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OBSERVATOIRE ROYAL DE BELGIQUE  
KONINKLIJKE STERRENWACHT VAN BELGIE

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BULLETIN D'OBSERVATIONS : SEISMOLOGIE

WAARNEMINGSBERICHTEN : SEISMOLOGIE

# BULLETIN SEISMIQUE

Station:Uccle

ANNEE 1963

Section - Géodynamique  
Sectie - Géodynamica

Novembre 1970

# OBSERVATOIRE ROYAL DE BELGIQUE

## BULLETIN SEISMIQUE

Année 1963

### 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 1963, les séismographes ont fonctionné sans interruptions

*Constantes approximatives des séismographes Galitzine :*

E-W	T <sub>1</sub> = 24°,5	l = 123,8 mm	A <sub>1</sub> = 1040 mm
	T = 21°,8	μ = + 0,2	k = 38
N-S	T <sub>1</sub> = 24°,5	l = 124,7 mm	A <sub>1</sub> = 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<sub>1</sub> = 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 1963, la température a varié entre 15,3° et 17,8°C et le degré d'humidité a été maintenu à 60 %.

*Analyse des séismogrammes et bulletins.* - En 1963, 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.

**EXEMPLE EXPLICATIF DES TABLEAUX**

STATION ANNEE		MOIS							
N°		HEURE ORIGINE	$\phi$	$\lambda$	h	$\Delta_e$	$a_e$	M	CENTRE INTERNATIONAL (1)
		HEURES	PHASES	COMPOSANTES	$h_o$	$\Delta_o$	$a_o$	T	REMARQUES $A_\mu$ (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**

- $\Delta_o$  : distance observée (exprimée au 0,1 de degré).  
 $\Delta_e$  : 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 microsismique  
 AG.ATM agitation atmosphérique  
 MBT : mauvaise base de temps  
 COM : compression  
 DIL : dilatation  
 h=0 ■ foyer superficiel  
 h=0,00 ■ profondeur 33 km.

1	01	19 35 55.1 20 45,5	40.2 S LM	081.3 O NG	.000	117.39	239.30		USCGS
2	01	23 39 05.6 23 50 26 23 59 40 24 00 06 24 10,1	56.6 N IP S SP L	157.7 O VG NG NG EG	.004	72.03 72.0	349.68	6.5	USCGS
3	02	14 43 06.0 15 57,6	03.4 N LM	122.9 E EG	.090	104.82	65.13		USCGS
4	03	03 05 03.3 3 49,6 3 55,4	29.7 N LQ LR	130.1 E EG NG	.000	86.69	45.02		USCGS
5	03	09 39 46.8 10 56,0	05.3 S LM	151.5 E EG	.006	126.98	42.57		USCGS
6	04	00 23 55.1 48,9	01.2 N LM	027.7 O NG	.000	56.32	219.59		USCGS
7	04	05 42 35.3 6 35,4	29.7 N LM	142.2 E NG	.000	91.68	35.75		USCGS
8	05	13 16 43.0 14 22,9	10.0 S LM	124.0 E NG	.000	116.19	72.66		USCGS
9	06	04 40 14.0 5 20,4	23.6 N L	108.6 O EG	.000	85.39	302.07		USCGS
10	06	06 17 28.0 6 53,4	01.8 S L	080.7 O EG	.003	88.19	265.05		USCGS
11	11	12 12 16.2	45.0 S	075.7 O	.000	117.72	232.21		USCGS





13 17				LM	VG				
12	14	11 19 12 40	47.5	21.2 S LM	169.3 E NG	.000	148.17	27.37	USCGS
13	15	01 32 1 37 05 1 40 59 1 42,4 1 43,9	20.0	68.9 N P S L M	017.1 O VG VG NG NG	.000	20.91 21.2	338.19	USCGS
14	15	02 32 3 30	39.9	13.4 N LM	145.9 E NG	.001	107.71	39.43	USCGS
15	15	05 23 5 27 49 5 31 51 5 33 5 35	00.0	69.5 N P S LR MR	017.5 O VG NG NG NG	.000	21.46 21.2	338.97	BCIS
16	15	22 17 22 31 46 22 35 33 22 40 29 22 54	50.9	31.3 S /P/ PPP /S/ L	013.4 O VG NG NG NG	.000	83.14	195.24	USCGS
17	22	04 55 5 29	16.4	31.5 N LM	089.3 E NG	.000	63.29	72.29	USCGS
18	24	12 09 13 24	01.2	15.2 S LM	173.6 O NG	.000	144.48	356.61	USCGS
19	24	22 27 23 18 23 31,7	32.5	08.0 N L M	126.8 E NG NG	.005	103.30	59.20	USCGS
20	27	01 06	55.4	25.6 N	128.3 E	.004	89.33	48.52	USCGS

1 57				LM	NG				
21	27	19 35	09.0	41.1 N	049.7 E	.000	32.52	89.46	BCIS
		19 42	37	/PP/	VG				
		19 46	30	E	NG				
		19 49		L	EG				
		19 54		M	EG				
22	28	04 05	30.9	43.5 N	144.6 E	.000	79.99	28.21	USCGS
		4 40,9		L	EG				
		4 51		M	EG				
23	28	12 12	19.8	02.6 S	149.9 E	.000	123.88	42.91	USCGS
		12 31	/43/	EKP	NG		124		
		12 34	43	E	NG				
		12 40	00	SKKS	NG				
		12 42	54	PS	NG				
		12 49	30	E	NG				
		12 50	00	E	NG				
		13 09		L	NG				
		13 13		M	NG				
24	28	13 00	50.7	54.7 N	161.6 O	.000	74.31	351.59	USCGS
		13 12	26	P	VG				
		13 41		M	NG				
		13 46		MR	VG				
25	29	09 21	14.3	49.7 N	154.9 E	.015	76.85	19.15	USCGS
		9 32	54,0	IP	VG	.01	76		
		9 36	22	/PP/	VG				
		9 42	28	S	NG				
		9 47,8		SS	EG				
		9 56,9		LR	EG				
26	30	10 10	04.1	55.6 S	028.3 O	.000	109.36	198.96	USCGS
		10 29	04	PP			109.4		
		10 31	32	PPP	NG				
		10 32	28	E	EG				
		10 35	10	SKS	NG				
		10 36	10	SKKKS	VG				
		10 37	00	E	NG				
		10 38	36	PS	VG				

10 39 26	SPP	NG
10 44 24	SS	EG
10 48 24	SSS	NG
10 51 16	/SSSS/	EG
10 55 09	G	EG
10 58,1	LQ	EG
11 01,4	LR	VG
11 06,9	MR	EG

27 31	05 06 46.0	27.9 N	126.3 O	.000	90.40 317.82	USCGS
	5 19 30	P	VG	.00	87	
	5 20 34	E	VG			
	5 22 52	PP	VG			
	5 30 00	S	EG			
	5 31 04	E	EG			
	5 31 34	PPS	EG			
	5 36 06	SSP	EG			
	5 40 00	E	EG			
	5 45,9	LR	EG			
	5 55,6	MR	EG			
	6 01,9	MR	EG			

28 31	15 06 51.0	35.2 N	022.1 E	.000	20.20 133.72	BCIS
	15 11 29	P	VG		20.2	
	15 16	L	EG			
	15 18	M	EG			

29 01	Crête Médiane de l'Atlantique au N des Açores .					BCIS
	8 28 11	E	EG			
	8 30	L	EG			
	8 31	M	EG			

30 01	22 42 15.0	19.8 S	178.2 O	.026	149.02 4.68	USCGS
	23 46	M	EG			
	23 49	M	EG			

31 04	23 21 09.0	48.5 N	154.9 E	.008	77.99 19.54	USCGS
	23 33 00,5	P	VG	.01	78.5	

32 05	20 39 21.6	38.4 S	073.2 O	.001	111.64 235.70	USCGS
	20 58 48	PP	EG		112	
	21 01 06	PPP	VG			

21 08 15	PS	EG
21 08 52	PKKP	EG
21 09 16	E	NG
21 14 26	SS	EG
21 16 48	E	NG
21 18 16	/SSS/	EG
21 21 48	E	NG
21 22 12	SSSS	EG
21 25	L/Q/	NG
21 34	LR	EG
21 39	LR	VG
21 40,8	MR	EG
21 42,4	MR	NG
21 46,4	MR	EG
21 48,9	MR	NG

33	06	01 21	29.0	38.4 S	073.6 O	.000	111.85	235.95	USCGS
		2 21		L	EG				
		2 23		M	EG				
		2 28		M	EG				

34	09	03 53	06.0	36.4 N	137.9 E	.0007	84.10	36.02	USCGS
		4 36		L	NG				
		4 40		M	NG				

35	10	15 05	25.3	53.5 N	033.4 O	.001	23.16	291.47	4.9 USCGS
		15 11	36	E	VG				
		15 16		L	NG				

36	13	08 50	02.2	24.5 N	121.8 E	.000	87.02	54.06	USCGS
		9 02	46	IP	VE	.00	88		
		9 02	59	*SP	VG				
		9 06	09	PP	EG				
		9 06	23	*SPP	NE				
		9 08	26	*PPPP	EG				
		9 09	36	PPPP	EG				
		9 13	08	SKS	VG				
		9 13	38	SCS	VE				
		9 14	32	E	NE				
		9 14	48	E	EG				
		9 19	22	SS	EG				
		9 22	52	SSS	EG				
		9 26		G	EG				
		9 29,0		LQ	EE				
		9 36,5		LR	EE				
		9 37,4		MR	NG				



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9 42,4 MR NE  
9 46,4 MR VG

37	13	18 13	55.1	09.9 S	160.8 E	.000	134.84	33.74	USCGS
		18 35	46	PP	VG	.00	134.8		
		18 36	48	PKS	VG				
		18 40	48	PPPP	EG				
		18 44	06	E	NG				
		18 45	50	PKKS	NG				
		18 48	16	E	NG				
		18 53	26	/SS/	NG				
		19 00	29	E	NG				
		19 10	10	E	EG				
		19 13		L	EG				
		19 28		MR	VG				

38	14	07 04	40.8	07.2 S	128.2 E	.026	116.49	67.11	6.8	USCGS
		7 23	14	PKP	EG	.02	119			
		7 24	37	PP	EG					
		7 24	57	*PPP	EG					
		7 34	10	SP	EG					
		8 05		LM	EG					

39	14	12 09	11.4	00.9 N	030.0 O	.000	57.55	221.94	USCGS
		12 26	56	S	EG				
		12 32		L	NG				
		12 36		M	NG				

40	14	22 07	54.3	05.0 S	144.6 E	.007	123.54	49.88	USCGS
		23 06		L	NG				
		23 12		M	NG				

41	15	15 18	20.0	40.2 N	020.1 E	.000	15.27	127.90	BCIS
		10 22	02	P	EG				
		10 27		L	EG				

42	20	19 40	30.9	14.6 N	122.1 E	.000	95.21	59.34	USCGS
		20 26		LM	EG				

43	21	17 14	29.0	32.6 N	021.0 E	.000	21.93	139.67	BCIS
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17 19 26	P	NG	22.3
17 19 34	E	VE	
17 19 47	E	NG	
17 20 00	PP	VG	
17 23 31	S	NG	
17 24,3	L	EG	
17 28,2	M	EG	

44	22	07 10 28.0	85.0 N	098.9 E	.000	40.10	7.81	USCGS
		7 18 06	P	VG	.00	40.7		
		7 24 17	S	VG				
		7 27 07	SS	EG				
		7 29	LM	NG				
		7 33	M	EG				

45	22	14 12 52.0	40.4 N	020.4 E	.000	15.27	126.74	BCIS
		14 16 30	P	VG		15.2		
		14 19 19	S	EG				
		14 20,9	L	EG				
		14 21,4	MR	VG				

46	22	21 14 06.1	18.1 N	071.3 O	.003	67.14	270.86	USCGS
		21 46	LM	EG				

47	25	17 11 01.7	24.4 N	123.4 E	.000	87.92	52.90	5.3 USCGS
		18 05	LM	EG				

48	26	23 45 16.8	07.0 S	146.2 E	.021	126.05	49.36	4.3 USCGS
		31	LM	EG				

49	26	20 14 08.7	07.5 S	146.2 E	.021	126.48	49.66	7.1 USCGS
		20 32 52	PKP	VG	.02	126		
		20 33 40	*PPKP	VG				
		20 34 51	PP	NG				
		20 35 53	/*SPP/	EG				
		20 37 10	E	VG				
		20 41 30	SKKS	EG				
		20 42 36	/PKKP/	EG				
		20 43 49	EI	NG				
		20 45 54	E	VG				
		20 51 42	SS	EG				
		21 05	L	EG				

21 16 M NG

50	27	04 30	00.8	06.0 S	149.4 E	.003	126.67	45.29	5.2	USCGS
		4 51	14	PP	VG	.00	128.5			
		4 52	32	E	EG					
		5 01	12	SP	NG					
		5 02	42	SPP	NG					
		5 03	42	E	EG					
		5 08	33	SS	NG					
		5 13	17	SSS	NG					
		5 20	07	E	EG					
		5 23		L	NG					
		5 33		M	EG					
		5 44,7		MR	NG					
		5 44,9			EG					
51	01	10 45	55.7	41.2 N	142.9 E	.001	81.55	30.34	5.1	USCGS
		11 30		LM	EG					
52	01	19 14	13.1	01.4 N	029.6 O	.000	56.93	221.76		USCGS
		19 37		L	EG					
53	04	07 41	51.0	82.9 N	007.7 O	.000	32.47	357.22		USCGS
		7 47	55	P	EG					
		7 56		L	EG					
54	04	13 38	41.0	24.2 N	121.7 E	.000	87.22	54.30		USCGS
		14 18		L	NG					
		14 26,5		M	NG					
		14 32,0		M	NG					
55	04	15 10	16.0	35.2 N	025.3 E	.000	21.74	127.79		BCIS
		15 15	10,0	IPG	VG	.00				
		15 18	11	F	NG					
		15 21,0		L	EG					
		15 22,5		M	EG					
56	04	15 43	04.0	04.5 S	081.6 O	.000	90.83	264.04		USCGS
		16 21		LM	NG					
		16 25		LM	EG					

57	07	05 22	01.1	27.0 S	113.5 0	.000	127.74	272.59	5.6	USCGS
		5 42	37	E	NG					
		5 59	47	SSP	EG					
		6 21		LM	EG					
58	07	12 16	28.5	44.3 S	075.3 0	.002	117.02	232.54	5.6	USCGS
		13 07		L	NG					
		13 18,5		M	EG					
59	10	02 53	33.0	24.7 N	122.1 E	.000	87.01	53.72	4.9	USCGS
		3 33		L	NG					
		3 40,8		M	EG					
60	10	05 51	32.0	51.0 N	005.4 E	.000	.69	72.54		BCIS
		5 51	45,4	PG	VE		.7			
		5 51	45,7	P*	VG					
		5 51	47,8	E	VE					
		5 51	48,1	E	NE					
		5 51	49,3	PN	VE					
		5 51	52,3	E	EE					
		5 51	55,0	SG	EE					
		5 52	00,1	SN	VE					
		5 52	02,4	E	EE					
61	14	08 00	15.6	19.0 N	120.4 E	.003	90.78	58.24		USCGS
		8 49		LM	EG					
62	15	00 16	01.3	08.0 N	120.4 E	.003	99.71	64.54	5.0	USCGS
		1 06		L	NG					
		1 11		M	NG					
63	16	08 44	48.3	46.5 N	154.7 E	.000	79.84	20.33		USCGS
		8 56	58,1	IP	VG	.00	80.5			
		8 57	12,1	IPCP	VG					
		8 57	27,1	I	EG					
		8 57	38,1	I	VG					
		8 58	08,1	E	EE					
		9 00	02,1	PP	VG					
		9 01	39	PPP	EG					
		9 03	00	/PPPP/	EG					

9 06 54	S	NG
9 07 00	E	NE
9 07 07	SKS	VE
9 07 36	PS	EE
9 07 59	E	EG
9 11 59	SS	EG
9 19,3	G	EE
9 26,0	ILR	VE
9 26,8	ILR	EG
9 33,5	IMR	EE
9 34,0	IMP	VE

64	17	14 17	18.0	39.4 N	021.0 E	.000	16.32	127.87	BCIS
		14 21	05	P	NE				
		14 22	30	E	NE				
		14 26		L	EG				

65	24	02 07	12.8	09.7 S	120.4 E	.000	113.76	75.55 6.0	USCGS
		2 26	42	PP	EG				
		2 56		L	EG				
		3 04		M	EG				
		3 07		MR	EG				

66	24	09 31	50.4	03.2 S	146.8 E	.000	123.02	46.55 5.0	USCGS
		10 33		L	EG				
		10 44		M	EG				

67	24	12 44	01.0	34.8 N	048.0 E	.000	35.21	99.96	BCIS
		12 50	58	P	EG	.00	35.8		
		12 52	06	/PP/	EE				
		12 56	35	S	NE				
		12 56	47	*SS	EG				
		12 58,8		L	NG				
		13 03,5		L	NE				
		13 06,0		MR	EE				

68	26	09 48	19.7	29.7 S	177.8 0	.002	158.87	5.22	USCGS
		10 08	17	PKP	VG	.002	158.9		
		10 08	30	*PPKP	VG				
		10 09	28	E	VG				
		10 12	33	PP	VG				
		10 18	34	PPPP	EG				
		11 04,0		LR	VE				
		11 12		MR	VE				



69	26	13 25	02.6	29.8 S	177.9 0	.001	158.96	5.48	5.9	USCGS
		13 44	59	PKP1	VG	.00	159			
		13 45	37	PKP2	VE					
		13 48	44	/PKS/	NG					
		13 49	10	PP	EG					
		14 04	01	E	VG					
		14 09	38	SS	EG					
		14 40		LR	NG					
		14 49		MR	NG					
		14 55		MR	EG					

70	26	21 34	41.1	36.0 N	135.7 E	.000	83.61	37.78	5.9	USCGS
		21 47	07	P	VG	.00	83.5			
		21 47	25	*SP	VG					
		21 47	48	E	VG					
		21 49	49	E	VG					
		21 53	36	E	EG					
		21 57	26	S	EG					
		22 12,5		G	EG					
		22 18,0		LR	EG					
		22 21,0		MR	NG					
		22 22,2		MR	NE					
		22 22,8		MR	NG					
		22 27,3		MR	VG					

71	28	00 15	46.0	66.3 N	019.4 0	.000	19.68	331.06		BCIS
		20 17		P	NG	-.003	19.8			
		20 18		IP	VG					
		20 20		I*PP	NG					
		20 23		I*SP	VG					
		20 34		IPP	NG					
		20 38		I*PPP	VE					
		20 45		I*SPP	VG					
		20 54		/PPP/	EG					
		23 56		S	NG					
		23 58		IS	NG					
		24 00		*PS	EE					
		24 03		I*SS	NG					
		24 07		I	NE					
		24 16		SS	VG					
		24 32		SSS	EE					
		24,9		ILR	EG					
		26,9		MQ	EE					
		28,0		IMR	VE					

72	29	23 29	14.6	29.6 S	177.5 0	.003	158.78	4.48		USCGS
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1 01

LM

EG

73 30 01 53 28.8 19.1 S 169.1 E .020 146.13 26.52 6.1 USCGS  
 2 12 50 PKP VG .02 147  
 2 13 32 \*PPKP VG  
 2 35,0 SS EG  
 2 59 L EG

74 30 16 51 56.6 44.2 N 148.0 E .000 80.33 25.64 6.3 USCGS  
 17 04 05 P VG .00 80  
 17 04 24 \*PP EG  
 17 13 46 /S/ NG  
 17 28 L EG  
 17 37,8 M EG

75 31 05 30 49.3 29.9 S 177.7 O .002 159.07 5.01 5.7 USCGS  
 5 50 39 PKP1 NG 159  
 5 51 19 PKP2 VG  
 6 01 24 SKKS1 NG  
 6 05 18 SKKS2 NG  
 6 51 L EG

76 31 07 07 36.3 06.1 S 149.0 E .004 126.58 45.79 5.7 USCGS  
 8 07 L EG  
 8 22 M EG

77 31 12 26 11.6 35.8 N 132.6 E .000 82.54 40.09 4.7 USCGS  
 13 19 MR VG

78 31 19 22 53.3 30.0 S 178.0 O .003 159.15 5.76 USCGS  
 20 46 LM EG

79 01 04 28 44.3 44.8 N 141.1 E .035 77.73 29.96 5.6 USCGS  
 4 40 17 P VG  
 4 85,5 L EG

80 02 16 18 55.6 55.2 N 171.7 O .017 74.41 357.65 5.7 USCGS  
 16 30 31 P VG 74.7

		16 40 05	S	NG					
81	03	14 47 55.5 15 08 02 16 01,7	55.4 S E LM	128.2 O VG EG	.000	151.48	242.04	5.8	USCGS
82	07	15 07 34.9 15 55,0	27.0 N LM	129.2 E NG	.000	88.57	47.10		USCGS
83	07	22 36 03.4 22 49 42 22 53 42 23 00 35 23 01 07 23 02 32 23 08 04 23 11 23 23 22,3 23 34,5 23 39,0	04.9 S P PP E S PS SSP E LQ LR M	103.1 E VG EG EG VG EG NG EG NG EG	.006	99.24 98.0	86.32		USCGS
84	08	14 38 27.0 14 59,2	27.7 N LM	044.3 O NG	.000	43.19	256.55	5.0	USCGS
85	09	02 02 35.1 2 21 08	17.7 S PKP	178.7 O VG	.078	146.91	5.34		USCGS
86	10	07 50 30.2 8 20 23 8 49,1 8 57,8	09.2 S E L LM	125.0 E EG NG EG	.000	116.17	71.27	5.2	USCGS
87	10	20 16 24.0 20 19 58 20 20 05	47.6 N E /SG/	013.3 E NG VG	.000	6.68	115.20		BCIS
88	12	20 48 16.7 21 07 57	16.7 S PKP	173.7 O VG	.000	145.97	356.68	5.0	USCGS

89	13	02 20	57.5	06.2 S	076.5 O	.014	88.93	259.04	6.3	USCGS
		2 33	40	P	VE	.012	88.9			
		2 34	08	*PP	VE					
		2 37	11	/PP/	VG					
		2 37	56	E	EG					
		2 44	19	S	EG					
		2 45	08	*SS	VG					
		2 49	55	/SS/	EG					
		2 53,2		LQ	NG					
		2 57,2		LM	NG					
90	13	14 31	21.0	03.4 S	135.4 E	.000	117.45	58.07	5.6	USCGS
		14 51	32	PP	VG					
		15 27,2		LM	NG					
91	13	15 40	27.1	03.4 S	135.7 E	.001	117.61	57.79		USCGS
		16 36,5		L	EG					
		16 46,3		LM	NG					
92	15	23 39	27.3	18.3 S	173.7 O	.000	147.56	356.56	5.0	USCGS
		23 59	14	PKP	VG					
		23 59	22	E	NG					
93	16	01 29	19.4	00.8 S	128.0 E	.000	111.20	63.27	6.1	USCGS
		1 48	49	PP	VG		112.3			
		1 54	43	SKS1	NG					
		1 55	16	/SKS2/	EG					
		1 57	20	E	NG					
		1 58	21	PS	EG					
		1 59	13	/PPS/	VG					
		2 00	15	E	NG					
		2 00	31	F	VG					
		2 04	16	SS	NG					
		2 08	34	SSS	EG					
		2 14,2		LQ	EG					
		2 21,7		LR	EG					
		2 30,6		MQ	NG					
		2 36,6		MR	VG					
94	16	01 36	59.4	01.2 S	128.4 E	.000	111.75	63.15		USCGS
		1 51	53	P	NG	.000	111.2			
		2 02	17	E	NG					

		2	02	47		E		VG					
95	16	01	55	10.9	00.7	S	128.0	E	.000	111.12	63.21		USCGS
		2	14	44	PP			VG		113.2			
		2	22	33	E			VG					
		2	24	17	PS			VG					
96	16	02	05	52.0	01.3	S	126.9	E	.000	110.98	64.54	5.8	USCGS
		2	25	17	PP			VG					
97	16	18	47	08.8	35.4	N	044.3	E	.011	32.52	102.69	5.2	USCGS
		19	06,1		L			NG					
98	17	01	10	16.6	00.6	S	128.1	E	.009	111.09	63.06		USCGS
		2	08,9		L			NG					
99	17	02	11	26.1	19.6	S	178.6	E	.000	148.55	10.44	5.9	USCGS
		2	31	10	PKP1			VG	.000	149			
		2	31	18	PKP2			NG					
		2	31	37	E			VG					
		2	34	42	PP			NG					
		2	53	53	SS			EG					
		3	24,7		L			NG					
		3	43,9		LM			VG					
100	17	17	49	30.6	58.3	N	032.4	O	.000	22.38	303.85		USCGS
		18	01,7		L			EG					
101	17	18	24	27.6	54.9	S	028.2	O	.000	108.69	199.17		USCGS
		19	20,6		LM			EG					
102	19	07	30	19.2	35.3	N	025.2	E	.002	21.61	127.80		USCGS
		7	35	08	P			NG					
103	19	07	35	23.7	35.8	N	096.9	E	.000	64.73	63.92	6.1	USCGS
		7	46	02	P			VG		64.2			



7	46	07	E	VG
7	48	25	PP	VG
7	48	31	E	NG
7	50	04	E	EG
7	54	41	S	EG
7	54	50	E	EG
7	55	08	PPS	NG
7	55	18	E	VG
7	58	35	E	EG
7	59	04	/SS/	NG
8	04,2		LQ	NG
8	07,0		LR	EG
8	10,0		MR	VG

104	21	04 38	21.7	24.1 N	122.1 E	.000	87.51	54.06	5.2	USCGS
		5 21,5		LM	NG					
		5 22,5		LM	NG					
		5 34,5		LM	VG					

105	23	02 51	17.2	46.9 N	103.7 E	.000	60.57	51.00	5.1	USCGS
		3 01 33		P	VG					
		3 24		LQ	NG					
		3 25		LR	VG					

106	23	14 02	56.8	42.6 N	019.5 E	.001	13.22	122.50	5.1	USCGS
		14 12		L	EG					

107	24	13 32	12.2	27.0 N	128.8 E	.000	88.39	47.40	5.1	USCGS
		14 25		L	EG					
		14 29		LM	EG					

108	25	13 36	14.2	45.2 N	005.9 E	.000	5.70	168.96		USCGS
		13 37 52		P*	VG		5.4			
		13 38 34		SN	NG					
		13 39 12		SG	VG					
		13 39 26		E	EG					
		13 39 34		I	NG					
		13 40 06		E	NG					
		13 40 14		E	NG					
		13 40 18		E	NG					

109	25	16 35	56.2	01.3 S	128.7 E	.000	112.00	62.95	5.3	USCGS
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		17 33		LM	EG					
110	25	17 50 18 48	25.3	21.6 S L	178.0 O NG	.054	150.81	4.50	5.0	USCGS
111	26	23 45 23 58 24 31 24 36 24 42	01.2 29	24.1 N P LQ LR L	122.5 E VG EG EG NG	.000	87.71	53.75	4.9	USCGS
112	27	04 53 5 30 5 31	50.9 19 37	44.8 N E E	110.4 O VG EG	.000	69.35	316.28	4.4	USCGS
113	27	08 42 9 34 9 51	58.0	00.6 S LQ LR	128.4 E NG VG	.000	111.26	62.79	4.9	USCGS
114	28	00 42 52,8	11.0	40.6 N E	027.4 E NG	.020	18.98	113.59		USCGS
115	29	21 44 21 56 22 06 22 06 22 11 22 14 22 23 22 32	17.1 14 04 26 28 19	51.4 N P S E E E LQ LR	178.6 E VG EG EG EG VG NG VG	.004 .000	77.97 78	3.68		USCGS
116	30	00 58 1 17 1 28 1 51 1 58 2 07	19.2 56 01	00.9 S PKP E L LM LM	128.8 E VG EG NG NG EG	.000	111.69	62.59		USCGS
117	01	10 03	20.0	19.0 S	169.0 E	.017	146.00	26.63	6.5	USCGS

10 22 44	PKP1	VG
10 22 47	PKP2	VG
10 23 22	*PPKP1	VG,EG,NG
10 23 26	*PPKP2	VG
10 23 36	I	NG
10 23 46	E	EG
10 24 07	I	VG
10 24 13	E	EG
10 24 25	E	NG
10 26 41	E	NG
10 26 46	E	NG
10 29 51	E	VG
10 32 36	E	NG
10 32 45	E	EG
10 44 29	E	EG
10 45 05	/SS/	EG
10 45 37	E	NG
10 50 21	/SSS/	EG
11 12,0	LQ	EG
11 19,2	LR	VG
11 28,1	L	EG
12 02,5	L	EG

118	08	02 09 11.0 19 40,0	46.0 N LM	012.3 E NG	.000	7.14 129.20	BCIS
119	08	02 09 11.0 2 13 07	46.0 N SN	012.3 E NG	.000	7.13 129.24	USCGS
120	08	10 22 11.2 10 34 44 10 45 06 10 45 11 10 45 27 10 49 43 10 50 01 10 51 56 11 04,3 11 07,3 11 10,6	36.6 N P SKS S E E E E LQ LR MQ	141.0 E VG EG NG VG NG EG NG EG NG NG	.003	85.05 33.69 85,0	USCGS
121	09	15 03 41.0 15 44,3	12.2 N LM	086.9 0 EG	.000	81.42 278.72	USCGS
122	10	22 21 42.2	02.2 S	077.6 0	.000	86.56 262.38	USCGS

22	45	59	S/CS/	NG
22	52	11	E	NG
22	53	59	E	EG
23	04,3		LQ	EG
23	08,0		LR	VG

123	12	20	08	43.0	57.4 N	153.9 0	.007	70.78	347.73	5.9	USCGS
		20	19	53	P	VG					
		20	20	05	PCP	VG					
		20	20	37	E	NG					
		20	20	42	E	NG					
		20	29	08	/S/	NG					
		20	46,0		LQ	NG					
		20	51,0		LR	EG					

124	15	12	08	11.0	39.0 N	026.7 0	.000	24.77	253.63		BCIS
		12	13	34	P	VG	.000	24.8			
		12	13	39	E	NG					
		12	13	44	E	NG					
		12	14	17	PP	VG					
		12	18	11	S	EG					
		12	19,2		LR	NG					

125	17	04	06	36.2	45.3 N	150.8 E	.000	80.05	23.34	5.9	USCGS
		4	51,0		LM	NG					

126	17	06	09	18.2	15.7 N	120.1 E	.007	93.30	60.35	5.5	USCGS
		6	57,9		LM	EG					

127	18	05	33	25.0	29.6 S	068.5 0	.000	102.42	238.49		USCGS
		6	12	49,3	LM	NG					

128	18	13	03	35.8	08.2 S	115.7 E	.005	109.69	78.45		USCGS
		6	28,3		LR	EG					

129	19	01	03	04.1	46.5 S	075.1 0	.000	118.48	230.67	6.7	USCGS
		1	23	07	PP /	VG	.000	118.5			
		1	27	48	E	NG					
		1	28	52	SKS2	VG					
		1	30	08	E	EG					

1	32	56	PS	EG
1	33	08	E	NG
1	33	16	E	EG
1	39	46	E	NG
1	40	24	E	EG
1	47	54	E	EG
1	53,5		LQ	EG
1	59,3		LR	NG
2	11,5		MR	EG

130	19	10 00	04.0	46.0 N	014.8 E	.000	8.44	120.63	BCIS
		10 02	17	/PP/	VG		8.3		
		10 02	38	E	EE				
		10 02	56	E	EE				
		10 03	18	E	EE				
		10 03	44	/SN/	EE				
		10 04	12	E	NE				
		10 04	20	/S*/	EE				
		10 04	42	/SG/	EE				
		10 05,2		E	EG				

131	19	21 35	49.6	23.8 N	045.9 O	.000	47.00	254.31	6.5	USCGS
		21 44	19	P	VG	.000	46.7			
		21 44	20	IP	EG					
		21 44	21	IP	NG					
		21 44	30	E	EE					
		21 45	56	E	EE					
		21 46	06	PP	VG					
		21 46	52	/PPP/	EG					
		21 48	18	E	NG					
		21 50	54	S	EG					
		21 51	10	PS	EG					
		21 53	27	E	NG					
		21 54	20	/SS/	EE					
		21 54,5		LQ	NG					
		21 56,1		LR	NG					
		21 60,2		MR	EE					

132	20	11 38	00.9	30.7 S	178.3 O	.000	159.83	6.65	6.7	USCGS
		11 57	57	PKP	VG	.000	159			
		11 58	37	E	EG					
		12 02	16	PP	VG					
		12 05	57	E	VG					
		12 08	12	E	VG					
		12 12	16	E	NG					
		12 12	42	E	NG					
		12 15	45	E	NG					
		12 17	06	E	NG					



12 19 43	E	NG
12 43,8	L	EG
12 52,6	LM	NG
13 13,0	MR	VG

133	22	13 56 43.0	48.6 N	154.7 0	.000	79.45	346.03	6.5	USCGS
		14 08 41	P	VG	.000	78.0			
		14 08 46	E	VG					
		14 08 55	/PCP/	NG					
		14 11 40	PP	VG					
		14 14 41	E	NG					
		14 15 07	E	VG					
		14 18 29	S	EG					
		14 19 02	PS	NG					
		14 24 42	E	NG					
		14 28 18	E	EG					
		14 31 06	E	EG					
		14 35,3	LQ	NG					
		14 41,0	LR	NG					
		14 46,0	LM	VG					

134	22	21 53 02.5	08.2 S	115.7 E	.000	109.69	78.45	5.6	USCGS
		22 46,6	LM	NG					

135	23	03 57 41.1	01.3 S	080.7 0	.000	87.80	265.36	5.0	USCGS
		4 45,7	LM	NG					

136	25	16 08 00.8	56.8 S	025.0 0	.000	109.85	196.67		USCGS
		16 33 09	SKS	NG					
		16 34 49	E	EG					
		16 36 23	E	VG					
		16 36 42	PS	NG					
		17 00 53	E	EG					
		17 01,0	L	NG					
		17 05,9	M	NG					

137	26	04 52 23.4	51.5 N	159.8 E	.000	76.06	15.53	5.3	USCGS
		5 40	LM	EG					

138	26	23 06 55.0	55.2 N	159.9 E	.002	72.51	14.42	5.3	USCGS
		23 18 21	P	VG		72.2			
		23 21 08	PP	VG					

23	27	43	S	NG
23	41,7		LQ	NG
23	50,2		LR	EG
23	56,1		MR	NG

139	27	03	53	47.9	55.3 N	160.1 E	.003	72.44	14.27	5.5	USCGS
		4	10	10	P	VG					
		4	19	43	E	NG					
		4	24	17	E	VG					
		4	28	09	E	NG					
		4	36,0		LQ	EG					
		4	41,6		LR	EG					
		4	47,1		M	EG					

140	30	06	56	08.6	53.4 S	144.1 E	.000	155.30	111.87		USCGS
		8	08,6		L	NG					
		8	19,0		LM	EG					

141	30	18	57	53.2	59.4 S	026.9 O	.000	112.65	196.73		USCGS
		19	55		LM	NG					

142	01	23	58	49.7	15.1 S	173.4 O	.000	144.37	356.29	5.4	USCGS
		1	13,9		L	NG					
		1	19,9		L	NG					
		1	25,5		LM	EG					

143	01	21	13	52.7	15.2 S	173.5 O	.000	144.47	356.44		USCGS
		21	33	27	PKP	VG					
		21	33	35	*PPKP	NG					
		22	29,0		LR	NG					
		22	37,6		LM	EG					

144	02	21	04	24.2	58.5 S	015.6 O	.003	110.06	191.01		USCGS
		21	32	56	E	NG					
		21	34	11	/PS/	VG					
		21	38	50	E	EG					
		21	39	09	E	NG					
		21	51,6		LR	FG					
		22	00,0		M	NG					

145	03	07	20	07.7	40.0 N	143.1 E	.000	82.70	30.72	4.5	USCGS
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		8	20		LR	EG					
		8	23		LM	VG					
146	04	21	04	42.3	01.2 S	127.3 E	.000	111.12	64.13	5.7	USCGS
		21	23	54	PP	VG	.000	111.1			
		21	26	18	PPP	EG					
		21	30	03	SKS	EG					
		21	31	15	E	NG					
		21	33	19	PS	EG					
		21	34	41	/PPS/	EG					
		21	39	31	SS	NG					
		21	43	06	SSS	EG					
		21	47		LQ	EG					
		22	03		LM	VG					
147	06	05	18	55.1	19.9 N	120.2 E	.000	89.94	57.88	5.6	USCGS
		5	31	52	P	VG	.000	89.9			
		5	32	12	E	VG					
		5	35	27	PP	VG					
		5	35	42	*PPP	EG					
		5	36	00	*SPP	VG					
		5	37	24	PPP	VG					
		5	37	48	*PPPP	VG					
		5	38	00	*SPPP	VG					
		5	42	26	SCS	EG					
		5	43	06	*SS	NG					
		5	44	00	SPP	VG					
		5	48	22	E	VG					
		6	01,4		LR	EG					
		6	10,8		LM	EG					
		6	15,3		LM	EE					
148	07	19	30	35.6	08.5 N	103.1 O	.000	94.26	288.87	4.9	USCGS
		20	14,8		LM	EG					
149	07	22	31	54.8	15.2 S	173.1 O	.000	144.46	355.78	4.6	USCGS
		22	51	31	PKP	VG					
150	07	22	37	30.0	15.3 S	173.2 O	.000	144.56	355.94	5.0	USCGS
		22	57	05	PKP	VG					
		23	00	22	E	NG					
		23	45		L	NG					
		24	00		LM	EG					

151	08	01 01 1 21 2 22	51.9 26	15.1 S PKP L	173.0 0 VG NG	.000	144.35	355.62	4.6	USCGS
152	09	20 37 20 54 21 02	51.6 59	10.7 N S L	041.9 0 EG NG	.000	54.95	240.11		USCGS
153	10	04 16 4 36 4 56 5 00 5 37 5 45	37.7 31	55.4 S PKP E E LM LM	146.4 E VG VG NG EG VG	.000	156.84	116.33	6.1	USCGS
154	10	06 39 6 58 7 09 7 13 7 55,5	04.0 57	55.3 S PKP E E L	146.1 E VG EG EG NG	.000	156.66	116.11	6.0	USCGS
155	10	10 46 10 58 11 01	58.1 55	50.9 N P E	160.2 E VG VG	.000	76.70	15.45	5.9	USCGS
156	11	03 25 3 48 3 58	40.7	37.1 S LQ LR	070.3 E EG VG	.001	104.80	130.93	5.4	USCGS
157	11	15 23 15 36 16 06	42.3 15	31.8 N P L	116.2 0 VG EG	.000	82.54	312.31	5.8	USCGS
158	17	18 32 18 42 18 59 19 06	14.5 58	60.4 N P LR LM	140.3 0 VG VG EG	.000	65.63	341.61	5.5	USCGS
159	17	20 08	37.0	20.4 S	174.4 0	.000	149.67	357.70	5.3	USCGS

		20	28	34	PKP	VG					
160	18	04	02	31.0	29.0 N	129.9 E	.000	87.19	45.54	5.2	USCGS
		4	15	16	P	VG					
		4	48,5		LQ	EG					
		4	58,5		LM	VG					
161	19	23	01	51.5	31.5 N	140.3 E	.001	89.35	36.45	5.5	USCGS
		23	14	50	P	VG	.00	89.6			
		23	18	22	PP	VG					
		23	25	37	S	EG					
		23	26	40	SP	EG					
		23	49,5		LQ	EG					
		23	55,4		LR	NG					
162	20	19	47	45.0	36.2 N	004.2 O	.000	15.84	206.17		BCIS
		19	55	40	E	VG					
		19	56	37	E	VG					
		19	58	30	E	VG					
		19	58	52	E	VG					
		19	59	12	E	NG					
163	21	13	44	24.6	47.9 N	130.3 E	.000	71.34	35.12		USCGS
		14	20		LQ	EG					
		14	24		LR	VG					
164	23	03	49	33.9	29.6 S	177.9 O	.003	158.76	5.44	5.1	USCGS
		5	14		L	EG					
165	23	09	33	52.0	45.4 N	015.4 E	.000	9.15	121.93	4.4	USCGS
		9	38	50	E	VG					
		9	39	01	VG						
166	24	04	26	37.9	59.5 N	151.7 O	.004	68.26	347.15		USCGS
		4	37	37	P	VG	.01	69.0			
		4	37	40	I	VG					
		4	37	46	I	VG					
		4	37	58	E	NG					
		4	38	02	E	VG					
		4	38	05	IPCP	NG					



4 38 09	E	NG
4 39 14	E	VG
4 40 03	PP	EG
4 46 37	S	EG
4 47 07	SPP	EG
4 47 40	SKS	EG
4 51 00	SS	EG
4 54 00	SSS	NG
4 54,5	LQ	EG
4 57,0	LR	EG
5 00,5	M	EG

167	25	17 42 02.5	50.4 N	007.2 E	.000	1.85	101.33	BCIS
		17 42 40,5	PN	VG		1.7		
		17 42 42,9	PG	VG				
		17 43 03,2	SN	VG				
		17 43 06,5	SG	VG				
		17 43 13,0	E	VG				

168	25	22 16 10.5	50.3 N	007.2 E	.000	1.88	104.30	BCIS
		22 16 18,3	E	NG				
		22 16 41	E	NG				
		22 16 59	E	VG				
		22 17 01	E	VG				
		22 17 10	SN	EG				
		22 17 13,5	SG	EG				
		22 17 17	E	EG				

169	26	10 27 10.0	36.0 N	004.2 O	.000	16.03	205.92	BCIS
		10 31 02	/P/	VG				
		10 36,0	LQ	EG				
		10 37,0	LR	NG				

170	26	17 42 40.6	07.1 N	082.3 O	.000	82.39	271.92	BCIS
		17 55 11	P	VG		83.0		
		17 56 39	E	VG				
		18 05 30	S	EG				
		18 09 35	E	NG				
		18 17,2	LQ	EG				
		18 21,0	LR	VG				

171	28	21 55 38.8	46.5 N	153.2 E	.000	79.50	21.32 6.0	USCGS
		22 07 44	IP	VG	.00	80.0		
		22 07 47	I	VG				

		22 07 55	PCP	VG					
		22 07 56	E	VG					
		22 10 44,5	PP	NG					
		22 17 46	S	EG					
		22 18 34	PS	EG					
		22 31,5	LQ	EG					
		22 37,0	LR	EG					
		22 41,0	MQ	NG					
		22 46,2	MR	NG					
172	30	22 04 52.7	46.7 N	153.6 E	-.002	79.22	20.96		USCGS
		22 16 59	P	VG					
		22 27 06	/S/	NG					
		22 47	LQ	EG					
		22 53,7	LR	NG					
173	01	21 10 28.5	37.0 N	096.1 E	.000	63.42	63.49	5.3	USCGS
		21 44,3	L	NG					
174	02	00 15 22.4	43.9 N	085.2 E	.001	52.65	63.90	4.4	USCGS
		42,3	LR	NG					
		48,0	LM	EG					
175	04	06 55 16.8	24.0 N	122.4 E	.005	87.74	53.89	4.6	USCGS
		7 43,2	L	NG					
176	04	10 58 13.2	26.3 S	177.7 O	.020	155.50	4.46	6.5	USCGS
		11 17 48	PKP1	VE	0.02	155.0			
		11 18 15	PKP2	VE					
		11 18 34	*PPKP1	VE					
		11 19 01	*PPKP2	VE					
		11 21 51	PP	VE					
		11 25 29	PPP	VG					
		11 41 30	/SS/	EG					
		12 02,5	L	EG					
177	04	22 56 15.7	18.5 S	012.6 O	.000	70.51	197.07	5.6	USCGS
		23 07 31	P	VG	.000	70.5			
		23 07 44	E	VE					
		23 16 49	S	NG					
		23 21 09	SS	EG					
		23 28,0	LQ	NG					

23 33,4 LR VG

178 05 05 48 13.4 11.6 S 077.5 O .003 93.72 256.44 5.8 USCGS  
 6 01 28 P VG .003 93.7  
 6 11 56 SKS EG  
 6 28,2 L NG

179 05 14 21 28.5 39.1 N 022.9 E .000 17.52 124.73 4.2 USCGS  
 14 29 53 E VG  
 14 30,7 LR EG

180 06 22 32 31.7 16.3 S 039.7 E .000 73.57 144.63 USCGS  
 22 43 54 P VG

181 07 19 20 42.5 39.6 N 111.9 O .000 74.16 313.91 4.9 USCGS  
 19 59,9 L NG

182 08 11 05 07.5 00.3 N 017.8 O .000 53.67 207.90 4.9 USCGS  
 11 31,8 LQ NG  
 11 34,5 LR VG

183 08 16 02 26.8 36.6 N 028.0 E .000 22.09 120.88 4.7 USCGS  
 16 13,4 L EG

184 09 03 04 37.4 46.3 N 153.7 E .000 79.80 21.06 4.8 USCGS  
 3 47,3 L NG

185 09 09 24 33.3 08.5 N 083.0 O .000 81.77 273.36 5.1 USCGS  
 9 47 09 S EG  
 10 03,4 LR EG

186 09 17 34 33.2 24.2 N 122.4 E .000 87.58 53.77 4.8 USCGS  
 18 22,5 LQ NG  
 18 29,3 LR EG

187	09	18 56 12.6 19 52,0	29.1 S L	068.1 O EG	.000	101.81	238.52	4.8	USCGS
188	10	03 14 41.8 3 59,2 4 07,3	46.3 N LQ LR	153.4 E NG VG	.000	79.73	21.26	4.8	USCGS
189	10	05 22 57.1 5 35 04 5 35 11 5 45 07 5 50 18 5 54,7 6 04,2	46.3 N P PCP S SS L LM	152.9 E VG EG EG EG NG NG	.000	79.62 79.9	21.59	5.6	USCGS
190	12	15 28 08.5 15 40 15 16 11,2 16 15,6	46.8 N P LQ LR	153.6 E VG NG VG	.000	79.31	20.96	4.8	USCGS
191	13	23 42 03.0 27,9 37,1	33.9 N LQ LR	140.7 E EG VG	.006	87.36	35.09	4.4	USCGS
192	13	13 58 25.7 14 50,6	44.3 N L	148.8 E NG	.000	80.45	25.06	4.6	USCGS
193	14	00 02 22.8 1 29,0	30.5 S L	177.2 O NG	.000	159.69	3.88	5.3	USCGS
194	14	05 41 43.0 5 52 38 6 01 34 6 06 01 6 09,2	10.4 N P S SS L	062.6 O EG EG EG EG	.000	67.44 67.5	258.53	5.5	USCGS
195	14	14 28 22.1 15 59,3	30.2 S L	177.4 O NG	.001	159.39	4.33		USCGS

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196	16	18 27	18.4	43.1 N	041.5 E	.000	26.28	92.49	5.8	USCGS
		18 32	52	P	VE		26.0			
		18 33	31	IPP	EE					
		18 37	22	S	NG					
		18 40,1		LR	EG					
		18 45,3		MR	EG					
		18 45,3		MR	NG					
197	17	03 24	37.4	46.9 S	033.3 E	.000	100.37	160.28		USCGS
		4 17,9		LM	NG					
198	17	11 57	06.7	43.1 N	041.5 E	.000	26.28	92.49	5.3	USCGS
		12 07,4		L	EG					
199	18	00 04	05.3	49.1 N	128.9 O	.000	72.82	329.92	4.8	USCGS
		38,7		LM	NG					
200	18	04 58	09.2	61.0 S	022.3 O	.000	113.39	193.79	6.0	USCGS
		5 27	22	PS	NG					
		5 48,1		L	NG					
201	19	05 45	28.0	43.4 N	008.2 E	.000	7.85	159.06	5.5	USCGS
		5 47	21	PN	NG	0.00	7.6			
		5 47	37	P*	NG					
		5 48	47	SN	NG					
		5 49	12	S*	VG					
		5 49	37	SG	EG					
202	19	05 45	26.0	43.3 N	008.2 E	.000	7.95	159.28		BCIS
		5 47	57	PN	VG	0.00	7.9			
		5 49	26	SN	VG					
203	19	07 01	36.0	43.3 N	008.2 E	.000	7.95	159.28		BCIS
		7 05	01	SN	NG					
204	19	09 00	44.8	36.3 N	141.0 E	.006	85.31	33.82	4.6	USCGS



		9 44,0		L		NG				
205	19	11 43 16.0 11 46 43		43.4 N SN		008.2 E NG	.000	7.85	159.06	BCIS
206	20	00 51 55.7 1 06,6		43.4 N L		041.2 E NG	.000	25.94	92.14 4.8	USCGS
207	20	06 36 10.8 6 56 11 6 56 42 7 00 20 7 20 14 7 42,7 7 59,2		57.6 S /PKP1/ PKP2 PP SS L M		148.5 E VG VG EG EG NG NG	.000 .000	158.05 158	122.06 5.6	USCGS
208	20	15 07 58.2 15 18,4		68.8 N L		004.6 O NG	.003	18.59	349.76 4.8	USCGS
209	22	00 29 14.9 1 28,0		06.1 S LM		148.9 E NG	.004	126.54	45.90 5.1	USCGS
210	23	06 17 51.5 7 02,6		41.5 N LM		141.9 E EG	.009	80.95	30.90 4.4	USCGS
211	24	11 32 17.7 11 45 08 11 55 38 12 16,0		24.6 N P SKS L		122.0 E NG EG EG	.000	87.04 87.5	53.85 5.3	USCGS
212	24	21 47 54.1 22 58,3		09.6 S LM		154.4 E EG	.000	132.07	41.58 5.2	USCGS
213	26	04 17 11.0 4 20 43 4 20 53		42.1 N P PP		021.5 E EG EG	.000	14.65 14.4	119.82 6.0	BCIS

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4 21 03	PPP	EE
4 23 24	S	EE
4 23,8	LQ	EG
4 24,6	LR	VG
4 25,3	MR	EG

214	27	05 58 20.0	43.3 N	008.2 E	.000	7.95 159.28	BCIS
		6 00 20	PN	NE		7.8	
		6 01 50	SN	NE			
		6 02 15	S*	NG			
		6 02 41	SG	NE			
215	28	13 25 18.1	72.0 N	000.0 W	.000	21.35 356.29	USCGS
		13 30 11	P	VG			
		13 34 04	S	EG			
		13 36,3	L	NG			
216	28	18 51 36.7	46.6 N	153.1 E	.000	79.38 21.35 5.0	USCGS
		19 35,1	LM	EG			
217	29	06 10 22.6	27.8 N	055.6 E	.001	44.71 100.99 5.2	USCGS
		6 18 35	P	EG			
		6 36,1	L	NG			
218	29	20 14 07.3	30.2 S	177.3 0	.001	159.38 4.08	USCGS
		20 34 05	PKP1	VG			
		20 34 42	PKP2	VG			
		20 37 40	PKS	NG			
		20 58 32	/SS/	NG			
		21 35,3	L	EG			
		21 41,0	M	NG			
219	29	20 16 36.9	29.7 S	177.0 0	.000	158.91 3.29 5.5	USCGS
		20 36 48	PKP	VG			
220	30	05 45 53.3	29.6 S	177.3 0	.000	158.79 4.00 5.3	USCGS
		6 05 55	PKP1	VG		160.0	
		6 06 35	PKP2	EG			
		6 09 33	PKS	NG			
		7 08,7	L	EG			

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7 12,6				M	EG					
221	30	06 52 7 04	22.7 04	51.7 N P	158.1 E VG	.000	75.57	16.53	5.3	USCGS
222	30	13 51 14 10 14 43,9	57.8 23	55.9 S PKP L	027.5 O VG NG	.000	109.48	198.39	6.2	USCGS
223	30	15 04 15 24 16 30,7	38.7 45	29.9 S P L	177.4 O VG NG	.007	159.09	4.28	5.2	USCGS
224	31	01 44 3 11,5	18.8	29.8 S L	177.2 O NG	.005	159.00	3.78	4.8	USCGS
225	31	21 53 22 27,2	03.6	43.1 N L	088.3 E EG	.002	54.91	62.93		USCGS
226	01	10 45 11 29,0	02.7	55.3 N L	161.8 E NGU	.003	72.70	13.29	5.0	USCGS
227	02	09 07 9 12 9 16 9 25,6	18.0 26 44	56.2 N P *SS LR	034.1 O VEU NGU NGU	.001 .000	23.29 23.3	298.41	4.6	USCGS
228	02	09 13 9 18	46.8 54	56.3 N P	034.5 O VGU	.000	23.51	298.69	4.2	USCGS
229	02	10 49 10 53	16.1 46	34.7 N P	008.9 O VGU	.000	18.75	215.99	4.1	USCGS
230	02	12 49	35.0	57.5 N	038.5 O	.000	25.64	301.87	4.2	USCGS

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13 00,8

L

NGU

231	02	19 26 26.0 20 30,0	06.0 N L	125.1 E EGU	.013	104.00	61.78	5.0	USCGS
232	03	10 21 36.6 10 31 02,1 10 31 28 10 33 04 10 38 35 10 38 43 10 42 24 10 44,3 10 46,7	07.7 N IP E PP S IPS /SS/ LQ LR	035.8 O VGU NEU VEU EGU NGU EGU EGU VGU	.000 .000	54.26 54.3	231.91	6.1	USCGS
233	03	16 29 35.8 16 41 40	52.0 N P	174.3 O VGU	.000	77.67	359.15	4.4	USCGS
234	03	20 07 19.9 20 24 57 20 31 13 20 32,4	01.4 N S E L	028.2 O NGU EGU NGU	.000	56.34	220.24		USCGS
235	03	20 26 04.1 21 52,4	30.7 S L	178.3 O NGU	.001	159.83	6.65		USCGS
236	04	09 13 17.8 9 33 05	22.6 S PKP	173.4 E VGU	.006	150.58	20.96	4.9	USCGS
237	04	12 07 24.4 12 33,0	04.1 S L	080.9 O NGU	.000	90.08	263.76	4.7	USCGS
238	05	23 54 14.0 12 59 15 05	17.5 S PKP /*PPKP	179.1 O VGU /GU	.075 .071	146.68 147.0	6.01	5.2	USCGS
239	05	15 39 07.0	60.7 S	154.3 E	.000	160.49	132.21	5.2	USCGS

		16 43,3		L	NGU					
		17 09,1		M	NGU					
240	06	09 28 30.0		38.1 S	072.3 O	.010	110.95	235.35	4.8	USCGS
		9 47 11		PKP	VGU					
241	06	13 36 35.6		57.0 N	033.6 O	.000	22.99	300.43	5.1	USCGS
		13 41 38		P	VGU	.000	22.8			
		13 45 38		S	EGU					
		13 47,7		L	EGU					
242	07	04 33 42.7		54.0 N	142.1 E	.000	69.80	25.04	5.1	USCGS
		5 18,0		L	NGU					
243	07	07 17 25.8		07.5 N	037.2 O	.000	55.13	233.25	4.6	USCGS
		7 45,0		L	EGU					
244	07	17 13 18.4		56.1 S	027.0 O	.000	109.57	198.04	5.4	USCGS
		17 27 44		P	VGU					
245	07	18 36 46.6		13.6 N	090.9 O	.005	82.85	282.64		USCGS
		19 19,5		L	EGU					
246	08	02 14 54.4		54.2 N	168.1 E	.000	74.58	9.83	5.5	USCGS
		2 26 41		P	VGU		75.5			
		2 36 03		E	EGU					
		2 36 21		S	NGU					
		2 41 17		SS	NGU					
		2 43 57		E	EGU					
		2 48,9		L	EGU					
		2 52,6		L	NGU					
247	08	11 16 11.2		05.8 S	151.0 E	.002	127.21	43.40	5.6	USCGS
		12 02,8		L	EGU					
		12 21,3		LM	EGU					
248	09	06 05 29.0		44.3 N	012.2 E	.000	8.39	137.81		BCIS



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		6 07 34	P	VGU			8.5		
		6 07 43	PP	EGU					
		6 07 49	PPP	VGU					
		6 07 57	PPPP	NGU					
		6 09 12	SN	NEU					
		6 09 23	SS	NEU					
		6 09 36	SSS	EGU					
		6 09 42	S*	NEU					
		6 09 47	SSSS	EGU					
		6 09 59	E	ENU					
		6 10 42	L	NGU					
249	09	14 36 45.9	15.3 S	175.7 O	.000	144.62	.10	5.5	USCGS
		14 56 24	PKP	VGU					
		15 48,8	L	NGU					
250	09	19 14 06.5	51.1 N	006.2 E	.000	1.20	74.74		BCIS
		19 14 34	PN	VGU		1.1			
		19 14 46	SG	EGU					
		19 14 48	S*	VGU					
251	10	04 27 33.5	28.1 N	053.3 E	.002	43.07	102.78	4.8	USCGS
		4 52,6	L	EGU					
252	12	07 19 54.9	27.7 N	053.2 E	.000	43.30	103.28	5.0	USCGS
		7 12 58	P	VGU					
253	12	18 29 38.8	25.3 N	062.7 E	.000	50.94	97.21	5.2	USCGS
		18 59,8	L	NGU					
254	13	13 28 02.2	76.2 N	006.4 E	.000	25.54	1.14	4.7	USCGS
		13 34 09	PP	VGU					
		13 41,1	L	NGU					
255	13	21 52 37.4	19.3 S	173.7 O	.000	148.55	356.49	5.1	USCGS
		22 12 24	PKP	VGU					
		22 12 43	E	VGU					
		22 14 27	E	VGU					
		23 10,3	L	NGU					

256	14	02 46 44.1 4 05,0	21.4 S L	175.2 O NGU	.000	150.67	359.16	4.7	USCGS
257	14	03 32 33.5 4 28,2	04.9 S L	152.3 E EGU	.005	126.97	41.45	5.8	USCGS
258	14	16 18 18.0 17 06,0	24.1 N L	122.4 E NGU	.000	87.66	53.83	5.3	USCGS
259	14	18 43 55.5 19 51,0	03.4 S L	135.4 E NGU	.000	117.45	58.07	6.4	USCGS
260	15	06 11 34.6	37.9 N	141.6 E	.004	84.09	32.69	5.7	USCGS
		6 23 59	P	VEU	.005	84.5			
		6 24 17	*PP	VGU					
		6 27 17	PP	NGU					
		6 34 19	S	EGU					
		6 34 45	/*SS/	EGU					
		6 35 10	E	EEU					
		6 35 19	SP	NGU					
		6 35 33	/SPP/	EEU					
		6 39 39	E	EGU					
		6 40 26	E	NGU					
		6 49,1	L	NGU					
		6 54,2	LM	NEU					
6 56,8	M	NGU							
261	15	17 25 05.9	13.8 S	069.3 O	.080	90.47	248.80	6.0	USCGS
		17 37 11	IP	VEU	.083	91.0			
		17 37 26	I	VEU					
		17 37 30	I	EGU					
		17 37 37	I	EGU					
		17 38 02	I	NEU					
		17 39 15	*PP	VGU					
		17 39 41	E	EGU					
		17 40 08	*SP	VGU					
		17 40 47	E	EGU					
		17 41 11	/PP/	NGU					
		17 41 18	E	NGU					
		17 46 37	E	NGU					
		17 46 50	SKS	EGU					
		17 47 01	E	EGU					
		17 47 22	S	EGU					
17 47 38	E	NGU							

17 48 42	E	VEU
17 49 45	E	VGU
17 50 13	E	NEU
17 50 28	E	EGU
17 51 06	/*SS/	VEU
17 51 16	E	NGU
17 51 27	E	NGU
17 54 13	/SS/	EGU
17 56 51	E	EGU
17 57 24	/SSS/	NGU
17 57 33	E	EEU
18 00 33	E	EGU
18 03 57	E	EEU
18 10 15	E	VEU

262	16	23 06 24.6	12.8 S	014.5 O	.000	65.37	200.29	5.1	USCGS
		23 36.0	L	EGU					

263	17	11 12 41.2	30.6 N	130.9 E	.000	86.28	43.97	5.6	USCGS
		11 25 20	P	VEU	.000	85.8			
		11 25 31	*PP	VGU					
		11 28 41	PP	VGU					
		11 35 45	S	NGU					
		11 36 08	E	NGU					
		11 41 23	SS	NGU					
		11 41 52	E	EGU					
		11 46 33	E	NGU					
		11 52.5	LQ	EGU					
		11 58.7	LR	EEU					
		12 01.0	MQ	EGU					
		12 06.1	MR	VEU					

264	18	18 43 16.1	50.3 N	176.9 O	.000	79.37	.82	5.5	USCGS
		18 55 23	P	VGU					
		19 21.1	L	EGU					

265	20	15 48 12.2	41.2 N	142.7 E	.003	81.48	30.48	4.5	USCGS
		16 26.6	L	EGU					

266	22	19 52 25.0	09.4 S	158.4 E	.000	133.50	36.55	6.1	USCGS
		20 11 43	PKP	VGU		133.0			
		20 14 11	PP	VGU					
		20 15 10	PKS	EGU					
		20 25 42	E	EGU					

		20	31	47	SS	EGU					
		20	41	31	E	NGU					
		20	50,5		L	NGU					
267	23	13	09	25.3	52.4 N	159.6 E	.000	75.16	15.40	4.5	USCGS
		13	21	14	P	NGU					
		13	51,9		L	EGU					
268	25	06	11	43.3	38.9 N	038.4 E	.000	26.66	103.25	4.8	USCGS
		6	17	24	P	VGU		26.4			
		6	18	05	PP	EGU					
		6	21	59	S	NGU					
		6	25,8		L	NGU					
269	25	12	16	12.5	17.5 S	178.8 O	.083	146.70	5.50		USCGS
		12	36	50	PKP1	VEU	.085	147.0			
		12	36	53	IPKP2	VGU					
		12	39	04	*PPKP	VEU					
		12	40	27	PP	VGU					
		12	43	03	SKS	EGU					
		12	52	16	SPP	VGU					
		12	53	21	PPS	NGU					
		12	58	31	E	EGU					
		13	02	02	E	EGU					
270	27	03	23	32.6	45.9 S	075.3 O	.000	118.16	231.26	5.3	USCGS
		4	13,7		L	NGU					
		4	21,5		LM	EGU					
271	28	12	48	22.1	61.9 S	164.5 E	.000	164.38	143.17		USCGS
		14	22,0		L	EGU					
272	28	16	57	46.2	39.1 S	091.8 O	.000	122.46	246.64	4.7	USCGS
		18	00,5		L	EGU					
273	29	08	53	48.4	39.6 N	074.2 E	.000	48.74	74.80	5.5	USCGS
		9	02	30	P	VGU		48.6			
		9	04	25	PP	VGU					
		9	09	30	S	EGU					
		9	09	42	PPS	NEU					

9 12 29	E	NGU
9 12 59	SS	NGU
9 16,4	LQ	NGU
9 18,2	LM	NGU
9 20,1	LR	NEU
9 22,5	MQ	NGU
9 26,0	MR	EGU

274	29	15 30 31.4	07.1 S	081.6 0	.000	92.82	262.41	6.1	USCGS
		15 43 43	P	VEU		92.7			
		15 47 27	PP	NEU					
		15 54 17	SKS	EEU					
		15 54 49	S	VGU					
		15 56 06	PS	EGU					
		15 56 39	PPS	NGU					
		16 01 05	SS	EGU					
		16 04 49	SSS	EGU					
		16 10,4	G	NGU					
		16 14,2	LR	EGU					
		16 16,6	M	EGU					
275	29	20 57 31.5	15.5 S	172.9 0	.000	144.74	355.42	4.9	USCGS
		21 17 04	PKP	VGU		144.6			
		21 20 24	PP	VGU					
		21 39 18	/SS/	EGU					
		22 06,9	L	NGU					
276	30	00 16 36.3	08.7 S	108.6 E	.000	105.61	84.48	5.1	USCGS
		1 19,1	L	NGU					
277	30	04 46 25.0	44.8 N	080.1 E	.000	49.18	65.80	4.9	USCGS
		5 11,8	LM	NGU					
278	02	14 10 44.7	25.7 N	109.5 0	.000	84.18	303.96		USCGS
		14 52,7	LM	EG					
279	02	23 45 00.1	45.4 N	150.8 E	.000	79.95	23.31		USCGS
		23 57 05	P	VG					
		24 32,8	L	EG					
280	03	09 13 33.1	62.8 N	025.2 0	.000	19.95	318.33		USCGS



		9 22 00		S	EG					
		9 26,1		L	EG					
281	04	05 06 41.0	36.0 N	005.1 E	.000	14.80	177.65		BCIS	
		5 10 15	P	EE,VNG		15.0			C	
		5 10 25	PP	NG						
		5 10 32	PPP	VG						
		5 13 03	S	EG,NG						
		5 13 20	SS	NG						
		5 13,7	LQ	EG						
		5 14,6	LR	VG						
		5 15,5	M	EG						
282	04	08 37 40.2	36.3 N	005.1 E	.000	14.50	177.61		USCGS	
		8 45,9	L	EG						
283	04	13 32 12.3	71.3 N	073.1 O	.000	39.15	330.05		USCGS	
		13 39 38	P	EE,NG		38.3			C	
		13 41 07	PP	VG						
		13 45 33	S	NG						
		13 48 09	SS	EG						
		13 48,7	LQ	EG						
		13 50,7	LR	VG						
		13 50,9	MQ	EG						
		13 54,6	MR	VG						
		13 56,7	M	NE						
284	05	17 11 08.0	36.0 N	005.7 E	.000	14.82	175.75		USCGS	
		17 19,1	L	EG						
285	06	01 40 45.0	19.3 S	176.9 O	.005	148.57	2.28		USCGS	
		2 00 20	PKP	NG						
286	06	06 03 52.1	36.4 N	130.6 E	.000	81.20	41.19		USCGS	
		6 16 04	P	VG,NG	.000	81.4				
		6 26 18	S	NG						
		6 31 40	/SS/	EG,NG						
		6 40,8	LQ	NG						
		6 45,9	LR	VG						
		6 48,1	MQ	EG						
		6 51,3	MR	VG						



287	06	20 31 46.1 21 07,6	50.1 N L	129.5 O NG	.000	72.13 330.79	USCGS
288	07	01 16 55.1 1 44 53 1 48 30 1 55,2 2 00,9 2 01,9	36.4 N SS E LQ LR M	130.6 E EG EG,NG EG VG EG	.000	81.20 41.19	USCGS
289	07	07 13 39.9 7 25 47 7 28 48 7 51,0 7 58,1	45.4 N P PP L LM	150.8 E VG NG EG EG	.000	79.95 23.31 79.0	USCGS
290	07	08 50 57.5 9 10 09 9 14 07 9 19,1 9 23,4	11.7 S S SS LQ LR	013.6 O EG,NG EG EG VG	.000	64.11 199.60	USCGS
291	07	12 44 01.1 12 55 25 13 19,6	54.0 N P L	160.3 E VG,EG EG	.012	73.73 14.53	USCGS
292	08	00 47 27.7 2 16,8	28.1 S L	176.8 O NG	.004	157.32 2.66	USCGS
293	08	19 50 29.8 20 09 26 20 09 42 20 11 34 20 32 00 20 49,0	23.6 S PKP E *PPKP E L	179.8 E VG NG VG,NG EG EG	.081 .080	152.63 9.12	USCGS
294	09	02 45 45.5 3 04 49 3 05 00 3 38,0	04.4 S PKP *PPKP L	152.7 E VG VG,EG EG	.000 .000	126.68 40.74	USCGS

295	10	13 09 13.1 13 22,3	36.1 N L - 4 W L	027.3 E NG7.3 E NG	.003 .003	22.08 122.89 22.08 122.89	USCGS
296	10	19 14 26.8 19 34 09 20 23,0	19.0 S PKP LKP L	175.8 E VG5.8 E NG NG	.000 .000	147.56 15.22	USCGS
297	12	08 18 57.9 8 24 22 8 28 40 8 32,2 8 33,1 8 33,2 8 33,1	34.9 N P S - 9 N LQ LR LQ LQ	032.2 E NG NG2.2 E NG VG NG VG	.004 .004 .004 .004	25.65 117.55 25.4 25.65 117.55 25.4	USCGS
298	14	03 52 16.9 5 10,1	31.4 S L	179.0 O NG	.000	160.46 8.62	USCGS
298	14	03 52 16.9 5 10,1	31.4 S L	179.0 O NG	.000	160.46 8.62	USCGS
299	15	00 46 54.1 1 06 16 01 08 58.1 1 21 09 1 27 04 1 42,5 1 51,4 2 01,4 1 51,4 2 01,4	10.3 S PKP PP.3 S /PPS/ SS LQPS/ LR MQ LR MQ	165.6 E VG VG5.6 E VG,NG NG EG,NG NG NG NG NG	.002 .000 .002 .000	136.78 27.52 136.8 136.78 27.52 136.8	USCGS C
300	17	05 54 33.7 6 18 16 06 33,3 33.7 6 18 16 6 33,3	10.6 S SKS L0.6 S SKS L	078.2 O EG 078.2 O EG	.004 .004	93.38 257.60 93.38 257.60	USCGS
301	17	19 20 08.2 19 39 30 19 39 34 19 42 15 19 43 11 19 54 26 20 00 28 20 15,3 26 20 25,1 28 20 29,1 20 37,1 20 29,1 20 37,1	10.1 S PKP I 0.1 S PPP PKS PPS SS S LQ S LR MQ MR MQ MR	165.3 E VG VG5.3 E VEN G VG,EG NGN G NG,EG NG VG NG VG	-.003 -.003	136.50 27.84 136.5 136.50 27.84 136.5	USCGS

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SEPTEMBRE 1961

302	18	16 58 11.0	40.9 N	029.5 E	.000	20.03 109.88	BCIS
		17 02 44	P	VEN G		19.5	D
		17 03 09	PPP	NG			
		17 06 27	S	EG			
		17 06 39	SS	VG			
		17 07 05	PCP	VG			
		17 07,2	LQ	EG,NG			
		17 07,7	LR	VG			
		17 09,4	MQ	NG			
		17 10,6	MR	VG			
		17 13,5	MR	VG			
303	19	16 49 29.9	47.1 N	027.4 O	.000	21.10 272.31	USCGS
		16 54 13	P	VEN G	.000	21.1	
		16 54 42	PPP	NG			
		16 58 07	S	EG,NG			
		16 59,6	LR	NG			
304	20	03 03 32.9	76.5 N	007.9 E	.000	25.87 1.91	USCGS
		3 16,8	L	NG			
305	22	02 56 24.3	19.3 S	175.9 E	-.001	147.87 15.14	USCGS
		3 16 08	PKP	VG			
		4 03,9	L	NG			
306	22	19 21 57.1	19.2 S	175.9 E	-.002	147.77 15.11	USCGS
		19 41 41	PKP1	VG			
		19 41 44	PKP2	VEN G			
		19 33,7	L	NG			
307	22	22 32 10.0	37.5 N	020.6 E	.000	17.62 132.73	USCGS
		22 42,1	L	NG			
308	22	06 40 36.5	16.6 S	028.6 E	.000	70.33 155.30	USCGS
		7 18,7	L	EG			
309	23	22 23 37.7	16.6 S	028.7 E	.000	70.35 155.20	USCGS
		23 02,4	L	NG			

310	24	02 21 40.0 2 15 15 2 19 04 2 21,8	40.8 N P /S/ LR	029.2 E VG,NG EG EG	.000	19.91 110.52	BCIS
311	24	16 30 16.0 16 43 28 16 53 57 16 54 27 17 00 57 17 08,2 17 14,2	10.6 S P SKS S /SS/ LQ LR	078.0 O VG EG EG EG NG VG	.007 .006	93.26 257.45 94.0	USCGS
312	25	07 03 54.6 7 42,2	16.7 S L	028.7 E EG	.000	70.45 155.23	USCGS
313	26	22 31 39.0	47.6 N	012.3 E	.000	6.11 118.53	BCIS
314	29	22 16 41.0 22 20 43 22 26,2	36.6 N P L	018.3 E EG EG	.003	17.36 139.49	BCIS
315	02	05 47 05.5 7 07,9	20.8 S L	174.1 O NG	.000	150.05 357.11	USCGS
316	02	21 05 14.7 21 16,8	35.1 N L	023.5 E NG	.006	20.94 131.21	USCGS
317	03	23 24 34.7 23 37 08 23 40 26 23 47 32 23 53 08 24 06,1 24 11,6 24 19,4	32.2 N P PP S SS LQ LR MR	131.6 E NE EG,NG EG EG NG VG VEN G	.000 0.00	85.21 42.64 84.8	USCGS

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318	04	13 29 13 39	44.6 14	18.1 N P	060.1 E VG	.000	54.63	105.49	USCGS
319	05	01 55 2 15	35.2 06	16.0 S PKP	173.2 O VG	.007	145.25	355.88	USCGS
320	08	23 34 6,8 11,5	26.6	42.7 N LQ LR	110.5 E EG,NG VG	.000	66.95	50.33	USCGS
321	08	00 17 36 34 39 53 1 23,7 1 32,1	01.1	15.1 S PKP PP LQ LR	173.2 O VG VG,NG EG VG	.000 0.00	144.36 144.4	355.95	USCGS
322	08	05 40 5 50,0	28.7	39.0 N L	020.4 E EG,NG	.000	16.34	130.05	USCGS
323	09	21 41 21 43 21 45 21 45	40.0 58 03 41	46.2 N LQ LM LR	012.3 E EG EG VG	.000	6.99	128.08	USCGS
324	11	10 17 10 53,7	07.6	17.8 N L	105.9 O EG,NG	.000	88.54	296.61	USCGS
325	12	11 26 11 39 11 39 11 39 11 39 11 42 11 49 11 54 12 02,5 12 12,1 12 17,3	37.9 05 06,6 12,6 25 24 16 41	44.8 N P I IPCP E E SKS E LQ LR M	149.0 E VG VG VG VG NG NG EG,NG EG VG NG	.001 .000	80.04 80.0	24.73	USCGS C



326	12	18 48 35.5 19 34,2	44.7 N L	149.4 E NG	.003	80.24	24.50	USCGS
327	13	05 17 57.1 5 30 02 5 30 06 5 30 07 5 30 13 5 40 00 5 40 13 5 41 07 5 53,7 5 55,5 6 02,9 6 10,1	44.8 N P E I I*PP IS SKS SPP LQ LR M M	149.5 E VG VG VG EG,NG NG EG NE NE VG NG NG	.004 0.00	80.18 79.6	24.40	USCGS C
328	13	10 10 28.2 10 52,5	44.5 N LR	149.6 E EG	.002	80.48	24.44	USCGS
329	13	12 29 39.2 13 17,2	45.9 N L	151.8 E EG	-.001	79.73	22.46	USCGS
330	13	12 42 13.0 13 31,5	44.4 N L	149.4 E EG	.003	80.52	24.62	USCGS
331	13	12 58 21.6 13 10 27 13 20 26 13 45,5	45.0 N P S LR	150.1 E VG,NG NG NG	.003 .000	80.15 79.6	23.92	USCGS
332	13	14 26 11.9 15 14,2	44.5 N L	149.5 E NG	.003	80.46	24.51	USCGS
333	13	15 59 52.9 16 11 58 16 12 03 16 21 54 16 22 16 16 31 30 16 37,2	45.6 N P E S SCS E LQ	150.5 E VG VG NG EG NG EG	.000	79.69 79.5	23.43	USCGS C



16 45,2

LR

VG

334	13	16 28 58.2 16 41 09	44.9 N P	150.3 E VG	.001	80.29	23.82	USCGS C
335	13	17 25 55.4 17 38 06	44.5 N P	150.8 E VG	.002	80.79	23.63	USCGS
336	13	17 31 18.7 18 11,6 18 20,0	44.3 N LQ LR	149.2 E EG VG	.002	80.56	24.79	USCGS
337	13	18 10 55.2 18 23 14	44.0 N P	150.0 E VG	.002	81.05	24.36	USCGS
338	13	18 14 57.5 18 26 54	45.2 N P	150.8 E VG	.002	80.14	23.38	USCGS
339	13	19 27 38.2 19 39 44 20 10,2 20 20,7	45.7 N P LQ LR	151.7 E VG NG VG	.002	79.89	22.60	USCGS
340	13	21 55 00.8 22 07 14 22 28,5	44.7 N P L	152.1 E NG NG	.003	80.93	22.68	USCGS
341	14	23 52 22.8 4 32 4 47 14 34 14 42 24 05 31,3 42,2	44.5 N P *PP S SKS E LQ LR	150.1 E VG VG EG,NG NG NG EG VG	.003 .003	80.61 80.7	24.10	USCGS
342	14	04 06 01.7	44.9 N	150.2 E	.003	80.27	23.89	USCGS

		4 18 08		P	VG					
		4 42,9		LQ	NG					
		5 00,5		LR	VG					
343	14	04 11 14.0		44.7 N	150.6 E	.002	80.55	23.69		USCGS
		4 23 25		P	VG,NG					
344	14	04 13 03.1		44.9 N	150.7 E	.001	80.39	23.55		USCGS
		4 25 05		P	NG					
345	14	13 21 45.2		44.8 N	151.0 E	.004	80.56	23.39		USCGS
		13 33 52		P	VG,EG	0.00	80.6			
		13 34 03		*PP	EE					
		13 34 08		*SP	VE,VG					
		13 43 55		S	EG,NG					
		13 48 49		E	EG					
		13 53 19		E	NG					
		13 58,3		LQ	EG,NG					
		14 06,2		LR	NG					
346	14	17 50 15.3		45.2 N	151.3 E	.004	80.26	23.04		USCGS
		18 02 18		P	NG					
347	15	06 49 37.8		42.2 N	152.3 E	.001	83.33	23.40		USCGS
		7 34,8		LQ	EG					
		7 41,1		LR	VG					
348	15	09 02 08.3		45.3 N	150.2 E	.001	79.89	23.74		USCGS
		9 45,1		L	NG					
349	15	09 59 26.0		67.4 N	017.9 O	.000	20.00	334.64		BCIS
		10 04 04		P	VG	0.00	20.3			
		10 04 24		PP	VE,NE,VG					
		10 07 34		E	VE,EE,NE					
		10 07 42		S	EE,EG					
		10 08,4		L	EG					
		10 09,8		MR	EG,NG					
350	15	10 47 12.6		44.6 N	149.0 E	.003	80.23	24.81		USCGS

11 30,8 L EG

351	15	11 53 45.5 12 36,9	45.1 N L	151.9 E EG	.003	80.51	22.67	USCGS
352	15	18 23 57.8 18 59,7 19 08,1 19 12,0	45.3 N LQ LM LR	151.0 E NG EG VG	.000	80.10	23.21	USCGS
353	15	20 41 30.2 21 24,1	45.4 N L	151.1 E NG	.003	80.03	23.11	USCGS
354	15	21 44 58.0 22 40,5	03.0 S L	129.9 E NG	-.001	114.07	62.91	USCGS
355	16	05 15 36.1 6 00,7	44.8 N L	150.4 E NG	.000	80.41	23.79	USCGS
356	16	15 43 00.8 15 51 48 15 53 40 15 58 48 16 02 18 16 05,7 16 08,7 16 14,4	38.6 N P PP S /SS/ LQ LR MR	073.4 E VG VE,EE,VG EG,NG NG EG VG VE	.000 .000	48.86 49.0	76.35	USCGS
357	16	20 39 30.5 21 39,2	08.8 N L	137.9 E NG	-.001	108.34	49.01	USCGS
358	17	23 24 34.4 23 36 42 23 36 44 23 39 56 23 46 42 23 47 00 23 52 14	44.6 N P E /PP/ S *SS /SS/	149.0 E VG VG,NG NG NG EG NG	.002 0.00	80.23 80.0	24.81	USCGS

		24 01,2		LQ	EG					
		24 09,2		LP	VG					
359	18	04 01 22.7 4 47,5		44.5 N L	150.4 E EG	.004	80.69	23.90		USCGS
360	18	08 53 33.9 9 31,7		44.8 N L	150.2 E EG	.004	80.36	23.93		USCGS
361	18	17 55 00.2 18 39,9		45.6 N L	150.6 E NG	.001	79.71	23.37		USCGS
362	18	20 05 14.4 20 52,3		47.6 N L	154.5 E NG	.001	78.75	20.10		USCGS
363	18	21 22 52.7 22 15,9		45.2 N L	151.1 E EG	.002	80.21	23.18		USCGS
364	19	02 18 37.9 2 30 42 2 54,7 3 08,5		46.8 N P LQ LR	153.7 E VG EG VG	.002	79.33	20.89		USCGS
365	19	03 34 19.6 3 46 28 4 07,2 4 14,3 4 22,4		46.6 N P E LQ LR	153.8 E VG EG NG VG	.000	79.54	20.89		USCGS
366	19	03 15 02.5 3 55,9		46.5 N L	153.9 E NG	.001	79.66	20.86		USCGS
367	19	03 47 07.7 3 59 16		46.8 N P	153.8 E NG	-.002	79.35	20.82		USCGS

368	19	16 15 21.4 17 00,4	44.4 N L	150.9 E NG	.014	80.91	23.60	USCGS
369	20	00 53 07.2 1 05 14 1 05 23 1 05 42 1 06 10 1 15 16 1 15 30 1 15 37 1 16 34 1 21 06 1 28,9 1 36,3 1 39,9 1 41,1 1 45,3	44.7 N P PCP E I S /SKS/ ISCS /PPS/ /SS/ LQ LR MQ LM MR	150.7 E VG VG VG VG FF NE NG NE EG EE VE EG VE, VG VG	-.002 .000	80.58 80.1	23.63	USCGS
370	20	03 00 10.9 3 13 56	20.8 S PKP	178.6 0 NG	.089	149.99	5.54	USCGS
371	20	08 26 12.3 9 07,0	44.3 N L	149.4 E EG	.000	80.61	24.65	USCGS
372	20	09 10 42.0 9 22 59 9 33 07 9 46,8 9 59,8	44.4 N P S LQ LR	150.0 E NG NG EG VG	.001	80.68 80.8	24.21	USCGS
373	20	11 52 20.7 12 04 30 12 14 36 12 23 44 12 29,7 12 40,4	44.7 N P S E LQ LR	150.2 E VG EG EG EG	.002	80.45 80.4	23.96	USCGS
374	20	12 59 58.6 13 05 51 13 06 09 13 10 34	24.1 N P E S	005.1 E VG VG, NG EG	-.005	26.65 27.9	178.49	USCGS

		13	16,2		L	NG				
375	20	17 41	27.3	44.2 N	149.6 E	.002	80.76	24.55	USCGS	
		17 53	54	P	VG					
		17 54	04	E	EG					
		18 24,6		L	EG					
		18 30,6		LM	EG					
376	21	13 09	05.4	45.2 N	151.6 E	.002	80.34	22.84	USCGS	
		13 54,0		L	NG					
377	21	15 38	24.3	45.5 N	149.7 E	.003	79.58	24.00	USCGS	
		15 50	32	P	VG					
378	21	17 20	46.0	44.1 N	150.3 E	.005	81.04	24.12	USCGS	
		17 32	52	P	NG					
		18 02,9		L	EG					
379	21	20 39	39.3	44.2 N	151.0 E	.003	81.12	23.60	USCGS	
		21 24,6		L	NG					
380	22	03 17	15.2	45.0 N	150.2 E	.002	80.17	23.85	USCGS	
		3 29	25	P	VG					
		3 56,1		LQ	EG					
		4 08,0		LR	VG					
381	22	15 35	26.1	11.6 S	166.3 E	.007	138.21	27.12	USCGS	
		16 49,0		L	NG					
382	22	22 14	07.0	44.1 N	006.0 E	.000	6.79	169.96	BCIS	
		22 16	21	P	NG					
383	23	00 06	09.0	45.7 N	151.6 E	-.002	79.87	22.66	USCGS	
		51,4		L	NG					



384	23	02 38 2 50	18.6 31	45.6 N P	150.1 E VG	-.002	79.59	23.70	USCGS
385	23	09 47 10 30,9	08.1	41.2 N L	144.2 E EG	.003	81.96	29.44	USCGS
386	24	01 06 1 18 1 18 1 18 1 28 1 42,9 1 54,8	25.9 38 42 51 42 9 8	44.5 N P PCP *PP S LQ LR	150.3 E VG VG,NG VEN G EG EG VG	.002 .002	80.66 80.7	23.97	USCGS
387	24	07 26 7 40 7 51 7 51 7 52 7 54 8 15,0 8 33,6	23.9 02 00 30 51 44 0 6	04.9 S P /SKKS/ S /SP/ E LQ LR	102.9 E VG EG EG EG NG NG VG	.003	99.11	86.49	USCGS
388	24	19 19 20 04,6	10.2	28.3 N L	128.5 O EG	.000	90.97	319.72	USCGS
389	24	20 18 21 06,6	12.7	44.4 N L	149.7 E EG	.002	80.60	24.41	USCGS
390	25	04 45 4 46 4 46 4 46 4 46 4 46 4 46 4 46 4 47 4 47 4 47 4 47 4 47 4 47 4 47	31.0 30 34 38 40 46 55 00 09 13 15 16 18	50.8 N PN E P* E PG E E E E SN I E E	001.1 O EG VE,NE,EG EE,NE,EG VE,NG EE NE,NG NE EG NE NG VE,NE NE	.000	3.47 3.6	272.15	BCIS

4 47 24	S*	VE,NE,NG
4 47 26	E	NG
4 47 25,8	E	NE
4 47 30	SG	NG
4 47 42	E	NE,VEN,G
4 47 52	E	VG

391	25	19 58 58.3 20 51,8 21 03,7	12.3 N LQ LR	144.5 E NG VG	-0.001	108.23	41.26	USCGS
392	25	22 49 42.1 23 23,9	36.9 N L	095.2 E NG	0.000	62.98	64.14	USCGS
393	26	03 55 39.7 4 07 50 4 18 10 4 38,0 4 44,3	44.5 N P /S/ LQ LR	150.1 E VG NG NG VG	0.003	80.61	24.10	USCGS
394	26	05 59 44.2 6 12 00 6 43,9	44.5 N P L	149.8 E VG EG	0.004	80.53	24.31	USCGS
395	26	11 21 47.6 11 44 14 12 03,9	44.7 N S L	149.7 E EG EG	0.003	80.32	24.30	USCGS
396	26	11 31 53.0 11 44 02	44.6 N P	149.8 E VG	0.003	80.44	24.27	USCGS
397	26	22 41 29.8 23 40,6	05.2 S L	152.0 E EG	0.006	127.11	41.95	USCGS
398	27	18 24 42.9 18 45 02 19 53,2	24.3 S PKP L	176.1 O VG EG	0.000	153.56	0.94	USCGS

399	27	20 05 38.1 20 17 45 20 55,5	44.5 N P L	150.1 E VG EG	.003	80.61	24.10	USCGS
400	28	07 55 12.3 9 20,1 9 29,3 9 33,0	24.3 S LQ LM LR	176.0 O EG EG VG	.000	153.56	.74	USCGS
401	28	12 03 19.8 12 14 59 12 17 46 12 24 32 12 41,0 12 52,8	52.8 N P PP S LQ LR	159.8 E VG VG NG NG VG	.000	74.80 74.2	15.17	USCGS
402	28	20 36 56.0 21 21,9	44.8 N L	149.6 E NG	.002	80.20	24.33	USCGS
403	28	21 48 24.1 22 00 03	49.9 N P	157.7 E VG	.011	77.22	17.32	USCGS
404	29	20 22 15.7 21 48,8	26.2 S L	177.8 O NG	.003	155.39	4.66	USCGS
405	29	22 22 37.7 22 43 29	24.4 S E	176.1 O VG,NG	.000	153.66	.94	USCGS
406	29	22 41 12.0 22 50,0 22 53,0	17.4 N LQ LR	043.2 E EG VG,EG	.000	45.42	122.82	BCIS
407	30	01 17 31.1 1 30 28	04.8 S P	077.9 O VG	-.002	88.73	261.00	USCGS
408	31	03 17 42.0	21.8 S	175.0 O	.000	151.07	358.77	USCGS

		3 37 31	PKP1	VG	.000	151.0			
		3 37 36	E	VG,NG					
		3 37 51	E	VG,EG					
		3 41 14	PP	VG					
		4 00 34	SS	EG					
		4 37,0	LQ	EG					
		4 45,2	LR	NG					
		4 48,2	M	EG					
409	01	20 59 28.1 21 19 15	22.5 S PKP	176.8 O VG	.006	151.75	2.27		USCGS
410	01	22 41 23.8 22 53 28 23 17,6	44.9 N P L	148.9 E VG,NG EG	.004	79.92	24.76		USCGS
411	02	19 51 58.6 20 01 38 20 03,6	43.3 N S L	029.5 O NG NG	.000	24.10	265.10		USCGS
412	03	03 10 12.7 3 23 01 3 23 08 3 33 28 3 33 42 3 39 37 3 47,7 3 52,6 4 00,7	03.5 S P E SKS S SS LQ LR M	077.8 O VG VG VG,EG VEN,G EG NG VG,NG EG	.000	87.66 87.6	261.73		USCGS C
413	03	14 36 01.0 14 40 00 14 43 07 14 45,0	38.9 N P S LR	021.2 E EG EG,NG VEN,G	.000	16.81 16.8	128.58		BCIS
414	04	01 17 08.9 1 32 07 1 32 24 1 35 47 1 36 07 1 37 02 1 42 46	06.8 S P *PP PKP *PPKP PP SKS2	129.6 E VG VG VE VG VEN,E,VG EE,NE,EG	.007 .007	116.98 117.0	65.58		USCGS C

1	46	40	PS	VE,EE
1	48	05	/PPS/	VG
1	53	15	SS	NE
2	06,3		LQ	NE
2	11,8		LR	EE
2	15,1		LM	VE,NE
2	18,8		MQ	NE
2	23,1		MR	EE

415	04	01 14	33.0	15.1 S	167.3 E	.019	141.82	27.28	USCGS
		1 33	46 0	PKP	VG,NG	.020	142.0		
		1 34	48	E	VE				
		1 36	39	E	VG				
		1 40	32	/SKS/	VE,NE,EG				
		1 49	08	/PPS/	VG				

416	04	15 45	49.0	44.5 N	011.0 E	.000	7.73	142.04	BCIS
		15 49	14	SN	VG				
		15 49	55	SG	VG,NG				

417	04	22 17	07.5	06.8 S	129.8 E	.014	117.10	65.40	USCGS
		23 16,2		L	EG				

418	05	23 52	56.3	01.7 N	126.4 E	-.001	108.25	63.17	USCGS
		7 18		P	VG				

419	06	02 13	16.8	02.6 S	138.4 E	.000	118.36	54.72	USCGS
		2 33	26	PP	VG,EG	.000	118.1		
		2 43	11	/PS/	EG				
		2 49	59	/SS/	NG				
		3 06,2		LQ	NG				
		3 15,4		LR	VG				
		3 17,2		MQ	NG				
		3 24,4		MR	VEN,E				

420	06	02 55	54.0	02.5 S	128.6 E	.000	112.92	63.77	USCGS
		3 53,0		LQ	EG,NG				
		4 10,5		LR	VG				

421	06	21 08	35.0	38.7 N	022.8 E	.010	17.77	125.80	USCGS
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		21 16,1		L	NG				
422	07	12 55 25.6 13 50,7		14.1 N L	146.2 E EG	.002	107.31	38.89	USCGS
423	09	02 46 50.0 2 51 51 2 56 09 2 58,1 2 59,4		56.9 N P E LQ LR	032.5 O VG,NG NG EG,NG VG	.000	22.39	300.16	BCIS
424	09	21 15 30.4 21 27 22 21 27 28 21 27 35 21 29 30 1 29 34 21 30 08 21 35 56 21 36 56 21 37 00 21 37 20 21 37 26 21 37 29 21 38 28 21 40 00 21 40 33 21 41 02 21 41 58 21 46 40 21 47,1 21 50 29		09.0 S P PCP E *PP I*PPCP E E ISKS ISKKS SCS I E SP E E *SSKS E E SSS F	071.5 O VE,EE VE NE,NG VE,VG,EG VE NE,VG,NG EG EG EG EG NE VG EG EG EE,NE EG EE EG NE EG	.089 0.09	88.03 88.5	253.42	USCGS
425	10	01 00 38.8 1 12 31 1 14 41 1 22 00 1 22 22 1 23 30 1 26 15 1 31 55		09.2 S P *PP SKS SCS SP *SSCS E	071.5 O VG,EG EG EG EG EG EG EG	.089 .090	88.18 88.4	253.30	USCGS
426	10	17 17 42.7 17 29 55		44.4 N P	149.0 E VG	.001 0.00	80.42 80.2	24.89	USCGS



17 30 10	*SP	VG
17 39 56	S	NG
17 45 35	E	NG
17 54,9	LQ	EG
18 07,7	LR	VG

427	12	07 06 31.2 7 12 00	35.5 N /PP/	029.7 E VG	.006	23.82 120.17	USCGS
428	12	13 00 00.7 13 11 07	44.2 N P	149.4 E VG	.003	80.71 24.69	USCGS
429	14	04 35 48.5 5 50,2	17.5 S L	167.7 E NG	.000	144.20 27.89	USCGS
430	15	21 06 34.0 21 18 44 21 18 54 21 19 00 21 20 05 21 21 47 21 28 47 21 28 58 21 29 16 21 34 09 21 37 29 21 43,5 21 47,2 21 52,6 22 01,2	44.3 N IP E E E PP S SKS E /SS/ /SSS/ LQ LR MQ MR	149.0 E VL VG EG NE VG,NG NG NG NE NG NG EG NG VG	.003 .000	80.51 24.92 80.5	USCGS
431	16	02 30 07.0 2 42 18 3 13,0 3 22,7	44.3 N P LQ LR	149.0 E VG EG VG	.003	80.51 24.92	USCGS
432	16	06 46 15.7 7 49,5 7 52,5	41.3 S L L	087.5 0 EG EG	-.004	121.46 242.12	USCGS
433	16	22 43 26.4	22.3 S	175.0 0	.000	151.56 358.75	USCGS

		23	03	18	PKP	VG			152.0	
		23	13	55	SKKS	NG				
		23	26	35	SS	EG				
		24	04,1		LQ	NG				
		24	12,1		LR	NG				
434	17	00	48	02.6	07.6 N	037.4 O	.000	55.15	233.52	USCGS
			57	36	P	VEN,G		55.4		
			57	49	E	VE,VG				
		1	01	49	E	EG				
		1	05	14	E	VG				
		1	05	20	S	EN,E				
		1	07	36	E	EG				
		1	09	11	/SS/	NG				
		1	11,0		LQ	EG,NG				
		1	12,3		LR	VG				
		1	15,4		M	EG				
435	17	07	50	34.4	06.3 N	126.6 E	.000	104.59	60.33	USCGS
		8	04	42	P	VG				
436	18	14	38	28.9	29.9 N	113.6 O	-.003	82.85	309.37	USCGS
		15	01	28	E	EG,NG				
		15	06	29	SS	NG				
		15	10	40	E	NG				
		15	12,8		LQ	NG				
		15	16,8		LR	VG				
		15	21,2		MQ	NG				
		15	28,7		MR	VE,EE				
437	19	11	00	54.3	44.4 N	149.2 E	.000	80.47	24.75	USCGS
		11	13	06	P	VG				
438	22	14	45	51.7	44.4 N	149.0 E	.000	80.42	24.89	USCGS
		14	58	04	P	VG	.000	80.5		
		15	08	05	S	NG				
		15	24,1		LQ	EG				
		15	37,2		LR	VG				
439	22	20	26	00.2	37.3 N	030.1 E	-.001	22.75	116.44	USCGS
		20	31	06	P	EG		22.9		
		20	35	12	S	EG				

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		20	38,1		L	EG					
440	22	21	41 31.0	37.5	N	030.0	E	-.002	22.56	116.21	USCGS
		21	50 48	S		EG					
		21	55,0	L		NG					
441	23	07	50 46.3	30.1	N	114.0	O	-.003	82.89	309.77	USCGS
		8	13 43	S		EG					
		8	26,5	LQ		NG					
		8	33,6	LR		VG,NG					
442	23	08	32 31.0	29.9	N	114.0	O	-.003	83.05	309.66	USCGS
		9	15,0	LR		NG					
443	23	19	30 19.4	20.2	S	178.1	O	.075	149.42	4.54	USCGS
		19	49 12	PKP		VG,NG					
444	24	22	58 16.8	56.1	S	027.5	O	.000	109.67	198.32	USCGS
		23	12 51	P		VG					
445	26	16	19 48.8	34.9	N	027.4	E	.000	23.05	124.74	USCGS
		16	24 57	P		VG,NG					
		16	32,2	L		NG					
446	27	22	50 08.9	16.6	S	175.2	E	.000	145.11	15.47	USCGS
			2,9	L		NG					
			12,1	LM		EG					
447	27	07	55 17.0	42.0	N	076.5	E	.000	48.69	70.85	USCGS
		8	21,7	L		NG					
448	02	06	49 09.0	47.9	N	016.4	E	.000	8.38	105.59	BCIS
		6	51 21	PP		NG			8.3		
		6	51 26	E		NG					
		6	51 47	E		NG					
		6	51 55	E		NG					

		6 52 51	SN	EG					
		6 52 58	E	EG,NG					
		6 53 30	E	EE,EG,NG					
		6 53 36	E	EE,VG,EG					
		6 53 44	ISG	NG					
		6 53 47	E	VG					
449	02	20 55 57.0	80.1 N	001.5 O	.000	29.52	357.94		BCIS
		21 03 01	E	VG					
		21 03 41	E	VG					
		21 04 39	E	VG,EG					
		21 06 55	S	EG,NG					
		21 08,1	LQ	EG					
		21 10,2	LR	VG					
450	03	21 15 10.4	12.2 S	166.0 E	.000	138.69	27.81		USCGS
		22 25,6	L	EG					
451	03	23 03 41.6	22.4 S	069.3 O	-.003	97.23	243.56		USCGS
		23 42,9	L	NG					
		23 52,1	LM	NG					
452	04	01 27 34.1	46.2 N	153.1 E	-.002	79.76	21.49		USCGS
		1 39 44	P	VG					
		2 07,8	LQ	NG					
		2 18,1	LR	VG					
453	04	02 43 30.4	45.9 N	153.2 E	.003	80.07	21.53		USCGS
		3 25,9	L	NG					
454	04	08 24 17.1	46.1 N	152.9 E	.000	79.81	21.66		USCGS
		9 07,6	L	EG					
455	04	11 26 37.0	45.0 N	005.3 E	.000	5.84	173.42		BCIS
		11 28 09	PN	NG		5.7			
		11 28 35	PG	VG					
		11 29 16	SN	NG					
		11 29 52	SG	NG					
		11 30 02	E	NG					

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456	04	15 59	42.1	35.5 S	102.8 O	.000	126.72	256.94	USCGS
		16 38	24	/SS/	EG				
		16 42	36	SSS	EG				
		16 59,0		LQ	NG				
		17 11,3		LR	VG				
457	07	04 07	52.8	22.1 S	179.4 O	.080	151.22	7.25	USCGS
		4 26	42	PKP	NG				
		4 26	47	E	NG				
458	07	10 39	00.0	45.0 N	005.3 E	.000	5.84	173.42	BCIS
		10 40	29,6	PN	VG		5.8		
		10 40	45,3	/P*/	NG				
		10 40	55,1	PG	VEN,G				
		10 40	59,9	E	VG,NG				
		10 41	37,8	SN	NG				
		10 42	11,7	ISG	NG				
		10 42	20,9	E	EG				
459	08	07 53	15.1	46.4 N	153.0 E	-.002	79.55	21.49	USCGS
		8 35,6		LQ	NG				
		8 45,5		LR	VG				
460	09	10 53	39.4	21.1 S	178.0 O	.063	150.32	4.45	USCGS
		11 12	44	PKP	VEN,G				
461	10	03 31	21.1	06.2 S	128.1 E	.052	115.63	66.55	USCGS
		3 59	31	SP	EG				
		4 17,1		L	EG				
462	10	10 19	52.0	43.0 N	014.0 E	.000	10.21	136.11	BCIS
		10 26,0		L	NG				
463	11	00 47	48.3	15.1 S	173.6 O	.000	144.38	356.62	USCGS
		1 07	25	PKP	VG				
		1 54,9		L	EG				
464	11	02 31	19.4	17.8 S	178.6 O	.079	147.01	5.18	USCGS

		2	50	04	PKP	NG				
465	11	17 08	12.3	51.1 N	179.3 O	.000	78.53	2.35	USCGS	
		17 54,8		L	EG					
466	12	13 24	57.0	45.0 N	005.3 E	.000	5.84	173.42	BCIS	
		13 26	26	PN	VG		5.8			
		13 26	52	PG	VG					
		13 27	35	SN	VG,NG					
		13 28	15	/SG/	VG,NG					
467	12	13 37	32.0	45.0 N	005.3 E	.000	5.84	173.42	BCIS	
		13 40	46	SG	VG,EG					
468	12	17 23	54.0	45.0 N	005.3 E	.000	5.84	173.42	BCIS	
		17 25	25	PN	VG		5.8			
		17 25	50	PG	VG,EG					
		17 27	05	SG	VG,EG					
469	15	19 34	45.5	04.8 S	108.0 E	.097	102.25	82.42	USCGS	
		19 47	35	P	VG,EG	.01	103.0			
		19 49	56	*PP	VG					
		19 50	40	E	EG					
		19 51	37	E	VG,EG					
		19 52	02	PP	VG,NG					
		19 54	15	/PPP/	VG,NG					
		19 57	12	SKS	EG					
		20 01	08	/SPP/	EG					
		20 01	26	PS	EG					
		20 05	55	/SS/	EG					
		20 09	55	/SSS/	NG					
		20 13	25	SSSS	NG					
		20 29,7		LM	NG					
470	15	01 51	30.6	06.4 S	105.4 E	.005	101.84	85.50	USCGS	
		2 24	58	/SS/	NG					
		2 44,9		L	EG					
471	16	13 47	56.4	37.1 N	020.9 E	-.003	18.09	132.85	USCGS	
		13 52	10	P	VE		18.1			



13	52	26,0	PP	VG
13	52	30,9	E	VG
13	52	36	PPP	EG
13	55	30	S	NG
13	55	40	E	EG
13	57,6		LQ	NG
13	58,9		LR	VG,NG

472	17	17 31	40.0	45.0 N	005.3 E	.000	5.84	173.42	BCIS
		17 34	56	/SG/	VG				

473	18	00 30	02.6	24.8 S	176.6 0	.002	154.04	1.99	USCGS
		49 51		IPKP1	VE	.00	154.5		C
		50 00		*PPKP1	VE,VG				
		50 12		IPKP2	VE				
		50 18		I	VE				
		50 24		*PPKP2	VE				
		50 50		I	VE				
		51 03		I	VE				
		51 22		I	VF				
		51 34		I	VE				
		51 51		E	VE				
		52 12		E	VE				
		53 23		PKS	VG				
		53 53		PP	VE,VG				
		54 19		E	VG				
		54 37		E	VE,VG				
		57 05		E	VG				
		1 00 01		E	EG				
		1 00 28		E	EG				
		1 02 51		E	EG				
		1 04 00		E	EG				
		1 13 00		E	EG				
		1 13 15		/SS/	EG				
		1 18 59		E	EG				
		1 24 14		E	VG				
		1 50,9		LR	VG				

474	19	17 04	07.8	09.7 S	079.1 0	.004	93.25	258.85	USCGS
		17 46,9		L	NG				

475	21	12 34	22.7	21.2 S	175.8 0	.009	150.48	.30	USCGS
		12 53	55	PKP1	VG				
		12 54	07	PKP2	VG				
		13 32	51	E	EG				
		13 55,9		LR	NG				

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476	23	08 48 43.0 8 51 25 8 51 30	46.5 N S* E	007.5 E VG EG	.000	4.78 152.98	BCIS
477	26	08 48 52.1 8 58,1 9 00,8	69.3 N LQ LR	016.5 O NG VG	.000	21.08 339.37	USCGS
478	26	20 50 21.2 21 23,1	36.4 N L	071.3 E EG	.017	48.92 80.01	USCGS
479	28	05 45 20.2 6 40,5	05.1 S L	153.5 E NG	.006	127.65 40.19	USCGS
480	28	17 58 33.1 18 53,0	60.4 S L	051.8 O EG	.003	119.60 208.34	USCGS
481	29	15 31 27.0 15 32 58	46.4 N P	010.4 E VG	.000	5.95 135.37	BCIS
482	30	13 29 25.3 13 41 30 14 07,1	45.5 N P L	150.6 E VG EG	.001	79.81 23.40	USCGS
483	31	17 37 32.1 17 52 14 18 04 21 18 06 38 18 12 00 18 16 24 18 22,8 18 33,7 18 45,3 18 46,6	56.5 S P E E E E G LQ LR M	026.0 O VG EG EG EG EG EG EG VG EG	.000	109.75 197.34	USCGS