

OBSERVATOIRE ROYAL DE BELGIQUE

A

UCCLE

BULLETIN SEISMIQUE

ANNEE

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OBSERVATOIRE ROYAL DE BELGIQUE

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Année 1957

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 1957, les séismographes ont fonctionné sans interruptions

Constantes approximatives des séismographes Galitzine :

E-W	$T_1 = 24^{\circ},5$	$l = 123,8 \text{ mm}$	$A_1 = 1040 \text{ mm}$
	$T = 21^{\circ},8$	$\mu = + 0,2$	$k = 38$
N-S	$T_1 = 24^{\circ},5$	$l = 124,7 \text{ mm}$	$A_1 = 1040 \text{ mm}$
	$T = 21^{\circ},8$	$\mu = + 0,2$	$k = 38$

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

$$\mu = 0,0 ; \quad T = 10^{\circ},0 ; \quad T_1 = 10^{\circ},15 ; \quad k = 290$$

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 1957, la température a varié entre 13,6° et 16,5° C et le degré d'humidité a été maintenu à 60 %.

Analyse des séismogrammes et bulletins. - En 1957, 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	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*					
		312,5	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 microsémique
AG.ATM agitation atmosphérique
MBT : mauvaise base de temps
COM : compression
DIL : dilatation
h=0 = foyer superficiel
h=0,00 = profondeur 33 km.

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1	1	0 56	40.0	53.5 N	159.0 E	.020	73.8	15.4	USCGS	
		1 08	14	P	Z*	0				
2	2	0 39	22.0	53.0 N	168.5 W		76.3	355.6	6.5	USCGS
		51	22	P	Z*,E*,N*	0	76.2			
		51	34	PCP	Z*,N*					
		1 01	15	/PS/	N*					
		1 20		LM	E*					
		1 28		M	E*,N*					
3	2	2 17	35.0	52.5 N	168.0 W		76.8	355.2	6.9	USCGS
		2 29	34	P	Z*,N*	0	76.5			
		2 29	42	PCP	Z*,N*					
		2 39	30	S	N*					
		2 39	54	SCS	N*					
		2 40	10	/PPS/	E*					
		3 08		M	N*					
		3 12,5		M	E*					
		3 18		M	N*					
4	2	3 12	52.0	53.0 N	168.0 W		76.3	355.3	6.5	USCGS
		3 24	49	P	N*	0	76.2			
		3 24	55	PCP	N*					
5	2	3 41	8.0	52.5 N	169.0 W		76.8	355.8	USCGS	
		3 53	06	P	N*	0	76.8			
		3 53	11	PCP	E*					
		4 24		M	E*,N*					
6	2	3 48	44.0	53.0 N	168.0 W		76.3	355.3	7.0	USCGS
		4 00	42	P	N*	0	76.2			
		4 00	48	PCP	E*,N*					
		4 32		M	E*					
		4 40		M	E*					
7	2	4 3	26.0	52.5 N	169.0 W		76.8	355.8	6.7	USCGS
		4 15	26	P	Z*,N*	0	76.8			

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Year	Month	Day	Time	Magnitude	Type	Depth (km)	Latitude	Longitude	Depth (km)	Latitude	Longitude	Depth (km)	Source
	4	15	36		PCP								
	4	47			M								
							Z*,N*						
							N*						
8	2	10	49	32.0			52.5 N	168.0 W		76.8	355.2	6.3	USCGS
		11	01	29	P				0				
		11	11	27	/S/								
		11	34		M								
9	3	0	41	2.0			53.0 N	168.0 W		76.3	355.3	6.4	USCGS
		1	30		LM				0				F. TRACES
10	3	7	36	27.0			38.2 N	21.3 E		17.3	129.9	5.2	BCIS
		7	40	30	P				0	17			
		7	40	41	PP								
11	3	12	48	27.0			44.0 N	130.0 E	.089	74.4	37.5	7.0	USCGS
		12	59	10	P				0.090	74.7			
		12	59	13	PCP								
		13	01	12	pP								
		13	02	11	SP								
		13	03	58	PPP								
		13	07	58	S								
		13	08	18	SCS								
		13	08	54	SPP								
		13	11	37	BS								
		13	13	04	SS								
		13	32		M								
		13	35		M								
12	3	13	43	29.0			44.0 N	130.0 E	.089	74.4	37.5		USCGS
		13	54	14	/P/				0.090				
13	9	7	52	56.0			53.0 N	167.0 W		76.2	354.6	6.2	USCGS
		8	38		LM				0				DEB. CHG. F.
14	11	23	31	50.0			27.0 N	127.5 W		91.6	318.3		USCGS

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				21	LM	N*	0			
15	14	14	20	17.0	22.0 S	179.0 W	.089	151.1	6.5	USCGS
		14	39	09	PKP	VG	0.090			
16	17	22	26	49.0	33.0 N	137.8 E	.051	87.0	37.7	BCIS
		22	38	56	P	N*,VG	0.050			
17	19	5	16	37.0	21.5 S	179.0 W	.097	150.6	6.4 6.5	USCGS
		5	35	23	PKP2	Z*,N*,VG	0.100			
18	20	18	12	47.0	36.5 N	71.5 E	.020	48.9	79.8	USCGS
		18	21	22	P	N*,VG	0.025			
		18	22	07	pP	E*,N*,VG				
19	22	11	18	27.0	4.5 S	28.5 E		58.9	151.6 6.1	BCIS
		11	28	31	P	Z*,E*,N*	0			
20	23	17	26	51.0	37.0 N	22.5 E		18.9	129.8 5.0	USCGS
		17	31	14	P	E*	0	18.8		
		17	31	31	PP	N*				
21	25	3	36	47.0	51.5 N	177.0 W		78.0	.9 6.5	USCGS
		3	48	51	P	VG	0	78		
		3	51	48	PP	VG				
		3	58	45	S	NG				
		4	04	00	SS	NG				
		4	18		LQ	NG				
		4	22		LM	NG				
22	26	16	30	48.0	42.5 N	42.0 E		26.8	93.2 5.0	USCGS
		16	36	34	P	N*	0			

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JANVIER - FEVRIER

23	29	15	21	26.0	42.5 N	42.5 E		27.1	92.8		USCGS
		15	27	13	P	E*	0				
24	30	15	29	.0	20.5 S	174.0 W		149.7	356.9	6.0	USCGS
		15	49	00	PKP	N*	0				
25	3	17	24	50.0	53.5 N	159.0 E		73.8	15.4	6.5	USCGS
		17	36	34	P	N*	0				
		17	44	19	PS	NG					
		18	00		LR	NG					
		18	06		M	NG					
		18	10		M	NG					
26	3	21	11	53.0	53.5 N	159.0 E		73.8	15.4		USCGS
		21	57		LM	NG	0				REPLIQUE
27	3	22	58	24.0	53.5 N	159.0 E		73.8	15.4		USCGS
		23	10	04	P	N*	0				REPLIQUE
		23	44		LM	NG					
28	5	4	51	20.0	25.5 N	45.5 W		45.5	255.5	6.0	USCGS
		4	59	49	P	E*	0				
29	5	16	28	36.0	18.0 S	168.0 E	.011	144.8	27.7		USCGS
		16	48	09	PKP	VG	0.010				
30	6	13	6	13.0	2.0 N	91.0 W		91.9	275.4	6.0	USCGS
		13	50		LR	NG	0				
31	6	20	34	55.0	50.0 N	105.5 E		59.2	47.5	6.4	USCGS

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		20 44 59	P	E*,VG*	0				
		21 04,5	LM	NG					
		21 06,0	LM	NG					
		21 09,0	M	NG					
		21 12,0	M	NG					
32	9	16 38 10.0	41.5 N	126.0 W		78.3	324.2	6.0	USCGS
		17 20,5	M	NG	0				
33	9	17 56 .0	19.0 S	174.0 W		148.2	357.0		USCGS
		18 15 49	PKP2	E*	0				
34	10	5 48 .0	36.0 N	34.5 W		31.4	257.1	5.7	BCIS
		5 54 28	P	E*	0	31.5			
		5 55 29	PP	E*,N*,NG					
		5 59 35	S	E*					
		6 01,5	LQ	NG					
		6 02,5	LR	NG					
		6 04,5	M	NG					
35	10	22 32 15.0	10.0 N	126.0 E		101.2	58.8	6.7	USCGS
		22 46 10	P	N*,VG	0	101.5			
		22 50 26	PP	NG					
		22 56 52	SKS	NG					
		23 21	L	NG					
		23 26	M	N*					
		23 29	M	N*					
36	10	22 50 52.0	10.5 N	126.5 E		101.1	58.1	6.8	USCGS
		23 04 47	P	VG,NG	0				
		23 09 05	/PP/	NG					
		23 15 35	SKS	NG					
		23 47,5	M	NG					
		23 52,0	M	E*					
37	11	1 14 44.0	10.0 N	126.0 E		101.2	58.8	6.6	USCGS
		1 39 17	SKS	E*	0				
		2 04	L	NG					

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		2 08		M	N*						
		2 12		M	N*,NG						
		2 18		M	E*						
38	11	4 4	8.0	10.0 N	126.0 E		101.2	58.8			USCGS
		4 42		L	NG	0					TRACES
39	11	14 25	38.0	10.0 N	126.0 E		101.2	58.8	6.2		USCGS
		15 21		M	NG	0					
40	11	15 42	58.0	52.8 N	1.4 W		4.0	301.5			BCIS
		15 44 01		PN	Z*,E*,N*	0	4.2				
		15 44 11		P*	N*						
		15 44 22		PG	E*						
		15 44 48		SN	Z*,E*,VG						
		15 45 02		S*	Z*,NG						
		15 45 08,8		SiL	Z*						
		15 45 19		SG	Z*,N*						
41	12	8 52	48.0	48.5 N	155.0 E		77.8	19.5			USCGS
		9 04 50		P	VG	0					
		10 40		M	NG						
		10 44		M	NG						
42	12	23 59	40.0	52.8 N	1.4 W		4.0	301.5			BCIS
		24 01 29		SN	Z*,E*,N*	0					
		24 01 43		S*	E*,N*						
		24 01 51		SiL	E*						
		24 02 02		SG	NG						
43	13	0 29	48.0	10.0 N	126.5 E		101.5	58.3	6.3		USCGS
		1 23,5		M	NG	0					
		1 26		M	NG						
		1 31		M	NG						
44	13	12 37	14.0	18.0 S	169.0 E	.026	145.1	26.1			USCGS

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		12 56 28	PKP	E*	0.030				
45	17	15 46 45.0	16.0 N	96.5 W		84.4	288.4	6.0	USCGS
		15 59 11	/P/	N*	0.005				
46	18	14 49 30.0	25.5 N	45.5 W		45.5	255.5	6.0	USCGS
		14 57 51	P	N*,ZG	0				
		15 10	M	NG					
47	19	7 43 56.0	36.5 N	21.7 E		18.9	132.3	6.7	BCIS
		7 48 23	P	E*,N*,VG	0	19.1			
		7 48 40	PP	E*,N*,VG					
		7 48 49	PPP	Z*,E*					
		7 51 55	S	NG					
		7 52 21	SS	VG					
		7 53,5	M	NG					
		7 55,5	M	Z*,E*,N*					
48	19	19 58 55.0	56.0 N	164.0 E		72.1	11.8	5.5	USCGS
		20 40	M	NG	0				
		20 43	M	NG					
		20 49,5	M	NG					
49	20	4 40 59.0	36.4 N	9.0 E		14.7	165.2	5.6	BCIS
		4 44 34	P	Z*,VG,NG	0	15			
		4 44 44	PP	N*,NG					
		4 44 53	PPP	N*					
		4 47 23	S	N*					
		4 47 38	SS	N*					
		4 48,5	LR	E*,NG					
		4 50,0	M	E*,N*,NG					
		4 52,0	M	NG					
50	20	21 58 23.0	2.0 N	97.0 E		90.2	86.7	6.3	USCGS
		22 11 26	P	VG	0				
		22 51	M	NG					MAUV.B.T.

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51	21	1	9	17.0	1.0 S	15.2 W		54.2	204.4		BCIS	
		1	26	26	S	NG	0					
		1	36		LM	NG						
		1	37,5		M	NG						
		1	42		M	NG						
52	21	14	30	6.0	53.0 N	171.0 W	.011	76.4	357.1	6.7	USCGS	
		14	41	48	P	N*,VG	0.010	76.5				
		14	42	15	PP	VG						
		14	42	23	SP	VG						
		14	51	39	SKS	N*,NG						
		14	52	16	PS	NG						
		15	08		LM	NG						
		15	20		M	NG						
53	22	17	12	49.0	49.0 N	156.0 E		77.6	18.7		USCGS	
		17	24	51	P	N*	0					
		18	04		M	NG						
54	23	4	57	46.0	49.0 N	156.0 E		77.6	18.7		USCGS	
		5	48		LM	NG	0				TRACES	
55	23	20	26	12.0	24.0 N	122.0 E		87.5	54.2	7.2	USCGS	
		20	39	04	P	Z*,E*,N*	0	87.3				
		20	39	06	PCP	VG						
		20	42	28	PP	Z*,E*,VG						
		20	49	22	SKS	E*,N*						
		20	49	36	S	NG						
		20	50	47	PS	N*						
		20	55	28	SS	NG						
		21	07		LR	NG						
		21	12		MQ	N*						
		21	17		MR	Z*,N*,NG						
		21	22,5		M	N*,NG						
56	28	23	31	25.0	W de l' Océan Indien							USCGS
		24	20		L	NG	0				TRACES	
57	2	0	27	33.0	18.5 N	78.0 W		71.1	276.2	6.5	USCGS	

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		38	55	P	Z*	0	71.3			
		39	15	PCP	E*					
		41	35	PP	N*					
		48	13	S	N*,NG					
		49	09	/SCS/	N*					
		56		LQ	NG					
	1	01		LR	NG					
58	5	12	24	35.0	32.7 N	39.5 W	36.7	257.6	6.0	BCIS
		12	31	51	P	Z*,E*	0	37.0		MAUV.B.TPS
		12	33	16	PP	Z*				
		12	37	37	S	E*				
		12	42,0		LR	N*				
59	8	12	14	14.0	39.5 N	22.8 E	17.1	124.0	6.8	BCIS
		12	18	18	P	E*	0	17.4		
		12	18	32	PP	N*				
		12	18	39	PPP	N*,NG				
		12	18	49	/PPPP/					
		12	21	31	S	NG,VG				
		12	21	49	SS	NG,VG				
		12	22	00	SSS	N*				
		12	22,5		LR	NG				
		12	23,2		M	NG				
60	8	12	21	14.0	39.5 N	22.8 E	17.1	124.0	7.0	BCIS
		12	25	18	P	Z*	0	17.4		REPLIQUE
		12	25	33	PP	N*				
		12	28	31	S	E*,N*,Z*				
		12	29,0		LR	N*				
		12	30,2		M	E*				
		12	30,6		M	N*				
61	8	12	54	1.0	39.5 N	22.8 E	17.1	124.0		BCIS
		12	58	12	P	N*	0			REPLIQUE
62	8	20	38	2.0	39.5 N	22.8 E	17.1	124.0	5.8	BCIS
		20	42	07	P	N*	0			REPLIQUE
		20	42	27	PPP	N*				
		20	45	22	S	N*				
		20	47,5		M	N*				

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63	8	23 35	11.0	39.5 N	22.8 E	17.1	124.0	6.2	BCIS
		23 39 15		P	E*,N*	0	17.4		MAUV.B.TPS
		23 39 30		PP	E*,N*				REPLIQUE
		23 42 31		S	E*				
		23 44,8		M	E*				
64	9	14 22	27.5	51.3 N	175.8 W	78.2	.1	8.2	USCGS
		14 34 31		P	VG,N*	0	78.0		
		14 34 37		PCP	E*				
		14 37 25		PP	E*				
		14 44 25		S	N*				
		14 45 03		PS	E*				
		14 55		LQ	E*				
		15 02		LM	E*				
		15 12		M	E*				
65	9	15 41	50.0	50.5 N	177.0 W	79.0	.9		USCGS
		15 53 57		P	E*,N*	0			
		15 54 07		PCP	N*				
66	9	16 16	26.5	Iles Andéanov					BCIS
		16 28 34		P	E*	0			
67	9	19 19	5.0	Aléoutiennes					BCIS
		19 31 13		P	N*	0			
68	9	19 42	24.0	Iles Andréanov					BCIS
		19 54 09		P	N*	0			
69	9	20 0	56.0	51.5 N	170.5 W	77.9	356.7		USCGS
		20 13 03		P	E*,N*	0			
70	9	20 7	1.0	51.5 N	171.0 W	77.9	357.0		BCIS

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		20	19	04	P	N*	0				
71	9	20	22	2.0	52.0 N	169.5 W		77.3	356.1		USCGS
		20	34	03	P	E*,N*	0				
72	9	20	39	15.0	52.5 N	169.5 W		76.8	356.2	7.0	USCGS
		20	51	20	PCP	N*	0	76.8			
		21	11		LQ	N*					
		21	21		M	N*					
73	9				Données discordantes						BCIS
		23	19	12	P	N*	0				
74	9				Données discordantes						BCIS
		23	33	46	P	N*	0				
75	10	0	11	29.0	52.7 N	173.7 W		76.8	358.8		BCIS
			23	33	P	N*	0				
76	10	3	6	2.0	52.0 N	176.0 W		77.5	.2	6.8	USCGS
		3	18	15	PCP	E*,N*	0				
		3	53		M	N*					
		3	56		M	E*					
77	10	7	23	18.0	52.0 N	176.0 W		77.5	.2		USCGS
		7	35	24	PCP	N*	0				MAUV.B.TPS
78	10	11	20	45.0	52.0 N	171.0 W		77.4	357.1	6.6	USCGS
		11	32	52	PCP	E*,N*	0				MAUV.B.TPS
79	10	12	12	18.0	Iles Andréanov						USCGS

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MARS

		12 24 46	/P/	N*	0					MAUV.B.TPS
80	10	12 36 4.0	51.0 N	171.0 W		78.4	357.0	6.1		USCGS
		12 48 15	P	N*	0					MAUV.B.TPS
81	10	12 45 31.0	51.0 N	177.0 W		78.5	.9	6.4		USCGS
		12 57 40	P	E*,N*	0					
82	10	13 10 13.0	51.5 N	180.0 E		77.9	2.8	6.5		USCGS
		13 22 19	P	N*	0					
83	10	13 28 30.0	51.5 N	179.0 W		77.9	2.1	6.5		USCGS
		13 40 33	P	N*	0					
84	10	14 45 54.0	Aléoutiennes							BCIS
		14 57 53	P	N*	0					
85	10	15 26 23.0	52.0 N	173.0 W		77.4	358.3	6.7		USCGS
		15 38 18	P	E*,N*	0					
86	10	15 48 36.0	Iles aux Renards							BCIS
		16 00 33	P	N*	0					
87	10	16 39 48.0	Iles Andréanov							BCIS
		16 51 48	P	N*	0					
88	10	20 57 4.0	54.0 N	167.0 W		75.2	354.7			BCIS
		21 08 56	P	N*	0					

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89	10	23	36	45.0	51.5 N	176.0 W	78.0	.2		BCIS
		23	48	48	P	E*,N*	0			
90	10	23	56	50.0	53.0 N	169.0 W	76.3	355.9		USCGS
		24	08	50	PCP	N*	0			
91	11	3	12	41.0	51.0 N	177.0 W	78.5	.9	6.6	USCGS
		3	24	47	P	N*	0	79.0		
		3	24	57	PCP	E*				
		3	34	45	S	N*				
		3	50		LM	N*				
		3	57		MQ	N*				
		4	09		MR	N*				
92	11	7	8	.0	51.0 N	177.0 W	78.5	.9		USCGS
		7	20	05	P	N*	0			
93	11	8	42	48.0	50.5 N	178.0 W	79.0	1.5		USCGS
		8	55	06	P	N*	0			
94	11	9	58	42.0	53.0 N	164.5 W	76.0	353.1	7.1	USCGS
		10	10	40	PCP	Z*	0			
		10	34		LR	E*				
		10	42		MQ	N*				
		10	50		MR	E*				
95	11	12	9	10.0	2.0 N	97.0 E	90.2	86.7	6.4	USCGS
		12	22	00	PCP	N*	0			
96	11	14	55	19.0	51.5 N	178.5 W	77.9	1.8	7.0	USCGS
		15	07	24	P	Z*,E*,N*	0	78.0		
		15	07	34	PCP	N*				
		15	17	14	S	N*				
		15	28,0		LQ	E*				

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		15 41,0		M	N*,Z*					
		15 46,0		M	N*					
97	11	15 35	50.0	51.0 N	179.0 W	78.4	2.2	6.6	USCGS	
		15 47	59	P	Z*,N*					
98	11	23 32	3.0	52.0 N	173.0 W	77.4	358.3		USCGS	
		23 44	31	PCP	N*	0				
99	12	1 4	24.0	51.0 N	172.0 W	78.4	357.7		BCIS	
		1 16	34	P	N*	0				
100	12	7 28	46.0	51.5 N	173.5 W	78.0	358.6	6.5	USCGS	
		7 40	50	P	N*	0				
101	12	7 39	17.0	52.0 N	178.0 W	77.5	1.5	6.5	USCGS	
		7 51	24	P	E*,N*	0				
102	12	8 3	11.0	51.0 N	178.0 W	78.5	1.5		USCGS	
		8 15	18	P	N*	0				
103	12	11 44	50.0	51.0 N	177.0 W	78.5	.9	7.2	USCGS	
		11 56	58	P	N*	0	78.7			
		11 57	04	PCP	Z*,N*					
		11 59	56	PP	N*					
		12 06	51	S	N*					
		12 11,9		SS	N*					
		12 25		LM	E*,N*					
		12 31		MQ	E*					
		12 38		MR	E*,N*					
104	12	Données discordantes								BCIS
		16 23	15	/P/	N*	0				

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MARS

105	12	19 11	16.0	16.0 S	176.5 W	.058	145.3	1.5		USCGS
		19 30	13	PKP	Z*	0.060	145.0			
		19 31	51	pPKP	Z*					
106	13	2 48	20.0	52.0 N	171.5 W		77.4	357.4	6.1	USCGS
		3 00	32	PCP	N*	0				FAIBLE
107	13	3 32	58.0	52.0 N	175.0 W		77.5	359.6		USCGS
		3 45	06	PCP	N*	0				
108	13	15 42	5.0	51.5 N	179.0 W		77.9	2.1	6.9	USCGS
		15 54	18	PCP	N*	0	78.0			
		16 04	02	S	N*					
		16 27		M	N*					
		16 35		M	N*					
109	13	19 59	23.0	54.0 N	166.0 W		75.1	354.1	6.2	USCGS
		20 11	12	P	N*	0				
110	14	0 27	36.0	Iles aux Renards						BCIS
		39 42		P	E*	0				
111	14	14 47	45.0	51.5 N	177.0 W		78.0	.9	7.1	USCGS
		14 59	50	/P/	Z*,N*	0				
		14 59	58	PCP	E*,N*					
		15 09	42	S	N*					
112	14	15 5	6.0	51.5 N	177.0 W		78.0	.9		BCIS
		15 17	14	/P/						M.B. TEMPS
113	15	2 52	8.0	53.0 N	167.0 W		76.2	354.6	6.5	USCGS

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MARS

3 04 05 P N* 0
3 04 09 PCP Z*,N*
3 38 M N*

114 15 4 12 56.0 51.0 N 176.0 W 78.5 .2 USCGS

4 25 05 P N* 0

115 16 2 34 12.0 52.0 N 179.0 W 77.4 2.1 6.7 USCGS

2 46 14 P E*,N* 0
2 46 22 PCP E* 77.5
2 56 07 S N*
2 56 29 SCS N*
3 09 LR E*
3 20 MQ E*
3 28 MR N*

116 17 7 4 40.0 52.5 N 169.0 W 76.8 355.8 USCGS

7 16 42 P N* 0 M.B.TEMPS

117 17 7 53 51.0 51.0 N 179.0 W 78.4 2.2 6.1 USCGS

8 05 55 P N* 0

118 17 22 44 44.0 54.0 N 166.0 W 75.1 354.1 6.6 USCGS

22 56 35 /P/ Z*,E*,N* 0
22 56 45 PCP N*

119 18 0 12 10.0 51.0 N 179.5 W 78.4 2.5 USCGS

24 20 PCP N* 0

120 18 2 25 56.0 51.5 N 171.0 W 77.9 357.0 6.2 USCGS

2 37 59 P N* 0

121 18 5 8 34.0 51.5 N 179.0 W 77.9 2.1 USCGS

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MARS

		5	20	47	PCP	N*	0				
122	18	23	17	25.0	44.6 N	33.0 E	20.1	96.7	5.7	BCIS	
		23	22	07	P	Z*,E*,N*	0			M.B.TEMPS	
123	19	11	28	50.0	51.5 N	176.5 W	78.0	.5		USCGS	
		11	41	06	/P/	N*	0			M.B.TEMPS	
124	19	12	50	51.0	51.5 N	175.0 W	78.0	359.6	6.6	USCGS	
		13	02	56	P	N*	0				
		13	03	02	PCP	N*					
		13	29		LM	N*					
		13	42		M	N*					
125	20	0	22	25.0	53.0 N	169.0 W	76.3	355.9		USCGS	
		34	21		P	N*	0			M.B.□TEMPS	
126	21	12	31	30.0	52.0 N	171.0 W	77.4	357.1		USCGS	
		12	43	35	P	N*	0			M.B.□TEMPS	
127	22	14	21	6.0	54.0 N	166.0 W	75.1	354.1	7.1	USCGS	
		14	32	54	P	Z*,N*	0			M.B.□TEMPS	
		14	33	08	PCP	N*					
		14	35	44	PP	N*					
		14	42	32	S	E*,N*					
		14	47		/SS/	E*					
		15	04		M	N*					
128	23	5	12	31.0	5.5 S	131.0 E	.010	116.8	63.5	7.1	USCGS
		5	32	24	PP	N*	0.010				
129	23	13	24	33.0	51.5 N	179.0 W	77.9	2.1		USCGS	
		13	36	41	P	N*	0			FAIBLE	

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MARS

130	25	5 37	25.0	54.0 N	163.5 W	75.0	352.6		USCGS
		5 49	26	PCP	N*	0			
131	25	6 46	13.0	46.0 N	3.5 E	4.8	187.1		BCIS
132	25	14 13	33.0	54.0 N	165.5 W	75.1	353.8		USCGS
		14 25	33	PCP	N*	0			FAIBLE
133	28	20 8	20.0	51.0 N	171.5 W	78.4	357.3	5.7	USCGS
		20 47		LM	N*	0			
		20 58		M	N*				
		21 04		M	N*				
134	28	22 26	.0	39.5 N	22.7 E	17.1	124.2	5.9	BCIS
		22 30	03	P	E*	0			FAIBLE
		22 34,6		LR	NG				
		22 35,9		M	N*,VG,NG				
135	29	5 10	28.0	53.5 N	167.0 W	75.7	354.7	6.7	USCGS
		5 22	19	P	Z*,VG	0	75.9		
		5 25	13	PP	NG				
		5 32	00	S	E*,NG				
		5 32	38	PS	NG				
		5 32	53	PPS	E*				
		5 41		LQ	NG				
		5 48		LM	N*				
		5 57		M	E*				
136	29	22 49	51.0	53.0 N	169.0 W	76.3	355.9	6.0	USCGS
		23 01	47	/P/	Z*	0			
		23 01	58	PCP	Z*				
		23 12	27	PPS	NG				
		23 27		LM	NG				
		23 34		M	NG				
		23 39		M	NG				
		23 41,5		M	NG				

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AVRIL

137	1	11 35	30.0	51.0 N	173.0 W		78.5	358.3	6.1	USCGS
		11 47	36	P	VG	0				
138	2	0 39	42.0	51.0 N	173.0 W		78.5	358.3	6.3	USCGS
		51 50		P	N*,VG	0				
		1 17		L8	NG					
		1 31,7		M	NG					
139	2				Région de Salta					BCIS
		5 05,4		LM	NG	0				
140	2	20 16	57.0	51.5 N	173.0 W		78.0	358.3	6.3	USCGS
		20 54,0		LM	NG	0				
		21 08,9		M	NG					
141	2	21 27	54.0	51.0 N	173.0 W		78.5	358.3	6.3	USCGS
		21 40 00		P	VG,NG	0				
		22 05,5		LM	NG					
142	4	0 13	8.0	58.0 N	155.5 W		70.2	348.8	6.0	USCGS
		24 08		P	Z*	0				
143	4	0 50	47.0	53.0 N	168.0 W		76.3	355.3		USCGS
		1 02 24		P	N*	0				
144	5	7 30	22.0	26.5 S	177.0 W	.010	155.7	3.0	6.7	USCGS
		7 50 42		PKP	N*	0				
145	8	20 18	9.0	8.5 N	83.0 W		81.8	273.4	6.0	USCGS
		21 02,5		M	NG	0				

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AVRIL

146	9	0 24	39.0	30.5 N	138.5 E	.065	89.5	38.3	6.8	USCGS
		36 42		P	N*	0				
147	10	3 25	20.0	53.0 N	168.0 W		76.3	355.3	5.0	USCGS
		3 37	12	P	N*	0				
148	10	5 12	8.0	15.5 N	98.0 W		85.7	289.2	6.6	USCGS
		5 24	54	P	E*	0				
		5 35	16	SKS	E*					
		5 35	28	/S/	E*					
149	10	11 29	58.0	55.3 N	153.5 W		72.6	347.0	7.2	BCIS
		11 41	26	P	VG	0	72.2			
		11 41	44	PCP	N*					
		11 50	49	PS	E*					
		11 51	36	PPS	N*					
		12 10,4		M	N*					
150	11	17 40	37.0	52.0 N	168.5 W		77.3	355.5	5.7	USCGS
		17 52	22	P	N*	0				
151	14	7 11	50.0	31.0 N	84.5 E		60.7	76.0	6.7	BCIS
		7 22	40	PCP	E*	0	60.7			
		7 24	10	PP	N*					
		7 30	27	PS	E*					
		7 43,5		M	N*					
152	14	19 18	.0	15.0 S	173.2 W		144.2	356.0	7.2	BCIS
		19 37	37	PKP	N*	0	144.0			
		19 40	57	PP	N*					
		19 41	12	PKS	N*					
		20 25,5		LR	N*					
		20 32,5		LM	E*,N*					
153	14	20 59	.0	50.5 N	179.0 W		78.9	2.2		USCGS

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AVRIL

		21 11 09	P	N*	0					
		21 11 14	PCP	E*						
154	15	21 33 5.0	52.5 N	167.0 W		76.7	354.6	6.4		USCGS
		21 45 04	P	N*	0					
		21 45 16	PCP	N*						
155	16	4 4 4.0	4.5 S	107.5 E	.089	101.8	82.6	7.2		USCGS
		4 21 14	PP	Z*,E*	0.089	101.5				
		4 26 38	SKS1	E*						
		4 27 24	SKS2	E*						
156	19	15 44 53.0	51.5 N	168.5 W		77.8	355.4	6.7		USCGS
		15 56 54	P	Z*,N*,VG	0					
		16 25,5	LM	NG						TRACES
157	19	22 19 26.0	52.0 N	166.5 W		77.2	354.2	7.3		USCGS
		22 31 24	P	N*	0	77.0				
		22 31 37	PCP	VG						
		22 34 22	PP	NG						
		22 41 10	S	N*						
		22 41 33	SKS	NG						
		22 41 37	SCS	NG						
		22 42 06	PPS	NG						
		22 46 12	SS	NG						
		22 49 30	SSS	NG						
		22 57,5	LM	N*,NG						
		23 08,5	M	E*						
158	20	12 30 40.0	6.2 S	147.7 E		126.1	47.3	6.6		BCIS
		13 29,5	LR	NG	0					
		13 37,5	LM	NG						
		13 40,5	M	NG						
159	21	21 12 26.0	7.0 N	72.0 W		76.0	263.8	6.6		USCGS
		21 24 18	P	Z*,E*,VG	0	76.0				
		21 24 25	PCP	VG						
		21 27 09	PP	VG						

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AVRIL

21 33 57	S	NG
21 34 26	SKS	E*
21 38 56	SS	NG
21 45,0	LQ	NG
21 51,4	LM	NG

160	22	13 43 14.0	7.0 N	72.0 W	76.0	263.8	USCGS
		13 55 04	P	VG	0		
161	23	21 58 35.0	27.0 S	68.0 W	100.2	239.8	USCGS
		22 52,5	M	NG	0		
		22 59,5	M	NG			
162	24	19 10 16.0	36.3 N	29.1 E	22.9	119.7 6.9	BCIS
		19 15 09	P	Z*,E*,N*	0	23.0	
		19 15 31	PP	Z*,E*,VG			
		19 15 54	PPPP	E*,N*			
		19 19 08	PCP	N*,VG,NG			
		19 19 22	S	VG			
		19 20 16	SSS	VG			
163	25	2 25 36.0	36.5 N	28.9 E	22.6	119.7 7.2	BCIS
		2 30 39	P	Z*,E*,N*	0	22.3	
		2 31 04	PP	VG			
		2 31 21	PPPP	E*			
		2 34 40	S	NG			
		2 35 31	SSS	VG			
		2 38,3	M	VG			
164	25	10 16 18.0	4.5 S	134.0 E	117.6	60.1 5.0	USCGS
		11 20,5	M	NG	0		TRACES
165	25	11 6 2.0	1.5 N	126.0 E	108.2	63.6 5.2	USCGS
		12 03,5	LM	NG	0		TRACES
166	26	6 33 43.0	36.3 N	29.1 E	22.9	119.7 6.7	USCGS

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		6 38 51	P	Z*	0	22.8			
		6 39 25	PPP	E*,N*					
		6 42 53	S	N*					
167	26	15 8 22.0	45.0 N	148.0 E		79.4	25.3		USCGS
		15 20 33	P	VG,NG	0				
168	27	05 51 30.0	Iles Fidji						USCGS
		6 11 10	PKP	VG	0				
169	27	11 30 33.0	20.0 S	170.0 E	.010	147.2	25.5		USCGS
		11 50 07	PKP	VG	0.010	147.0			
170	28	1 23 40.0	7.0 N	127.0 E		104.3	59.6	6.5	USCGS
		2 15,7	LM	NG	0				
		2 20,7	M	NG					
171	28	14 48 52.0	52.5 N	168.5 W		76.8	355.5	5.7	USCGS
		15 00 51	P	VG,NG	0				
		15 11 14	PS	NG					
		15 38,7	M	NG					
172	28	20 3 42.0	50.5 N	178.0 W		79.0	1.5		USCGS
		20 15 45	P	VG	0				
173	29	4 30 4.0	52.5 N	168.5 W		76.8	355.5	5.5	USCGS
		4 42 01	P	VG,NG	0				
		5 19,1	LM	NG					
174	29	20 55 57.0	9.0 S	107.0 E		104.9	85.9	6.2	USCGS
		21 15 15	PP	N*	0				
		21 56,1	M						

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MAI

175	2	3 55	34.0	72.0 N	67.5 W		37.1	330.8	6.0	USCGS
		4 02	50	P	E*,N*,VG	0	37.0			
		4 08	37	S	NG					
		4 13.1		LR	NG					
		4 14.6		LM	NG					
		4 16.1		M	NG					
176	2	10 34	14.0	56.5 S	123.0 W		148.8	238.7	6.5	USCGS
		10 54	32	PKP	VG	0				
		11 48.1		LM	NG					
		11 58.1		M	NG					
177	2	11 29	13.0	52.5 N	169.0 W		76.8	355.8	6.3	USCGS
		11 41	11	P	VG,NG	0				
178	2	11 38	52.0	52.5 N	169.0 W		76.8	355.8	6.4	USCGS
		11 50	50	P	VG	0				
179	4	10 5	45.0	3.5 S	137.0 E		118.4	56.6	6.4	USCGS
		11 08.5		M	NG	0				
180	6	11 19	47.0	52.0 N	173.0 W		77.4	358.3		USCGS
		11 31	47	P	VG	0				
181	7	5 36	32.0	51.5 N	179.5 E		77.9	3.1		USCGS
		6 28.7		LM	NG	0				
182	8	20 9	53.0	15.5 S	179.0 E	.058	144.5	8.9		BCIS
		20 28	55	PKP	Z*	0.060				
183	12	1 59	26.0	39.2 N	20.5 E		16.2	129.4		BCIS

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MAI

		2 08,8	LM	NG	0				
184	12	4 47 44.0	60.5 S	26.0 W		113.5	195.8		BCIS
		5 17 01	PS	NG	0	113.5			
		5 17 12	PPS	NG					
		5 48,8	M	NG					
185	12	6 48 27.0	53.0 N	142.0 E		70.5	25.6 5.5		BCIS
		7 30,8	LM	NG	0				
186	12	7 52 31.0	39.5 N	22.7 E		17.1	124.2 5.0		BCIS
		7 56 31	P	N*,VG	0				
187	12	11 29 7.0	8.5 S	107.5 E		104.9	85.2 6.2		USCGS
		12 24,2	LM	NG	0				
		12 30,8	M	NG					
188	13	4 33 48.0	Est de l' Ile de Rhodes						BCIS
		4 46,5	LM	NG	0				
189	13	6 34 33.0	39.4 N	22.6 E		17.1	124.6 5.0		BCIS
		6 44,1	LM	NG	0				
190	17	20 42 44.0	17.2 N	108.2 W		90.3	298.0		BCIS
		21 25,8	LM	NG	0				
191	18	5 24 1.0	51.0 N	171.0 W		78.4	357.0 6.2		USCGS
		5 36 07	P	Z*,N*,VG	0	78.1			
		5 39 06	PP	NG					
		5 46 01	S	NG					
		5 51,3	SS	NG					
		6 05,8	LM	NG					

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192	19	3 20	44.0	39.2 N	20.7 E	16.3	129.0		BCIS	
		3 30,2		LM	NG	0				
193	19	20 45	3.0	25.0 N	125.5 E	88.4	51.0		USCGS	
		20 58 01		P	N*	0				
		21 39,1		LM						
194	20	1 50	54.0	51.0 N	180.0 E	78.4	2.8	5.7	USCGS	
		2 12 59		S	NG	0				
		2 39,0		M	NG					
195	20	19 57	34.0	38.6 N	14.5 E	.004	14.1	145.6	5.6	BCIS
		20 01 55		P	NG	0				
		20 04,5		M	NG					
		20 07,0		M	NG					
196	21	1 11	58.0	21.5 N	144.0 E	.010	99.7	37.7	7.2	BCIS
		1 26 00		pP	N*	0.010	100.0			
		1 36 01		SKS	N*					
		1 36 50		/S/	N*					
		1 38 29		SP	NG					
		1 38 53		/SPP/	NG					
		1 43 42		SS	NG					
		2 00,0		LM	NG					
		2 06,8		M	NG					
197	21	11 44	6.0	38.6 N	14.5 E	.005	14.1	145.6	4.5	BCIS
		11 47 31		P	E*,N*	0	13.9			
		11 47 40		PP	E*					
		11 50 07		S	NG,VG					
		11 51,0		LR	NG					
		11 53,5		M	NG					
198	21	11 36	6.0	36.5 N	141.5 E	85.2	33.4		BCIS	
		12 23,8		LM	NG					

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MAI

199	21	13 24	18.0	39.4 N	22.9 E	17.2	124.1	5.5	BCIS
		13 28	16	P	N*	0	17.0		
		13 28	33	PP	N*				
		13 28	45	/PPP/	VG				
		13 31	48	SS	NG				
		13 33,3		LR	NG				
		13 33,8		M	NG				
200	22	13 29	44.0	50.0 N	177.0 W	79.5	.9	6.5	USCGS
		13 41	58	P	N*	0			
		13 52	02	S	N*,NG				
		13 52	58	/PPS/	NG				
		13 57	27	/SS/	NG				
		14 00	51	/SSS/	NG				
		14 07,6		LM	NG				
		14 17,2		M	NG				
201	24	2 37	37.0	3.0 N	76.5 W	81.9	264.8	6.5	USCGS
		2 50	02,5	P	VG	0			
		2 53	09	PP	VG				
		3 14,5		LR	NG				
202	24	3 36	33.0	53.0 N	167.5 W	76.2	354.9	5.7	USCGS
		3 48	23	P	NG	0			
		3 58,3		S	E*,N*,NG				
		4 14,6		LM	NG				
		4 19,5		M	NG				
203	25	16 21	40.0	42.8 N	15.3 E	10.9	132.7	4.2	BCIS
		16 28,2		LM	NG	0			
204	26	6 33	30.0	40.7 N	31.2 E	21.1	108.1	7.1	BCIS
		6 38	19	P	Z*,E*,N*	0	21.0		
		6 38	23	/pP/	Z*,E*,VG				
		6 38	27	/sP/	N*,VG,NG				
		6 38	42	PP	VG				
		6 38	57	PPPP	E*,N*				
		6 42	09	S	VG,NG				

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		6 42 16	/SS/	N*,VG					
		6 42 29	PCP	VG					
		6 42 37	/SS/	VG					
		6 43,1	LR	N*					
		6 45,3	MR	VG					
205	26	8 54 45.0	40.5 N	31.0 E		21.1	108.8	5.4	BCIS
		8 59 32	P	VG	0				
		9 03 27	S	N*,NG					
		9 06,6	M	NG					
206	26	9 36 33.0	41.0 N	31.0 E		20.8	107.7	6.0	USCGS
		9 41 23	P	E*,N*	0	20.5			
		9 41 51	PP	NG					
		9 45 07	S	E*,N*,NG					
		9 46,8	LM	NG					
		9 48,0	M	NG					
207	27	6 20 34.0	41.0 N	31.0 E		20.8	107.7		BCIS
		6 25 21	P	N*	0				
		6 29 05	S	NG					
208	27	11 1 26.0	40.5 N	31.0 E		21.1	108.8	6.0	USCGS
		11 06 20	P	VG	0				
209	28	0 9 45.0	40.5 N	31.0 E		21.1	108.8		USCGS
		21,1	LM	NG	0				
210	28	5 51 30.0	25.5 N	95.0 E		71.0	72.8	6.0	USCGS
		6 28,8	LM	NG	0				
211	29	18 39 14.0	37.4 N	24.0 E		19.3	126.2	5.5	BCIS
		18 43 39	P	VG,NG	0				
		18 44 06	PPP						
		18 47 19	S						

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212	30	0 18 52.0	20.0 S	175.0 W		149.3	358.8		USCGS
		38 49	PKP	VG,NG	0				
		1 45,8	M	NG					
213	30	14 29 50.0	41.0 N	31.0 E		20.8	107.7		BCIS
		14 40,8	LM	NG	0				
214	31	2 16 27.0	27.5 S	63.0 W	.089	97.9	235.9	6.2	USCGS
		2 29 08	P	VG	0.090				
		2 42,9	LM	NG					
215	31	3 10 18.0	54.0 N	163.5 W		75.0	352.6		USCGS
		3 56,9	LM	NG					
216	31	22 17 10.0	51.0 N	179.5 W		78.4	2.5	6.0	USCGS
		22 29 13	P	N*,VG	0	78.5			
		22 29 20	PCP	E*					
		22 39 09	S	N*					
		23 01,5	M	NG					
217	1	5 26 50.0	40.7 N	31.2 E		21.1	108.1		BCIS
		5 31 42	P	E*,N*	0	21.1			
		5 35 33	S	N*					
		5 36,9	LM	NG					
		5 38,5	M	NG					
218	1	19 35 8.0	1.0 N	91.0 W		92.6	274.8		USCGS
		20 19,9	LM	NG	0				
219	1	21 8 12.0	40.7 N	31.2 E		21.1	108.1		BCIS
		21 16 53	S	N*	0				
		21 18,9	LM	NG					

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		21	21,2		M	NG						
220	1	22	28	20.0	51.5 N	175.5 W		78.0	359.9			BCIS
		23	10,9		LM	NG	0					
221	2	1	11	56.0	40.7 N	31.2 E		21.1	108.1			BCIS
		1	16	43	P	E*	0					
		1	20	39	/S/	NG						
		1	22,5		LR	NG						
		1	24,2		M	NG						
222	2	21	21	45.0	52.5 N	160.0 E		74.9	15.1	5.0		USCGS
		22	13,9		LM	NG	0					
223	4	17	5	2.0	17.5 S	178.0 W	.081	146.7	4.1	6.5		USCGS
		17	23	51	PKP	VG	0					
224	5	7	16	17.0	52.5 N	35.0 W		24.2	289.4	5.6		USCGS
		7	21	35	P	Z*,E*,N*	0	24.0				
		7	25	49	S	NG						
		7	29,0		M	NG						
225	5	13	57	42.0	53.0 N	162.5 E		74.8	13.5	5.8		BCIS
		14	47,9		LM	NG	0					
226	5	22	12	55.0	36.0 S	16.0 W		88.2	196.4			BCIS
		22	55,9		LR	NG	0					
227	6	3	30	22.0	52.0 N	178.0 W		77.5	1.5			USCGS
		4	15,1		LM	NG						

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228	6	5 38	27.0	52.0 N	171.5 W		77.4	357.4		USCGS
		5 50	30	P	VG	0				
		6 29,1		LM						
229	6	19 49	47.0	3.0 N	126.5 E		107.3	62.3	6.1	USCGS
		20 41,1		LR	NG	0				
		20 44,8		LM	NG					
230	7	0 3	17.0	44.5 N	81.0 E		49.8	65.6	5.5	USCGS
		29,1		LM	NG	0				
231	8	3 23	33.0	3.0 S	147.5 E		123.2	45.7		USCGS
		4 29,6		L	NG	0				
232	8	6 7	47.0	3.5 S	150.0 E		124.7	43.3		USCGS
		7 20,6		LM	NG	0				
233	8	17 12	3.0	16.5 S	173.5 W		145.7	356.4		USCGS
		17 31	46	PKP	Z*,VG	0				
234	8	22 14	20.0	19.5 S	168.0 E		146.2	28.5		BCIS
		22 34	16	PKP	VG	0				
235	8	22 26	17.0	19.5 S	168.0 E		146.2	28.5		USCGS
		22 46	05	PKP	VG	0				REPLIQUE
236	10	0 59	54.0	9.0 S	117.0 E		111.2	77.9	6.6	BCIS
		1 59,6		M	NG	0				
237	10	3 13	11.0	13.5 N	143.5 E	.018	106.7	41.6	6.0	BCIS

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		3 31 47	PP	N*,VG,NG	0.020					
		3 32 17	pPP	N*,VG						
		4 10,6	LM	NG						
238	10	19 39 55.0	63.3 N	25.2 E		16.6	33.8			BCIS
		20 45,1	LM	NG	0					
239	11	4 4 33.0	54.0 N	165.0 W		75.1	353.5	5.7		USCGS
		4 59,1	LM	NG	0					
240	11	14 49 47.0	30.0 S	178.0 W	.010	159.1	5.8	6.8		USCGS
		15 09 39	PKP1	Z*,VG	0	159.0				
		15 10 19	PKP2	VG,NG						
		15 13 16	PKS	NG						
		15 13 59	PP	NG						
		16 06,0	LM	NG						
		16 19,1	M	NG						
		16 31,6	M	NG						
241	11	18 49 24.0	18.0 N	120.5 E		91.6	58.7	6.8		USCGS
		19 02 34	P	E*	0	91.6				
		19 02 36	PCP	VG,NG						
		19 06 15	PP	VG,NG						
		19 13 05	SKS	NG						
		19 13 35	SCS	NG						
		19 14 51	PS	NG						
		19 19 47	SS	NG						
		19 26 40	/SSSS/	NG						
		19 30,4	L	NG						
		19 37,1	LM	E*,N*						
		19 37,4	M	NG						
		19 39,1	M	N*						
242	11	23 53 57.0	52.0 N	176.0 W		77.5	.2	6.1		USCGS
		5 59	P	NG	0					
		15 39	/S/	NG						
		16 04	/SKS/	VG						
		44,1	LM	NG						
243	12	1 30 36.0	52.5 N	175.5 W		77.0	359.9			USCGS

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		2	29,1		LM	NG		0				TRACES
244	12	8	28	34.0	41.5 N	142.5 E		81.0	30.5	6.2		USCGS
		8	40	52	P	Z*,N*,VG		0				
		8	51	00	S	NG						
		9	08,1		LM	NG						
		9	15,7		M	NG						
245	13	10	40	38.0	51.5 N	175.0 W		78.0	359.6	6.9		USCGS
		10	52	43	P	Z*,NG		0	78.0			
		11	02	34	S	E*,N*						
		11	02	45	SKS	NG						
		11	03	14	PS	NG						
		11	03	30	PPS	Z*,N*						
		11	18,1		L	NG						
		11	31,1		M	NG						
246	14	6	24	20.0	52.0 N	175.5 W		77.5	359.9	5.9		USCGS
		6	36	24	P	N*		0				
		6	39	20	PP	VG						
		6	46	32	SCS	NG						
		6	46	44	/PS/	N*						
		7	05,1		LM	NG						
		7	17,6		M	NG						
247	15	0	44	15.0	34.0 S	56.0 E		95.9	139.1	6.2		USCGS
			56	54	P	VG		0				
		1	57	32	SKS	NG						
		1	09	30	/PS/	NG						
		1	27,6		L	NG						
		1	35,1		LM	NG						
248	15				Données insuffisantes							BCIS
		3	01,1		LM	NG		0				
249	15	18	18	20.0	52.0 N	171.0 W		77.4	357.1	5.8		USCGS
		18	30	17	P	NG		0				
		18	40	04	/S/	NG						

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		18 40 21	/SKS/	NG						
		18 57,1	LM	NG						
		19 09,1	M	NG						
250	17	6 16 44.0	15.0 S	173.5 W		144.3	356.5	5.7		USCGS
		6 36 26	PKP	VG	0					
251	17	15 23 52.0	38.5 N	20.7 E		16.8	130.5			BCIS
		15 33,1	LM	NG	0					
252	18	2 12 12.0	14.5 N	96.0 E		79.9	79.5	6.4		USCGS
		2 34 29	S	NG	0					
		2 59,2	LM	NG						
253	18	11 18 53.0	18.0 N	120.5 E	.005	91.6	58.7	5.2		USCGS
		11 31 48	P	N*						
		12 06,2	LM	NG						
254	18	14 48 17.0	14.0 N	96.0 E		80.3	79.8	6.7		USCGS
		15 00 28	P	VG	0	80.2				
		15 03 32	PP	VG						
		15 10 33	S	NG						
		15 15 44	SS	NG						
		15 27,2	L	NG						
		15 35,2	M	NG						
255	18	17 56 3.0	25.0 S	170.0 E		151.9	28.6	6.2		USCGS
		18 16 08	PKP2	VG	0	152.0				
		18 19 41	PP	NG						
		19 05,2	LM	NG						
		19 17,2	M							
256	18	21 23 20.0	51.0 N	180.0 E		78.4	2.8			BCIS
		22 03,2	LM	NG	0					

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257	19	1 29	48.0	24.0 S	175.5 W	153.2	359.7	6.5	USCGS
		2 50,3		LM	NG			0	
258	19	8 1	30.0	16.5 S	176.5 E	145.2	13.3	6.8	USCGS
		8 21	12	PKP	E*,VG,NG			0	
		9 06,3		L	NG				
		9 20,3		M	NG				
259	20	1 6	25.0	20.0 N	145.5 E	101.6	37.0	6.0	USCGS
		2 02,3		LM	NG			0	
260	21	18 38	3.0	48.0 N	155.0 E	78.3	19.6	5.5	USCGS
		18 50	09	P	VG,NG			0	
		19 00	00	S	VG,NG			78.3	
		19 22,3		L	NG				
		19 28,3		M	NG				
261	21			Données discordantes					BCIS
		22 51	3	LM	NG				
262	22	23 50	23.0	1.5 S	137.0 E	117.0	55.0	7.2	USCGS
		00 02	3	LM	NG				
263	22	6 19	6.0	16.0 N	94.0 W	82.9	286.5	7.1	USCGS
		6 31	33,0	P	Z*			0	
		6 31	39	PCP	N*,VG,NG			83.0	
		6 41	48	/SKS/	N*				
		6 41	50	S	N*				
		6 42	06	SCS	NG				
		6 58,3		LM	NG				
		7 08,3		M	NG				
264	22	23 50	23.0	1.5 S	137.0 E	116.7	55.4	7.2	USCGS
		9 08		PKP	N*			0	
		10 24		PP	N*			116.5	
		12 47		PPP	N*				
		20 04		PS	E*,N*,NG				
		26 23		SS	N*				
		26 44		/SSP/	N*				
		40,0		L	NG				

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			49,5	M		NG				
265	23	3 27	2.0	58.5 N	137.0 W		66.5	339.1	6.0	USCGS
		3 37 59		P		Z*,N*,VG	0			
		3 47 03		S		NG				
		4 01,3		L		NG				
		4 08,3		M		NG				
266	23	3 38	25.0	14.0 S	173.5 W		143.3	356.5		USCGS
		3 58 01		PKP		VG	0			
		5 01,3		LM		NG				
267	24	4 31	1.0	39.2 N	24.0 E		18.0	122.5	5.2	BCIS
		4 41,3		LM		NG	0			
268	24	9 49	47.0	16.0 N	94.0 W		82.9	286.5	6.2	USCGS
		10 02 14		P		Z*	0			
269	26	2 47	36.0	7.5 S	85.5 E		90.2	101.6	5.7	BCIS
		3 11 28		S		NG	0			
		3 33,3		LM		NG				
270	27	0 9	28.0	56.5 N	116.0 E		59.0	36.9	7.9	BCIS
		19 35		P		Z*,E*,N*	0	59.0		
		20 24		PCP		VG				
		21 47		PP		E*				
		23 13		PPP		E*				
		27 41		S		N*				
		27 57		PS		E*,N*,NG				
		28 06		PPS		E*				
		29 23		SCS		E*				
		31 39		SS		E*				
		34 11		SSS		E*				
		34,5		LQ		E*				
		37,8		LR		VG				
		42,4		MQ		N*				
		47,0		MR		E*				

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271	27	7 10	55.0	39.4 N	22.7 E		17.1	124.4	5.0	BCIS	
		7 20,3		LM	NG	0					
272	28	21 23	20.0	36.1 N	1.4 E		14.8	189.4		BCIS	
		21 26 50		P	NG	0	14.7				
		21 27 03		PP	VG						
		21 31,0		L	NG						
		21 32,9		M	N*,NG						
273	29	7 48	18.0	51.5 N	166.0 W		77.6	353.9	6.3	USCGS	
		8 00 15		P	Z*	0					
274	29			Pas de données							
		15 18,5		LM	NG	0					
275	29	22 33	52.0	56.0 N	116.5 E		59.6	37.1	5.7	USCGS	
		22 44 01		P	N*,VG	0					
		23 05,5		LM	NG						
276	29	23 46	44.0	36.5 N	1.8 W	.011	14.9	199.6		BCIS	
		23 54,5		LM	NG	0					
		23 57,0		M							
277	1	13 4	48.0	Océan Atlantique							USCGS
		13 38,5		L	NG	0					
278	1	19 30	16.0	25.0 N	94.0 E		70.8	73.9	6.7	USCGS	
		19 41 37		P	VG,ZG	0.010	71.0				
		19 50 45		S	N*,NG						
		19 51 19		PS	N*						
		19 51 27		SKS	NG						
		19 55 25		SS	NG						
		19 55 56		BSS	NG						
		19 59 03		BSSS	NG						

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		20 02,5		LR		NG					
		20 10,5		M		NG					
279	2	0 42	23.0	36.0 N		53.0 E		37.5	94.0	7.2	USCGS
		49	37,2	P		E*	0	37.6			
		51	03,3	PP		VG					
		55	27,3	S		E*					
		57,7		L							
280	3			Données insuffisantes							BCIS
		3 15,5		L		NG	0				
281	3	12 24	37.0	50.5 N		179.0 W		78.9	2.2	6.7	USCGS
		12 36	42	P		ZG	0	78.6			
		12 46	50	SKS		N*,NG					
		12 51,3		SS		NG					
		13 01,5		LR		NG					
282	3			Données insuffisantes							BCIS
		21 20,5		L		NG	0				
283	4	12 31	20.0	34.0 N		137.0 E		85.8	37.8		USCGS
		13 16,5		M		NG	0				
284	5	0 58	.0	32.0 N		114.0 W		81.2	310.9		USCGS
		1 39,5		M		NG	0				
285	5	12 33	56.0	28.5 S		179.0 W		157.6	7.8	6.2	USCGS
		13 50,5		L		NG	0				
286	5	15 32	7.0	1.5 S		26.5 E		55.4	152.8	6.2	BCIS
		15 43	16	/PP/		VG,NG	0				

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		16 05,5		M	NG						
287	7	5 58 48.0		39.0 N	40.5 E		27.8	100.9	5.5		USCGS
		6 09,5		L	NG	0					
288	7	16 11 15.0		6.5 S	156.0 E		129.9	38.0	6.7		USCGS
		16 30 28		PKP	ZG, VG, E*	0	130.0				
		16 33 51		PKS	NG						
		17 10,5		L	NG						
		17 21,5		M	NG						
		17 26,0		M	NG						
289	9	9 58 9.0		6.0 S	104.0 E	.004	100.7	86.3	6.1		USCGS
		10 45,5		L	NG	0					
290	9	20 20.5		N de l' Islande Prémonitoire du suivant 4.1							BCIS
		20 30,5		L	NG						
291	9	20 35 .0		68.0 N	20.0 W		20.8	334.3	4.3		BCIS
		20 43,5		LR	NG	0					
292	9	21 4 42.0		68.0 N	20.0 W		20.8	334.3	3.8		BCIS
		21 30,5		L	NG	0					
293	9	22 24 46.0		.0 N	29.0 E		54.8	149.3			BCIS
		22 54,5		L	NG	0					
294	10	4 46 48.0		52.5 N	170.0 W		76.9	356.5			USCGS
		5 23,5		L	NG	0					
295	10	6 5 48.0		68.0 N	20.0 W		20.8	334.3	4.5		BCIS

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		6	13,5		L	NG		0				
296	10	9	4	8.0	8.0 N	82.5 W			81.9	272.7	6.6	USCGS
		9	16	34	P	VG,Z*,E*		0				
		9	38,5		L	NG						
		9	45,5		MR	E*,N*,NG						
297	10	23	37	20.0	36.5 N	26.0 E			21.0	124.3	6.2	BCIS
		23	47,5		L	NG		0				
298	12	20	56	18.0	3.0 S	148.5 E			123.6	44.6	6.2	USCGS
		22	00,5		L	NG		0				
299	12	21	58	45.0	3.0 S	148.5 E			123.6	44.6	6.0	USCGS
		23	00,5		L	NG		0				
300	13	0	59	28.0	52.0 N	169.5 W			77.3	356.1		USCGS
		1	45,5		L	NG		0				
301	13	3	31	41.0	39.3 N	22.7 E			17.2	124.7	5.0	BCIS
		3	40,5		L	NG		0				
302	14	2	26	54.0	46.0 N	151.5 E			79.4	22.6	5.5	USCGS
		3	10,5		L	NG						
303	14	6	23	52.0	27.5 S	177.0 W		.026	156.7	3.1	7.5	USCGS
		6	43	31	PKP1	Z*		0.020	156.5			
		6	44	01	PKP2	Z*,VG						
		6	44	21	pPKP2	VG						
		6	44	31	BPKP2	NG						
		6	47	36	PP	VG,Z*						
		6	50	24	SKS	NG						

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		6 51 15	PPP	VG					
		6 54 04	PCPPKP	Z*,NG					
		6 54 58	SKKKS	NG					
		6 57 48	SKSP	NG					
		6 57 58	PSKS	NG					
		6 59 06	SKKS2	NG					
		7 00 51	PPS	VG					
		7 01 52	SKSP2	VG,NG					
		7 07 18	SS	VG					
		7 08 54	PSPS	VG,NG					
		7 16 20	SSS	VG,NG					
		7 38,5	L	NG					
304	14	8 10 45.0	30.0 S	177.0 W		159.2	3.3	6.9	USCGS
		8 30 46	PKP1	Z*	0	159.0			
		8 31 22	PKP2	Z*,VG,NG					
		8 35 02	PP	Z*,VG					
		8 45 21	SKSP	NG					
		9 03 26	SSS	NG					
		9 23,5	L	NG					
		9 34,5	M	NG					
		9 44,5	M	NG					
305	14	9 42 27.0	20.0 S	174.5 W		149.2	357.9	6.5	USCGS
		10 02 19	PKP1	ZG,VG	0	159.5			
		10 02 32	PKP2	ZG					
		10 06 02	PP	VG,NG					
		11 00,5	L	NG					
306	15	9 36 33.0	36.0 N	7.5 W		17.0	214.6		BCIS
		9 40 31	P	VG	0	17.0			
		9 43 41	S	VG					
		9 44,5	L	NG					
		9 45,5	M	NG					
307	15		Pas de données						
		15 29 00	P	VG,NG,N*					
308	15	23 8 8.0	29.0 N	70.0 E		53.0	88.1		USCGS
		23 35,5	M	NG	0				

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				Pas de données							
309	17	6	50.5	L		NG					
310	17	11	10	10.0	11.0 S	167.0 E		137.8	25.9	6.3	USCGS
		11	29	37	PKP1	VG	0				
		11	32	25	PP	VG,NG					
		11	33	12	PKS	NG					
311	17	18	39	58.0	1.0 S	13.0 W		53.7	201.7		USCGS
		18	56	56	S	NG	0				
		19	05,5		L	NG					
312	18	1	19	52.0	53.0 N	170.0 W		76.4	356.5		USCGS
		2	00,5		L	NG	0				
313	19	13	2	5.0	25.0 N	122.5 E		86.9	53.3	6.0	USCGS
		13	45,6		L	NG	0				
314	20	9	55	37.0	21.5 S	33.5 E		76.4	152.2	6.0	BCIS
		10	17	22	S	NG	0				
		10	35,6		L	NG					
315	20	11	12	53.0	51.0 N	156.0 E		75.6	18.0	5.2	USCGS
		12	00,6		LM	NG	0				
316	20	14	8	14.0	43.0 N	145.0 E		80.4	28.1	6.0	USCGS
		14	20	28	P	VG,N*	0				
		14	48,6		L	NG					
		15	00,6		M	NG					
317	20	15	38	47.0	19.5 S	174.0 W		148.7	357.0		USCGS
		15	58	38	PKP1	Z*	0				

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		15 58 46	PKP2	N*					
		16 09 00	SKKS	NG					
318	20	19 13 54.0	39.2 N	23.7 E		17.8	123.0		BCIS
		19 23,6	L	NG	0				
319	22	6 16 52.0	33.5 S	178.0 W		162.6	6.6 6.2		USCGS
		6 37 48	PKP2	VG,E*,N*	0	162.8			
		6 48 18	SKKS	NG					
		6 34,6	L	NG					
		6 43,6	M	NG					
320	23	0 45 12.0	52.0 N	179.0 W		77.4	2.1 6.3		USCGS
		57 13	P	VG,Z*	0	77.2			
		1 07 20	SKS	N*					
		1 07 37	PS	N*					
		1 08 04	/PPS/	NG					
		1 12 34	SS	NG					
		1 16 40	LQ	NG					
		1 21,6	LR	NG					
		1 26,6	LM	NG					
		1 30,6	MQ	NG					
		1 45,6	MR	NG,VG					
321	24	1 57 25.0	30.0 S	70.5 W		103.9	239.6 6.3		USCGS
		2 31,1	/SS/	NG	0				
		2 45,6	L	NG					
		2 53,1	M	NG					
		2 58,1	M	NG					
		3 02,1	M	NG					
322	24	11 2 30.0	20.0 S	169.0 E		146.9	27.2 6.5		USCGS
		11 22 08	PKP1	VG,NG	0	147.0			
		11 22 16	PKP2	ZG,NG					
		12 10,6	LR	NG					
		12 15,6	LM	NG					
		12 20,6	M	NG					
323	24	14 40 45.0	3.0 S	134.5 E		116.7	58.7		USCGS

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JUILLET - AOUT

		15 40,6		LM	NG	0				
324	25	7 42 25.0	51.0 N		177.0 W		78.5	.9	6.1	USCGS
		7 54 27		P	NG	0				
		8 04 54		SPS	NG					
		8 09,9		/SS/	NG					
		8 20,6		L	NG					
		8 26,6		M	NG					
		8 33,6		M	NG					
325	25	18 31 36.0	42.0 N		142.0 E		80.4	30.6		USCGS
		19 20,6		LM	NG	0				
326	28	8 40 4.0	17.0 N		99.0 W		85.2	290.9	7.8	USCGS
		8 52 44		P	Z*,E*,N*	0	85.3			
		8 55 59		PP	Z*,N*					
		8 57 49		/PPP/	E*					
		9 03 14		S	Z*,E*					
		9 03 36,5		S	N*,Z*,E*					
		9 09 14		PSPS	E*,N*					
		9 20,6		LR	VG					
		9 30,1		MR	VG					
327	29	17 15 14.0	23.5 S		71.5 W		99.4	244.5	7.1	USCGS
		17 29 00		P	Z*	0	99.2			
		17 33 00		PP	Z*					
		17 39 39		SKS	NG					
		17 42 02		PS	E*					
		17 55,6		L	NG					
		18 01,1		LR	NG					
		18 06,1		LM	E*,NG					
		18 10,6		M	E*,NG					
328	4	0 39 12.0	3.5 S		145.0 E		122.5	48.6	6.2	USCGS
		58 11		PKP2	VG,NG	0	122.5			
		59 52		PP	VG,NG					
		1 16 28		SS	NG					
		1 21 10		/SSS/	NG					
		1 34,1		L	NG					
		1 39,0		LM	NG					
		1 42,6		LM	NG					

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		1	49,6		M		NG						
329	4	6	6	36.0	17.0 N		100.0 W		85.8	291.6	6.3		USCGS
		6	19	17	P		VG,NG	0					
		6	29	56	/S/		NG						
		6	48,6		L								
330	4	14	13	28.0	16.3 N		99.2 W		85.8	290.6	5.3		BCIS
		15	05,6		L		NG	0					
331	4	21	8	51.0	45.0 S		35.0 E		99.0	158.5	7.1		USCGS
		21	22	34	/P/		VG,ZG	0	99.0				
		21	26	39	PP		VG						
		21	28	43	PPP		NG						
		21	33	27	SKS		NG						
		21	35	34	PS		N*						
		21	41	06	SS		N*						
		21	53,1		L		NG						
		22	01,6		M		NG						
		22	04,6		MR		VG,NG						
332	5				Données insuffisantes								BCIS
		3	20,6		L		NG	0					
333	5	4	29	47.0	24.5 S		176.0 W		153.7		.7		BCIS
		5	55,6		L		NG	0					
334	5	22	8	47.0	50.7 N		6.7 E		1.4	92.9			BCIS
		22	09	32	S*		NG	0					
335	5	23	4	6.0	30.1 N		130.0 E		86.2	44.9			BCIS
		23	55,6		L		NG	0					
336	7	19	40	46.0	19.5 S		178.0 W		148.7	4.3	5.5		USCGS

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▲OUT

		19	59	38	P	VG	0				
337	8	1	12	16.0	32.3 N	25.2 E		24.0	132.3		BCIS
		1	18	30	P	VG	0	24.0			
		1	21	54	S	NG					
		1	25,6		L	NG					
338	8	4	44	20.0	19.0 N	109.0 W		89.3	299.7		USCGS
		5	20,6		L	NG	0				
339	8	19	42	37.0	29.2 N	103.0 E		73.0	64.6	5.5	BCIS
		20	20,6		L	NG	0				
340	8	22	33	2.0	7.5 S	13.0 W		60.0	200.0	5.9	USCGS
		23	00,6		L	NG	0				
341	9	2	29	20.0	2.0 S	137.0 E		117.2	55.7	6.2	USCGS
		3	01	26	S	NG	0				
		3	05	20	SS	NG					
		3	20,6		L	NG					
		3	48,1		M	NG					
342	11	21	38	5.0	17.5 S	169.0 E		144.6	25.9		USCGS
		21	57	43	P	VG	0				AG.ATMOS.
343	18	21	42	30.0	50.0 N	157.0 E		76.8	17.7	6.5	USCGS
		21	54	23	P	VG	0				
		22	04	05	/S/	NG					
		22	20,1		L	NG					
		22	30,6		M	NG					
344	20	12	1	54.0	10.0 S	161.0 E		135.0	33.5	6.5	USCGS
		13	00,1		L	NG	0				

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		13 11,1		M	NG					
345	20	18 26 55.0	36.7 N		21.7 E		18.7	131.9		BCIS
		18 36,1		M	NG	0				
346	20	22 17 5.0	52.0 N		173.0 W		77.4	358.3		USCGS
		23 00,1		L	NG	0				
347	22	3 37 57.0	41.5 N		142.5 E		81.0	30.5 5.2		USCGS
		4 25,1		M	NG	0				
348	22	7 55 6.0	1.0 N		126.0 E		108.6	63.9		USCGS
		8 50,1		L	NG	0				
349	22	18 27 20.0	38.0 N		87.0 E		57.4	68.4		BCIS
		18 57,1		M	NG	0				
350	23	2 0 9.0	6.0 S		154.5 E		128.9	39.5 6.5		USCGS
		2 55,1		L	NG	0				
351	23	11 42 34.0	24.0 N		122.0 E		87.5	54.2 5.2		USCGS
		12 30,1		L	NG	0				
352	26	11 28 50.0	18.0 S		63.0 W		90.3	241.4 6.2		USCGS
		11 41 46		P	VG,ZG	0	90.3			
		11 52 35		S	NG					
		12 06,1		L	NG					
		12 16,1		M	NG					
		12 22,1		M	NG					
353	26	13 58 48.0	2.0 S		81.0 W		88.6	265.2 6.4		USCGS

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AOUT

		14 11 52	P	VG	0	88.6			
		14 22 28	S	NG					
		14 27,1	/SSS/	NG					
		14 35,1	L	NG					
354	26	19 53 33.0	5.5 S	154.0 E		129.2	39.8		USCGS
		20 12 41	P	ZG	0				
355	27	11 54 42.0	44.3 N	10.9 E		7.8	143.3	4.8	BCIS
		11 58 34	/S*/	VG,ZG	0				
356	28	8 19 10.0	28.5 S	175.0 W		157.7	358.5		USCGS
		9 50,1	L	NG	0				
357	28	23 22 21.0	21.0 N	145.0 E		100.5	37.1	5.7	USCGS
		24 10,1	L	NG	0				
358	28	23 50 15.0	21.0 N	145.0 E		100.5	37.1		USCGS
		1 55,1	L	NG	0				
359	30	16 17 56.0	39.0 N	73.0 E		48.3	76.2	5.5	USCGS
		16 26 42	P	NG	0				
		16 42,1	M	NG					
360	30	20 4 1.0	20.5 N	121.5 E		90.1	56.5	5.6	USCGS
		20 49,1	L	NG	0				
361	31	0 0 .0	Données discordantes						BCIS
		42,1	L	NG	0				
362	31	11 56 42.0	36.0 N	21.2 E		19.1	134.2		BCIS

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AOUT - SEPTEMBRE

		12 08 12	L	NG	0				
363	31	12 1 6.0	49.0 N	100.0 E		57.2	51.2		USCGS
		12 33,1	L	NG	0				
364	1	12 49 55.0	39.0 N	75.0 E		49.5	74.9	5.4	USCGS
		13 16,1	L	NG	0				
365	2	23 59 54.0	18.0 N	147.5 E		104.2	36.1	5.9	USCGS
		55,1	L	NG	0				
366	2	14 20 13.0	51.5 N	168.0 W		77.8	355.1	6.2	USCGS
		14 32 10	P	ZG	0				
		14 58,1	L						
367	2	21 27 36.0	37.0 N	71.0 E		48.3	79.6	5.7	USCGS
		21 35 48,1	P	ZG	0				
		21 39 06	PP	VG					
		21 42 52	/S/	NG					
		21 50,1	L	NG					
368	3	20 23 18.0	58.0 N	35.0 W		23.6	303.0		BCIS
		20 34,1	L	NG	0				
369	4	4 33 52.0	42.5 S	88.5 E		118.1	123.4		BCIS
		5 35,1	L	NG	0				
370	5	7 25 19.0	53.5 N	160.5 E		74.0	14.5		USCGS
		8 00,1	L	NG	0				
371	5	11 36 4.0	28.2 N	53.7 E		43.2	102.3	5.0	BCIS

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SEPTEMBRE

		11 44 13	P	VG,ZG	0				
		11 50 36	S	NG					
		11 55,1	L	NG					
372	6	4 54 37.0		51.0 N	177.0 W	78.5	.9	5.7	USCGS
		5 06 46	P	EG	0				
		5 16 41	S	NG					
		5 30,1	L	NG					
373	6	20 22 10.0		40.5 N	19.7 E	14.8		128.0	BCIS
		20 30,1	L	NG	0				
374	7	6 48 36.0		50.0 N	156.0 E	76.6	18.4	5.7	USCGS
		7 00 33	P	VG	0				
		7 27,1	L	NG					
		7 37,1	M	NG					
375	7	10 6 47.0		51.5 N	178.5 W	77.9	1.8	6.2	USCGS
		10 18 55	/PCP/	VG	0				AG.ATMOS.
		10 28 41	S	NG					
		10 45,1	LM	NG					
		10 53,1	M	NG					
376	9	0 13 30.0		48.0 S	100.0 E	127.8		122.1	USCGS
		1 06,1	LQ	NG	0				
		1 20,1	LM	NG					
377	9	9 0 33.0		15.0 S	176.5 W	144.3		1.4	USCGS
		10 15,1	LM	NG	0				
378	10	19 56 53.0		1.7 N	31.7 W	57.6		224.2	BCIS
		20 25,1	LM	NG	0				
379	11	23 22 9.0		16.0 S	172.0 W	145.2		353.9	USCGS

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SEPTEMBRE

		23	41	53	PKP	VG	0					
380	12	0	28	2.0	17.5 N	85.0 W		76.2	280.8	6.0	USCGS	
		40	12		P	VG	0					
381	14	21	26	18.0	Ile Samar, Philippines							USCGS
		22	15,1		L	NG	0					
382	15	18	42	20.0	6.0 S	153.5 E		128.5	40.7		BCIS	
		19	40,1		L	NG	0					
383	16	14	14	2.0	1.0 S	21.5 W		56.1	211.7		BCIS	
		13	36,1		L	NG	0					
384	18	0	59	20.0	53.0 N	160.0 E		74.4	15.0		BCIS	
		1	40,1		L	NG	0					
385	19	17	29	2.0	79.5 N	3.0 E		28.7	359.5	5.0	USCGS	
		17	35	48	/PP/	ZG	0					
		17	43,1		L	NG						
386	20	2	19	24.0	39.5 N	23.0 E		17.2	123.6	5.0	BCIS	
		2	28,1		L	NG	0					
387	20	23	7	22.0	52.0 N	170.5 W		77.4	356.7		BCIS	
		23	55,1		L	NG	0					
388	21	20	16	49.0	40.7 N	34.7 E		23.2	103.9	5.7	BCIS	
		20	22	05	P	VG,ZG	0	23.0				

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		20 26 11	S	NG					
		20 28,1	L	NG					
		20 29,6	M	NG					
389	24	8 21 5.0	5.5 N	127.5 E		105.8	60.0	7.2	USCGS
		8 47 15	S	NG	0				AG.MI.
		8 58 42	SSS	NG					
		9 07,1	L	NG					
		9 15,1	LR	NG					
390	25	5 50 56.0	34.0 N	38.5 W		35.2	258.3	6.0	USCGS
		6 03 22	S	NG	0				
		6 05,1	L	NG					
		6 07,0	M	NG					
391	25	16 36 37.0	6.0 N	127.5 E		105.4	59.7	6.0	USCGS
		16 51 12	P	VG	0				
		17 05 38	/SS/	NG					
		17 09 33	/SSS/	NG					
		17 25,1	L	NG					
		18 32,1	M	NG					
392	25	22 17 .0	6.0 N	127.5 E		105.4	59.7		USCGS
		23 08,1	L	NG	0				
		23 12,1	M	NG					
393	25	23 33 30.0	5.5 N	127.5 E		105.8	60.0		USCGS
		55,1	LM	NG	0				
394	26	18 46 41.0	6.0 N	126.5 E		104.8	60.6	6.0	USCGS
		19 40,1	L	NG	0				
395	27	4 8 23.0	1.0 S	127.0 E		110.8	64.3	6.2	USCGS
		4 27 42	/PP/	VG	0				
		4 38 18	S	NG					

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SEPTEMBRE - OCTOBRE

		4 43 26	SS	NG					
		4 55,1	L	NG					
		5 06,1	M	NG					
396	27	5 56 50.0	1.0 S	127.0 E		110.8	64.3		USCGS
		6 54,1	L	NG	0				
397	28	0 27 31.0	30.5 N	137.5 E		89.1	39.0 6.3		USCGS
		40 27	P	VG	0				
		1 10,1	L	NG					
398	28	14 20 .0	20.5 S	178.0 W		149.7	4.4 7.6		USCGS
		14 39 48	PKP2	VG	0				
		14 43 22	PP	VG,ZG					
		15 05,1	L	NG					
399	28	14 44 2.0	20.5 S	178.5 W		149.7	5.3		USCGS
		15 02 52	PKP	VG,ZG	0				
400	29	8 13 22.0	25.0 S	178.5 E		153.8	12.1 6.2		BCIS
		8 32 38	PKP	VG,NG	0				AG.MI.
		8 42 08	S						AG.ATMOS.
401	29	17 34 16.0	4.0 N	126.2 E		106.3	62.0		BCIS
		18 27,1	L	NG	0				
402	2	12 27 55.0	11.0 N	63.0 W		67.3	259.3 5.8		USCGS
		12 38 56	/P/	VG,ZG	0				
		12 47 43	S	NG					
		12 55,1	L	NG					
403	2	20 58 39.0	6.5 S	69.5 E		79.7	113.6 6.2		USCGS
		21 10 53	/P/	VG	0				

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		21	32		L	NG						
404	3	6	39	8.0	10.5 N	62.5 W		67.4	258.5			USCGS
		7	00		L	NG	0					
405	4	5	26	9.0	11.0 N	63.0 W		67.3	259.3	6.3		USCGS
		5	37	06	P	VG	0					
		5	54,6		LQ	NG						
		6	00,1		LR	NG						
406	4	23	18	42.0	53.5 N	112.0 E		59.6	41.3			BCIS
		23	54		L	NG	0					
407	5	23	55	45.0	53.0 N	178.0 E		76.3	3.9			USCGS
		7	39		P	VG	0					
			17,1		/S/	NG						
408	5	11	36	45.0	34.4 N	26.7 E		23.0	126.7			BCIS
		11	41	53	P	NG	0	23.1				
		11	45	58	S	NG						
		11	49,1		L	NG						
		11	51,1		M	NG						
409	5	15	51	47.0	34.5 N	26.5 E		22.8	126.9			BCIS
		15	57	03	P	NG	0					
		16	03		L	NG						
410	5	22	40	44.0	38.0 N	69.5 E		46.7	79.5			USCGS
		22	56	10	S	NG	0					
		23	05,1		L	NG						
411	6	0	54	5.0	11.0 N	62.5 W		67.0	258.9			USCGS
		1	20,1		L	NG	0					

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412	6	8 58	12.0	74.2 N	54.0 E	31.0	23.8		BCIS
		9 13,1 9 19,1		L M	NG NG	0			
413	6	21 27	51.0	49.5 N	155.0 E	76.9	19.2		USCGS
		22 15,1		L	NG	0			
414	7	13 19	45.0	51.0 N	159.0 E	76.2	16.2	6.5	USCGS
		13 31 43 14 00,1		P L	NG NG	0			
415	8	7 0	45.0	39.0 N	20.7 E	16.4	129.4	5.2	BCIS
		7 04 42 7 10		P L	VG NG	0			
416	10	14 20	55.0	3.2 S	146.0 E	122.7	47.4		BCIS
		15 25		L	NG	0			
417	10	18 53	59.0	54.0 N	166.0 W	75.1	354.1	5.7	USCGS
		19 30		L	NG	0			
418	11	7 33	3.0	40.0 N	27.0 E	19.1	115.6		BCIS
		7 37 44 7 42		P L	VG NG	0			
419	12	16 46	30.0	59.0 S	16.0 W	110.6	191.1		USCGS
		17 45		L	NG	0			
420	12	18 57	2.0	8.0 S	111.0 E	106.7	82.1	6.0	USCGS
		19 40		L	NG	0			

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421	12	22	3	2.0	3.0 S	146.5 E		122.7	46.8		BCIS
		23	04		L	NG	0				
422	13	4	19	17.0	52.5 N	160.0 E		74.9	15.1	6.4	BCIS
		4	31	02	P	VG,NG	0	75.0			
		4	40	41	S	NG					
		4	45	30	SS	NG					
		4	55,1		L	NG					
		5	03,1		M	NG					
		5	10,1		M	NG					
423	13	20	33	1.0	60.0 S	151.0 E		159.0	129.1	6.7	USCGS
		21	49,1		L	NG	0				
		22	18,1		M	NG					
424	17	14	29	18.0	46.0 N	27.0 W		21.2	269.2		USCGS
		14	34	07	P	VG,ZG	0				
		14	40		L	NG					
425	17	14	37	36.0	47.0 N	27.5 W		21.1	272.1		USCGS
		14	42	22	P	VG,ZG	0	21.2			
		14	46	17	S	NG					
		14	50,1		L	NG					
426	17	17	36	25.0	46.0 N	27.5 W		21.5	269.6		USCGS
		17	41	17	P	VG,ZG	0				AG.MI.
		17	48,1		L	NG					AG.ATMOS.
427	19	18	28	50.0	23.5 N	122.0 E		87.9	54.5	6.5	USCGS
		18	41	41	P	VG,ZG	0				
		18	45	07	PP	VG					
		18	53	31	/S/	VG					
		19	10		LQ	NG					M.B.TEMPS
		19	15		LR	VG					
		19	25		MR	VG					

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428	19	21 41	59.0	44.5 N	146.0 E	.020	79.3	26.9	6.1	USCGS
		21 53	52	P	VG	0.020				
		22 03	8	S	NG					
		22 20		L	NG					M.B. TEMPS
429	20	12 4	22.0	11.5 N	42.0 W		54.4	240.8		USCGS
		12 29	1	LR	VG	0				
430	22	2 51	27.0	47.8 N	4.4 W		6.4	245.7		BCIS
		2 53	15	/P*/	N*	0				
		2 54	49	SG	N*					
431	22	20 44	38.0	43.5 N	146.0 E		80.3	27.3		USCGS
		20 56	07	P	VG	0				
		20 57	13	PCP	VG					
		21 07	31	/PS/	N*,VG					
432	23	5 56	52.0	52.5 N	169.5 W		76.8	356.2	6.0	USCGS
		6 08	46	P	VG	0				
433	24	0 17	37.0	14.5 S	168.0 E		141.5	26.0	6.5	USCGS
		44 18		SKS	N*	0				
434	24	2 33	12.0	40.3 N	30.0 E		20.6	110.5		BCIS
		2 37	53	P	N*	0				
		2 38	15	PP	N*					
		2 44		LM	VG					TRACES
435	24	9 7	30.0	20.5 S	179.0 W	.081	149.6	6.2		USCGS
		9 26	23	PKP	Z*	0				

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436	24	21 44	28.0	25.0 N	109.5 W		84.7	303.6	6.0	USCGS
		22 30,1		LM	VG	0				
437	25	10 3	32.0	50.5 N	186.5 W		78.6	7.0	6.3	USCGS
		10 15 24		P	VG	0				
		10 46,1		LM	VG					
		10 53,1		MR	VG					
438	26	8 26	12.0	20.5 S	178.0 W	.089	149.7	4.4	6.2	USCGS
		8 45 13		PKP	Z*	0.090				
439	26	14 16	57.0	2.0 S	116.0 E		105.1	74.2	6.3	USCGS
		14 35 31		PP	VG	0				
440	27	22 32	25.0	56.0 N	161.0 E		71.7	13.6	6.5	USCGS
		22 43 51		P	Z*,E*,N*	0	71.5			
		22 46 41		PP	N*,VG					
		22 53 15		/S/	N*					
		22 53 52		SKS	E*					
441	30	1 43	1.0	35.3 N	27.2 E		22.6	124.4	5.7	BCIS
		1 48 11		P	Z*,E*,N*	0	22.5			
		1 48 39		PP	N*					
		1 52 15		S	E*,N*,VG					
		1 52,5		LM	VG					
442	30	7 30	18.0	35.3 N	27.8 E		22.9	123.4	5.7	BCIS
		7 35 31		P	Z*,E*,VG	0	23.0			
		7 39 39		S	E*					
		7 43,1		LM	VG					
443	31	10 7	54.0	6.5 S	83.0 W		93.3	263.9	6.5	USCGS
		10 21 11		P	N*	0	93.3			
		16 32 17		S	VG					

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		10 47,1		LM		VG					
444	2	18 30 24.0		13.0 S		166.5 E		139.6	27.5	6.4	USCGS
		18 49 57		PKP		ZG	0				
445	6	13 12 53.0		45.0 N		149.5 E		79.8	24.3	6.3	USCGS
		13 57,1		LM		NG	0				
446	9	23 55 52.0		38.4 N		22.1 E		17.6	127.8	5.4	BCIS
		5,1		LM		NG	0				
447	10	2 36 21.0		7.0 S		155.5 E		130.2	38.8	6.5	USCGS
		3 41,1		LM		NG	0				
448	10	5 28 10.0		24.5 S		175.5 W		153.7	359.7	6.3	USCGS
		6 53,1		LM		NG	0				
449	10	8 26 6.0		34.5 N		139.0 E		86.1	36.1	5.8	USCGS
		9 13,1		LM		NG	0				
450	10	19 20 5.0		34.0 N		139.5 E		86.7	35.9	6.1	USCGS
		19 32 57		P		VG,N*,NG	0	86.5			
		19 43 31		S		NG					
		20 02,1		L		NG					
		20 06,1		LM		N*					
		20 07,7		M		NG					
451	11	21 39 41.0		43.5 N		13.5 E		9.5	136.1		BCIS
		21 45,3		LM		NG	0				
452	12	0 3 2.0		19.0 N		81.5 W		72.9	279.2		USCGS

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		28	57		SS	N*		0				
453	12	1	31	40.0	6.0 S	149.5 E			126.7	45.2	5.7	USCGS
		2	45,1		LM	NG		0				
454	13	17	22	41.0	33.0 S	179.0 W			162.0	9.2	6.5	USCGS
		17	42	45	PKP1	Z*,VG		0	162.0			
		17	43	33	PKP2	Z*						
		17	47	15	PP	VG						
		18	13	52	SSS	NG						
		18	36,1		L	NG						
		18	50,1		M	VG						
455	14	14	16	37.0	39.8 N	19.7 E			15.3	129.8		BCIS
		14	20	17	P	NG		0				
		14	25,1		LM	NG						
456	15	16	30	29.0	51.5 N	158.0 E			75.5	16.6	6.2	USCGS
		16	42	12	P	VG,NG		0	75.6			
		16	51	53	S	N*						
		16	56	55	/SS/	NG						
		17	08,3		L	NG						
		17	14,4		M	NG						
457	16	1	48	48.0	51.5 N	177.0 W			78.0	.9	5.7	USCGS
		2	10	46	S	N*		0				
		2	33,1		LM	NG						
458	17	5	57	48.0	49.0 N	148.5 E	.053		75.8	23.4	7.2	USCGS
		6	09	03	P	N*		0				
459	17	15	41	22.0	Sud du Chili							USCGS
		16	33,1		L	NG		0				
		16	42,1		LM	NG						
		16	45,1		M	NG						

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460	17	20 24	32.0	35.2 N	28.0 E	23.1	123.3	BCIS
		20 36,1		LM	NG	0		
461	19	16 13	29.0	47.0 N	152.5 E	.012	78.7 21.6	USCGS
		16 25 24		P	VG	0.010		
		16 25 39		/PCP/	VG			
462	20	12 40	23.0	54.0 N	165.0 W	75.1	353.5 6.4	USCGS
		12 52 11		P	VG			
		13 25,1		LM	E*			
463	21							USCGS
		15 15 11			E*,N*,VG			SEISME
		15 15 14			E*			PROCHE
		15 15 18			N*,VG			
464	23	0 55	.0	52.0 N	172.0 E	76.9	7.8	USCGS
		1 06 52		P	N*	0		
465	23	0 58	36.0	53.0 N	167.5 W	76.2	354.9 6.2	USCGS
		1 10 26		P	N*	0		
466	25	22 35	.0	1.5 S	116.5 E	105.0	73.5 6.3	USCGS
		23 42		LM	VG	0		
467	26	5 10	.0	2.0 S	116.0 E	105.1	74.2 6.3	USCGS
		5 28 40		PP	VG	0		
468	26	8 15	22.0	40.0 N	23.0 E	16.9	122.5 6.2	BCIS
		8 24 10		PCP	E*,N*	0		

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NOVEMBRE - DECEMBRE

469	26	11 50	2.0	40.0 N	23.0 E		16.9	122.5	5.8	BCIS
		11 58	50	PCP	E*	0				
470	27	3 8	5.0	39.5 N	22.8 E		17.1	124.0	6.3	BCIS
		3 12	11	P	VG	0				
		3 12	26	/PP/	N*					
		3 12	34	/PPP/	N*					
		3 15	24	/S/	NG					M.B.TEMPS
471	29	22 19	38.0	21.0 S	66.0 W	.025	94.3	242.0	7.5	BCIS
		22 32	50	P	VG, E*	0.025	94.5			M.B.TEMPS
		22 33	44	pP	E*, VG					
		22 34	20	/BP/	VG					
		22 36	41	PP	E*					
		22 43	00	SKS	E*					
		22 43	41	S	N*					
		23 05,2		LM	VG					
		23 10,2		M	E*, N*					
472	30	21 54	10.0	47.0 N	154.0 E		79.0	20.6	6.2	USCGS
		22 06	18	P	Z*, VG	0				
473	2	12 48	50.0	36.6 N	1.3 E		14.3	190.0		BCIS
		12 57,2		LM	VG	0				
474	4	3 37	44.0	45.2 N	99.4 E		59.4	54.8	7.9	BCIS
		3 47	52	P	Z*, E*, N*	0				
		3 48	42	PCP	E*, VG					
		3 50	12	/PP/	Z*, E*, N*					
		3 51	32	PPP	E*					
		3 55	59	S	E*					
		3 56	12	PS	N*					
		3 56	22	PPS	Z*, E*, N*					
		3 57	42	SCS	E*					
		3 59,9		SS	E*					
		4 02,8		SSS	E*					
		4 03,2		LQ	E*					
		4 05,8		LR	Z*					

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DECEMBRE

		4 06,3 4 10,1		MQ MR	N* E*					
475	4	13 20 8.0		45.0 N	101.5 E		60.7	53.8	6.5	USCGS
		13 30 26 13 50,2		P LM	E*,N*	0				M.B.TEMPS
476	5	14 4 30.0		72.0 N	6.0 E		21.1	1.4	4.5	USCGS
		14 09 37 14 10		P /PP/	Z*,N*,VG N*	0				
477	5	18 9 32.0		45.0 N	100.0 E		59.9	54.6	5.2	USCGS
		18 24 26		/PPP/	N*	0				
478	6	4 54 30.0		42.7 N	12.0 E		9.6	144.2	4.5	BCIS
		4 59 22		/S*/	E*	0				
479	8	5 54 37.5		48.2 N	9.0 E		3.9	128.9		BCIS
		5 56 22 5 56 57		/SN/ /SG/	E*,N* N*,E*	0				
480	9	22 7 43.0		65.5 N	133.0 W		59.3	340.9	5.7	USCGS
		22 17 52		/P/	Z*,E*,N*	0				
481	10	14 35 57.0		6.0 S	154.5 E		128.9	39.5	6.8	USCGS
		14 57 14 15 02 10 15 53,4		/PP/ /SKS/ LM	Z*,N* N*	0				
482	13	1 31 57.0		7.0 N	76.0 W	.010	78.5	267.0	6.7	USCGS
		1 43 58 1 53 20		PCP BP	Z*,E* Z*	0				

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483	13	1 44	59.0	34.6 N	47.8 E	35.2	100.4	7.1	BCIS	
		1 51	58	P	Z*,E*,N*	0				
		1 53	18	PP	E*					
		1 53	34	PPP	N*,E*					
		1 57	33	S	N*					
		2 00,5		L	E*,N*					
		2 06,5		M	N*					
484	13	20 26	22.0	52.5 N	170.0 W	76.9	356.5	6.5	USCGS	
		20 58,5		LQ	E*	0				
485	16	4 49	59.0	43.2 N	20.5 E	13.3	118.4		BCIS	
		4 53	00	/P/	E*,N*	0				
486	17	5 10	11.0	53.5 N	162.0 E	74.3	13.6	6.6	USCGS	
		5 21	58	P	VG	0				
		5 24	39	PP	VG					
		5 54,5		LM	VG					
		6 02,5		M	VG					
487	17	13 50	12.0	12.5 S	166.5 E	.010	139.1	27.2	7.6	USCGS
		14 09	34	/PKP/	Z*	0.010				
		14 12	30	PP	Z*,N*					
		14 13	12	SKP	Z*,E*,N*					
		14 24	36	SPP	Z*					
		14 24	52	PPS	Z*					
		14 56,5		LR	Z*,E*,N*					
488	21	18 53	27.0	36.0 N	2.0 E	14.8	187.5		USCGS	
		18 57	11	PP	E*	0				
489	23	12 34	6.0	35.7 N	35.0 W	31.9	257.2	5.9	BCIS	
		12 48,5		LM	N*	0				

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DECEMBRE

490	28	19 01	22.0	16.0 S	172.0 W	145.2	353.9	U	SCGS
		19 21	04	PKP	Z*			0	
491	31	10 21	34.0	57.7 N	32.0 W	22.0	302.3	5.4	BCIS
		10 26	34	P	VG, N*			0	
		10 27	00	/PP/	VG				
		10 33,5		LM	N*, VG				
492	31	14 28	15.0	45.0 S	165.5 E	166.0	72.6	6.5	USCGS
		14 48	22	PKP1	Z*, VG			0	
		14 49	26	PKP2	VG				
		16 07,5		LM	VG				

J - M VAN GILS