08 15 08.4, 12.3N, 87.5W, h = 62 km., m = 5.3 NEW COAST OF NICARAGUA						
		PNS	P	08 21 48.8				
		LPB	eP	08 21 52.5				34
	10	LPB	P	12 27 13.3		0.8	25	
		PNS	P	12 27 13.4		0.6	6	
	10	PNS	P	15 13 14.2		0.5	7	
			eS	38.8				
	10	PNS	eP	16 30 41.2				
			S	59.3				
	10	PNS	eP	16 51 30.8				
	10	LPB	eP	17 27 55				
		PNS	eP	17 27 56.4		0.8	4	
	10	PNS	P	18 14 16.8		0.5	3	
			S	52.8				
	10	USCGS 19 04 02.9, 36.4N, 71.0E, h = 201 km., m = 5.1 AFGHANISTAN-USSR BORDER REGION, FELT AT KABUL						

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR		PNS	ePKP	19 23 06.6		1.0	7	
		LPB	ePKP	19 23 09				139
	10	PNS	eP	19 26 42.8		0.6	4	
	10	PNS	P	20 01 58.3		0.5	4	
			S	01 28.4				
		LPB	eP	20 01 00				
			S	26.5				
	10	USCGS 21 09 03.6, 41.2S, 88.2W, m = 4.6 WEST CHILE RISE						
		LPB	P	21 15 12.8		1.0	20	30
		PNS	P	21 15 13		0.8	17	
	10	LPB	eP	22 30 21				
		PNS	eP	22 30 21.6				
	11	PNS	iP	01 55 02.2	D			
			iS	25.4				
		LPB	P	01 55 04.7		0.8	12	
			iS	29				
	11	LPB	P	04 11 54				
			S	12 23				
		PNS	P	04 11 54.9				
			S	12 24				
	11	LPB	P	05 52 47				
			e(S)	53 34				
		PNS	eP	05 52 49.2				
	11	PNS	P	06 47 11.8	D	0.6	8	
			eS	39				
		LPB	P	06 47 12				
			eS	38				
	11	PNS	eP	08 39 01.4				
			eS	39				
	11	USCGS 09 32 07.2, 31.2N, 141.7E, h = 42 km., m = 4.2 SOUTH OF HONSHU, JAPAN						
		LPB	ePKP	09 51 55.4				148
		PNS	PKP	09 51 54.8		1.0	17	
	11	PNS	eP	10 04 05.2				
		LPB	eP	10 04 06				
	11	USCGS 10 30 23.8, 8.9S, 124.0E, h = 46 km., m = 5.0 TIMOR						
		PNS	ePKP	10 50 18				
		LPB	ePKP	10 50 18.5				152

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	11	PNS	eP	11 10 31.2				
	11	LPB	eP	11 40 43				
		PNS	eP	11 40 51.6				
	11	PNS	eP	12 33 05				
		LPB	eP	12 33 08				
	11	USCGS 13 06 26.7, 1.5N, 126.3E, h = 38 km., m = 5.2 MOLUCCA PASSAGE						
		PNS	PKP	13 26 27.2				
		LPB	PKP	13 26 29				
	11	PNS	P	15 53 36.1		1.2	16	
		LPB	eP	15 53 36.5				
	11	PNS	eP	16 02 51.2				
			eS	03 36.8				
	11	PNS	eP	16 57 01.8		0.4	2	
	11	USCGS 17 50 16.8, 9.4S, 78.7W, h = 80 km., m = 4.8 NEAR COAST OF NORTHERN PERU						
		LPB	eP	17 53 07				12
			e	57 11.5				
			eL	17.5				
		PNS	eP	17 53 07.4				
			eL	57.2				
	11	PNS	eP	18 28 30.6				
		LPB	eP	18 28 27.5				
	11	LPB	eP	19 40 44				
		PNS	P	19 40 45.8				
			S	41 10				
	11	PNS	eP	19 59 44.4				
		LPB	eP	19 59 46				
	11	PNS	P	20 21 55.8		0.6	6	
	11	PNS	P	21 41 42.1				
			S	42 04				
	12	LPB	eP	01 23 32.7				
			eS	24 00.4				
		PNS	eP	01 23 40				
			S	24 13.8				
	12	LPB	eP	02 09 34.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	12	LPB	P	02 27 36.9				
	12	LPB	eP	05 43 19.4				
	12	PNS	eP	07 08 00		0.8	6	
		LPB	eP	07 08 04				
	12	LPB	eP	07 11 30				
		PNS	eP	07 11 28				
	12	PNS	eP	08 02 18.4				
		LPB	eP	08 02 20				
	12	LPB	eP	09 15 17.7				
			S	16 42.6				
		PNS	eP	09 15 21.2				
			S	16 50				
	12	PNS	eP	11 04 25				
		LPB	eP	11 04 26				
	12	USCGS 13 47 20.2, 31.3N, 141.7E, h = 48 km., m = 4.6 SOUTH OF HONSHU, JAPAN						
		LPB	ePKP	14 07 08				
		PNS	ePKP	14 07 00.8				148
	12	PNS	eP	14 34 23.8				
	12	LPB	eP	15 42 58				
		PNS	eP	15 42 58.3				
	12	PNS	P	16 36 27.2		0.5	4	
		LPB	eP	16 36 31				
	12	PNS	P	17 33 55.8		0.5	6	
			S	34 18				
	12	LPB	eP	18 31 21				
		PNS	eP	18 31 22.5				
	12	USCGS 12 24 01.5, 31.3N, 141.7E, h = 55 km., m = 4.7 SOUTH OF HONSHU, JAPAN						
		PNS	PKP	20 43 43		1.2	9	
		LPB	ePKP	20 43 44				148
	13	LPB	eP	00 20 50				
		PNS	eP	00 20 52				
	13	PNS	P	00 26 20.4				
			S	44.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	13	LPB	eP	04 02 00				
		PNS	eP	04 02 01.8				
	13	LPB	P	05 12 54.5		0.8	22	
			eS	13 05.5				
		PNS	P	05 12 58.7				
			eS	14 13.8				
	13	PNS	eP	07 28 43.2				
	13	LPB	eP	08 03 32				
		PNS	eP	08 03 34.4				
	13	LPB	eP	10 04 20.8				
		PNS	P	10 04 22.6				
	13	PNS	P	12 34 10.4		0.4	13	
			S	34.7				
	13	PNS	P	13 05 59		0.9	11	
	13	PNS	eP	14 09 33.6		0.7	3	
		LPB	eP	14 09 35				
	13	PNS	eP	16 39 36.8				
		LPB	eP	16 39 44				
	13	USCGS 18 43 48.9, 63.5N, 129.0W, m = 4.8 NORTHWEST TERRITORIES, CANADA						
		PNS	eP	18 56 58.6				
	13	PNS	P	20 21 31.6		0.6	4	
		LPB	eP	20 21 35				
	13	USCGS 20 40 12.5, 5.5S, 110.4E, h = 502 km., m = 5.2 JAVA SEA						
		LPB	ePKP	20 59 13.4				157
		PNS	PKP	20 59 15.2		1.5	52	
			i	52.8				
	13	USCGS 22 19 37.2, 8.0S, 80.1W, h = 38 km., m = 5.4 OFF COAST OF NORTHERN PERU						
		PNS	eP	22 22 55.8				
			i	23 02.8				
			S	25 35				
			L	27.3				
		LPB	eP	22 23 01				14
			S	25 44				
			eL	27.6				
	14	PNS	eP	00 59 50.8				
		LPB	eP	00 59 55.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	14	PNS	P	01 45 49.6				
			eS	46 26.6				
		LPB	eP	01 45 52				
	14	LPB	eP	03 57 00				
		PNS	iP	03 57 17.2	D			
			S	39.2				
	14	LPB	(P)	04 02 35				
	14	PNS	eP	04 17 49.6				
	14	PNS	eP	04 19 24.4				
		LPB	eP	04 19 27				
	14	PNS	eP	07 59 15.6				
			S	43.4				
	14	USCGS 08 47 16.3, 12.9N, 86.2W, h = 178 km., m = 5.6 NICARAGUA						
		PNS	iP	08 53 46.2	C			
			iS	58 58.8				
			eL	09 04.8				
		LPB	iP	08 53 49.6		0.9	408	35
			iS	59 03.7				
			eL	03				
	14	PNS	P	11 48 30				
	14	LPB	P	14 40 46.5		0.7	84	
			S	41 46.7				
		PNS	iP	14 40 50.9	C			
	14	PNS	P	15 00 47.6	C	0.5	6	
	14	PNS	iP	15 43 08.2				
			S	31.6				
		LPB	eP	15 43 10				
			S	34.5				
	14	PNS	P	15 59 35.2				
			i	45				
		LPB	eP	15 59 41.5				
	14	PNS	P	16 21 32.4		0.9	10	
			S	22 20				
		LPB	P	16 21 27.6				
			eS	22 13				
	14	PNS	eP	17 21 20				
	14	LPB	eP	17 48 33				
		PNS	eP	17 48 37.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	14	PNS	eP	20 02 27.4				
			S	50				
	14	USCGS 22 02 58.6, 7.0S, 129.7E, h = 116 km., m = 5.3 BANDA SEA						
		LPB	PKP	22 22 35.5				151
			i	41.4				
		PNS	PKP	22 22 36.2				
			L	41.6				
	14	PNS	iP	22 45 00.6	D			
		LPB	P	22 45 02		0.7	28	
	15	LPB	eP	01 04 04.8				
			eS	39				
		PNS	P	01 04 10.6				
			S	38.4				
	15	LPB	eP	03 34 21				
		PNS	P	03 34 24.6				
			S	49				
	15	PNS	eP	04 01 59				
		LPB	eP	04 02 00				
	15	LPB	P	04 43 28.2				
	15	USCGS 06 20 29.4, 15.0S, 76.2W, m = 4.3 OFF COAST OF PERU						
		PNS	eP	06 22 20				
			eL	25.6				
		LPB	P	05 22 26				7
			eL	06 25				
	15	LPB	P	07 23 22.0				
	15	LPB	eP	09 58 32				
	15	LPB	P	10 36 04.4		0.4	17	
		PNS	eP	10 36 13.2				
	15	USCGS 11 44 42.3, 2.8S, 126.5E, m = 5.6 CERAM SEA						
		LPB	PKP	12 04 38.2		1.0	40	158
			eL	12 59				
		PNS	PKP	12 04 39.4				
	15	USCGS 13 06 28.8, 13.5S, 74.4W, h = 112 km., m = 4.7 PERU						
		PNS	iP	13 08 04	C			
		LPB	P	13 08 09				6

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	15	LPB	eP	13 41 11				
		PNS	P	13 41 11.2				
			S	35.8				
	15	LPB	eP	13 47 29				
	15	USCGS 15 31 59.6, 5.3N, 125.3E, h = 192 km., m = 5.1 MINDANAO, PHILIPPINE IS						
		PNS	PKP	16 50 26.8				
		LPB	ePKP	16 50 27				
	15	LPB	eP	19 12 05				
		PNS	eP	19 12 02.8				
	15	PNS	P	20 47 01	D	0.5	8	
			S	24.2				
	15	PNS	eP	20 55 47.6				
		LPB	eP	20 55 48				
	15	PNS	eP	21 46 06				
			S	46.4				
		LPB	eP	21 46 08				
	16	LPB	eP	03 14 01				
	16	LPB	(P)	04 14 19.2				
	16	USCGS 04 40 43.9, 22.4S, 67.5W, h = 176 km., m = 4.7 CHILE-BOLIVIA REG						
		LPB	iP	04 42 10.5	C	1.0	90	6
			S	43 18				
		PNS	iP	04 42 14	C			
			S	43 21.4				
	16	LPB	P	05 59 44				
		PNS	P	05 59 44.2				
	16	USCGS 08 45 28, 32.4S, 69.7W, h = 140 km., m = 3.6 MENDOZA , PROV. ARGENTINA						
		PNS	eP	08 49 09				
		LPB	eP	08 49 10				15
	16	LPB	eP	10 17 31.5				
	16	LPB	P	14 29 56		1.0	20	
		PNS	P	14 29 57.4		1.0	17	
	16	USCGS 15 54 17.2, 38.5N, 142.7E, h = 40 km., m = 5.4 NEAR EAST COAST OF HONSHU, JAPAN						

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	16	PNS	PKP	16 13 52				
			eL	17 04.7				
		LPB	PKP	16 13 53.1		0.8	120	145
			i	17 15.5				
			L	17 04.5				
	16	USCGS 15 57 39.7, 38.5N, 142.6E, h = 46 km., m = 5.1 NEAR COAST OF HONSHU, JAPAN						
		PNS	PKP	16 17 13.6				
		LPB	PKP	16 17 16		0.8	90	145
			eL	17 04.8				
	16	LPB	eP	18 21 17.5				
		PNS	iP	18 21 17.6	D			
	16	LPB	eP	18 26 41				
			eS	38.5				
		PNS	eP	18 26 43.6				
			S	27 36.8				
	16	LPB	eP	19 24 05				
		PNS	eP	19 24 06.6				
	16	PNS	eP	19 48 36.2				
	16	LPB	eP	21 39 40				
		PNS	eP	21 39 40				
	16	PNS	P	23 38 22.6				
	17	PNS	P	01 54 39.6	D	0.4	9	
			S	55 07				
		LPB	eP	01 54 44				
			eS	55 11				
	17	PNS	P	02 18 49.1				
	17	PNS	eP	02 39 13.4				
	17	LPB	e(P)	02 45 24.4				
	17	PNS	P	03 07 37.8				
		LPB	eP	03 07 52				
	17	LPB	eP	06 58 57.6				
	17	LPB	eP	07 21 45				
			S	51.5				
		PNS	eP	07 21 28.2				
			S	22 01.5				
	17	LPB	P	07 40 47				
		PNS	P	07 40 49.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	17	LPB	P	07 59 14.6		0.7	8	
			S	42.5				
		PNS	P	07 59 19.6				
			S	53.6				
	17	LPB	P	08 28 21.5				
			S	29 39				
		PNS	P	08 28 25.6				
			S	29 46				
	17	PNS	iP	09 20 16.7	D			
			iS	38.4				
		LPB	iP	09 20 19.1				
			S	42.5				
	17	LPB	P	09 51 50.6		0.7	21	
			S	52 19.5				
		PNS	P	09 51 56.4				
			S	52 30.4				
	17	PNS	P	10 41 59.2	C			
			eS	42 31				
		LPB	iP	10 42 02.2		0.9	136	
			S	37.5				
	17	PNS	eP	12 49 40				
	17	LPB	eP	14 14 27				
		PNS	eP	14 14 30				
	17	LPB	e(P)	14 56 09.2				
	17	USCGS 16 31 42.0, 8.4S, 75.2W, m = 4.4 PERU						
		LPB	eP	16 34 16.5				
			eL	38.8				
		PNS	P	16 34 19		0.6	2	
			eL	38.5				
	17	PNS	P	17 18 32.1		0.3	4	
			S	54.6				
	17	PNS	eP	18 09 18				
			S	42				
	17	LPB	P	18 54 47.3				
			S	55 14.6				
		PNS	eP	18 54 47.6	C			
			S	15.4				
	17	PNS	eP	19 43 42.4				
		LPB	eP	19 43 43				
	17	PNS	eP	21 42 50				
		LPB	eP	21 42 52				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	17	LPB	eP	21 46 46.9				
	17	LPB	eP	23 40 15				
	17	PNS	P	23 58 05.7		0.8	14	
		LPB	P	23 58 06				
	18	PNS	P	00 30 33.4	D	0.5	10	
		LPB	P	00 30 34.6				
	18	PNS	eP	02 53 49.8				
	18	PNS	eP	03 47 13.6				
			i	49.7				
		LPB	eP	03 47 21				
			i	48.6				
	18	USCGS 03 32 50.8, 21.4S, 170.9E, m = 5.3 LOYALTY IS REG						
		LPB	ePKP	04 51 32.5				111
			eL	04 25				
	18	USCGS 04 24 16.5, 25.8S, 70.8W, h = 48 km., m = 5.2 NEAR COAST OF NORTHERN CHILE						
		LPB	P	04 26 36				10
			i	44.6				
		PNS	P	04 26 37.9		0.4	11	
	18	LPB	eP	08 26 53.5				
	18	LPB	P	09 07 47.4		0.5	12	
		PNS	P	09 07 51		0.6	15	
	18	PNS	P	09 30 27.7		0.3	4	
			S	50				
	18	LPB	eP	09 54 32				
	18	USCGS 13 47 47.7, 23.8S, 66.8W, h = 225 km., m = 4.4 JUJUY, PROV. ARGENTINA						
		LPB	iP	13 49 34.2	C	0.6	84	7
			eS	50 58				
		PNS	iP	13 49 37.8	C			
			eS	50 55.6				
	18	PNS	eP	15 16 16				
	18	PNS	iP	16 25 44.2	D			
			S	26 09.2				
		LPB	eP	16 25 47				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	18	USCGS 16 16 39.6, 44.1N, 151.0E, h = 44 km., m = 5.7 KURILE IS REG						
		PNS	PKP	16 36 00.8		1.0	20	
			PKS	39 34.5				
		LPB	PKP	16 36 01.8		0.9	42	137
	18	PNS	P	20 22 08.2				
		LPB	eP	20 22 10.5				
	18	USCGS 20 31 27.3, 50.1N, 130.0W, m = 5.0 VANCOUVER IS REG						
		PNS	eP	20 43 57				
		LPB	P	20 44 04				87
			eL	21 13				
	18	USCGS 22 07 48.5, 31.N, 74.6W, h = 104 km., m = 4.4 COLOMBIA						
		LPB	eP	22 12 14				20
		PNS	eP	22 12 16.6				
	18	LPB	eP	22 45 22				
			eL	23 21.3				
		PNS	P	22 45 25				
	19	USCGS 02 20 24.6, 25.1S, 70.6W, h = 49 km., m = 4.0 NEAR COAST OF NORTHERN CHILE						
		PNS	eP	02 22 37				
		LPB	eP	02 22 44.5				9
	19	PNS	P	02 24 56.8				
	19	LPB	eP	02 52 53				
	19	LPB	eP	04 15 44				
		PNS	eP	04 15 46.6				
	19	LPB	eP	07 28 20				
	19	LPB	P	08 08 21				
			iS	59				
		PNS	P	08 08 24.8				
			S	09 05				
	19	PNS	eP	09 01 04.7				
		LPB	eP	09 01 07				
	19	PNS	eP	12 19 37.9				
		LPB	eP	12 19 41.4				
	19	PNS	eP	13 32 10				
			S	33.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	19	USCGS 13 59 22.7, 28.8N, 128.2E, h = 136 km., m = 5.8 RYUKYU ISLANDS						
		PNS	PKP	14 19 10				
			PKP2	50				
		LPB	PKP	14 10 10.5		1.0	30	160
			PKP2	51				
	19	PNS	eP	15 10 15.4				
		LPB	eP	15 10 17				
	19	USCGS 15 35 53.7, 5.8S, 121.5E, h = 636 km., m = 5.4 CELEBES						
		LPB	ePKP	15 54 37.4				156
		PNS	PKP	15 54 40.6				
	19	PNS	eP	16 41 03				
		LPB	eP	16 41 04				
	19	USCGS 18 18 58.9, 44.1N, 151.0E, h = 50 km., m = 4.8 KURILE IS REG						
		PNS	ePKP	18 38 09				
		LPB	ePKP	18 38 15.5				137
	19	USCGS 20 12 41.2, 6.1S, 154.3E, h = 54 km., m = 5.2 SALOMON IS						
		PNS	ePKP	20 31 51.6				
		LPB	ePKP	20 31 52				132
	19	LPB	P	23 57 24				
		PNS	P	23 57 27				
	20	PNS	P	00 45 13.6				
		LPB	eP	00 45 14.5				
	20	LPB	(P)	03 39 33.2				
	20	PNS	eP	04 29 37.4				
		LPB	eP	04 29 37.5				
	20	LPB	P	04 48 33.5	D	0.9	27	
			S	49 49.4				
		PNS	P	04 48 37.4	D			
			S	56.4				
	20	LPB	eP	05 36 21.2				
		PNS	P	05 36 22.4				
	20	LPB	eP	06 38 46.5				
			e(S)	39 09.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	20	PNS	eP	07 40 02.6				
		LPB	eP	07 40 04				
	20	PNS	eP	07 48 49.2				
		LPB	eP	07 48 56.5				
	20	USCGS 08 17 41.9, 31.3N, 114.3W, h = 20 km., m = 5.4 GULF OF CALIFORNIA						
		PNS	eP	08 28 20				
			eS	37 02				
			eL	51.7				
		LPB	P	08 28 22		1.0	16	65
			S	37 04				
			eL	49				
	20	USCGS 08 23 00.8, 31.4N, 114.1W, m = 5.1 GULF OF CALIFORNIA						
		PNS	eP	08 33 37.4				
		LPB	eP	08 33 38				
	20	USCGS 08 58 54, 31.3N, 114.2W, h = 28 km., m = 4.7 GULF OF CALIFORNIA						
		PNS	eP	09 09 31				
		LPB	eP	09 09 32				65
	20	PNS	eP	10 01 42.2				
		LPB	eP	10 01 40.4				
	20	PNS	P	13 50 13.9		0.9	12	
		LPB	eP	13 50 19				
	20	USCGS 15 05 43.2, 32.3S, 71.7W, h = 45 km., m = 4.3 NEAR COAST OF CENTRAL CHILE						
		PNS	eP	15 09 29.6				
		LPB	eP	15 09 32				
	20	LPB	eP	15 59 27.4				
		PNS	P	15 59 34.8				
			S	16 00 05.8				
	20	LPB	eP	16 16 43				
	20	PNS	eP	16 27 37.6				
	20	USCGS 16 18 56.4, 8.7N, 127.3E, m = 6.1 PHILIPPINE IS REG						
		LPB	PKP	16 39 00				163
			ePP	43 30.5				
			L	17 35.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR		PNS	iPKP	16 39 02.1	D			
			PP	43 31.4				
			eSS'	17 04 10				
			L	35.3				
	20	PNS	eP	19 08 43.8				
		LPB	eP	19 08 44				
	20	PNS	P	21 02 44.2	D			
			S	03 06.2				
	20	PNS	eP	21 56 13				
		LPB	eP	21 56 18				
	20	LPB	eP	22 51 21				
		PNS	eP	22 51 26.6				
	20	USCGS 23 38 40.6, 8.8N, 127.3E, m = 5.1 PHILIPPINE IS REG						
		PNS	PKP	23 58 44.2				
		LPB	PKP	23 58 44.5		1.0	17	163
	21	LPB	P	01 55 42				
	21	PNS	P	02 21 48.9	D			
			S	22 11.4				
		LPB	eP	02 21 55.2				
	21	PNS	eP	02 40 47.2				
		LPB	eP	02 40 50				
	21	USCGS 02 39 12.7, 6.1S, 147.4E, h = 90 km., m = 5.4 EAST NEW GUINEA REG						
		PNS	ePKP	02 58 25				
			e	03 02 00				
			eL	03 44.5				
		LPB	ePKP	02 58 32.4		1.0	18	139
			e	03 02 02				
			eL	03 41.5				
	21	PNS	P	03 14 17.4	D			
			iS	41.6				
		LPB	P	03 14 20.3				
	21	USCGS 03 05 11.9, 40.3N, 143.7E, m = 5.3 OFF EAST COAST OF HONSHU, JAPAN						
		PNS	ePKP	03 24 41.2				
		LPB	PKP	03 24 48				144
	21	PNS	eP	03 31 14.2				
		LPB	eP	03 31 17.5				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	21	USCGS 03 53 42.4, 31.2N, 114.3W, m = 5.3 GULF OF CALIFORNIA						
		PNS	P	04 04 20.6				
			eL	25.5				
		LPB	P	04 04 23.2		2.0	108	65
			eL	25				
	21	LPB	eP	04 14 17.2				
		PNS	eP	04 14 20				
	21	USCGS 04 12 26.8, 31.2N, 114.2W, m = 5.0 GULF OF CALIFORNIA						
		LPB	eP	04 22 50				65
		PNS	eP	04 22 55.2				
	21	PNS	eP	04 33 36				
		LPB	e	04 32 49				
			(P)	04 33 34.4				
	21	USCGS 04 26 24, 31.2N, 114.4W, m = 4.9 GULF OF CALIFORNIA						
		PNS	eP	04 36 59.6				
	21	USCGS 04 44 28.8, 31.0N, 114.5W, m = 4.8 GULF OF CALIFORNIA						
		PNS	eP	04 55 08.8				
		LPB	eP	04 55 11.5				
	21	USCGS 04 47 04.4, 31.2N, 114.2W, m = 4.8 GULF OF CALIFORNIA						
		PNS	eP	04 57 38.2				
		LPB	eP	04 57 40				65
	21	USCGS 04 56 20.3, 31.2N, 114.2W, m = 5.4 GULF OF CALIFORNIA						
		LPB	eP	05 06 50.6		1.0	32	65
			eL	05 28				
		PNS	eP	05 06 55.4				
			eL	29				
	21	LPB	eP	05 14 30				
		PNS	eP	05 14 30.4				
	21	USCGS 05 14 23.5, 31.1N, 114.5N, m = 4.7 GULF OF CALIFORNIA						
		LPB	eP	05 25 00				65
		PNS	eP	05 26 58				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	21	USCGS 05 39 56.4, 31.4N, 114.3W, h = 29 km., m = 4.6 GULF OF CALIFORNIA						
		PNS	eP	05 50 36				
		LPB	eP	05 50 36				65
	21	USCGS 05 50 43.8, 31.3N, 114.3W, m = 4.7 GULF OF CALIFORNIA						
		PNS	eP	06 01 20.6				
		LPB	P	06 01 22.6				65
	21	PNS	P	06 04 48.4				
			S	06 05 15.5				
	21	USCGS 05 59 19.2, 31.4N, 114.2W, m = 5.0 GULF OF CALIFORNIA						
		PNS	eP	06 09 43.8				
		LPB	P	06 09 50				65
	21	USCGS 06 05 16.8, 31.3N, 114.0W, h = 19 km., m = 4.9 GULF OF CALIFORNIA						
		PNS	eP	06 15 55				
		LPB	P	06 15 58				65
	21	PNS	P	06 19 26.7	D			
	21	LPB	P	06 43 21.2				
	21	USCGS 06 34 22.2, 31.1N, 114.3W, h = 4 km., m = 5.5 GULF OF CALIFORNIA						
		PNS	eP	06 45 02.8				
		LPB	eP	06 45 05.2				65
			eL	07 06				
	21	PNS	P	07 06 52				
			S	07 16				
		LPB	eP	07 06 57				
			S	07 18.5				
	21	PNS	P	07 29 34.6	D			
	21	USCGS 07 21 11.6, 31.3N, 114.2W, m = 5.1 GULF OF CALIFORNIA						
		PNS	eP	07 31 47.6				
		LPB	eP	07 31 50				65
			eL	53				
	21	USCGS 07 54 11.5, 31.0N, 114.4W, h = 13 km., m = 4.8 GULF OF CALIFORNIA						
		LPB	eP	08 04 48				65
		PNS	eP	08 04 49				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	21	USCGS 08 38 52.7, 31.1N, 114.2W, m = 4.8 GULF OF CALIFORNIA						
		LPB	eP	08 49 30				65
		PNS	eP	08 49 30				
	21	USCGS 08 56 15.8, 31.2N, 114.2W, m = 4.9 GULF OF CALIFORNIA						
		PNS	eP	09 06 54				
	21	USCGS 10 10 10.7, 31.2N, 114.3W, h = 5 km., m = 5.4 GULF OF CALIFORNIA						
		PNS	eP	10 20 51.8				
		LPB	eP	10 20 52.5				65
	21	USCGS 10 23 53.0, 8.5N, 127.3E, m = 5.2 PHILIPPINE IS REG						
		LPB	ePKP	10 43 56				163
		PNS	ePKP	10 43 57				
	21	PNS	eP	11 18 02.4				
		LPB	eP	11 18 09.5				
	21	USCGS 12 05 16.3, 49.6N, 155.6E, h = 50 km., m = 5.3 KURILE IS						
		PNS	PKP	12 24 26.4				
		LPB	ePKP	12 24 27.3				132
	21	PNS	eP	12 26 43.6				
			eS	27 25				
	21	USCGS 12 19 54, 31.2N, 114.2W, m = 4.7 GULF OF CALIFORNIA						
		PNS	eP	10 30 30				
	21	USCGS 12 24 00.1, 31.2N, 114.2W, h = 14 km., m = 5.1 GULF OF CALIFORNIA						
		PNS	eP	12 34 36.8				
		LPB	eP	12 34 40				65
	21	PNS	eP	13 43 07.4				
			eS	45 45.6				
		LPB	eP	13 43 09				
	21	PNS	P	14 22 02.6				
	21	LPB	e(P)	14 33 08.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	21	USCGS 14 30 00.4, 37.1N, 116.1W, m = 4.9 SOUTHERN NEVADA						
		PNS	eP	14 41 11.8				
		LPB	eP	14 41 15				70
	21	PNS	P	15 38 10.8				
		LPB	eP	15 38 17				
	21	USCGS 15 57 42.0, 31.2N, 114.3W, m = 2 km., m = 5.1 GULF OF CALIFORNIA						
		PNS	eP	16 08 22.4				
		LPB	eP	16 08 23				65
	21	PNS	eP	16 35 17.2				
		LPB	P	16 35 17.5		0.7	18	
	21	LPB	P	17 17 04.5		1.0	20	
		PNS	P	17 17 06.6				
	21	LPB	eP	17 43 30.2				
		PNS	P	17 43 31.3		0.8	12	
	21	PNS	P	20 00 39.6				
			S	01 09.4				
	21	LPB	eP	20 05 30				
		PNS	P	20 05 32.4		0.8	10	
	21	PNS	eP	22 22 59.6				
		LPB	eP	22 23 02				
	21	USCGS 23 34 41.5, 5.6S, 77.2W, m = 51 km., m = 4.7 NORTHERN PERU						
		PNS	P	23 37 52.2				
			i	38 03.2				
			eL	43.7				
		LPB	eP	23 37 55.7				14
			e	38 08				
			eL	44				
	22	PNS	eP	00 21 04.4				
		LPB	eP	00 21 05				
	22	PNS	eP	01 43 43.4				
		LPB	eP	01 43 45.2				
	22	USCGS 02 47 09.4, 35.7S, 103.7W, m = 4.9 SOUTHERN PACIFIC OCEAN						
		PNS	P	02 54 18.8				
			eL	03 05				
		LPB	P	02 54 22.0		1.0	20	37
			iS	03 03				
			eL	03 05				

MONTH	DAY	STA	PHASE	TIME	SIGN	PEP	AMPL	DIST
MAR	22	LPB	eP	04 15 25				
	22	LPB	eP	04 23 16.4				
		PNS	eP	04 23 20				
	22	USCGS 04 52 32.6, 38.9N, 70.6E, h = 8 km., m = 5.3 AFHANISTAN-USSRS BOR REG						
		LPB	ePKP	05 12 00.4				138
		PNS	ePKP	05 12 00.6				
	22	PNS	P	05 27 24.1				
			S	47.8				
	22	USCGS 05 43 57.5, 15.5S, 176.1W, m = 5.4 FIJI IS REG						
		LPB	eL	06 31.2				93
		PNS	eL	06 31.9				
	22	USCGS 07 25 35.6, 31.4N, 114.1W, m = 5.1 GULF OF CALIFORNIA						
		PNS	eP	07 36 11				
		LPB	P	07 36 15.4		1.0	10	65
	22	LPB	eL	07 55.5				
	22	PNS	eP	08 47 00				
			S	24				
	22	LPB	P	09 37 39		0.9	18	
		PNS	P	09 37 41.2				
	22	PNS	P	13 29 29.4	D	0.4	12	
			S	52.8				
		LPB	eP	13 29 24.5				
	22	USCGS 13 36 06.1, 43.4N, 147.4E, m = 40 km., m = 5.0 KURILE IS						
		LPB	ePKP	13 55 32				140
		PNS	ePKP	13 55 34.4				
	22	PNS	eP	15 19 24.6				
	22	PNS	eP	15 27 32.4				
	22	PNS	P	16 04 45.8	D			
			S	05 08				
	22	USCGS 17 31 07, 0.7S, 122.5E, h = 42 km., m = 5.2 NORTHERN CELEBES						
		LPB	ePKP	17 51 08				159
		PNS	ePKP	17 51 09.3				
	22	PNS	eP	17 58 30.8				
		LPB	P	17 58 31.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	22	LPB	eP	18 30 17.6				
		PNS	eP	18 30 17.8				
	22	PNS	P	22 41 17.7				
			S	45.6				
	23	PNS	P	01 11 20				
			S	47.8				
		LPB	P	01 11 22.5		0.9	25	
			S	51				
	23	LPB	P	02 26 23.4				
		PNS	eP	02 26 26.4				
	23	LPB	eP	03 48 52.6				
			e	49 40				
		PNS	eP	03 48 56.7				
	23	PNS	eP	07 56 16.4				
		LPB	P	07 56 20.5				
	23	LPB	P	08 43 30.7		0.5	21	
			iS	44 14				
		PNS	iP	08 43 40.8	C			
			S	44 14.8				
	23	USCGS 10 17 52.2, 22.9S, 67.5W, h = 179 km., m = 4.1 CHILE-BOLIVIA BOR REG						
		LPB	eP	10 19 26				6
		PNS	eP	10 19 28.2				
			i	34				
	23	PNS	eP	11 43 07				
		LPB	eP	11 43 09.2				
	23	USCGS 11 49 35.6, 6.2N, 77.8W, h = 24 km., m = 5.0 NEAR COAST OF COLOMBIA						
		PNS	P	11 54 50				
			S	59 09.8				
			eL	12 03				
		LPB	P	11 54 54.6		1.0	16	24
	23	PNS	P	12 03 58.1				
	23	USCGS 12 01 01.5, 1.0N, 26.0W, m = 4.9 CENTRAL MID-ATLANTIC RIDGE						
		LPB	P	12 09 17.3		1.0	26	45
		PNS	P	12 09 18		0.8	11	
	23	LPB	P	16 24 07.2		1.0	18	
		PNS	P	16 24 09.5		0.7	15	

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	23	PNS	P	16 29 27.2				
	23	PNS	iP	16 52 20	D			
			S	46.6				
		LPB	iP	16 52 23.1	D	0.7	259	
			S	51.5				
	23	PNS	eP	17 52 40.7				
		LPB	eP	17 52 45				
	23	PNS	eP	19 36 54				
	23	USCGS 21 08 42.6, 39.2N, 28.5E, h = 12 km., m = 5.6 TURKEY						
		PNS	PKP	21 27 03.6				
			eL	22 02.2				
		LPB	eP	21 26 06				105
			eL	22 02				
	23	PNS	eP	22 56 53.6				
	23	USCGS 23 01 03.2, 6.5S, 154.7E, h = 51 km., m = 5.0 SALOMON IS						
		LPB	ePKP	23 20 14				131.4
		PNS	ePKP	23 20 17.4				
	23	PNS	P	23 28 00.6	D			
			S	25.2				
		LPB	eP	23 28 05				
	24	USCGS 01 59 30.6, 39.1N, 28.5E, h = 6 km., m = 5.0 TURKEY						
		PNS	ePKP	02 17 41				
		LPB	ePKP	02 17 42				105
	24	LPB	eP	02 20 29				
		PNS	eP	02 20 32.2				
	24	PNS	P	04 36 15.8				
		LPB	P	04 36 21				
	24	LPB	P	05 44 52		0.6	7	
	24	PNS	P	06 17 31.4				
			S	55				
	24	PNS	eP	12 26 44				
		LPB	eP	12 26 45				
	24	LPB	eP	14 44 07				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	24	LPB	P	16 13 48.6		0.7	14	
			S	14 30.6				
		PNS	P	16 13 52				
			S	14 36.4				
	24	LPB	P	18 11 07.1				
			S	45.3				
		PNS	P	18 11 09.4				
			S	50				
	24	LPB	eP	20 34 03.5				
			S	45.4				
		PNS	P	20 34 05.6				
			S	52.6				
	24	PNS	P	23 35 31.6				
	25	LPB	eP	00 12 13.4				
		PNS	P	00 12 17.2				
	25	LPB	eP	01 02 38.4				
		PNS	eP	01 02 41				
	25	USCGS 02 25 06.1, 31.6N, 141.7E, h = 59 km., m = 4.7 SOUTH OF HONSHU, JAPAN						
		PNS	PKP	02 44 45.4				
		LPB	PKP	02 44 46.3		0.9	11	144
	25	LPB	eP	02 49 09				
		PNS	eP	02 49 11.4				
	25	LPB	eP	03 22 19.4				
	25	USCGS 04 33 23.2, 16.8S, 69.8W, h = 175 km., PERU-BOLIVIA REG						
		PNS	iP	04 33 55.4	D			
		LPB	iP	04 33 56.5	D	0.8	67	2
			S	34 18.5				
	25	LPB	P	05 52 44.4		0.9	11	
			e	53 36.6				
		PNS	P	05 52 46.2				
	25	PNS	eP	11 18 46.8				
		LPB	eP	11 18 48				
	25	USCGS 13 13 01.4, 23.5S, 177.8W, h = 291 km., m = 5.4 SOUTH OF FIJI IS						
		PNS	ePKP	13 26 20.8				
		LPB	ePKP	13 26 22				101

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	25	PNS	eP	13 39 10				
		LPB	eP	13 39 55.6				
	25	USCGS 13 28 49.8, 38.7N, 28.4E, h = 40 km., m = 4.8 TURKEY						
		LPB	eP	13 42 56				105
			eL	14 18				
	25	USCGS 21 22 20.9, 14.6S, 74.9W, h = 38 km., m = 4.2 PERU						
		PNS	P	21 24 02.9				
	25	PNS	eP	23 10 21.6				
		LPB	eP	23 10 28.5				
	26	PNS	eP	00 15 28.9				
			S	52.3				
	26	LPB	P	00 41 00		0.9	34	
	26	USCGS 0114 31.0, 15.0S, 75.4W, h = 29 km., m = 4.9 NEAR COAST OF PERU						
		PNS	P	01 16 16.3				
			eL	18.3				
		LPB	P	01 16 21.4		1.4	60	6
			eS	17 44				
	26	LPB	P	01 24 08.6		1.5	55	
	26	USCGS 02 26 22.3, 36.0S, 72.7W, m = 4.4 NEAR COAST OF CENTRAL CHILE						
		LPB	P	02 30 53.3		0.9	10	
		PNS	P	02 30 56				
	26	LPB	P	04 19 19		1.0	20	
		PNS	P	04 19 20				
	26	USCGS 04 29 08.6, 6.4S, 154.9E, h = 88 km., m = 5.1 SALOMON IS						
		LPB	PKP	04 48 15				131
		PNS	ePKP	04 48 15.4				
	26	LPB	P	05 19 33.1		0.5	7	
			eS	20 13.8				
		PNS	P	05 19 39.6				
			eS	20 23.6				
	26	LPB	eP	05 44 54				
		PNS	eP	05 44 56.4				
	26	PNS	P	07 51 35.6				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	26	PNS	eP	12 25 19				
		LPB	eP	12 25 22.2				
	26	LPB	eP	12 41 22				
		PNS	P	12 41 24.6	C	0.5	8	
	26	PNS	P	15 41 56.3				
	26	USCGS 15 27 40.6, 16.2N, 122.2E, h = 36 km., m = 5.0						
		LUZON, PHILIPPINE IS						
		LPB	ePKP	15 47 55.4				170
		PNS	ePKP	15 47 56.1				
	26	PNS	P	16 32 51.6		0.5	4	
	26	PNS	P	17 14 51.6	D			
			S	15 14				
	26	PNS	P	18 18 23.3				
			S	47.6				
	26	USCGS 19 22 09, 8.6N, 127.6E, h = 31 km., m = 5.3						
		PHILIPPINE IS REG						
		PNS	ePKP	19 42 12.4				
		LPB	ePKP	19 42 13				123
	26	USCGS 19 30 54.1, 8.8N, 127.5E, h = 21 km., m = 5.1						
		PHILIPPINE IS						
		PNS	ePKP	19 50 53				
	26	LPB	eP	20 14 21				
		PNS	eP	20 14 25.6				
	26	PNS	P	20 24 32.8		0.6	5	
		LPB	eP	20 24 38				
	26	USCGS 20 50 02.9, 27.1N, 112.1W, m = 4.9						
		BAJA CALIFORNIA						
		PNS	eP	21 00 04.2				
		LPB	eP	21 00 11.6				60
	26	PNS	P	21 17 04.5				
			S	27				
	26	PNS	P	23 35 56.5	D			
			S	36 17.8				
	27	LPB	P	04 11 55.5		0.7	15	
			eS	13 19.5				
		PNS	P	04 11 59.8	D			
			eS	13 25.6				
	27	LPB	eP	04 35 08				
		PNS	eP	04 35 12.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	27	LPB	eP	05 01 41.6				
		PNS	eP	05 01 46.6				
	27	PNS	P	05 05 53.3				
			S	06 15				
	27	USCGS 04 46 26.1, 3.9N, 128.5E, m = 5.7						
		NORTH OF HALMAHERA						
		PNS	ePKP	05 06 26.8				
			eL	06 02				
		LPB	PKP	05 06 27.6		1.3	24	159
			e	07 16				
			L	06 02				
	27	USCGS 06 10 50.6, 31.0N, 141.6E, m = 28 km., m = 4.9						
		SOUTH OF HONSHU, JAPAN						
		PNS	ePKP	06 30 37				
		LPB	PKP	06 30 41		0.8	15	149
	27	PNS	eP	06 43 50				
		LPB	eP	06 43 53				
	27	LPB	eP	07 00 33				
	27	LPB	P	07 16 08.1		0.7	5	
		PNS	P	07 16 09.4	D			
			S	50				
	27	LPB	P	07 29 00	C	0.7	16	
			S	55				
		PNS	P	07 29 03.9	C			
			S	30 02.6				
	27	LPB	iP	07 47 57.2	C	0.9	510	
			i	48 48.2				
		PNS	iP	07 48 01.6	C			
			i	56.3				
	27	PNS	eP	08 35 02.8				
		LPB	P	08 35 07		0.9	8	
	27	LPB	eP	08 42 16.2				
			e	43 25.5				
		PNS	eP	08 42 19.2				
	27	LPB	P	09 16 38				
		PNS	P	09 16 41.2		0.6	6	
	27	LPB	eP	10 36 52.5				
	27	PNS	P	10 37 32.2				
			S	38 23.2				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	27	LPB	eP	11 18 38				
		PNS	eP	11 18 39.4				
	27	USCGS 12 41 25.9, 4.8N, 127.5E, m = 32 km., m = 6.1 TALAUD IS						
		LPB	PKP	13 01 36		1.2	46	160
			eSS	26 36				
			eL	58				
		PNS	PKP	13 01 36.4		1.6	60	
			SS	26 28				
			eL	57.8				
	27	PNS	P	16 36 51.2		0.5	4	
		LPB	eP	16 36 53				
	27	USCGS 18 20 21.0, 38.3S, 73.3W, h = 23 km., m = 4.3 NEAR COAST OF CENTRAL CHILE						
		LPB	eP	18 25 20				22
		PNS	eP	18 25 22				
	27	USCGS 20 47 24.5, 16.2N, 146.1E, m = 66 km., m = 5.2 MARIANA IS						
		PNS	PKP	21 07 03.6		1.4	43	
		LPB	PKP	21 07 04.5		0.9	17	147
	27	LPB	P	22 07 59.4				
		PNS	P	22 07 59.8	D			
			S	08 23.2				
	27	LPB	eP	22 27 28.2				
	28	PNS	P	01 15 02.7	D	0.5	14	
			S	27.4				
		LPB	P	01 15 04.3				
	28	USCGS 01 48 30.4, 38.6N, 28.4E, h = 9 km., m = 6.0 TURKEY						
		LPB	eP	02 02 10				105
			e(PP)	06 55.5				
			iSKS	22 00				
			eL	36.3				
		PNS	eP	02 02 10.4				
			ePP	06 57				
			L	42.4				
	28	USCGS 03 07 09.6, 33.3N, 140.3E, m = 78 km., m = 4.8 SOUTH OF HONSHU, JAPAN						
		PNS	ePKP	03 26 52				
		LPB	PKP	03 26 52.6		1.0	14	149

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	28	LPB	P	07 12 24.2				
			e	52.5				
	28	LPB	eP	08 29 19				
	28	PNS	P	08 33 08.4				
			i	17.3				
			eS	34 14.2				
		LPB	P	08 33 12.5		0.5	16	
			i	26.4				
			S	34 17				
	28	PNS	P	09 03 01.4				
			S	42.6				
		LPB	eP	09 03 10.5				
	28	USCGS 09 24 15.8, 22.6N, 142.9E, m = 169 km., m = 5.0 VOLCANO ISLANDS REGION						
		PNS	ePKP	09 43 46				
		LPB	PKP	09 43 49.5		0.9	8	159
	28	LPB	eP	09 18 33.2				
	28	USCGS 11 11 15, 25.9S, 70.2W, h = 49 km., m = 4.9 NEAR COAST OF NORTHERN CHILE						
		LPB	P	11 13 34.7				9
			i	47.7				
		PNS	P	11 13 35.6				
			i	49.6				
			eL	17				
	28	LPB	eP	11 48 42				
		PNS	eP	11 48 49.6				
			S	49 30				
	28	PNS	eP	12 11 58				
	28	LPB	eP	14 12 13				
		PNS	eP	14 12 16.4				
	28	USCGS 18 39 39.8, 32.5S, 71.6W, h = 84 km., m = 4.6 NEAR COAST OF CENTRAL CHILE						
		LPB	eP	18 43 24.5				16
		PNS	P	18 43 25.2				
	28	LPB	eP	23 14 09				
	28	PNS	eP	23 20 07.9				
		LPB	eP	23 20 10				
	29	PNS	eP	02 07 01.8				
	29	LPB	P	04 42 54.4		0.6	22	
		PNS	iP	04 42 58.4	C			

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	29	USCGS 06 08 58.2, 3.2S, 119.3E, h = 40 km., m = 5.5						
		CELEBES						
		LPB	PKP	06 28 56				
		PNS	PKP	06 28 56.5				
	29	LPB	eP	09 28 11.4				
	29	USCGS 09 15 54.1, 12.0N, 41.2E, m = 5.8						
		ETHIOPIA						
		PNS	ePKP	09 34 31.2				
		LPB	ePKP	09 34 31.7				112
			eL	10 10				
	29	USCGS 10 08 46.8, 23.7S, 66.9W, h = 177 km., m = 4.0						
		JUJUY PROV. ARGENTINA						
		LPB	P	10 10 31.4				8
			S	11 49.2				
		PNS	P	10 10 35				
	29	USCGS 11 04 47.9, 12.0N, 41.3E, h = 4 km., m = 5.6						
		ETHIOPIA						
		LPB	ePKP	11 23 29				112
		PNS	ePKP	11 23 33				
	29	USCGS 11 07 30.0, 12.0N, 41.2E, m = 5.3						
		ETHIOPIA						
		LPB	ePKP	11 26 08				112
		PNS	ePKP	11 26 12				
	29	PNS	eP	12 29 41.6				
		LPB	eP	12 29 46				
	29	USCGS 13 08 11.4, 11.9N, 41.5E, h = 4 km., m = 5.1						
		ETHIOPIA						
		PNS	ePKP	13 26 53				
	29	USCGS 13 48 57.6, 10.4N, 56.8E, m = 5.6						
		CARLSBERG RIDGE						
		LPB	PKP	14 08 00.9		1.0	20	126
			eL	50				
		PNS	PKP	14 08 02		1.4	47	
	29	PNS	eP	17 41 38.6				
	29	LPB	eP	18 18 50				
		PNS	eP	18 18 57				
	29	PNS	eP	22 14 05.2				
		LPB	eP	22 14 08.3				
	30	LPB	eP	00 10 08.4				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	30	LPB	P	02 02 29.3		1.0	24	
		PNS	P	02 02 22.8		0.8	6	
	30	USCGS 02 29 56.5, 0.6N, 25.9W, h = 33 km., m = 4.7						
		CENTRAL MID ATLANTIC RIDGE						
		LPB	P	02 38 11.4		0.9	51	45
		PNS	P	02 38 13.4		0.8	25	
	30	USCGS 02 53 41.4, 8.1N, 38.8W, h = 33 km., m = 4.6						
		CENTRAL MID ATLANTIC RIDGE						
		PNS	P	03 01 00.8		0.6	21	
		LPB	P	03 00 59.4		1.4	120	38
			eL	12				
	30	LPB	eP	03 48 14.6				
		PNS	eP	03 48 18				
	30	LPB	eP	04 31 34.5				
		PNS	eP	04 31 36.8				
	30	USCGS 05 05 38.1, 4.3S, 80.7W, h = 69 km., m = 4.5						
		PERU-ECUADOR BORDER REG						
		PNS	P	05 09 32.4				
			i	25.4				
			eL	16				
		LPB	P	05 09 37.2				17
			eL	16.3				
	30	LPB	P	05 47 14				
	30	PNS	eP	05 49 50.4				
		LPB	eP	05 50 00				
			S	51 21.8				
	30	USCGS 07 11 04.3, 4.5N, 128.0E, h = 70 km., m = 4.9						
		NORTH OF HALMAHERA						
		LPB	ePKP	07 31 04				159
		PNS	ePKP	07 31 06				
	30	USCGS 07 55 07.5, 4.4N, 128.0E, m = 5.4						
		NORTH OF HALMAHERA						
		LPB	PKP	08 15 08.3		1.0	16	159
			i	57				
			eL	09 11				
		PNS	PKP	08 15 08.4		1.4	19	
			i	48.4				
			eL	09 11				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	30	USCGS 10 50 11.4, 27.6S, 70.9W, m = 5.1						
		NEAR COAST OF NORTHERN CHILE						
		PNS	P	10 52 55.2				
			eL	56.9				
		LPB	P	10 52 53.5		0.7	14	11
			L	57				
	30	LPB	eP	12 05 16				
		PNS	P	12 05 18.4				
			S	40.8				
	30	PNS	P	13 23 41				
	30	PNS	eP	14 05 20.4				
			eS	58				
	30	LPB	eP	14 42 23				
	30	PNS	P	14 51 38				
			S	52 02.3				
	30	LPB	eP	14 56 13				
			eS	57 32				
		PNS	P	14 56 17				
			S	57 43.8				
	30	PNS	eP	20 00 59.4				
	30	USCGS 20 14 06.6, 2.0S, 77.1W, h = 173 km., m = 4.7						
		PERU-ECUADOR BOR REG						
		PNS	P	20 17 52.6		0.8	33	
		LPB	P	20 17 57.4		1.0	60	16
	30	LPB	P	21 06 01				
		PNS	P	21 06 02.6	C	0.6	20	
			S	38				
	30	USCGS 20 56 59.2, 4.7N, 127.6E, h = 61 km., m = 5.1						
		TALAUD IS						
		LPB	ePKP	21 17 06				160
	30	LPB	P	23 21 58		0.7	21	
	31	PNS	eP	01 53 08.4				
	31	LPB	eP	02 08 59				
	31	LPB	eP	02 24 03.6				
		PNS	eP	02 24 07				
	31	LPB	eP	02 46 08				
		PNS	eP	02 46 10				

MONTH	DAY	STA	PHASE	TIME	SIGN	PER	AMPL	DIST
MAR	31	PNS	eP	04 50 50.8				
		LPB	eP	04 50 59.7				
	31	USCGS 07 15 54.4, 27.7N, 34.0E, m = 6.0						
		RED SEA						
		LPB	eP	07 30 14				108
			eL	08 07				
		PNS	eP	07 30 14.2				
			eL	08 07.1				
	31	LPB	eP	08 18 27				
		PNS	eP	08 18 27.9				
	31	LPB	P	10 01 45.5		1.0	10	
		PNS	P	10 01 46.4		1.0	9	
	31	LPB	eP	10 29 55				
		PNS	eP	10 30 00				
	31	LPB	eP	11 52 39				
		PNS	P	11 52 41.6				
	31	LPB	P	14 36 25.7				
		PNS	eP	14 36 29.6				
	31	PNS	iP	15 40 18.8				
		LPB	eP	15 40 20.5				
	31	LPB	eP	17 56 08				
		PNS	eP	17 56 08.2				
	31	USCGS 19 25 27.2, 38.3N, 134.6E, h = 417 km., m = 5.9						
		SEA OA JAPAN						
		PNS	iPKP	19 44 31.4	C			
			i	46 13.6				
			eL	20 37				
		LPB	iPKP	19 44 31.8	C	1.1	180	151
			i	46 18				
			eL	20 38.4				
	31	LPB	eP	20 22 31.7				
		PNS	P	20 22 34				
	31	USCGS 20 25 38.1, 31.0N, 140.6E, m = 100 km., m = 4.8						
		SOUTH OF HONSHU, JAPAN						
		PNS	PKP	20 45 19.2		0.8	10	
		LPB	PKP	20 45 20.2		0.8	13	150
	31	LPB	P	21 20 50		0.8	19	
		PNS	P	21 20 50	D			
	31	PNS	P	21 31 40.2	D			
		LPB	eP	21 31 42				
	31	LPB	e(P)	22 40 42.8				