OBSERVATOIRE ROYAL DE BELGIQUE

KONINKLIJKE STERRENWACHT VAN BELGIE

BULLETIN D'OBSERVATIONS : SEISMOLOGIE

WAARNEMINGSBERICHTEN : SEISMOLOGIE

BULLETIN SEISMIQUE

Station: Uccle

ANNEE 1959

Section - Géodynamique
Sectie - Géodynamica

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INTRODUCTION

Coordonnées géographiques de la Station.

Latitude : 50°47'55" N. Longitude : 4°21'30" E. Altitude : 100 m.
Sous-sol : sable (éocène moyen).

Appareils : Un séismographe vertical Wiechert (masse 1300 kg). Un séismographe horizontal Wiechert à deux composantes (N,S et E-W) (masse 1000 kg). Deux séismographes horizontaux Galitzine. Un séismographe à composante verticale type Wilip-Somville. Un séismographe vertical type Grenet.

En 1959 les séismographes ont fonctionné sans interruptions

Constantes approximatives des séismographes Galitzine :

E-W	T_1 = 24°,5	l = 123,8 mm	A_1 = 1040 mm
	T = 21°,8	μ = + 0,2	k = 38
N-S	T_1 = 24°,5	l = 124,7 mm	A_1 = 1040 mm
	T = 21°,8	μ = + 0,2	k = 38

Les constantes du séismographe à composante verticale et à enregistrement galvanométrique ont été approximativement les suivantes :

μ = 0,0 : T = 10°,0 : T_1 = 10°,15 ; k = 290

Les Constantes des séismographes Wiechert ont varié entre les valeurs extrêmes suivantes :

	Z*		E*		N*	
T :	4°,22 et 4°,23		7°,35		7°,38 et 7°,36	
$\frac{r}{T^2}$:	0,067 et 0,079		0,021 et 0,019		0,021 et 0,023	
ϵ :	2,5 et 2,7		2,1		2,5	
V :	157 et 159		140 et 142		162 et 161	

Etat de la Cave. - Au cours de l'année 1959 la température a varié entre 14,7° et 16,3° C et le degré d'humidité a été maintenu à 60 %.

Analyse des séismogrammes et bulletins. - En 1959 les amplitudes n'ont pas été réduites en mouvement vrai du sol. C'est pour cette raison que les colonnes "Périodes" et "Amplitudes" ont été supprimées dans le Bulletin annuel.

Pour l'analyse des séismogrammes nous avons utilisé les tables de H. Jeffreys, B. Gutenberg et C.F. Richter, J.B. Macelwane et J.S. Joliat, ainsi que les hodographes publiés par Mme Y. Labrouste.

Les calculs des distances et des azimuts ont été exécutés à l'ordinateur IBM 1620.

L'impression du présent bulletin a été réalisée à partir des "listings" obtenus à la Tabulatrice IBM 447.

J.M. VAN GILS

EXEMPLE EXPLICATIF DES TABLEAUX

STATION
ANNEE

MOIS

N°		HEURE ORIGINE	ϕ	λ	h	Δ_c	a_c	M	CENTRE INTERNATIONAL (1)
		HEURES	PHASES	COMPOSANTES	h_o	Δ_o	a_o	T	REMARQUES A_μ (2)
135	2	00 39 22,0	53,0 N	168,5 W		76,3	355,6	6,5	U.S.C.G.S.
		01 20	LM	E*					
136	2	2 17 35,0	52,5 N	168,0 W		76,8	355,2	6,9	U.S.C.G.S.
		2 29 34	P	Z*, N*	O	76,5			
		2 39 30	S	N*					
		3 12,5	M	E*				18,0	+ 750

(1) Chaque séisme enregistré est identifié, par un numéro suivi des déterminations obtenues dans les Centres Internationaux, ainsi que de la distance et de l'azimut de l'épicentre par rapport à la Station calculés à l'ordinateur IBM 1620.

(2) Les observations sont indiquées à la suite de chaque ligne d'identification.

LISTE DES ABREVIATIONS

Δ_o : distance observée (exprimée au 0,1 de degré).
Δ_c : distance calculée (exprimée au 0,1 de degré)
a : azimuth (exprimé en degrés, et mesuré du N vers l'Est)
h : profondeur de l'hypocentre (exprimée en km ou en fraction du rayon terrestre).
H : heure origine
Z* : séismographe vertical Wiechert.
E* : séismographe horizontal Wiechert (composante E-W)
N* : séismographe horizontal Wiechert (composante N-S).
VG : séismographe vertical Wilip-Somville
EG : séismographe horizontal Galitzine (composante E-W)
NG : séismographe horizontal Galitzine (composante N-S)
ZG : séismographe vertical Grenet.
(...) : douteux
AG.MI. agitation microséismique
AG.ATM agitation atmosphérique
MBT : mauvaise base de temps
COM : compression
DIL : dilatation
h=0 = foyer superficiel
h=0,00 = profondeur 33 km.

1	2	05 19 41.0	47.7 N	004.0 O	.000	6.29 243.69			BCIS
		5 21 10	E	VE		6.3			
		5 21 15	PN	EE					
		5 21 37	/P*/	EG					
		5 21 49	PG	VG,NG					
		5 22 17	E	VE,NE					
		5 22 24	/SN/	VE					
		5 22 51	S*	NG					
		5 23 02	E	NE					
		5 23 07	SG	VG,EG					
		5 23 18	E	VE,EE					
		5 23 23	E	NE					
2	3	07 59 12.0	35.5 S	029.5 O	.000	90.86 207.04			USCGS
		8 13 01	LQ	NG					
3	3	11 17 38.0	14.5 S	075.5 O	.000	94.73 253.10			USCGS
		11 58 09	LQ	NG					
		12 06 14	LR	NG					
		12 09 22	M	EG					
4	5	09 46 42.0	22.0 S	171.5 O	.000	151.09 352.04			USCGS
		10 06 34	PKP	EE,NE					
		10 10 04	PKS	EG					
		11 00 04	LR	NG					
5	7	22 21 58.0	37.0 N	029.3 E	.000	22.51 118.16			BCIS
		22 34 50	LM	NG					
6	8	01 33 48.0	15.5 N	061.0 O	.010	62.56 260.79			USCGS
		1 52 29	S	EE,NE					
		1 53 16	PPS	EG					
		1 55 47	E	VG					
		1 57 58	E	EG					
		2 00 01	LQ	NG					
		2 00 36	E	VG					
		2 01 45	E	NG					

			2 02 31	F	VG						
			2 03 35	LR	VG						
7	9	01 55	04.0	36.2 N	021.5 E	.000	19.10	133.24			BCIS
			2 06 28	M	EG						
			2 07 44	M	VG						
			2 08 28	M	EG						
8	11	04 27	24.0	36.7 N	029.5 E	.000	22.84	118.41			BCIS
			4 32 58	PP	NG						
			4 39 09	LR	NG						
			4 40 18	M	NG						
9	13	01 15	25.0	13.5 N	146.0 E	.000	107.77	39.33			USCGS
			1 49 30	SS	EG						
			2 04 36	LR	EG						
			2 19 45	M	EG						
10	15	21 20	26.0	25.5 S	180.0 W	.073	154.51	9.18			USCGS
			22 02 25	/SS/	EG						
11	16	01 31	25.0	52.0 N	171.0 O	.004	77.60	357.06			USCGS
			2 02 59	L	NG						
			2 04 15	LQ	EG						
			2 09 08	LR	EG						
			2 18 55	M	NG						
			2 21 35	M	EG						
12	22	05 10	28.0	37.9 N	142.6 E	.000	84.26	31.93			BCIS
			5 23 02	P	VG,NG		84.5				
			5 23 06	/PCP/	VG,NG						
			5 23 17	E	VE						
			5 23 50	E	EG						
			5 24 58	E	VG						
			5 26 18	PP	NG						

		5	28	01	E	EG				
		5	32	40	E	NG				
		5	33	28	S	NG				
		5	33	46	/SCS/	EE,NE				
		5	34	28	PS	VG				
		5	34	53	PPS	VG				
		5	39	54	E	VG				
		5	46	08	LQ	VG				
		5	49	29	L	VG				
		5	49	56	LR	EE,NE				
		5	58	00	MR	VE,EE				
		6	01	46	M	NE,VG				
		6	03	22	M	EE				
		6	03	40	M	VE,EE				
13	24	05	08	35.0	37.5 N	141.0 E	.010	84.24	33.29	USCGS
		5	49	34	LR	NG				
		5	52	56	E	EG				
		5	56	28	M	NG				
14	24	19	55	14.0	37.5 N	024.5 O	.000	24.42	248.19	USCGS
		20	00	35	P	VE,EE		24.4		
		20	00	41	E	EE				
		20	00	48	E	VG				
		20	00	48	E	NE,VG				
		20	01	12	PP	NG				
		20	01	32	E	NE				
		20	01	47	E	VG				
		20	02	07	E	NE,EG				
		20	04	56	S	VE,EE				
		20	05	06	E	EE,EG				
		20	07	00	E	EE,VG				
		20	07	56	PCS	VE				
		20	08	48	L	EG				
		20	08	59	E	VE				
		20	09	26	E	NG				
		20	09	44	E	VG				
		20	10	38	M	VE				
15	26	11	38	36.0	36.8 N	029.1 E	.000	22.55	118.83	BCIS
		11	51	35	M	NG				
16	27	03	35	29.0	71.5 N	000.2 O	.000	20.90	355.92	USCGS

		3 40 14	P	VE,EE			20.9			
		3 40 21	E	NG						
		3 40 29	E	NG						
		3 40 46	PPP	NE						
		3 41 18	E	NE						
		3 41 58	E	VG						
		3 44 08	S	EG						
		3 45 53	LR	NG						
		3 47 34	M	EG						
17	28	01 21 16.0	38.5 N	142.5 E	.000	83.85	31.78			USCGS
		2 14 57	M	EG						
18	29	06 45 36.0	37.5 N	024.5 O	.000	24.42	248.19			BCIS
		6 51 24	E	VE						
		6 51 33	E	VG						
		6 51 39	PP	VG						
		6 55 26	S	EE						
		6 55 44	E	EG						
		6 57 20	LR	NG						
		6 58 06	/M/	NG						
19	29	23 24 30.0	71.0 N	008.0 E	.000	20.36	3.43			USCGS
		23 29 08	P	VE			20.5			
		23 29 24	E	VE						
		23 29 33	PP	VE,EE						
		23 29 42	PPP	EE						
		23 29 51	E	EE						
		23 30 08	E	NE						
		23 30 19	E	VE						
		23 32 00	E	EE						
		23 32 59	S	NE						
		23 33 26	SS	EE						
		23 36 30	M	EE						
20	30	20 38 58.0	44.0 N	144.0 E	.000	79.35	28.40			USCGS
		21 20 08	M	EE						
21	30	22 16 47.0	44.0 N	144.0 E	.000	79.35	28.40			USCGS

		22 56 22	M	NE						
22	5	01 04 50.0	57.0 N	157.0 O	.010	71.56	349.37			USCGS
		1 16 01	P	NE						
		1 16 08	E	VG						
23	6	07 19 27.0	43.5 N	144.5 E	.000	79.96	28.28			USCGS
		7 58 56	LR	EG						
		8 00 57	LR	NG						
24	6	14 33 02.0	51.0 N	175.5 O	.004	78.68	359.91			USCGS
		14 54 53	E	EG						
		14 58 06	E	NG						
		15 10 21	LR	NG						
		15 24 06	M	EG						
25	7	09 36 51.0	04.0 S	081.5 O	.000	90.38	264.28			USCGS
		9 49 56	P	VE,EE		90.4				
		9 50 12	E	NG						
		9 50 25	E	NG						
		9 53 35	PP	EE						
		9 54 48	E	VG						
		9 56 40	E	EG						
		9 59 56	E	EG						
		10 00 40	E	EG						
		10 00 50	S	EE						
		10 01 11	E	EG						
		10 01 42	E	EG						
		10 02 01	PS	EG						
		10 07 12	E	EG						
		10 21 18	LR	NG						
26	7	20 08 17.0	37.7 N	020.7 E	.000	17.51	132.12			BCIS
		20 17 56	M	NG						
27	8	01 02 26.0	49.0 N	028.5 O	.000	21.16	277.97			USCGS

		1	07	14	P	EE		21.2			
		1	07	20	E	EE					
		1	07	30	/PP/	VE,EE					
		1	07	44	PPP	VE,VG					
		1	08	12	E	EG					
		1	09	29	E	NG					
		1	11	10	S	NE,NG					
		1	12	07	LR	VG					
		1	12	17	E	EG					
		1	13	10	E	VE					
		1	13	30	E	NE,VG					
		1	13	46	M	VE					
28	9	04	42	33.0	50.5 N	177.5 O	.000	79.16	1.21		USCGS
		5	04	46	S	EG,NG		80.0			
		5	13	59	LQ	EG					
		5	20	29	LR	NG					
		5	26	20	M	EG					
29	11	21	36	46.0	15.0 S	173.5 O	.000	144.28	356.46		USCGS
		21	56	17	PKP	NG					
30	14	22	25	50.0	28.0 N	097.0 E	.000	70.43	69.64		USCGS
		23	02	41	LR	EG		71.0			
		23	03	08	E	NG					
31	15	03	59	25.0	59.5 S	025.0 E	.000	111.30	168.89		USCGS
		4	20	13	E	NG		112.0			
		4	26	49	E	EG,NG					
		4	33	27	E	EG					
		4	33	46	E	NG					
		4	45	25	LQ	EG					
		4	49	18	LR	NG					
		4	57	01	E	NG					
		4	58	11	E	EE					
		4	58	35	E	VE					
		5	00	10	M	VG					
32	16	00	39	32.0	01.0 S	081.5 O	.000	88.08	266.17		USCGS

		1 02 58	E	EG						
		1 03 09	S	NG						
		1 08 26	E	EG						
		1 19 33	LR	NG						
33	17	12 03 05.0	51.5 N	171.0 O	.000	78.10	357.04			USCGS
		12 15 09	P	VE		78.0				
		12 15 17	PCP	VE,EE						
		12 15 29	F	NE,VG						
		12 15 36	E	NG						
		12 16 02	E	VG						
		12 16 15	E	VG						
		12 18 03	PP	EG						
		12 25 01	S	NE						
		12 33 52	LQ	EG						
		12 40 07	LR	NG						
		12 49 00	M	EG						
34	20	18 16 22.0	15.5 N	091.0 O	.018	81.46	283.93			USCGS
		19 01 45	LR	EG						
		19 02 22	LR	NG						
35	23	01 58 38.0	05.5 S	150.0 E	.000	126.50	44.35			USCGS
		2 58 37	LR	EG						
		3 03 52	E	NG						
		3 09 44	M	NG						
36	23	10 31 14.0	52.5 N	159.0 E	.010	74.96	15.74			USCGS
		10 42 48	P	VG,EG						
37	23	16 04 48.0	50.0 N	157.0 E	.000	76.99	17.73			USCGS
		16 16 43	D	VG,EG						
		16 47 33	M	EG						
38	24	12 45 41.0	11.0 N	122.5 E	.010	98.46	61.09			USCGS
		13 39 25	M	NG						

39	27	20 56	30.0	27.5 N	129.0 E	.000	88.06	46.99		USCGS
		21 20	33	E	EG					
		21 31	02	LQ	EG					
		21 40	48	LR	NG					
		21 42	53	E	EG					
		21 45	05	M	NG					
40	1	00 31	14.0	75.5 N	008.0 E	.000	24.86	2.18		BCIS
		36	38	IP	VG		24.6			
		36	49	E	VG.NG					
		36	57	E	NG					
		37	17	PP	EG					
		37	29	PPP	NG					
		37	45	E	VG					
		38	08	E	EG					
		39	34	E	EG					
		40	59	S	VG					
		42	55	LR	NG					
		44	34	M	EG					
41	2	15 51	41.0	36.5 N	070.5 E	.034	48.36	80.45		USCGS
		16 06	49	/S/	NG					
		16 10	33	LQ	EG					
		16 18	18	M	EG					
42	10	22 49	39.0	14.0 N	092.5 O	.000	83.53	284.10		USCGS
		23 33	58	LR	EG					
43	12	01 29	07.0	07.0 N	145.0 E	.000	113.18	43.22		USCGS
		2 03	05	E	EG					
		2 21	34	LR	EG					
		2 26	35	E	EG.NG					
		2 28	27	LM	EG					
44	13	19 08	05.0	34.2 N	026.2 E	.000	22.98	127.84		BCIS
		19 13	08	P	EE					

		19 13 18	E	NG						
		19 16 54	/S/	EG						
		19 20 17	LM	EG						
45	14	02 55 24.0	45.0 N	151.5 E	.000	80.50	22.98			USCGS
		3 37 29	LR	NG						
		3 40 14	M	EG						
46	16	08 02 10.0	45.5 N	151.0 E	.000	79.91	23.14			USCGS
		8 26 59	E	NG						
		8 35 47	LQ	NG						
		8 44 53	LM	NG						
47	17	08 25 22.0	27.5 N	130.0 E	.000	88.52	46.23			USCGS
		8 38 15	P	NG		88.5				
		8 49 03	S	EE,EG						
		8 50 03	/PS/	VG						
		8 55 03	/SS/	EG						
		8 59 33	E	NG						
		9 12 31	M	NE						
48	18	00 41 17.0	27.0 N	129.0 E	.000	88.48	47.25			USCGS
		1 05 03	S	NG						
		1 11 55	E	NG						
		1 15 39	E	EG						
		1 25 16	LR	NG						
		1 28 03	E	EG						
		1 32 33	M	NE						
49	19	08 25 35.0	35.2 N	036.0 O	.000	32.91	257.44			BCIS
		8 32 17	P	EE,NE		33.0				
		8 32 48	E	VG						
		8 33 18	/PP/	EG						
		8 35 56	E	VG						
		8 37 33	S	VE,NE						
		8 39 33	SS	NG						
		8 39 58	SSS	EG						
		8 40 53	LR	EE,VG						

		8 41 33	E	VG						
		8 42 46	/SCS/	VG						
		8 48 02	M	VG						
50	20	01 02 42.0	52.0 N	159.0 E	.000	75.44	15.88			USCGS
		1 48 03	M	EG						
		1 51 17	M	NG						
51	20	10 51 49.0	26.0 S	013.5 O	.000	77.99	196.38			BCIS
		11 06 03	E	EE,EG						
		11 23 28	LQ	NG						
		11 28 18	LR	EG						
52	20	15 44 31.0	36.5 N	142.5 E	.000	85.66	32.64			USCGS
		16 32 25	M	EG						
53	22	22 36 41.0	46.7 N	003.2 O	.000	6.47	233.54			BCIS
		22 38 14	P*	EG		6.0				
		22 38 59	E	VG						
		22 39 44	S*	EE						
		22 39 55	/SG/	NG						
54	23	07 10 22.0	40.0 N	118.0 O	.000	76.53	318.13			USCGS
		7 22 18	P	NG		77.0				
		7 32 09	S	NG						
		7 42 58	LQ	NG						
		7 47 32	LR	EG						
		7 48 34	E	NG						
		7 52 08	LM	NG						
		7 54 34	M	EG						
55	24	17 18 24.0	34.0 N	142.0 E	.000	87.74	34.07			USCGS
		18 04 48	L	EG						
		18 06 55	M	EG						

56	25	00 00	13.0	17.5 S	180.0 E	.097	146.58	7.56		USCGS
		34	15	M	EG					
57	26	02 24	12.0	07.0 S	155.5 E	.004	130.18	38.84		USCGS
		3 22	16	LQ	EG					
		3 27	13	LR	NG					
		3 38	18	M	EG					
58	26	05 24	42.0	00.0 N	125.0 E	.000	108.83	65.40		USCGS
		6 17	56	LR	EG					
59	27	07 02	07.0	17.5 N	063.0 O	.018	62.32	263.89		USCGS
		7 12	16	P	VE,EE					
60	27	22 57	36.0	01.0 N	085.0 O	.000	88.77	270.14		USCGS
		23 40	45	LR	EG					
		23 41	12	E	NG					
61	28	19 47	07.0	20.0 S	178.5 O	.089	149.20	5.25		USCGS
		20 05	55	PKP	VE,VG					
		20 05	58	E	VG					
62	30	21 04	00.0	41.0 N	030.0 O	.000	25.63	260.94		BCIS
		21 10	12	PP	EG					
		21 13	56	S	EG					
		21 15	59	L	EG					
63	31	07 20	45.0	15.0 S	173.0 O	.000	144.25	355.63		USCGS
		7 40	33	/PKP/	NG					
		8 20	56	LQ	EG					
		8 29	31	LR	NG					

		8 40 48	M	NG						
64	1	00 34 18.0	27.5 N	021.0 W	.000	30.18	229.12			USCGS
		40 32	P	VG,EG		30.0				
		41 28	PP	VG,NG						
		45 28	S	VG,EG						
		46 56	/SS/	EG,NG						
		47.1	L	NG						
		48.5	L	VG						
		50.1	M	EG						
65	1	14 48 34.0	18.5 S	169.0 E	.026	145.53	26.37			USCGS
		15 07 56	PKP2	VG,EG						
		15 08 43	*PPKP2	VG						
66	2	04 34 19.0	40.0 N	029.7 E	.000	20.71	111.61			BCIS
		4 44.8	LQ	NG						
		4 46.7	LR	EG						
67	2	19 21 34.0	20.5 N	121.0 E	.000	89.88	56.92			USCGS
		20 10.2	L	EG						
68	4	14 12 36.0	10.0 S	120.5 E	.000	114.05	75.67			USCGS
		15 06.5	LQ	EG						
		15 13.7	LR	EG						
		15 16.7	LM	NG						
		15 19.9	M	EG						
69	8	08 01 36.0	17.0 S	174.5 O	.010	146.29	358.03			USCGS
		8 21 09	PKP	VS	.010	146.3				
		8 21 40	*PPKP	VS						
		8 27 32	PPP	EG						
		8 27 56	SKS	EG,NG						
		8 28 45	*SSKS	NG						
		8 29 36	E	EG,NG						

		8 30 24	E	NG						
		8 32 24	E	NG						
70	10	23 51 35.0	19.0 S	173.2 O	.000	148.23	355.61			BCIS
		24 19 07	E	VG,NG						
		24 19 14	E	NS						
		24 19 44	E	ES,VG						
		24 20 35	E	NG						
71	12	09 54 58.0	16.5 N	095.0 O	.018	83.14	287.57			USCGS
		10 07 06	P	EG	.018	83.0				
		10 07 40	*PP	VG,EG						
		10 17 16	S	EG						
		10 32,2	L	EG						
		10 42,7	LM	EG						
72	12	15 22 33.0	04.5 S	134.0 E	.010	117.59	60.06			USCGS
		16 21,6	L	EG						
		16 27,6	LM	NG						
73	12	20 54 00.0	15.5 S	173.0 O	.000	144.75	355.59			USCGS
		21 13 56	PKP	VG,EG						
		22 02,7	L	NG						
		22 07,5	L	EG						
		22 09,6	LM	NG						
74	14	02 53 04.0	24.0 N	109.5 O	.000	85.55	302.97			USCGS
		3 33,8	L	EG						
75	14	07 20 28.0	57.5 N	155.0 O	.000	70.82	348.37			USCGS
		7 31 40	P	VG,NG						
76	15	00 15 21.0	41.5 N	143.0 E	.000	81.31	30.15			USCGS

			52,6		L	NG				
			54,6		L	EG				
		1	00,6		LM	EG				
		1	06,4		M	NG				
77	19	21	28	03.0	44.6 N	006.8 E	.000	6.42	164.20	BCIS
		21	31	30	E	VG				
		21	31	36	SG	VG,EG				
78	20	03	27	52.0	06.0 S	149.5 E	.010	126.72	45.18	USCGS
		4	30,9		L	EG				
		4	41,4		LM	EG				
79	20	04	21	10.0	08.5 N	083.0 O	.000	81.77	273.36	USCGS
		4	00,5		L	EG				
80	22	10	55	05.0	54.0 N	167.0 O	.000	75.42	354.74	USCGS
		11	06	50	P	VG,NG				
		11	07	08	E	NG				
81	22	19	01	41.0	11.5 N	086.5 O	.000	81.70	277.96	USCGS
		19	25	05	PS	EG				
		19	39,6		LR	NG				
		19	42,7		MR	EG				
82	22	20	26	46.0	36.5 S	097.5 O	.000	124.13	252.55	USCGS
		21	04	51	SSP	EG				
		21	09	16	SSS	EG				
		21	27,7		L	NG				
83	24	09	31	33.0	11.5 N	086.5 O	.000	81.70	277.96	USCGS
		10	09,7		L	NG				

84	24	17	57	58.0	31.0 S	178.0 O	.000	160.15	5.97		USCGS
		18	18	02	PKP1	VG,EG		161.0			
		18	18	46	PKP2	VG,FG					
		18	22	32	PP	VG					
		18	25	46	F	VG					
		18	35	57	PPS	NG					
		18	42	55	/SS/	EG,NG					
		18	48,0		L	EG					
		18	14,9		L	NG					
		18	17,7		L	EG					
		18	28,2		M	NG					
85	25	00	26	41.0	37.0 N	028.5 E	.000	22.07	119.38		BCIS
			31	36	P	EG		22.1			
			32	16	/PP/	NG					
			35	46	S	EG,NG					
			36	16	SS	VG,NG					
			37	27	E	NG					
			39,1		LM	NG					
			41,0		M	EG					
86	25	01	05	42.0	37.0 N	028.5 E	.000	22.07	119.38		BCIS
			1	10	P	NG		22.1			
			1	11	PP	EG					
			1	14	S	EG					
87	26	14	45	16.0	46.5 N	013.0 E	.000	7.16	123.60		BCIS
		14	47	08	PN	VS,ES		7.2			
		14	47	11	PP	EG					
		14	47	36	PG	NS,EG					
		14	48	48	SSS	VG,EG					
		14	49	13	SG	ES,NG					
88	26	20	40	38.0	25.0 N	122.5 E	.018	86.97	53.25		USCGS
		20	53	10	P	VG,NG	.018	87.0			
		20	53	40	/*PP/	VS,ES					
		20	56	37	PP	VG					
		20	57	09	*PPP	VG					

		21 03 24		F	ES,NS					
		21 03 36		S	EG					
		21 04 20		*SS	FG					
		21 04 38		SP	NS,NG					
		21 04 56		PS	EG					
		21 05 18		PPS	EG					
		21 09 24		E	ES,NS					
		21 09 39		SS	EG					
		21 10 12		*SSS	NS,EG					
		21 12 50		SSS	EG,NG					
		21 16,6		LM	NG					
		21 26,5		M	EG					
89	27	13 09 20.0		33.5 N	093.0 E	.000	64.09	68.25		USCGS
		13 42,9		LR	EG					
90	28	11 09 30.0		15.0 N	093.0 O	.000	83.07	285.12		USCGS
		11 21 56		P	VG,EG		83.0			
		11 26 38		E	NG					
		11 32 10		E	EG,NG					
		11 32 15		S	VG					
		11 32 38		E	EG					
		11 37 52		/SS/	EG					
		11 41 08		SSS	EG,NG					
		11 41 35		SCS	EG					
		11 46,0		L	NG					
		11 53,5		LM	VG					
		11 57,1		M	EG					
91	3	04 41 24.0		12.5 N	087.5 O	.010	81.57	279.36		USCGS
		5 20,6		LQ	EG					
92	4	07 15 42.0		52.5 N	159.5 E	.004	75.04	15.43		USCGS
		7 27 18		P	VS,ES	.004	75.0			
		7 27 22		E	NS,VG					
		7 27 26		*PP	VS					
		7 27 32		PCP	VS,EG					
		7 30 07		E	VS,NG					
		7 30 16		PP	VS,VG					
		7 31 56		/PPP/	VS,VG					
		7 36 56		S	NS					

		7 37 18	E	VS,ES						
		7 37 56	/PPS/	ES						
		7 46,5	LR	EG						
		7 51,9	LM	NS						
		8 06,1	M	VG						
93	5	19 04 16.0	52.5 N	159.5 E	.004	75.04	15.43			USCGS
		19 16 04	P	EG						
		19 42,1	LR	NG						
		19 46,6	LM	EG						
		19 50,6	M	NG						
94	7	00 03 24.0	03.5 S	148.5 E	.000	124.06	44.90			USCGS
		28 36	E	VG						
		1 05,0	LQ	EG,NG						
		1 16,0	LR	EG						
95	8	11 34 50.0	53.5 N	160.5 E	.004	74.24	14.55			USCGS
		11 46 22	P	VG						
		11 46 40	*PP	VG,EG						
		11 47 00	E	NG						
		12 13,9	LR	NG						
96	12	04 57 35.0	54.5 N	168.0 E	.000	74.27	9.83			USCGS
		5 09 08	P	VS		73.0				
		5 09 56	E	EG						
		5 18 34	S	EG,NG						
		5 23 36	/SS/	EG,NG						
		5 25 32	E	EG						
		5 33,9	LQ	EG						
		5 36,2	LR	VG						
		5 44,6	LM	EG						
		5 48,6	M	NS						
97	12	09 46 51.0	23.5 S	064.5 O	.000	95.43	239.34			USCGS
		10 00 21	P	VG		95.8				
		10 04 10	PP	VG,EG						
		10 10 56	E	EG,NG						

		10 11 36	S	EG,NG					
		10 17 48	/SS/	EG,NG					
		10 31 30	E	EG,NG					
		10 32 42	F	EG					
		10 37,2	LM	EG					
		10 40,8	M	VG					
		10 49,2	M	VG					
98	12	21 40 22.0	51.5 N	177.0 O	.000	78.17	.87		USCGS
		22 20,5	LQ	EG					
		22 31,5	LR	NG					
99	12	21 59 56.0	51.5 N	177.0 O	.000	78.17	.87		USCGS
		22 48,8	LR	EG					
100	14	00 55 55.0	40.0 N	023.0 E	.000	16.92	122.47		USCGS
		1 05,5	LR	VG,EG					
101	14	06 36 55.0	35.1 N	024.9 E	.000	21.62	128.66		BCIS
		4 41 44	P	VS,ES					
		4 42 16	PP	VG					
		4 42 28	PPP	ES,NS					
		4 45 44	S	EG					
		4 45 56	PCP	VG,EG					
		4 46 36	SSS	NS,EG					
		4 47,2	LR						
		4 48,5	LM						
102	14	09 33 22.0	19.0 S	170.0 E	.000	146.28	25.01		USCGS
		9 53 06	PKP1	VG,EG					
		9 53 50	E	NG					
103	14	10 41 56.0	19.0 S	170.0 E	.010	146.28	25.01		USCGS
		11 01 34	/PKP/	VG					

104	14	11	49	20.0	19.0 S	170.0 E	.010	146.28	25.01	USCGS
		12	08	56	/PKP/	VG,NG				
		12	09	46	F	VG				
105	14	13	19	32.0	19.0 S	170.0 E	.018	146.28	25.01	USCGS
		13	39	03	PKP	VG				
		13	39	39	*PPKP	VG,NG				
106	14	19	22	18.0	40.0 N	023.3 E	.000	17.08	121.90	BCIS
		19	31,4		LR	EG				
107	15	06	16	23.0	04.5 S	153.5 E	.004	127.10	39.88	USCGS
		6	35	21	PKP	VG	.004	127.0		
		6	35	36	*PPKP	VG				
		6	37	26	PP	VG				
		6	38	03	E	VG				
		6	38	54	PKS	NG				
		6	47	34	/PS/	EG,NG				
		7	11,2		LR	EG				
		7	13,4		LM	NG				
108	19	15	17	44.0	33.0 N	068.5 E	.000	49.34	85.41	USCGS
		15	33	52	S	VG,NG				
		15	43,8		LR	EG				
		15	46,9		LM	NG				
109	19	16	36	51.0	37.0 N	026.5 E	.000	20.98	122.58	USCGS
		16	41	41	P	EG		21.3		
		16	45	35	S	FG				
		16	48,4		LR	NG				
110	19	19	35	03.0	44.5 N	149.0 E	.000	80.32	24.85	USCGS
		19	47	18	P	VG		80.0		
		19	56	56	E	NG				

		19 57 17	S	NG						
		19 57 42	/SCS/	EG						
		20 06,7	LR	EG						
		20 21,0	LM	NG						
111	19	19 49 12.0	41.5 N	042.0 E	.000	27.43	95.08			USCGS
		19 55 04	P	VG,EG		27.5				
		19 59 42	S	VG,EG						
		20 00 50	/SS/	VG						
		20 02,6	LQ	NG						
		20 04,1	LR	EG						
112	21	11 34 23.0	28.0 S	069.0 O	.004	101.44	239.85			USCGS
		11 52 32	P	VG,EG						
		11 17,4	LQ	EG						
		11 21,7	LR	NG						
		11 29,4	LM	EG,NG						
113	24	13 19 32.0	36.3 N	048.0 E	.000	34.26	97.94			USCGS
		13 27,6	LR	EG						
114	24	19 17 40.0	17.5 N	097.0 O	.010	83.57	289.70			USCGS
		19 30 00	P	NS	.010	84.0				
		19 30 27	*PP	VG						
		19 33 38	*PPP	EG						
		19 40 19	S	VS,EG						
		19 40 37	E	NG						
		19 41 10	/PS/	EG,NG						
		19 45 47	SS	EG,NG						
		19 57,9	M	ES,EG						
		20 03,3	M	NG						
115	26	04 13 01.0	27.5 N	126.5 E	.010	86.87	48.88			USCGS
		4 25 39	P	VS,EG	.010	86.9				
		4 25 59	/*PP/	VG,EG						
		4 29 06	PP	VG						
		4 35 58	S	EG						
		4 36 43	*SS	EG,NG						

		4 58.4		LR	NG					
		5 00.6		MR	EG					
		5 03.1		LM	NG					
116	26	05 27	36.0	17.0 N	061.3 O	.000	61.62	262.14		USCGS
		5 37	59	P	VG					
117	26	06 36	00.0	37.5 N	070.0 E	.000	47.42	79.74		USCGS
		6 44	35	P	NG					
		6 55	13	E	EG					
		7 03.1		LQ	NG					
		7 08.5		LR	EG					
118	29	10 42	48.0	18.0 S	169.5 E	.010	145.19	25.31		USCGS
		11 02	21	PKP2	VS,NS					
		11 02	43	*PPKP	VS,ES					
119	30	05 36	25.0	20.0 N	080.0 O	.000	71.23	278.77		USCGS
		6 10.7		LQ	EG					
120	2	00 47	17.0	32.5 N	131.5 E	.000	84.91	42.56		USCGS
		1 28.8		LQ	EG					
		1 39.8		LR	NG					
121	2	02 37	46.0	21.0 N	121.0 E	.000	89.47	56.64		USCGS
		2 51	03	E	EG					
		3 01	11	E	EG					
		3 22.6		LQ	NG					
		3 26.0		LR	EG					
		3 28.6		LM	EG					
122	2	03 23	12.0	25.0 S	176.0 O	.000	154.25	.75		USCGS
		3 43	15	PKP1	EG,NG					

123	2	03 31 55.0	25.5 S	176.0 O	.000	154.75	.76			USCGS
		3 51 59	PKP1	EG						
124	2	03 52 06.0	25.5 S	176.0 O	.000	154.75	.76			USCGS
		4 48,6	LQ	NG						
		4 54,9	LR	EG						
125	2	04 57 18.0	21.0 N	121.5 E	.000	89.73	56.25			USCGS
		5 10 11	P	EG		88.0				
		5 20 55	S	FG						
		5 21 41	F	EG						
		5 41,6	LQ	EG						
		5 45,7	LR	ES,NS						
		5 47,9	M	ES						
126	2	05 42 26.0	42.0 S	072.0 O	.018	113.69	232.35			USCGS
		6 01 59	PP	EG						
		6 02 25	/PPP/	NG						
127	3	03 43 42.0	04.0 N	077.0 O	.000	81.40	265.83			USCGS
		4 24,6	LQ	EG						
128	5	20 37 15.0	12.0 N	086.5 O	.010	81.32	278.28			USCGS
		21 05 25	*SSS	EG						
		21 07 56	SSS	EG,NG						
		21 14,6	LQ	NG						
		21 22,1	LR	EG						
129	7	13 39 38.0	00.5 N	018.0 O	.000	53.54	208.21			USCGS
		13 56 41	S	EG,NG						
		14 02,3	LQ	NG						
		14 07,5	LR	EG						

		14 09.9	LM	NG						
130	9	23 10 38.0	58.0 S	009.5 O	.000	108.94	187.75			USCGS
		23 54.9	LQ	EG						
131	10	04 16 03.0	35.7 N	024.2 E	.000	20.79	128.91			BCIS
		4 20 44	P	EG,NG		20.7				
		4 24 36	S	EG,NG						
		4 26,7	LQ	NG						
		4 27,8	LR	EG						
132	13	21 56 45.0	46.1 N	012.3 E	.000	7.07	128.63			BCIS
		21 58 25	/PN/	EG		7.0				
		21 58 53	E	VG						
		21 59 05	PG	EG						
		21 59 51	SN	VG						
		22 00 39	SG	EG,NG						
133	14	00 11 57.0	20.5 S	068.0 O	.010	94.99	243.75			USCGS
		29 07	PP	ES	.010	95.0				
		29 19	E	NG						
		29 31	E	EG						
		35 45	SKS	ES						
		36 15	S	NG						
		36 25	E	VG						
		38 33	PPS	VG						
		38 52	E	VG						
		43 25	/PSS/	VG						
		43 37	E	VG						
		55,2	LQ	EG						
		1 02,6	LR	NG						
		1 03,1	M	NG						
134	16	00 32 17.0	42.3 N	024.1 E	.000	15.98	114.49			BCIS
		41 11	E	NG						
		42 35	E	EG						

135	16	03 28 41.0	44.0 N	019.0 E	.000	12.02	118.81			BCIS
		3 31 33	P	VG.NG						
		3 35.5	LQ	NG						
136	17	12 32 02.0	42.7 N	020.0 E	.000	13.42	121.09			BCIS
		12 39 25	E	NG						
		12 39 53	E	EG						
137	18	06 50 45.0	55.0 S	129.0 O	.000	151.86	243.05			USCGS
		8 07,9	LQ	EG						
		8 09,7	LR	NG						
138	18	15 31 25.0	54.0 N	160.0 E	.000	73.68	14.71			USCGS
		15 43 01	P	VG		73.5				
		15 43 15	PCP	VG,NG						
		15 45 49	PP	VG						
		15 52 31	S	NG						
		15 53 05	SCS	EG						
		15 53 11	/PPS/	EG						
		15 57 15	SS	EG						
		15 57 34	E	NG						
		15 58 09	E	NG						
		16 10,5	L	EG						
		16 14,1	LM	NS						
		16 17,9	M	VG						
139	18	15 58 58.0	54.0 N	161.0 E	.000	73.84	14.11			USCGS
		16 09 15	P	EG						
		16 30,5	LQ	EG						
		16 37,1	LR	EG						
		16 40,3	LM	EG						
140	19	01 37 51.0	06.0 N	082.5 O	.000	83.36	271.37			USCGS
		2 15,2	LQ	NG						
		2 19,9	LR	NG						

141	20	16 42 25.0		32.0 N	040.0 O	.000	37.52	257.21		USCGS
		16 56 09		S	EG,NG					
142	23	14 35 02.0		39.0 N	119.0 O	.000	77.79	318.24		USCGS
		15 12,5		LQ	EG					
		15 17,3		LR	EG					
143	24	07 15 44.0		36.1 N	142.1 E	.000	85.88	33.10		BCIS
		7 28 05		/P/	VG					
144	25	03 12 28.0		36.0 N	071.5 E	.026	49.30	80.29		BCIS
		3 20 31		P	VG,EG					
		3 20 35		E	EG					
		3 20 46		E	NG					
145	25	06 46 55.0		62.0 N	027.5 O	.000	20.67	315.07		USCGS
		6 51 43		P	EG,NG		20.6			
		6 51 59		PP	EG,NG					
		6 52 15		PPP	EG,NG					
		6 57,5		LR	VS,NG					
146	25	13 37 10.0		30.5 N	131.0 E	.000	86.41	43.94		USCGS
		14 27,5		LR	EG					
		14 33,5		LM	EG					
147	25	14 34 57.0		05.0 S	152.0 E	.018	126.87	41.81		USCGS
		15 57,5		LR	NG					
148	26									
		52 45		/PKP/	VG					
		1 52,9		L	EG					

		1 58.6	L	NG						
149	27	19 04 27.0	33.0 S	179.0 O	.010	162.04	9.19			USCGS
		19 24 21	PKP1	VG	.010	163.0				
		19 25 09	PKP2	NG						
		19 28 52	PP	VG						
		19 32 47	PPP	NG						
		19 42 11	E	NG						
		19 42 19	SPP	EG						
		19 49 01	/SS/	EG						
		19 50 11	E	EG						
		19 55 22	PSS	EG						
		20 02,6	LQ	EG						
		20 07,9	LR	NG						
		20 37,6	LM	NG						
150	27	19 11 23.0	42.0 N	080.0 E	.000	50.78	68.79			USCGS
		19 20 29	P	EG		51.0				
		19 27 45	S	EG						
		19 27 56	PPS	EG						
		19 30 11	E	NG						
		19 30 59	E	EG						
		19 35,8	LR	EG,NG						
		19 39,2	LM	NG						
151	28	04 23 28.0	63.5 N	020.0 O	.000	18.20	323.64			USCGS
		4 33,1	LR	EG						
152	28	19 43 22.0	09.5 S	122.5 E	.000	114.89	73.63			USCGS
		20 05 35	PPP			115.0				
		20 09 59	S	EG						
		20 10 35	E	EG						
		20 12 55	/PS/	EG						
		20 18 54	/SS/	NG						
		20 35,2	LQ	NG						
		20 46,2	LR	EG						
153	29	07 16 07.0	07.0 S	155.5 E	.000	130.18	38.84			USCGS
		7 38 45	/PKS/	VG,NG						

		7 39 35	E	NG					
		8 13,1	LQ	EG					
		8 21,5	LR	NG					
154	1	02 27 46.0	28.0 N	139.5 E	.081	92.16	38.62		USCGS
		2 49 41	SKS	EG		92.0			
		2 50 11	SCS	NG					
		2 51 27	SP	EG					
		2 56 35	SSP	NG					
		3 16,4	LQ	EG					
155	2	11 27 45.0	20.0 S	178.5 O	.097	149.20	5.25		USCGS
		11 46 29	PKP2	NG					
156	2	11 34 20.0	20.0 S	178.5 O	.097	149.20	5.25		USCGS
		11 53 05	PKP2	VG					
157	3	17 55 12.0	16.1 S	172.8 E	.000	144.17	19.21		USCGS
		18 14 47	PKP	ES,NS					
		18 15 45	E	EG					
		18 16 33	E	NS					
		18 29 03	PS	NG					
		18 30 53	PPS	NG					
		18 37,5	LQ	EG					
		18 54,9	LR	EG					
		19 06,7	LM	EG,NG					
		19 12,6	M	EG					
158	3	17 55 53.0	16.0 S	173.0 E	.000	144.11	18.85		USCGS
		18 15 27	PKP1	ES,NS					
		18 18 49	E	ES,VG					
		18 18 52	PP	NS					
		18 25 35	/SKKS/	EG,NG					
159	4	07 40 51.0	72.2 N	001.7 E	.000	21.53	357.77		BCIS
		7 51,5	LR	NG					

160	4	15 24	34.0	51.2 N	003.2 E	.000	.84	299.22		BCIS
		15 24	51	PN	EG					
		15 25	18	E	EG					
161	6	09 10	17.0	26.5 S	061.0 O	.089	95.97	235.00		USCGS
		9 22	50	P	VG,EG		96.0			
		9 23	14	E	VG					
		9 25	05	*PP	VG					
		9 31	35	E	NG					
		9 33	15	S	NS,VG					
		9 34	45	SP	EG					
		9 40	09	SS	NG					
162	6	09 23	27.0	26.5 S	061.5 O	.089	96.24	235.36		USCGS
		9 32	27	P	ES,NS					
		9 45	39	SKS	ES,NS		96.0			
		9 46	27	S	ES,NS					
		9 49	25	PS	EG					
		9 50	05	PPS	EG					
		9 53	35	SSP	EG					
		9 56	53	E	EG					
163	9	16 05	18.0	20.5 S	068.0 O	.010	94.99	243.75		USCGS
		16 19	05	*PP	VG,EG	.010	96.0			
		16 19	54	E	NG					
		16 29	05	SKS	VG,NG					
		16 29	41	S	VG					
		16 29	59	E	EG					
		16 31	03	E	EG					
		16 35	58	E	EG					
		16 44,2		LQ	NG					
		16 48,8		LR	EG					
		16 57,5		LM	EG					
164	10	04 11	40.0	19.0 S	069.0 O	.000	94.39	245.41		USCGS
		5 03,6		L	EG,NG					

165	11	03 07 10.0	17.0 S	173.5 E	.000	145.19	18.40		USCGS
		3 25 49	E	VG					
		3 25 59	E	VG					
166	11	12 01 42.0	37.5 S	078.0 E	.000	108.93	126.16		BCIS
		12 07,5	LQ	EG,NG					
		12 15,6	LR	VG,NG					
		12 25,6	LM	NG					
167	11	18 23 00.0	44.5 N	148.5 E	.000	80.19	25.18		USCGS
		19 09,5	LQ	NG					
168	12	00 24 22.0	19.5 S	177.5 O	.057	148.75	3.38		USCGS
		43 29	/PKP/	VG,EG					
169	13	12 28 45.0	52.0 N	172.5 O	.000	77.64	358.01		USCGS
		12 40 45	P	VG,NG					
		12 50 34	S	EG					
		12 54 45	E	EG					
		13 16,1	LQ	EG					
		13 20,2	LR	NG					
		13 24,5	LM	EG					
		13 26,9	M	EG					
170	14	11 33 51.0	57.0 N	158.0 O	.014	71.67	349.93		USCGS
		12 11,3	LQ	NG					
171	14	13 00 24.0	16.5 S	173.0 E	.010	144.60	19.03		USCGS
		13 19 59	/PKP/	VG					
		13 22 35	E	VG					
		13 22 50	E	VG					
		13 23 05	F	VG					

172	14	18 14 51.0	21.0 S	179.0 O	.004	150.16	6.31			USCGS
		18 34 02	E	VG						
173	14	20 25 09.0	39.3 N	020.3 E	.000	16.05	129.60			BCIS
		21 00 38	E	EG,NG						
		22 33,7	L	EG						
174	16	15 17 27.0	50.5 N	177.0 O	.000	79.17	.88			USCGS
		15 29 33	P	VG,EG						
175	16	19 13 59.0	20.7 S	168.2 E	.000	147.36	28.90			BCIS
		19 33 41	PKP	VG						
176	17	13 16 36.0	44.6 N	006.8 E	.000	6.42	164.20			BCIS
		13 20 04	P	VG,EG						
177	18	19 54 57.0	15.5 N	120.5 E	.018	93.68	60.14			USCGS
		20 08 00	P	ES,NS		93.8				
		20 11 49	PP	VG						
		20 12 36	E	VG						
		20 18 20	/SKS/	ES						
		20 18 51	S	ES,NS						
		20 25 22	SS	NG						
		20 31,2	LQ	NG						
		20 39,3	LR	ES						
		20 43,4	LM	EG						
		20 49,5	M	EG						
178	19	03 42 02.0	06.5 S	105.0 E	.000	101.66	85.87			USCGS
		4 35,7	LQ	EG						
		4 45,5	LR	NG						
		4 48,7	LM	EG						

179	19	15 06	10.0	15.0 S	070.5 O	.026	92.12	248.99		USCGS
		15 19	02	P	VG,EG		92.0			
		15 19	52	*PP	EG					
		15 22	46	PP	EG,NG					
		15 23	30	*PPP	VG					
		15 29	14	SKS	ES,NS					
		15 30	56	*SSKS	VG					
		15 30	10	SP	NG					
		15 30	32	PS	ES					
		15 36	11	SS	NG					
		15 37	28	*SSS	NG					
		15 39	32	SSS	NG					
180	20	02 41	04.0	06.0 S	111.0 E	.073	105.06	80.81		USCGS
		3 04	12	/SKS/	EG					
		3 05	28	S	NG					
		3 06	56	SP	EG					
		3 20,7		L	EG					
		3 41,9		L	NG					
181	21	07 43	13.0	14.5 S	167.5 E	.000	141.31	26.70		USCGS
		8 02	44	PKP	VG					
		8 05	49	S	VG					
182	21	09 17	51.0	19.0 N	068.5 O	.000	64.70	269.36		USCGS
		9 48,5		L	NG					
183	21	12 29	09.0	16.0 N	098.0 O	.000	85.33	289.51		USCGS
		12 41	48	P	VG					
		12 52	14	SKS	EG,NG					
		12 56	57	E	EG					
		13 11,5		L	EG					
		13 19,1		L	NG					
184	21	13 03	31.0	16.0 N	098.0 O	.000	85.33	289.51		USCGS
		13 16	11	P	VG					
		13 16	16	PCP	VG					

185	22	11 15 33.0		02.0 N	128.5 E	.000	109.19	61.16		USCGS
		12 17,5		LM	EG					
186	22	19 24 17.0		53.0 N	153.0 E	.097	73.34	19.18		USCGS
		19 34 46		P	VG,EG		73.0			
		19 35 04		PCP	EG					
		19 35 59		E	NG					
		19 43 24		S	NG					
		19 43 56		SCS	EG					
		19 47 20		*SS	EG					
		20 13,6		L	EG					
187	22	23 02 27.0		05.0 S	152.5 E	.000	127.08	41.24		USCGS
		23 21 31		PKP	VG		127.0			
		23 23 30		PP	VG					
		23 24 52		PKS	EG,VG					
		23 28 38		SKS	EG					
		24 00,8		LQ	EG					
		24 04,6		LR	NG					
		24 18,5		LM	VG,EG					
		24 22,1		LM	EG					
188	23	14 56 45.0		24.5 S	176.0 O	.004	153.76	.74		USCGS
		15 16 54		PKP2	VG,NG					
		15 20 30		PP	VG					
		16 12,4		LR	VG					
		16 29,4		MR	VG					
		16 44,5		LM	VG					
189	24	01 23 09.0		41.0 N	125.5 O	.000	78.69	323.65		USCGS
		1 35 26		/PCP/	VG					
		1 37 50		E	VG					
		1 45 10		S	NG					
		1 56,1		LR	EG,NG					
		1 04,7		LM	EG					
		1 07,4		M	EG					

190	24	23 03 08.0	56.5 S	028.5 O	.000	110.24	198.72		USCGS
		24 00,8	LQ	EG					
		24 03,8	LR	NG					
191	25	19 23 54.0	49.5 N	142.5 E	.000	73.94	26.93		USCGS
		20 04,1	L	EG					
192	26	17 07 03.0	40.8 N	027.5 E	.000	18.91	112.97		BCIS
		17 11 26	P	VG,EG					
		17 15 03	S	EG					
		17 18,1	LM	VG,NG					
193	27	1.500 KM à l'W des Iles Galapagos							
		6 15,1	L	EG					
194	31	19 53 02.0	38.5 N	070.0 E	.000	46.81	78.66		USCGS
		20 18,4	LQ	EG					
		20 20,1	LR	NG					
195	2	20 30 02.0	20.0 N	067.0 O	.000	63.01	268.94		BCIS
		21 16,6	LQ	EG					
		21 22,5	LR	NG					
196	4	08 02 17.0	20.5 S	178.0 O	.089	149.72	4.39		USCGS
		8 21 04	PKP	VG					
197	5	05 16 39.0	12.5 N	125.0 E	.000	98.60	58.19		USCGS
		6 11,2	L	NG					
198	6	16 21 17.0	39.8 N	023.2 E	.000	17.17	122.56		BCIS

		16 31.1		LQ		EG,NG					
199	7	10 43	32.0	56.0 N		023.2 E	.000	12.38	57.83		USCGS
		10 54	54	P		VG,EG					
		11 04	16	S		EG					
		11 04	44	E		NG					
		11 18.9		LQ		EG					
		11 25.1		LR		EG					
		11 29.1		LM		NG					
200	7	21 45	26.0	56.5 N		154.0 O	.000	71.66	347.55		USCGS
		21 56	50	P		VG,NG					
		22 06	10	/S/		EG					
		22 20.9		L		EG					
		22 29.0		L		NG					
201	8	00 47	38.0	55.0 N		162.5 E	.000	73.09	12.96		USCGS
		59	28	PCP		VG,NG					
		1 08	36	S		EG					
		1 23.4		LQ		EG					
		1 32.4		LR		EG					
202	9	04 48	30.0	00.0 N		066.0 E	.000	72.40	112.64		BCIS
		5 17,8		LQ		EG					
203	9	20 29	28.0	10.0 S		161.0 E	.010	135.00	33.53		USCGS
		21 25,5		LQ		EG					
		21 37,8		LR		NG					
204	10	00 36	42.0	35.2 N		027.2 E	.000	22.71	124.58		USCGS
		49,6		LR		NG					
205	10	00 36	35.0	55.5 S		146.0 E	.000	156.62	116.63		USCGS

		2 08.6	LR	EG					
		2 11.2	MR	NG					
206	10	23 07 27.0	35.0 N	111.0 E	.000	73.05	55.33		USCGS
		23 46.3	LR	NG					
207	11	21 49 42.0	11.0 S	163.0 E	.000	136.62	31.38		USCGS
		22 55.5	LR	EG					
		23 09.5	MR	EG					
208	11	23 28 04.0	41.2 N	023.0 E	.000	16.08	119.45		BCIS
		23 37 08	E	NG					
		1 15.7	LQ	EG					
		1 20.5	LR	NG					
209	12	04 05 20.0	15.0 S	028.0 E	.000	68.64	155.43		USCGS
		4 40.8	LQ	EG					
		4 48.2	LR	NG					
210	12	09 58 22.0	16.5 S	177.5 O	.000	145.77	3.17		USCGS
		10 18 04	PKP	VG					
		10 45 12	/SSS/	NG					
		11 06.3	LQ	NG					
		11 08.8	LR	EG					
		11 15.5	LM	VG,NG					
		11 21.5	M	EG					
211	13	00 33 11.0	40.0 N	049.0 E	.000	32.69	91.71		BCIS
		45.6	LR	EG					
212	15	08 57 04.0	23.0 N	121.0 E	.000	87.83	55.51		USCGS
		9 09 56	P	VG,EG		88.0			

		9 13 26	PP	EG						
		9 20 22	SKS	NS,ES						
		9 20 48	E	NS						
		9 21 46	PS	VS,NG						
		9 26 32	SS	NG						
		9 41,0	LM	ES						
		9 44,1	M	VG						
213	15	13 14 26.0	21.0 S	174.0 O	.000	150.25	356.91			USCGS
		14 42,8	L	EG						
		14 46,1	L	NG						
214	17	21 04 40.0	07.5 S	156.0 E	.000	130.83	38.50			USCGS
		21 23 58	PKP	VG,EG		131.0				
		21 26 14	PP	VG,EG						
		21 27 26	PKS	NG						
		21 38 02	PPS	EG						
		21 43 34	SS	EG						
		21 44 03	SSP	EG						
		22 03,5	LM	EG,NG						
		22 08,6	LM	NS,ES						
		22 11,9	M	VG,NG						
215	18	00 34 03.0	22.5 N	122.0 E	.026	88.77	55.03			USCGS
		46 38	P	VG						
		1 21,1	L	NG						
216	18	06 37 15.0	44.6 N	111.0 O	.000	69.77	316.51			USCGS
		6 48 26	P	VS,ES		70.0				
		6 48 44	E	VS,ES						
		6 51 08	PP	EG						
		6 52 56	E	VS,EG						
		6 57 42	S	NS,VG						
		6 58 08	PS	VG						
		6 58 18	PPS	EG						
		7 02 08	E	VS						
		7 02 46	E	NS						
		7 10,3	LR	VS,NS						
		7 16,9	LM	VS						

217	18	11 03 52.0	44.8 N	111.0 O	.000	69.61	316.64		USCGS
		11 33.6	LQ	EG					
		11 42.9	LR	EG					
218	18	15 26 06.5	44.5 N	110.4 O	.000	69.59	316.08		USCGS
		15 37 16	P	VG,NG					
		15 46 26	S	EG					
		15 47 10	PPS	NG					
		15 50 58	SS	NG					
		15 59.3	LQ	ES,NS					
		16 03.3	LM	NS					
219	18	22 04 00.0	41.0 N	019.5 E	.000	14.37	127.17		BCIS
		22 11.8	LR	VG					
220	19	04 04 03.0	44.5 N	111.4 O	.000	70.02	316.69		USCGS
		4 24 24	S	EG					
		4 28 46	E	EG					
		4 37.1	LQ	EG					
		4 42.8	LR	NG					
		4 45.6	LM	EG					
221	19	07 08 28.0	21.5 N	121.0 E	.000	89.06	56.36		USCGS
		8 56.6	L	NG					
222	21	08 03 15.0	50.5 S	139.5 E	.000	151.76	107.09		USCGS
		9 23 14	/PKP/	VG					
		9 25 53	E	VG					
		9 20.1	L	EG					
		9 23.7	L	NG					
		9 32.6	L	EG					
223	21	09 37 49.0	50.5 S	140.0 E	.000	152.06	106.88		USCGS
		9 57 54	PKP2	VG					

		11 00.8	L	EG					
224	22	21 28 02.0	17.5 S	069.5 O	.000	93.50	246.71		USCGS
		21 43 28	E	VG					
225	23	22 21 30.0	35.5 N	003.0 O	.000	16.19	202.01		USCGS
		22 25 17	P	EG		16.0			
		22 28 28	S	EG					
		22 28 36	SS	EG					
		22 30.0	LR	NS					
		22 32.0	LM	NS					
226	24	00 33 56.0	35.5 N	003.0 O	.000	16.19	202.01		BCIS
		1 42.8	L	EG					
227	24	15 41 40.0	10.5 S	161.5 E	.000	135.64	33.13		USCGS
		16 50.7	L	NG					
228	24	21 30 46.0	10.5 S	161.0 E	.000	135.47	33.78		USCGS
		21 50 18	/PKP/	VG.EG		135.0			
		21 52 52	PP	VG.EG					
		21 53 49	PKS	NG					
		22 11 09	SS	NG					
		22 16 06	SSS	EG					
		22 17 36	E	NG					
		22 26.4	L	EG					
		22 30.5	L	EG					
		22 39.9	LM	ES.NS					
		22 45.7	M	VS					
229	25	11 57 52.0	41.0 N	020.0 E	.000	14.62	126.05		BCIS
		12 06.3	LQ	EG.NG					
230	25	12 24 18.0	27.5 S	071.0 O	.000	102.16	241.58		USCGS

		13 26,6		LQ	NG					
		13 29,1		LR	EG					
231	25	13 40	06.0	60.5 S	155.0 E	.000	160.88	131.94		USCGS
		14 29,5		L	EG					
232	26	02 29	37.0	05.0 S	152.0 E	.000	126.93	41.85		USCGS
		2 49	06	E	VG					
233	26	08 25	30.0	18.0 N	094.5 O	.000	81.69	288.15		USCGS
		8 37	50	P	VG,EG		82.0			
		8 42	52	PP	EG					
		8 47	59	S	VG,EG					
		8 48	50	/PS/	VG					
		8 49	16	PPS	EG					
		8 53	02	E	NG					
		8 53	23	SS	EG					
		8 59,5		LQ	NG					
		9 06,9		LR	ES					
		9 11,6		LM	ES					
234	26	10 27	41.0	51.0 N	132.0 O	.000	72.09	332.71		USCGS
		10 39	07	P	VG		72.0			
		10 48	30	S	NG					
		10 50	03	PS	EG,NG					
		10 53	11	SS	NG					
		10 54	06	E	EG					
		10 56	32	/SSS/	NG					
		10 57,6		LQ	NG					
		11 02,1		LR	ES,EG					
		11 07,0		LM	EG					
235	27	13 36	50.0	45.0 S	080.5 O	.000	120.17	234.92		USCGS
		14 40,0		L	EG					
		14 43,2		L	EG					
236	28	23 53	10.0	25.0 N	096.0 E	.000	72.04	72.45		USCGS

			31,8		L		NG				
237	28	02	37	00.0	09.0	S	158.0 E	.018	132.98	36.84	USCGS
			32,3		L		EG				
238	28	15	52	10.0	17.0	S	167.0 E	.000	143.52	28.70	USCGS
			16	11 49	PKP		VG				
239	30	14	39	24.0	53.0	N	106.8 E	.000	57.83	44.23	BCIS
			15	17,0	L		EG				
240	30	21	45	07.0	36.5	S	078.5 E	.000	108.43	125.16	USCGS
			22	44,7	L		NG				
241	30	22	57	00.0	37.0	N	068.5 E	.000	46.79	81.29	USCGS
			23	18,5	L		EG				
			23	21,6	L		NG				
242	30	23	36	42.0	53.0	N	106.0 E	.000	57.48	44.62	USCGS
			24	07,9	L		NG				
243	1	07	28	23.0	54.0	N	035.5 O	.000	24.32	293.17	BCIS
			7	33 42	P		VG,EG				
			7	38 05	S		VG,EG				
			7	39,9	L		EG				
244	1	10	49	43.0	20.0	N	064.5 O	.000	61.42	266.97	USCGS
			11	08 34	/S/		VG,EG				

245	1	11 37 40.0	41.0 N	019.6 E	.000	14.42	126.95		BCIS
		11 41 11	P	VG,EG		14.5			
		11 41 20	PP	VG					
		11 41 23	PPP	EG					
		11 44 15	SSS	NG					
		11 45,6	M	NS,EG					
246	3	04 02 00.0	41.0 N	020.0 O	.000	19.50	249.27		USCGS
		4 10,5	LR	EG,NG					
247	3	06 27 33.0	04.5 S	122.5 E	.000	110.96	70.35		USCGS
		6 46 35	E	EG					
		6 56 09	/PS/	EG					
		7 24,9	LQ	NG					
		7 34,7	LR	EG					
248	4	08 36 53.0	48.2 N	007.4 E	.000	3.27	141.53		BCIS
		8 38 09	E	EG,NG					
249	4	18 26 41.0	01.0 S	024.0 O	.000	56.92	214.50		USCGS
		18 44 29	S	NG					
		18 48,6	L	NG					
		18 52,1	L	EG					
250	5	23 22 56.0	57.0 S	075.0 O	.000	125.54	221.44		USCGS
		56,7	LR	EG					
251	5	06 07 38.0	01.0 N	129.0 E	.000	110.29	61.31		USCGS
		7 02,8	LR	NG					
252	5	15 34 44.0	01.0 N	129.0 E	.000	110.29	61.31		USCGS
		16 30,6	LR	NG					

253	5	21 53 22.0		51.0 N	179.5 E	.000	78.59	3.13		USCGS
		22 16.5		LR	EG					
		22 21.8		MR	NG					
254	6	00 27 59.0		05.5 N	126.5 E	.000	105.19	60.87		USCGS
		1 22.5		LR	EG					
255	7	11 17 48.0		54.0 N	105.5 E	.000	56.58	43.97		BCIS
		11 32 48		E	VG					
256	7	13 12 08.0		54.5 S	022.0 E	.000	105.87	169.41		BCIS
		14 04.6		L	EG					
257	7	16 05 33.0		31.4 N	132.0 E	.000	86.07	42.75		USCGS
		16 58.9		L	EG,NG					
258	7	19 19 39.0		42.5 N	142.5 E	.010	80.25	30.06		USCGS
		19 59.6		L	EG					
259	7	20 18 37.0		58.5 S	024.5 O	.000	111.37	195.80		USCGS
		21 04 31		L	VG					
260	11	12 31 01.0		43.0 N	029.0 O	.000	23.93	264.01		BCIS
		12 36 22		P	EG					
		12 40 35		S	VG,NG					
		12 42.5		LQ	NG					
261	11	14 18 07.0		43.0 N	029.0 O	.000	23.93	264.01		USCGS

		14 23 27		P		VG,EG				
		14 27 45		S		VG,EG				
		14 28,6		LQ		NG				
262	12	01 53 47.0		03.0 S		146.5 E	.000	122.70	46.76	USCGS
		2 14 45		E		EG				
		2 31,5		L		EG				
		2 49,5		L		EG				
		2 53,6		L		EG				
		3 04,6		L		EG				
263	12	07 01 45.0		03.0 S		146.5 E	.000	122.70	46.76	USCGS
		8 01,6		LQ		EG				
		8 12,7		LR		EG,NG				
264	12	11 24 27.0		09.5 S		156.0 E	.000	132.64	39.58	USCGS
		11 44 41		E		NG				
		11 47 14		PKS		VG				
		11 49 02		PPP		EG				
		12 21,6		L		EG				
		12 29,5		L		EG				
		12 42,5		L		EG				
265	12	21 20 00.0		36.5 N		070.5 E	.029	48.36	80.45	BCIS
		21 28 27		P		VG				
		21 39,5		L		EG				
266	13	19 15 52.0		39.5 N		014.5 E	.000	13.36	143.87	USCGS
		19 24 47		P		VG				
267	14	14 09 39.0		28.5 S		177.0 O	.000	157.71	3.16	USCGS
		14 29 41		/PKP1/		VS,VG		157.7		
		14 30 03		E		NG				
		14 30 13		PKP2		VS,VG				
		14 30 45		E		VG				

		14 33 55		E	NG					
		14 34 25		E	VG					
		14 36 47		SKS	EG					
		14 37 03		E	NG					
		14 40 35		SKKS	EG					
		14 47 13		PPS	EG					
		14 54 31		SSP	VG					
		15 00 11		/SSS/	NG					
		15 31,9		LR	ES					
		15 43,1		LM	ES					
268	14	17 06 15.0	29.0 S	176.5 O	.000	158.22	2.03			USCGS
		17 26 15		PKP	VG					
		17 26 45		E	VG					
		17 27 00		E	VG					
		17 30 27		PP	VG					
		18 30,5		LQ	EG					
		18 32,7		LR	EG					
		18 40,5		LM	VG,EG					
269	14	17 22 28.0	46.0 N	151.5 E	.000	79.56	22.62			USCGS
		17 34 51		/PCP/	VG					
270	14	22 23 53.0	29.0 S	177.0 O	.000	158.21	3.21			USCGS
		23 14,1		L	EG					
		23 41,1		L	NG					
		23 49,7		L	NG					
271	15	05 59 42.0	28.5 S	177.0 O	.000	157.71	3.16			USCGS
		6 19 41		PKP1	VG	157.7				
		6 20 14		PKP2	VG					
		6 23 53		PP	VG					
		6 26 49		SKS	EG,NG					
		6 33 59		E	NG					
		6 37 07		PPS	EG,NG					
		6 43 49		SS	EG					
		6 45 25		E	NG					
		6 49 44		SSS	NG					
		6 51 55		E	NG					
		7 22,9		L	VS					
		7 25,4		L	ES					

272	16	10 07 45.0	29.0 S	176.5 O	.000	158.22	2.03		USCGS
		11 40,4	L	EG					
		11 47,9	L	EG					
273	16	15 57 03,0	28.5 S	176.0 O	.000	157.73	.83		USCGS
		16 17 35	PKP2	VG					
		17 13,9	L	EG					
		17 22,8	L	NG					
274	17	14 36 11.0	28.5 S	176.0 O	.000	157.73	.83		USCGS
		14 56 43	PKP2	VG					
		16 02,4	L	EG,NG					
		16 10,4	L	NG					
		16 13,3	L	EG					
275	17	21 49 02.0	35.5 N	003.0 O	.000	16.19	202.01		BCIS
		21 58,1	L	EG					
276	17	22 14 40.0	30.5 N	114.0 O	.000	82.56	310.00		USCGS
		23 03,7	L	NG					
277	18	02 05 00.0	35.5 N	003.0 O	.000	16.19	202.01		BCIS
		2 13,8	L	EG					
278	18	12 01 11.0	57.5 S	024.0 O	.000	110.34	195.88		USCGS
		12 46,7	L	EG					
		12 54,6	L	EG					
		12 59,5	L	NG					
279	19	15 43 54.0	00.0 N	029.8 E	.000	54.99	148.39		BCIS

		16 03,4		L		EG				
280	20	06 07	59.0	13.5	S	111.5 O	.000	116.56	281.66	USCGS
		7 00,8		L		EG,NG				
		7 06,5		L		EG				
		7 14,8		L		EG				
281	21	02 08	28.0	09.5	S	149.0 E	.000	129.56	47.80	USCGS
		3 14,5		L		EG,NG				
		3 20,3		L		EG				
		3 26,5		L		EG				
282	22	22 23	11.0	35.5	N	138.5 E	.000	85.12	36.00	USCGS
		23 03,0		L		EG				
		23 05,5		L		NG				
		23 08,8		L		EG				
		23 17,0		L		NG				
283	24	05 43	38.0	83.5	N	112.5 E	.000	41.87	9.35	USCGS
		6 19,4		L		EG				
284	25	02 36	48.0	22.0	N	122.0 E	.000	89.18	55.31	USCGS
		2 49	45	P		VG,EG		89.2		
		2 53	16	PP		EG,NG				
		3 00	26	S		NS				
		3 01	25	E		EG				
		3 01	31	PS		VG				
		3 01	59	/PPS/		EG				
		3 07	23	E		EG				
		3 12	34	E		NG				
		3 18,8		L		EG				
		3 23,9		LM		ES				
		3 33,9		M		ES				
285	28	04 20	27.0	26.5	N	128.0 E	.000	88.43	48.27	USCGS
		5 08,1		L		EG				

		5 17,6	L	EG					
286	29	15 31 57.0	29.0 S	176.5 O	.000	158.22	2.03		USCGS
		16 16 15	SS	EG					
		16 56,0	L	NG					
		16 59,0	L	EG					
		17 06,1	L	NG					
		17 12,5	L	EG					
287	30	16 57 37.0	36.0 N	003.3 O	.000	15.79	203.40		USCGS
		17 06,5	L	EG					
288	30	20 25 58.0	18.0 S	168.0 E	.000	144.76	27.69		USCGS
		21 38,7	L	EG					
		21 47,5	L	NG					
289	5	18 27 47.0	83.5 N	112.5 E	.000	41.87	9.35		USCGS
		18 35 41	P	NS		42.5			
		18 37 32	PP	NG					
		18 42 01	S	EG,NG					
		18 45 02	SS	NG					
		18 48,0	L	NG					
		18 52,0	M	NG					
		19 28,0	F	NG					
290	5	20 34 06.0	41.0 N	019.5 E	.000	14.37	127.17		BCIS
		20 37 35	P	NS		14.7			
		20 40 21	S	NG					
		20 40 38	SS	VG,EG					
		20 41,0	LQ	EG,NG					
		20 42,5	LR	VG,EG					
		20 43,6	M	EG,NG					
		21 03,0	F	EG,NG					
291	7	08 30 41.0	41.0 N	019.7 E	.000	14.47	126.72		BCIS
		8 34 16	P	ES,NS		14.7			

		8	34	27	PP	NG				
		8	36	58	S	NS,VG				
		8	36	11	SS	NS,VG				
		8	38,1		L	VS,ES				
		8	39,3		M	VS,ES				
		9	09,3		F	NG				
292	8	00	03	28.0	19.0 S	169.0 E	.000	146.00	26.63	USCGS
			23	13	PKP	VS,ES				
			23	30	E	VG,EG				
293	8	07	20	51.0	41.0 N	019.5 E	.000	14.37	127.17	BCIS
			7	29,0	L	EG,NG				
294	12	03	21	52.0	02.0 N	098.5 E	.000	91.03	85.54	USCGS
			3	35	01	P	NG			
			3	38	31	PP	NS			
			3	45	52	S	NG			
			4	04,0		LM	VG			
295	15	06	15	32.0	00.5 N	120.5 E	.000	105.79	68.92	USCGS
			6	29	49	IP	ES,NS		106.5	
			6	34	18	IPP	ES,NS			
			6	36	32	PPP	VG,EG			
			6	38	21	PPPP	VG			
			6	40	28	SKS	NG			
			6	41	15	SKKS	EG			
			6	41	53	S	NG			
			6	43	33	PS	VG			
			6	44	30	PPS	EG			
			6	49	13	SS	NG			
			6	53	08	SSS	EG			
			7	01,0		L	NG			
296	15	07	40	20.0	44.0 N	148.0 E	.000	80.51	25.71	USCGS
			27	52	40	PCP	VS,VG			

297	19	02 46	49.0	44.5 N	148.0 E	.000	80.05	25.52		USCGS
		2 59	04	PCP	ES					
298	19	15 55	30.0	54.5 N	029.0 O	.000	20.47	293.42		USCGS
		16 14	23	PP	VG,NG					
		16 20	30	SKS	EG					
		16 23	43	PS	EG					
		16 24	42	PPS	EG					
		16 29	31	SS	NG					
		16 33	36	SSS	NG					
		16 36	06	E	EG					
		16 47,5		L	EG,NG					
		16 51,0		M	EG					
299	24	23 40	37.0	41.8 N	698.0 E	.000	74.33	41.92		USCGS
		23 48	53	P	VG		45.4			
		23 50	39	PP	EG					
		23 55	32	S	VG,EG					
		23 58	46	SS	EG					
		2,5		L	EG,NG					
		7,5		M	NG					
300	25	06 51	18.0	45.0 N	028.5 O	.000	22.66	268.01		BCIS
		6 56	28	P	ES		23.0			
		6 56	38	E	NG					
		7 00	34	S	EG					
		7 02,0		L	EG,NG					
		7 02,5		M	EG					
301	25	15 57	52.0	39.4 N	041.6 E	.000	28.36	99.15		BCIS
		16 03	48	P	ES,NS					
302	26	07 35	12.0	37.5 N	142.5 E	.004	84.75	32.21		USCGS
		7 47	46	IP	ES,NS	.000	85.1			
		7 47	54	PCP	NS,VG					
		7 48	10	I*PP	NS,VG					
		7 50	59	PP	EG					

		7 52 56	PPP	EG						
		7 58 10	S	NS,NG						
		7 58 26	*SS	NG						
		7 59 04	PS	VG						
		8 09,7	LQ	EG						
		8 13,6	LR	NG						
		8 20,5	IM	NG						
303	27	06 52 50.0	45.5 N	151.0 E	.010	79.91	23.14			USCGS
		7 04 51	IP	VS,ES	.010	79.7				
		7 05 02	PCP	NG						
		7 05 16	*PP	NG						
		7 05 30	*SP	NG						
		7 07 54	PP	EG,NG						
		7 14 36	S	EG,NG						
		7 15 36	PS	EG,NG						
		7 19 46	SS	VG						
		7 28,0	L	EG						
		7 37,5	M	VS,ES						
304	29	14 30 24.0	43.0 N	131.0 E	.081	75.74	37.41			USCGS
		14 41 17	P	VG,EG		75.5				
		14 43 13	*PP	NG						
		14 50 11	S	VG,EG						
		14 50 36	SCS	VG						
		15 45,0	M	VG,NG						
305	30	04 00 26.0	66.0 N	136.5 E	.000	57.99	20.97			USCGS
		4 10 24	P	ES,NS						
306	30	07 04 48.0	19.0 S	177.5 O	.065	148.26	3.34			USCGS
		7 23 59	/PKP/	VG						
307	30	21 37 35.0	19.0 S	177.5 O	.089	148.26	3.34			USCGS
		21 56 01	/PKP/	ES						
		21 56 13	PKP1	VG						

308	31	04 27 12.0	16.5 S	178.0 O	.065	145.75	4.02		USCGS
		4 46 06	IPKP1	VG					
		4 47 51	*PPKP	VG					
309	2	20 03 32.0	05.5 S	151.5 E	.004	127.16	42.68		USCGS
		21 09,0	L	NG					
310	3	09 40 05.0	10.5 S	111.0 E	.000	108.50	83.78		USCGS
		9 56 45	E	VG					
		10 00 07	PP	VG					
		10 40,0	M	EG,NG					
311	5	11 50 17.0	13.0 S	166.5 E	.010	139.60	27.46		USCGS
		13 03,0	M	EG,NG					
		13 11,0	M	EG					
312	5	17 38 08.0	09.0 S	157.5 E	.000	132.79	37.46		USCGS
		18 45,0	L	EG					
313	6	01 07 31.0	09.0 S	157.5 E	.000	132.79	37.46		USCGS
		2 14,0	L	EG					
314	6	07 37 08.0	41.7 N	021.2 E	.000	14.75	121.58		BCIS
		7 40 49	P	VS,ES		15.0			
		7 43 36	S	NS					
		7 44,8	L	EG,NG					
		7 45,3	M	NG					
		7 51,0	F	EG,NG					
315	6	11 43 06.0	24.0 S	174.5 O	.000	153.25	357.68		USCGS
		13 03 09	PKP1	VG					

		13 03 30	PKP2	VG						
		13 11.0	L	EG.NG						
316	7	02 32 08.0	36.1 N	002.5 E	.000	14.75	185.92			BCIS
		2 35 38	P	VS.ES		14.5				
		2 38 18	S	EG						
		2 39.0	L	EG						
		2 40.3	M	EG						
317	7	22 16 15.0	23.5 S	175.5 O	.000	152.76	359.72			USCGS
		22 36 13	PKP1	VG						
		22 36 35	E	VG						
		22 40 01	/PP/	VG						
		22 48.0	M	EG						
318	8	13 54 55.0	44.0 N	140.5 E	.000	78.25	30.72			USCGS
		14 07 00	P	VG		78.0				
		14 07 24	E	ES.VG						
		14 16 56	S	EG						
		14 32.0	L	EG.NG						
		14 41.0	M	EG.NG						
319	10	20 56 12.0	36.0 N	089.0 E	.000	59.99	68.82			BCIS
		21 22.5	L	NG						
		21 29.5	M	EG.NG						
320	15	10 25 03.0	38.0 N	074.5 E	.000	49.91	76.26			USCGS
		10 34 08	P	NG		50.2				
		10 41 20	S	NG						
		10 49.5	L	NG						
		10 54.0	M	NG						
321	15	17 08 41.0	37.8 N	020.5 E	.000	17.34	132.35			BCIS
		17 12 50	P	VG		17.2				
		17 12 57	IP	ES.NS						

		17 13 05	IPP	ES,NS						
		17 13 14	IPPP	ES,EG						
		17 13 20	IPPPP	NS						
		17 16 02	IS	NG						
		17 16 26	SS	ES						
		17 16 37	SSS	ES						
		17 16,1	IL	NG						
		17 18,0	IM	NS,EG						
322	16	10 21 17.0	01.0 N	026.5 O	.000	56.03	218.17			USCGS
		10 31 00	P	VS,VG		56.0				
		10 31 08	E	VG						
		10 31 16	E	VG						
		10 38 50	S	EG,NG						
		10 39 00	PS	EG						
		10 43,0	L	NG						
		10 46,0	M	NG						
		10 51,5	M	NG						
323	19	11 08 41.0	05.5 S	146.0 E	.010	124.65	48.69			USCGS
		11 27 31	PKP	NG		125.0				
		11 29 29	PP	VG						
		11 30 27	E	NS						
		11 32 09	PPP	NS						
		11 39 28	PS	NG						
		11 40 58	PPS	EG,NG						
		11 46 22	SS	EG,NG						
		11 51 04	SSS	EG						
		12 05,0	LQ	EG,NG						
		12 10,0	LM	EG,NG						
324	19	14 00 26.0	38.8 N	026.5 E	.000	19.68	119.01			BCIS
		14 05 01	P	ES,VG		20.0				
		14 05 21	E	VS,NG						
		14 08 40	S	VG,EG						
		14 11,7	LM	EG						
325	22	16 26 34.0	54.0 S	136.0 O	.000	155.71	246.87			USCGS
		16 46 21	PKP	VS						
		17 44,0	L	EG						

326	22	19	34	35.0	21.5 S	178.5 O	.081	150.69	5.44	USCGS
		19	53	31	IPKP1	VS		150.0		
		19	53	38	PKP	VS,ES				
		19	53	49	PKP2	ES,VS				
		19	55	31	E	NS				
327	23	16	14	47.0	20.0 S	174.5 E	.000	148.30	17.84	USCGS
		16	34	29	PKP	VS,ES				
328	24	20	06	33.0	07.0 N	036.5 O	.000	55.21	232.22	BCIS
		20	30,0		LM	EG,NG				
329	26	07	06	19.0	05.5 S	102.5 E	.000	99.31	87.18	USCGS
		7	33,0		L	EG				
		7	48,0		M	EG				
		8	01,0		M	NG				
330	26	23	09	23.0	05.5 S	103.0 E	.000	99.63	86.79	USCGS
		23	34	40	S	EG,NG				
		23	36	23	PS	EG				
		23	36	46	E	EG				
		23	57,0		L	EG,NG				
		24	05,0		M	EG,NG				
		24	11,0		M	EG,NG				
331	27	00	22	04.0	37.8 N	020.1 E	.000	17.15	133.22	BCIS
			26	34	P	VS,ES		18.0		
			26	48	PP	ES,NS				
			29	58	S	NS				
			31,3		L	NS				
			33,0		M	NS				
332	27	00	26	13.0	37.8 N	020.1 E	.000	17.15	133.22	BCIS
			30	14	P	ES,NS				

		30 20	E	VG,EG						
		30 23	/*PP/	VS						
		31 14	E	NS,VG						
333	28	02 45 45.0	19.5 S	174.5 E	.000	147.81	17.65			USCGS
		3 05 42	PKP1	VS						
		3 05 50	E	NS						
		3 06 02	E	VG						
		4 06,0	L	EG						
		4 17,0	M	EG						
334	28	12 34 53.0	28.5 S	071.0 O	.000	102.93	240.94			USCGS
		13 25,0	L	EG,NG						
		13 30,0	M	EG						
335	30	11 12 53.0	44.5 N	080.5 E	.000	49.58	65.90			USCGS
		11 39,0	L	EG,NG						
		11 40,0	M	NG						
336	1	12 38 49.0	38.0 N	020.1 E	.000	16.99	132.82			BCIS
		12 42 53	P	VS,ES		17.5				
		12 43 05	E	ES,NS						
		12 43 16	E	NS						
		12 46 03	S	ES,NS						
		12 46 27	L	NG						
		12 49,0	LM	EG,NG						
337	1	14 59 40.0	63.0 S	154.0 E	.000	159.58	138.45			USCGS
		16 20,0	LM	EG						
338	2	09 34 00.0	01.0 S	123.0 E	.000	108.47	67.73			USCGS
		9 53 04	PP	EG		109.0				
		9 53 23	F	VG						
		9 55 23	PPP	VG						
		9 59 08	SKS	EG						

		10 00 33	S	EG						
		10 02 24	PS	EG						
		10 03 29	PPS	NG						
		10 08 20	SS	EG						
		10 25,0	L	EG,NG						
339	2	18 20 05.0	44.7 N	015.4 E	.000	9.61	125.13			BCIS
		18 22 33	PN	VG		9.8				
		18 22 43	PPP	VG						
		18 23 17	E	NS,EG						
		18 23 45	E	VE						
		18 24 16	SN	ES,VG						
		18 25 03	S*	NS						
		18 25 28	SG	ES						
340	11	01 38 33.0	23.0 S	175.0 O	.000	152.26	358.73			USCGS
		3 05,0	LM	EG						
341	12	20 00 05.0	35.8 N	000.6 O	.000	15.41	195.33			BCIS
		20 08,0	L	EG%NG						
		20 08,5	M	EG						
342	14	22 00 50.0	52.5 N	168.0 E	.000	76.24	10.22			USCGS
		22 12 39	P	NG		76.5				
		22 12 53	PCP	NG						
		22 15 42	PP	NS,EG						
		22 22 52	SKS	EG						
		22 22 59	SCS	EG,NG						
		22 23 05	PS	NG						
		22 23 13	E	NG						
		22 23 23	PPS	EG						
		22 30 46	SSS	EG						
		22 36,0	L	EG						
		22 52,0	M	EG,NG						
343	14	23 21 56.0	59.5 S	031.0 O	.000	113.53	198.80			USCGS
		23 36 40	/P/	NS		116.0				
		23 40 40	PKP	VS						

		23 41 27	/PP/	NS						
		23 41 45	E	NG						
		23 42 13	E	EG						
		23 44 13	PPP	EG,NG						
		23 47 32	SKS	EG						
		23 48 40	SKKS	EG						
		23 48 50	SKKKS	NG						
		23 49 23	E	EG						
		23 51 24	IPS	EG						
		23 52 13	E	NG						
		23 52 29	/PPS/	EG						
		23 57 03	/SS/	NG						
		24 10,0	L	EG						
		24 19,0	M	EG						
		24 22,0	M	EG						
344	15	12 15 48.0	59.0 S	024.0 O	.000	111.76	195.36			USCGS
		13 15,0	M	NG						
345	15	23 01 55.0	44.5 N	011.1 E	.000	7.77	141.59			BCIS
		23 04 00	PN	NS,VG		8.1				
		23 04 18	P*	VG						
		23 04 32	E	NS						
		23 04 45	E	NS						
		23 05 34	SN	ES%NS						
		23 06 05	S*	NS,VG						
		23 06 25	E	NS,VG						
346	18	16 24 50.0	53.0 N	168.5 O	.000	76.49	355.57			USCGS
		16 36 45	P	VG,NG						
		16 37 57	PCP	VG,NG						
		17 07,0	L	EG						
347	19	15 07 00.0	27.5 N	112.5 O	.000	84.27	307.21			USCGS
		15 50,0	M	NG						
348	21	11 19 13.0	13.5 N	052.0 E	.000	53.44	116.56			BCIS
		11 28 35	IP	ES		52.6				

		11 28 43	I	NG						
		11 28 58	I	ES						
		11 28 45	PCP	ES						
		11 28 33	PP	VG,NG						
		11 28 40	PPP	EG						
		11 36 03	IS	ES,NG						
		11 36 08	IPS	ES						
		11 36 17	E	ES						
		11 39 38	SS	EG						
		11 41 25	SSS	EG,NG						
		11 42,0	L	NS						
		11 52,5	M	NS						
349	22	00 09 38.0	13.5 N	052.0 E	.000	53.44	116.56			BCIS
		19 02	P	NS						
		19 13	E	ES,NS						
350	22	17 20 19.0	37.5 N	141.5 E	.000	84.41	32.93			USCGS
		17 32 45	P	NS						
		17 32 53	/PCP/	ES,VG						
351	23	03 49 00.0	52.5 N	158.0 O	.000	76.09	348.99			USCGS
		4 00 30	P	VG						
352	23	09 29 02.0	37.8 N	014.7 E	.010	14.93	146.51			BCIS
		9 32 31	P	NS						
		9 32 36	E	VS						
		9 34 39	E	VS,ES						
353	26	22 02 35.0	53.0 N	160.0 E	.000	74.64	14.99			USCGS
		22 14 21	P	ES,NS						
		22 14 28	E	ES						
354	27	11 54 48.0	52.5 N	160.0 E	.000	75.13	15.13			USCGS
		12 06 33	P	NS						

355	27	15	52	55.0	56.0 N	162.5 E	.000	72.12	12.70	USCGS
		16	04	23	IP	VS,ES		72.0		
		16	04	41	IPCP	EG,NG				
		16	07	01	PP	NG				
		16	08	46	PPP	NG				
		16	13	42	IS	EG				
		16	14	17	IPS	NG				
		16	14	25	IPPS	EG				
		16	14	32	E	EG				
		16	18	25	ISS	NS				
		16	21	33	SSS	EG,NG				
		16	22,0		L	EG				
		16	27,5		M	EG				
		16	34,5		M	EG				
356	28	07	20	32.0	52.5 N	160.0 E	.000	75.13	15.13	USCGS
		7	32	21	P	ES,NS		76.0		
		7	32	27	E	NS				
		7	32	33	PCP	NG				
		7	32	45	E	NS,NG				
		7	42	04	S	EG				
		7	42	15	I	NG				
		7	42	30	SKS	EG				
		7	42	35	SCS	NG				
		7	42	44	PS	NG				
		7	46	57	SS	EG				
		7	50	14	SSS	EG				
		7	57,0		L	EG				
		8	02,0		M	EG				
		8	08,0		M	NG				
357	28	13	04	30.0	52.5 N	160.0 E	.000	75.13	15.13	USCGS
		13	16	17	P	NS,VG				
		13	48,0		L	EG,NG				
358	29	17	14	40.0	21.5 S	174.0 O	.000	150.75	356.87	USCGS
		17	34	56	E	NS,VG				
359	29	20	35	08.0	18.0 N	145.0 E	.050	103.31	38.32	USCGS

		20 52 59	PP	ES,NS						
360	31	20 52 57.0	37.9 N	025.2 O	.000	24.57	249.80			BCIS
		20 58 26	P	ES						
		21 05.0	LM	NG						