

OBSERVATOIRE ROYAL DE BELGIQUE
KONINKLIJKE STERRENWACHT VAN BELGIE

BULLETIN D'OBSERVATIONS : SEISMOLOGIE

WAARNEMINGSBERICHTEN : SEISMOLOGIE

BULLETIN SEISMIQUE

Station:Uccle

ANNEE 1962

Section - Géodynamique
Sectie - Géodynamica

Juin 1970

OBSERVATOIRE ROYAL DE BELGIQUE

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INTRODUCTION

Coordonnées géographiques de la Station.

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

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

En 1962, les séismographes ont fonctionné sans interruptions

Constantes approximatives des séismographes Galitzine :

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

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

$$\mu = 0,0 ; \quad T = 10^s,0 ; \quad T_1 = 10^s,15 ; \quad k = 290$$

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

	Z*	E*	N*
T :	4 ^s ,22 et 4 ^s ,23	7 ^s ,35	7 ^s ,38 et 7 ^s ,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 1962, la température a varié entre 16,5° et 19,0° C et le degré d'humidité a été maintenu à 60 %.

Analyse des séismogrammes et bulletins. - En 1962, 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
ANNÉE

MOIS

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

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

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

LISTE DES ABREVIATIONS

- Δ_o : distance observée (exprimée au 0,1 de degré).
 Δ_c : distance calculée (exprimée au 0,1 de degré)
 α : 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-Sonville
 EG : séismographe horizontal Galizine (composante E-W)
 NG : séismographe horizontal Galizine (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
 $h=0$ m : foyer superficiel
 $h=0,00$ m : profondeur 33 km.

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1	01	02 41	11.6	52.2 N	177.7 E	.002	77.32	4.20	USCGS
		2 53	04	P	VG				
2	01	23 40	23.4	52.2 N	177.7 E	.000	77.32	4.20	USCGS
		23 52	19	P	VG		77.2		
		24 02	05	S	EG				
		24 18,8		L	EG				
		24 25,1		L	EG				
		24 32,0		M	EG				
		25 15,0		F	EG				
3	02	12 22	58.3	79.7 N	022.7 E	.000	29.73	6.56	USCGS
		12 35,6		LM	EG				
		13 15,0		F	EG				
4	02	19 03	06.4	19.2 N	145.4 E	.019	102.38	37.47	USCGS
		19 17	04	P	VG				
5	03	06 49	45.7	21.6 S	169.9 E	.000	148.72	26.59	USCGS
		7 09	43	PKP	VG				
6	03	11 20	55.3	20.6 S	174.5 O	.000	149.87	357.87	USCGS
		11 40	54	PKP	VG				
		11 44	50	E	VG				
7	04	23 50	27.2	21.5 S	169.9 E	.000	148.62	26.53	USCGS
		10 15		PKP	EE,NE,VG				
8	04	04 35	41.3	33.7 N	135.2 E	.002	85.42	39.25	USCGS
		4 48	15	P	VG	.004	85.5		
		4 48	34	*PP	VG,EG				
		4 48	39	*SP	VG				
		4 58	41	S	EG				
		5 15,0		G	EG				
		5 18,0		L	EG				
		5 21,9		M	EG				
		6 14,0		F	EG				
9	05	00 23	32.1	15.5 S	177.7 O	-.002	144.78	3.44	USCGS

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		43 14	PKP	NE, VG					
		1 35,5	LM	EG					
		2 36,0	F	EG					
10	05	08 08 06.9	15.1 S	172.7 O	.000	144.34	355.13		USCGS
		8 27 44	PKP	VG					
		9 51,6	LM	EG					
		9 53,6	F	EG					
11	07	01 14 15.6	52.2 N	153.9 O	.000	75.83	346.40		USCGS
		1 25 38	P	EG					
12	07	10 03 12.0	43.1 N	017.1 E	.000	11.61	126.63		
		10 06 01	PP	EE, NE		11.2			
		10 06 09	PPP	NE, VG, EG					
		10 08 10	S	VG, NG					
13	08	01 00 22.7	18.4 N	070.8 O	-.001	66.60	270.70		USCGS
		1 11 12	P	EE, NE, VG	.005	67.0			
		1 11 32	*PP	VG, EG					
		1 11 38	I*SP	VG					
		1 11 41	PCP	VG					
		1 13 43	PP	VG					
		1 19 58	IS	EG					
		1 20 37	/PS/	EG					
		1 28,0	LQ	EG					
		1 32,0	LR	EG					
14	08	05 43 02.2	24.2 S	177.7 O	.016	153.41	4.20		USCGS
		6 02 52	PKP2	NE, VG					
15	09	12 40 49.3	43.0 N	144.9 E	.003	80.53	28.22		USCGS
		13 17,5	LM	EG					
		13 23,5	LM	EG					
16	11	03 01 31.7	27.9 N	084.9 E	.001	63.12	78.16		USCGS
		3 12 07	P	VG					
		3 15 22	PP	NE					

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17	11	05 05 03.0 5 07 45,5 5 07 57,8 5 09 55,9 5 10 08 5 10 32	32.0 N P PP S SS M	173.0 E EE NE NE EE, VG EG	.018	97.04 11.4	9.71	BCIS
18	13	04 48 03.0 4 54 12 4 59,5	43.2 N LM F	017.0 E EG EG	.000	11.49	126.54	BCIS
19	17	15 43 18.9 16 39,0	03.5 N LM	126.6 E EG	.007	106.89	61.94	USCGS
20	19	19 38 00.0 19 42 20 19 45 20 19 47,2	38.5 N PP S M	022.0 E EE, NE EG NG	.000	17.51	127.80	BCIS
21	19	22 18 22.0 22 22 22 22 26 06 22 27,3	38.5 N P /SS/ M	022.0 E NE EE, NE EG	.000	17.51	127.80	BCIS
22	21	02 51 32.0 2 54 35 2 56 36 2 56,9	43.3 N PP S LR	017.1 E EE EE EG	.000	11.47	125.93	BCIS
23	21	02 51 34.8 13 10 26	43.0 N PKP	016.9 E NE	.000	11.58	127.50	USCGS
24	21	17 53 29.2 18 06 32	42.8 N P	144.5 E NG	.000	80.60	28.57	USCGS
25	23	17 31 38.7 17 35 34 17 35 47	44.5 N SSS LR	012.4 E EG NG	-.001	8.31	136.19	USCGS

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17 36 35 M EG

26	26	08 17	39.9	35.4 N	022.7 E	.000	20.31	132.23	USCGS
		8 22	16.6	IP	EE,NE				
		8 22	38	IPP	EG,NG				
		8 22	51	IPPP	VG,EG				
		8 26	08	S	EE,NE,VG				
		8 26	30	SS	VG				
		8 28	16	L	EG				
		8 28.6		L	NE				
		8 29.3		M	EG,NG				
27	28	05 40	08.2	17.2 S	172.0 O	-.002	146.37	353.71	USCGS
		5 59	48	IPKP	VE,EE,NE				
		6 00	00	I*PPKP	NG				
28	30	08 34	23.9	12.7 N	087.5 O	.003	81.42	279.49	USCGS
		9 14.3		L	EG				
29	02	07 59	57.8	49.7 N	078.1 E	-.005	45.35	61.24	USCGS
		8 08	18	P	NE				
30	03	00 37	57.4	01.3 S	137.5 E	.000	116.80	54.83	USCGS
		1 07	32	PS	EG				
		1 31.7		LR	EG				
		1 40.0		LM	EE,NG				
		1 40.5		M	EG				
		1 48.5		M	EG				
31	04	21 29	37.2	00.5 S	020.2 O	.000	55.17	210.40	USCGS
		21 39	10	P	NE	-.003	55.5		
		21 39	18	*SP	EE,VG,EG				
		21 43	53	S	EG				
		21 50	28	SS	NG				
		21 56.0		L	EG,NG				
		21 61.9		M	EG				
32	05	22 55	51.9	35.9 N	139.1 E	.016	84.98	35.38	USCGS
		23 08	14	P	NE,NG				

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FEVRIER

33	08	10 52 38	/PG/	NE,EG					
		10 52 40	/P*/	EE					
		10 52 43	/SG/	EG					
34	08	11 49 11.6	03.2 S	141.1 E	.001	120.26	52.41		USCGS
		12 08 12	PKP	NE					
		12 47,5	L	EG					
35	09	01 01 37.0	34.5 N	140.9 E	-.002	86.89	34.68		USCGS
		1 14 12	P	EG					
36	09	4 22 57,3	IPG	VE		.34			
		4 23 01,7	SG	EE					
37	11	18 55 32.8	04.5 S	153.5 E	.012	127.10	39.88		USCGS
		19 52,1	L	EG					
38	12	04 56 13.5	04.5 S	153.8 E	.012	127.23	39.54		USCGS
		5 16 01	E	NG					
39	12	06 45 00.4	02.0 N	128.1 E	.021	108.96	61.51		USCGS
		6 59 19	P	NE					
40	14	01 53 33.9	04.3 S	153.5 E	.013	126.92	39.78		USCGS
		2 09 53	E	NE					
41	14	06 36 04.6	37.8 N	072.5 O	.002	54.14	287.83		USCGS
		6 50 42	P	EG					
		7 01 16	SKS	EE,NE,EG					
		7 04 52	IPS	EE,NE,EG					
		7 11 03	ISS	FG					
		7 30,0	LR	VG					
		7 33,2	MR	EG					
42	18	17 25 14.8	08.1 N	074.8 O	.001	76.87	266.76		USCGS

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FEVRIER - MARS

17 37 11	P	EG,NG
17 37 17	PCP	EG,NG
17 46 51	/S/	EG,NG
18 01,0	L	EG

43	20	09 15 58.3	06.7 N	092.4 E	.000	83.57	87.27	USCGS
		10 01,5	L	EG				

44	20	16 05 45.4	43.1 N	144.8 E	.004	80.41	28.24	USCGS
		16 17 52	P	VG				
		16 43,0	LM	EG				

45	20	22 02 39.6	25.8 N	096.8 E	.000	71.93	71.33	USCGS
		22 14 06	P	NE				
		22 23 21	S	EG				
		22 27 59	/SS/	EG				
		22 31,9	SSS	EG				
		22 38,6	L	NG				

46	23	18 05 23.3	04.0 S	152.4 E	.000	126.20	40.87	USCGS
		18 24 20	PKP	NE,NG				

47	23	20 00 30.4	10.9 N	125.8 E	.010	100.36	58.42	USCGS
		20 14 17	P	EE,NE,EG				

48	23	20 21 28.6	03.8 S	152.0 E	-.002	125.85	41.22	USCGS
		21 22,2	L	NG				

49	25	14 00 43.9	17.1 S	168.4 E	-.002	144.03	26.60	USCGS
		17 20 26	PKP	NE				

50	27	12 40 50.2	37.4 S	072.5 O	.005	110.53	235.97	USCGS
		13 09 32	PS	EG				
		13 32,0	LR	NG				
		13 40,4	M	NG				

51	01	22 20 00.0	37.2 N	004.0 O	.000	14.85	206.93	BCIS
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MARS

		22	28,4		L	EG					
52	02	23	41 11.5	14.0	S	172.1	E	.000	141.99	19.55	USCGS
			22 18		S		EG				
			47,2		L		EG				
			56,0		M		EG				
53	02	13	03 09.6	05.6	N	126.7	E	.010	105.22	60.64	USCGS
			13 54,2		L		NG				
54	03	12	14 55.3	07.4	N	126.6	E	.008	103.68	59.71	USCGS
			13 08,3		L		EG				
55	04	00	41 42.0	10.6	S	075.2	O	.000	91.53	255.30	USCGS
			55 22		P		NE				
56	06	05	55 44.8	13.6	N	093.4	E	.000	78.97	82.05	USCGS
			6 38,2		L		NG				
57	07	11	01 04.6	19.2	N	145.1	E	.002	102.26	37.73	USCGS
			11 18 14		IPP		EG				
			11 25 40		SKS		EG				
58	08	21	38 35.8	03.6	S	029.2	E	.000	58.17	150.45	USCGS
			21 48 30		P		NE				
			22 06,5		LR		EG				
			22 12,2		LM		EG				
59	09	06	57 10.6	18.6	S	177.9	O	.064	147.84	4.03	USCGS
			7 16 07		PKP1		NG				
			7 16 13		PKP2		EG				
60	11	19	19 09.4	09.0	N	126.5	E	.003	102.31	58.89	USCGS
			19 43 47		SKS		EG				
			20 01,7		L		NG				
			20 11,8		LM		EG				

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MARS

61	12	09 41 33.9 9 54 04 10 20,0	08.2 N P LM	082.8 0 EG EG	-.002	81.87 273.01	USCGS
62	12	11 40 12.2 11 52 39 11 55 44 12 02 52 12 08,0 12 14,6 12 18,2	08.1 N P PP SCS SS L M	082.9 0 VE,EE,EG EG EE,NE,EG EG NG EG	-.001	82.01 273.02 83.0	USCGS
63	14	20 54 42.0 20 57 32 20 57 45	47.6 N LQ LR	001.3 W EE,NE,EG NE,EG	.000	4.89 231.35	BCIS
64	15	13 07 06.9 13 25 53	20.6 S PKP	178.8 0 EG	.092	149.78 5.88	USCGS
65	17	20 47 32.3 20 57 10 20 57 17 20 59 14 21 04 48 21 04 58 21 08 36 21 12,6 21 17,1	10.9 N P I/*PP/ PP S PS /SS/ LR M	043.2 0 VE,EE,EG EG,NG EG NE,EG NG EG NG EG	.000 -.002	55.50 241.53 55.1	USCGS
66	18	03 06 18.8 4 22,5	16.5 S LM	168.2 E EG	-.004	143.40 26.61	USCGS
67	18	15 30 33.6 15 33 59 15 34 12 15 34 18 15 36 42 15 36 58 15 37 08 15 37 30	40.4 N P PP PPP S SS SSS LM	019.4 E EG VE,EE,NE NG EG,NG EG NG EE,NG	.000	14.77 128.97 14.6	BCIS

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		15 38 06	M	NG					
		15 38 36	M	VE					
68	18	20 18 54.6 21 01,6	23.8 N LM	114.6 E EG	-.002	83.75	59.83	USCGS	
69	19	05 54 36.9 6 51,6	00.2 N LM	123.6 E EG	.018	107.85	66.48	USCGS	
70	22	00 19 43.2 42 38 45 48	06.0 S SKS SP	113.0 E EG EG	.085	106.31	79.20	USCGS	
71	22	15 13 13.5 15 33 30 15 43 18 15 50 09 16 10,5 16 14,3	03.3 S PP PS /SS/ L M	142.7 E EG,NG EG EG EG NG	.010	121.14	50.86	USCGS	
72	24	12 59 32.3 13 18 19 13 30 00 13 59,5	05.7 S PKP SP L	145.2 E EG,NG EG,NG EG	.010	124.44	49.66	USCGS	
73	25	21 38 26.7 21 41 28 21 41 38 21 41 48 21 44 26	39.1 N P PP PPP S	014.7 E EE,NE EG,NG EE,EG,NG EE	.049	13.78 16.3	144.11	USCGS	
74	26	09 22 07.2 9 31,2	38.5 N L	020.7 E NG	.000	16.87	130.49	USCGS	
75	26	12 04 58.3 12 22 10 12 31,2	00.3 S S L	019.5 O FG,NG EG	.000	54.76	209.67	USCGS	

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MARS - AVRIL

76	26	16 32 43.6 17 32,0	40.6 S LM	073.3 O NG	.000	113.32 234.17	USCGS
77	31	07 44 35.8 8 38,8	09.8 N LM	121.4 E EG	.017	98.82 62.67	USCGS
78	01	00 54 14.6 53 58 54 10	33.6 N P *PP	059.0 E EG,NG NE	.000	42.87 92.00	USCGS
79	01	05 01 56.0 5 43,4	41.9 N LM	143.4 E NG	.003	81.07 29.70	USCGS
80	01	09 26 35.6 9 34 46	81.5 N P	119.5 E EG	-.002	43.66 11.26	USCGS
81	01	12 11 09.2 12 30 01	04.2 S PKP	143.6 E NE	.007	122.36 50.45	USCGS
82	01	15 37 02.4 15 56 35	17.9 S PKP	167.2 E EG	.004	144.43 28.88	USCGS
83	04	14 02 32.2 14 42,5	08.0 N LM	083.0 O EG	-.002	82.15 273.04	USCGS
84	04	19 55 12.8 20 00 17 20 00 34	35.0 N P PP	025.6 E EE NE	-.001	22.04 127.60	USCGS
85	04	20 51 05.2 20 56 12	34.7 N P	025.5 E NE	-.002	22.23 128.25	USCGS
86	04	20 59 36.1 21 04 35	34.6 N P	025.5 E NE	-.002	22.31 128.41	USCGS

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AVRIL

		21 05 08	PP	EE,EG					
87	07	06 21 38.4 7 16,5	10.0 N LM	144.4 E EG	.003	110.25	42.39		USCGS
88	10	21 37 13.0 21 41 12 21 41 23,6 21 41 32 21 44 20 21 44 37 21 44 48 21 46 04 21 45,5 21 47,0	38.2 N P IPP IPPP S ISS I/SSS/ /PCP/ LR M	019.7 E EG VE VE,EG EG EG EG EE,NE,NG EG,NG EG,NG	.000	16.64	133.30 16.8		BCIS
89	10	22 10 50.3 22 14 57 22 15 03	38.1 N PP /PPP/	020.4 E EE,EG NE	-.002	17.05	131.96		USCGS
90	11	10 47 33.0 10 51 32 10 57,0	38.2 N P LM	019.7 E EG,NG EG	.000	16.64	133.30		BCIS
91	12	00 52 44.8 1 05 12 1 08 32 1 11 57 1 15 32 1 15 36 1 29,4 1 32,5 1 36,0 1 40,3 1 43,4 1 45,4	38.1 N P PP /PPPP/ SKS S L LM LR M M MR	142.3 E VE,NE,EG EG,NG EG NG NE EG EG VE EG NE NE,EG	.002	84.15	32.10 84.2		USCGS
92	12	05 16 05.0 6 01,9	38.2 N LM	142.5 E EG	-.002	84.12	31.91		USCGS
93	12	13 38 05.0	05.5 N	045.0 E	.000	56.39	128.91		BCIS

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AVRIL

		13 40 01	/P*/	NG					
		13 41 17	/S*/	NE					
		13 41 45	SSS	NE,NG					
94	12	16 36 03.4 17 07,0	28.7 S LM	071.9 W EG	.000	103.70	241.41	USCGS	
95	13	18 35 58.3 19 02,0	49.1 N LM	087.2 E EG,NG	-.001	50.65	57.53	USCGS	
96	15	18 08 27.3 18 38,9	02.7 S L	011.0 W EG	-.002	54.94	198.85	USCGS	
97	15	18 45 17.4 19 02 36 19 14,9	02.9 S S L	011.9 O EG EG	-.002	55.22	199.89	USCGS	
98	16	00 15 25.0 19 17 25,0	39.1 N P L	020.8 E EG NG	.000	16.46	128.97	BCIS	
99	16	07 18 54.1 7 23 48	35.8 N P	026.5 E NE	.000	21.89	124.73	USCGS	
100	16	13 20 15.1 13 33 01 13 43 42 14 01,9 14 08,2	30.6 N P S L LM	140.6 E NG EG,NG EG EG	.022	90.27	36.61	USCGS	
101	16	17 54 49.2 18 48,9	44.8 S L	037.2 E EG	-.002	99.29	156.96	USCGS	
102	17	10 03 50.0 10 10,0	17.2 N L	042.3 E EG,NG	.000	45.10	123.98	BCIS	

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AVRIL

103	17	11 34 00.0 11 41 15 11 43,3	39.0 N SSS L	018.2 E EG EG,NG	.000	15.31 135.09	BCIS
104	17	20 54 08.3 21 06 31	38.1 N P	142.5 E NE	.002	84.21 31.95	USCGS
105	17	22 34 56.7 22 44 40 22 58,7 23 03,7	01.5 S P L M	014.9 O NE EG EG	-.002	54.58 203.85	USCGS
106	18	10 44 41.3 10 55,2	38.1 N E	020.5 E EG	-.002	17.10 131.75	USCGS
107	18	19 14 35.6 19 27 58 19 38 15 19 45 15 19 58,1	09.9 S P SKS SS LR	078.9 O NE EG NG NG	-.002	93.28 258.57	
108	19	02 05 59.4 2 09 57 2 15,2	38.5 N P LM	020.5 E EE,NE,EG NG	-.002	16.78 130.92	USCGS
109	19	02 18 55.9 3 26,8	09.8 S LM	078.9 O EG	-.002	93.20 258.64	USCGS
110	19	11 55 27.3 12 14,3	38.6 N L	044.0 E NG	-.002	30.34 98.20	USCGS
111	19	23 16 07.0 23 25 53 23 33 22 23 41,2 23 47,6	69.8 N P S L M	138.8 E NG EG,NG EG EG	-.003	55.29 17.57	USCGS

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AVRIL

112	20	05 47 55.3	20.6 N	072.2 O	-.002	65.87	273.37	USCGS
		5 58 41	IP	EE,NE		65.1		
		5 59 13	IPCP	NE,EG,NG				
		6 01 06	PP	EG,NG				
		6 02 43	/PPP/	EG				
		6 03 17	PCS	EG				
		6 03 29	/PPPP/	EG				
		6 07 23	S	EE,EG				
		6 07 40	/PS/	EG				
		6 07 50	/PPS/	EG				
		6 08 34	SCS	EG				
		6 11 33	/SS/	NG				
		6 14 14	/SSS/	EG				
		6 14 59	/SSSS/	NG				
		6 16,2	L	EG				
		6 19,2	M	EG				
		6 26 38	SKKS2	NG				
113	22	02 10 11.3	18.7 S	169.4 E	.035	145.83	25.83	USCGS
		2 29 23	PKP	EE,NE				
114	22	04 45 20.3	15.5 N	093.1 O	.006	82.75	285.51	USCGS
		4 57 41	P	EE,NE,EG				
		5 07 47	S	EG				
		5 25,0	LM	EG				
115	22	19 15 34.1	32.7 N	130.6 E	.023	84.35	43.11	USCGS
		19 27 48	P	EG				
116	23	05 58 04.9	42.9 N	143.4 E	-.002	80.17	29.27	USCGS
		6 10 18	P	EG		79.7		
		6 10 27	IPCP	EG				
		6 13 26	IPP	NE,NG				
		6 20 20	IS	EE,EG				
		6 20 33	ISKS	NG				
		6 25 36	SS	NG				
		6 30,3	L	EG				
		6 34,2	G	EG				
		6 38,5	LM	EG				
		6 45,9	M	EG				
117	25	04 44 48.0	45.0 N	005.3 E	.000	5.84	173.42	BCIS
		4 46 14,9	PN	NE		5.7		
		4 46 42,9	PG	EE,EG				

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AVRIL

		4 46	49,9	PPP	EE,NG				
		4 47	21,7	SN	VG				
		4 47	40,9	S*	EG				
		4 47	58,8	ISG	EE,VG,EG				
		4 48	02,9	LR	NE				
		4 48	23,9	M	VG				
118	25	06 22	28.0	38.1 N	020.6 E	-.002	17.14	131.54	USCGS
		6 26	44	P	EE,EG				
		6 31,2		LM	NG				
119	25	15 47	29.4	38.4 N	142.5 E	.004	83.94	31.83	USCGS
		15 59	56	P	VE,EE,NE				
		16 10	16	SKS	NG				
		16 27,1		L	NG				
		16 38,3		MR	EG				
120	25	19 49	49.3	37.8 N	143.3 E	.002	84.75	31.50	USCGS
		20 31,5		L	EG				
		20 40,7		LM	EG				
121	25	21 40	38.0	46.2 N	007.5 E	.000	5.05	154.40	BCIS
		21 41	50	PN	NE				
		21 43	15	SG	EE,EG				
122	26	07 26	31.3	17.3 S	179.1 O	.098	146.49	5.99	USCGS
		7 45	08	PKP	NG				
123	27	04 17	43.0	45.0 N	005.5 E	.000	5.85	172.04	BCIS
		4 19	15	PN	NE				
		4 19	41	/PG/	EG				
		4 20	12	/SSS/	NE				
		4 20	25	SN	EE,NE,EG				
		4 20	50	SG	EG				
124	27	06 30	24.9	23.1 S	179.2 E	.085	152.07	10.18	USCGS
		6 49	19	PKP	NE				
125	27	06 47	27.0	44.4 S	074.8 O	-.001	116.84	232.17	USCGS

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AVRIL - MAI

7 42,0

LM

NG

126	28	11 18 53.0	36.1 N	027.0 E	.000	21.92	123.38	BCIS
		11 23 49	P	VE,EE,NE		22.6		
		11 23 59	PCP	EG				
		11 27 53	S	NE,NG				
		11 30,0	LQ	EG				
		11 32,0	LR	VG				
		11 33,7	M	EG				
127	28	12 43 44.0	36.4 N	027.0 E	.000	21.69	122.85	BCIS
		12 48 39	P	VG,NG		22.6		
		12 52 43	S	NE,NG				
		12 55,0	L	NG				
		12 57,0	LM	NG				
128	30	02 26 30.0	38.8 N	140.9 E	.011	83.04	32.79	USCGS
		2 38 49	P	NE		83.6		
		2 49 11	S	EG,NG				
		2 58,0	L	EG				
		3 10,8	LM	NG				
129	30	16 16 51.2	18.1 S	176.1 O	.000	147.39	.81	USCGS
		16 36 32	PKP	VG				
		16 40 07	PP	NE				
		17 25,8	LM	NG				
130	30	18 31 05.9	18.1 S	176.1 O	.009	147.39	.81	USCGS
		18 50 39	PKP	NE				
		19 43,2	LM	EG,NG				
131	30	23 50 20.0	73.7 N	007.0 E	.000	23.04	1.91	BCIS
		23 55 21	P	FE,VG,EG		21.9		
		23 55 48	PP	VG				
		23 59 19	S	VG				
		24 00,6	L	VG				
		24 02,7	LM	VG				
		24 03,8	M	VG				
132	01	10 00 00.0	24.2 N	005.1 E	-.005	26.55	178.49	USCGS

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MAI

		10	05	57	P	NE				
133	03	03	34	49.0	60.0 S	032.9 O	-.003	114.39	199.53	USCGS
		4	21,6		L	EG				
134	03	23	27	26.0	43.6 N	005.3 O	.000	9.75	226.08	BCIS
		23	29	58	P	NE		9.9		
		23	30	08	PP	EG,NG				
		23	30	18	P*	EG				
		23	31	51	SN	EE				
		23	32,6		L	NG				
135	05	11	11	49.3	34.1 N	139.3 E	.004	86.66	36.04	USCGS
		11	52,9		L	EG				
		11	59,4		M	NG				
136	06	19	00	13.5	60.2 S	033.5 O	.000	114.70	199.73	USCGS
		19	19	51	PP	EG,NG				
		19	25	39	SKS1	EG				
		19	26	03	SKS2	EG				
		19	26	51	SKKKS	EG				
		19	29	25	PS	NE				
		19	30	37	PPS	NG				
		19	35	36	SS	NG				
		19	46,3		L	EG				
		19	49,3		L	NG				
		19	51,9		L	EG				
		20	02,9		M	EG				
137	07	17	39	50.3	45.2 N	146.9 E	-.003	79.10	25.98	USCGS
		17	51	54	P	NG		78.9		
		17	54	52	PP	NG				
		17	56	59	/PPP/	NG				
		18	01	52	S	NG				
		18	02	05	SKS	NG				
		18	02	49	/PPS/	NG				
		18	07	01	SS	EG				
		18	11	03	/SSS/	EG				
		18	16,6		L	EG				
		18	22,0		MQ	EG				
		18	27,0		MR	NE				
138	08	23	53	59.0	35.5 N	024.1 E	.008	20.90	129.44	USCGS

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MAI

 23 58 36
 23 58 51
 24 02 36
 24 05,6

 P
 PP
 PCP
 LR

 EG,NG
 EE,EG,NG
 EG
 EG

21.9



139	09	18 20 06.7 19 08,0	29.2 N LM	130.3 E EG	.002	87.21	45.13	USCGS
140	10	00 27 17.5 1 59,7	41.8 S LM	171.6 E NG	.003	167.34	49.27	USCGS
141	10	05 12 15.9 5 49,6	52.4 N LM	170.9 O EG	.002	77.19	357.02	USCGS
142	10	11 14 25.0 11 19 23	49.2 N P	028.5 O EE	-.002	21.10	278.50	USCGS
143	10	18 30 56.0 18 38,3	42.1 N LM	019.2 E NG	.000	13.41	124.72	BCIS
144	11	01 05 30.0 1 07 36 1 07 44 1 09,9	44.0 N P PP L	011.2 E NE EG NG	.000	8.23	143.10	BCIS
145	11	01 05 31.6 2 17,6	44.4 N LM	011.1 E EG	-.002	7.85	142.03	USCGS
146	11	04 52 43.4 6 14,2	06.4 S LM	143.6 E EG	.001	124.21	51.71	USCGS
147	11	14 11 54.1 14 24 32 14 24 34 14 27 50 14 35 02	17.0 N P IPCP PP S	099.6 O EE VE,EE,NE EE EE	.001	85.51 85.3	291.34	USCGS

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MAI

		14 35 08	SCS	NE					
		14 36 16	/PPS/	NE					
		14 48,9	LQ	NG					
		14 54,6	LR	EG					
		14 58,5	MR	EG					
148	12	19 21 25.0	45.8 N	006.3 E	.000	5.17	164.75		BCIS
		19 24 20	/SG/	EE,EG					
149	14	16 53 06.2	49.0 N	028.8 O	-.002	21.35	278.13		USCGS
		16 57 53	P	EG					
		16 58 04	/PP/	EE					
		17 04,5	L	EG					
150	15	05 23 46.4	07.3 S	128.3 E	.000	116.62	67.08		USCGS
		5 38 35	/P/	NE		114.6			
		5 42 30	PKP	NG					
		5 43 32	PP	NE					
		5 49 21	SKS	EG					
		5 53 32	/PS/	EE					
		6 00 04	SS	EG					
		6 08,0	LQ	EG					
		6 24,0	LR	VE					
		6 27,3	MR	NG					
151	18	12 11 59.8	48.6 N	028.7 O	-.002	21.41	277.03		USCGS
		12 22,8	LR	EG					
152	18	18 46 40.1	46.1 N	148.5 E	.004	78.71	24.57		USCGS
		19 35,3	LR	EG					
153	18	23 18 46.9	16.0 S	173.0 O	-.002	145.25	355.54		USCGS
		23 38 28	PKP	EE					
154	19	14 58 15.0	17.2 N	099.5 O	.000	85.29	291.39		USCGS
		15 10 51	IP	VE		85.0			
		15 10 59	IPCP	EE,EG					
		15 14 10	PP	EE,EG,NG					
		15 21 14	SKS	NG					
		15 21 20	S	EG					
		15 21 34	ISCS	EE,NE,EG					
		15 22 15	PS	EG					

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MAI

15	27	10	/SS/	NG
15	30	55	/SSS/	EG
15	35	51	/SSSS/	NG
15	36,6		LQ	EG
15	41,0		LR	NE
15	45,3		MQ	NG
15	49,5		MR	NG

155	19	20 48	32.8	38.0 N	022.4 E	-.001	18.10	128.05	USCGS
		20 52	50	P	NE				

156	19	20 54	26.0	50.5 N	018.8 E	.000	9.19	86.27	BCIS
		20 58	34	M	EG				

157	21	12 02	50.6	37.3 N	096.0 E	-.002	63.16	63.32	USCGS
		12 13	20	P	EG		63.9		
		12 15	48	PP	EG				
		12 17	20	PPP	EG				
		12 21	55	S	EG				
		12 22	20	IPS	EG				
		12 23	22	/SKS/	NG				
		12 26	16	/SS/	NG				
		12 28	52	SSS	NG				
		12 31,9		LQ	NG				
		12 35,5		LR	EE,NE				
		12 40,2		MR	EG				

158	21	21 15	30.0	19.8 S	177.4 O	.048	149.05	3.22	USCGS
		21 34	38	PKP1	VE	.056			
		21 34	54	PKP2	VE				
		21 36	18	*PPKP	VE				
		21 36	28	I*PPKP	VE,NE				
		21 37	15	*SPKP	NG				
		21 38	36	PP	EG				
		21 38	50	PKS	EG				
		21 56	47	SS	EG				
		21 59	21	*SSS	EG				
		22 02	45	SSS	EG				

159	22	00 20	02.4	16.8 S	174.3 O	.003	146.09	357.70	USCGS
		39 41		PKP	EG				

160	22	08 06	38.8	12.3 S	166.6 E	.016	138.96	27.00	USCGS
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MAI

		8 25 49	PKP	NE					
		8 28 41	/PP/	EG					
		8 29 28	*PPP	EG					
161	22	22 03 32.1	05.4 S	151.9 E	.003	127.24	42.17	USCGS	
		22 22 35	PKP	EG					
		23 09,2	LM	NG					
162	24	04 24 49.8	49.1 N	129.4 W	-.002	72.81	330.25	USCGS	
		4 58,9	LM	EG					
163	25	00 48 58.3	58.6 N	031.4 O	.000	21.88	304.76	USCGS	
		53 56	P	EG,NG					
		59,5	LM	EG					
164	25	01 07 11.5	59.1 N	031.4 O	.000	21.93	306.10	USCGS	
		1 12 03	P	EE,NE					
		1 19,1	LM	EG					
165	25	04 19 57.0	20.7 S	174.3 O	.039	149.96	357.49	USCGS	
		4 39 19	PKP	EG					
		5 02 03	/SS/	EG					
166	25	04 19 57.0	20.7 S	174.3 W	.039	149.93	357.50	USCGS	
		5 45,2	LM	EG					
167	26	02 13 01.5	19.7 S	177.8 O	.083	148.94	3.94	USCGS	
		2 31 42	PKP	NE					
168	26	12 51 01.4	43.2 S	075.6 W	.001	116.51	233.54	USCGS	
		13 54,9	LM	EG					
169	28	02 48 13.1	16.4 N	120.4 E	-.002	92.90	59.71	USCGS	
		3 37,8	LM	EG					

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MAI - JUIN

170	28	03 08 07.4 4 16,2	03.3 S LM	146.0 E EG	-.002	122.68	47.41	USCGS
171	28	21 47 20.0 21 57,4	39.5 N LM	024.7 E EG	.000	18.20	120.53	BCIS
172	28	22 57 41.0 23 07,7	39.5 N LM	024.7 E NG	.000	18.20	120.53	BCIS
173	29	01 25 08.0 1 35,2	39.5 N LM	024.7 E NG	.000	18.20	120.53	BCIS
174	29	21 52 50.0 22 53,9	26.3 S LM	113.7 O EG	-.002	127.37	273.37	USCGS
175	30	10 02 53.0 10 16 37 10 19,7 10 21,8	29.9 N S L LM	042.7 O EG,NG EG,NG NG	.000	40.64	257.37	USCGS
176	31	06 28 26.1 6 51 52 6 52 38 7 13,8 7 25,7	22.0 N SKS S L M	142.7 E NG EG EG,NG EG	.035	98.80	38.62	USCGS
177	01	19 59 13.0 20 03 07 20 07,6	36.2 N PP L	004.2 O NE EE	.000	15.84	206.17	BCIS
178	02	12 26 11.0 12 47 08 13 00,5	49.9 N S LM	129.7 O EG,NG NG	.000	72.37	330.80	USCGS
179	02	17 15 13.8 18 00,0	29.9 N L	130.7 E NG	.003	86.79	44.47	USCGS

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JUIN

		18 10,2		M		NG				
180	03	15 02 26.4	22.3 N	045.1 O	.000	47.64 252.21	USCGS			
		15 11 02	P	EG						
		15 17 55	S	EG						
		15 21 15	SS	EG						
		15 22,6	L	EG						
181	03	23 43 43.8	49.1 N	028.4 W	.000	21.02 278.19	USCGS			
		23 48 31	P	EE						
		23 54,3	L	EG						
182	05	16 43 48.7	07.0 S	129.2 E	.019	116.91 66.08	USCGS			
		15 01 55	PKP	EE,NE						
183	06	17 50 06.8	39.0 N	123.3 O	-.004	79.56 321.14	USCGS			
		18 28,5	L	EG						
184	07	00 22 39.2	29.9 N	113.5 O	.000	82.81 309.30	USCGS			
		1 12,1	LM	EG						
185	07	19 55 14.0	45.0 N	005.5 E	.000	5.85 172.04	BCIS			
		19 57 12	PG	EG,NG						
		19 58 23	SG	EE,NE,EG						
		19 58 35	LQ	EG						
186	08	09 11 11.5	28.4 N	129.8 E	-.003	87.66 45.92	USCGS			
		9 58,3	L	NG						
187	09	05 59 53.0	41.9 N	000.4 E	.000	9.31 198.56	BCIS			
		6 04 58	E	EE						
188	09	10 41 47.0	39.9 N	025.1 E	.000	18.12 118.96	BCIS			
		10 51,7	L	NG						

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JUIN

189	09	14 17 35.5 20 50,0	18.6 N LM	091.2 W EG	.011	79.16 286.11	USCGS
190	11	04 35 00.6 4 54 06	19.6 S PKP	177.7 O NE	.053	148.84 3.75	USCGS
191	11	07 15 42.0 7 18 30 7 18 39 7 18 50 7 20 47 7 21 04 7 21 16 7 21 31 7 21 50 7 22 01	43.6 N P PP I/PPP/ S SS SSS LR MQ MR	018.3 E VE,EE,NE VG VG NG EG,NG NG NE,VG,EG NG VG	.000	11.89 121.87 12.1	BCI
192	12	09 46 30.3 9 56,1	65.0 N L	016.7 O EG	.000	17.98 330.32	USCGS
193	14	07 51 51.0 8 13 08	54.3 N S	169.1 E NG	.000	74.40 9.20	USCGS
194	14	07 55 51.8 8 17 05 8 17 31	54.3 N S /*SS/	169.2 E EG NG	.004	74.60 9.15	USCGS
195	14	20 18 06.2 20 30 27	01.9 S P	076.9 O NE	.020	85.87 262.03	USCGS
196	14	22 14 14.2 22 48 05 22 56,5 23 02,0	26.4 N E L LM	126.0 E EG EG EG	.000	87.55 49.84	USCGS
197	15	06 30 35.7 7 18,8	20.5 S L	070.6 O EG	.000	96.49 245.69	USCGS

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JUIN

198	16	05 21 15.0 6 05,4	26.2 N L	126.0 E EG	.000	87.72	49.95	USCGS
199	17	04 27 43.2 5 13,8	40.1 S L	046.0 E EG	.000	97.49	149.06	USCGS
200	19	23 42 37.1 1 33	04.9 S IPKP	152.0 E EE,NE,EG	.010	126.84	41.79	USCGS
201	21	04 43 43.3 4 56 45 5 06 39	05.7 N P S	082.6 W EG NG	-.002	83.63	271.26	USCGS
202	23	09 44 38.9 9 57 43 10 08 00 10 08 28 10 14 18	25.5 N P /SKS/ S SS	128.3 E EG EG EE,NE EG	.000	89.42	48.57	USCGS
203	23	09 58 27.0 10 11 46	19.2 N P	121.3 E NG	.002	91.10	57.42	USCGS
204	24	01 21 17.9 1 58,2	25.6 N LM	101.2 E EG	.000	74.70	68.35	USCGS
205	25	01 31 41.9 1 50 28	20.8 S PKP	179.2 O NG	.096	149.95	6.66	USCGS
206	25	06 26 49.3 7 22,7 7 28,7	37.4 S LM LM	073.3 O EG EG	.000	110.95	236.48	USCGS
207	25	11 10 26.0 11 23 18 11 26 37 11 33 41	24.2 N P PP SKS	122.5 E NE,NG NG EG	.000	87.63 85.6	53.70	USCGS

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JUIN - JUILLET

11 33 49	S	EG,NG
11 53,7	LM	NG
11 57,7	LR	EG
12 05,1	M	EG

208	26	02 51 21.7 3 47,0	27.9 N LM	129.2 E EG	.000	87.81	46.63	USCGS
209	27	03 30 01.9 4 40,1	06.1 S LM	148.8 E EG	.003	126.49	46.01	USCGS
210	28	06 51 05.0 6 54 49 6 58 34 6 59,1	40.8 N P PP L	020.9 E EG EG EG	.000	15.23	124.65	BCIS
211	28	18 50 27.5 19 48,3	00.2 S LM	124.3 E EG	.004	108.58	66.13	USCGS
212	28	20 47 30.3 21 06 50	17.8 S PKP	175.1 O NE	.030	147.10	359.05	USCGS
213	29	16 28 07.1 17 06,2	62.4 N LM	152.0 O NG	.003	65.68	348.17	USCGS
214	29	22 35 42.3 22 42 55 22 48 44 22 51,5 22 56,9	32.0 N P /S/ L LM	048.8 E EG NG EG EG,NG	.003	37.57	102.71	USCGS
215	30	19 29 57.9 19 53 43 20 16,1 20 17,9	16.3 N P LR LM	122.1 E EG EG,NG EG	.008	93.91	58.42	USCGS
216	01	21 23 41.7	40.0 N	074.5 E	-.002	48.60	74.17	USCGS

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JUILLET

		21 32 43	P	NG					
		21 42 44	E	EG					
		21 49,1	E	EG,NG					
		21 51,3	L	EG,NG					
217	03	18 13 35.6	56.3 S	142.5 O	-.002	159.63	241.37		USCGS
		18 34 11	PKP	VG					
		18 31,6	L	NG					
		18 39,9	LM	EG					
218	04	07 57 45.3	54.5 N	036.7 O	-.002	24.88	294.65		USCGS
		8 03 22	P	NG					
		8 10,0	L	EG					
219	04	9 59,7	L	EG					
220	05	17 40 55.3	30.9 N	141.4 E	-.002	90.15	35.82		USCGS
		18 04 28	SKS	EG					
		18 27,9	L	EG					
221	06	02 12 19.9	13.3 N	058.0 E	-.001	57.08	111.03		USCGS
		2 22 10	P	EG		57.7			
		2 24 28	PP	EG					
		2 25 46	PPP	EG					
		2 30 08	S	EG					
		2 30 22	PS	EG					
		2 42,3	L	EG					
		2 45,5	LM	EG					
222	06	09 16 15.0	38.0 N	020.2 E	-.001	17.02	132.64		USCGS
		9 20 20	P	VG		17.3			
		9 20 32	PP	NG					
		9 20 42	PPP	EG,NG					
		9 20 51	PPPP	NG					
		9 23 32	S	EG					
		9 23 53	SS	EG					
		9 24 03	SSS	EG					
		9 24,6	L	EG					
		9 25,9	LM	EG,NG					
		9 26,3	MQ	EG					
		9 27,0	MR	VG					

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JUILLET

223	06	15 54 20.5 16 03.8	37.2 N L	019.4 E NG	-0.002	17.32 135.95	USCGS
224	06	23 05 32.2 23 13 54 23 14 44 23 15 05 23 15 49 23 16 33 23 16 55 23 20 38 23 20 46 23 21 21 23 21 51 23 23 21 23 24 11 23 24.6 23 29.5	36.6 N IP I/*PP/ /*SP/ PP E E IS SP PS *SS /SCS/ /SS/ L M	070.4 E VG,EG VG,EG EG EG EG NG NG EW,EG NG EG NW,EG NG EG,NG NG	.027 .024	48.16 80.40 48.2	USCGS
225	07	06 12 48.9 6 24 44 6 34 36 6 43 14 6 50.6 6 58.8	51.3 N P S /SSS/ L M	178.6 E NG EG EG NG NG	.004	78.07 3.69 77.0	USCGS
226	07	12 46 58.7 12 51 14	36.8 N P	018.5 E EG,NG	-0.002	17.27 138.72	USCGS
227	08	03 22 03.8 3 44 12 4 06.7	51.5 N E L	178.5 E EG EG	.004	77.86 3.74	USCGS
228	10	10 06 02.9 10 10 35 10 14 11 10 14.4 10 16.9	38.4 N P S L LM	025.9 E EG EG EG NG	-0.002	19.61 120.88 19.6	USCGS
229	11	01 03 59.3	31.8 N	066.9 E	-0.002	49.06 87.77	USCGS

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JUILLET

		1	30,7		L	EG					
230	11	12	40 30,7	11.9	N	122.1	E	-.002	97.43	60.87	USCGS
		13	29,6	L		NG					
231	12	22	50 58.8	03.9	S	104.1	O	-.002	104.56	282.02	USCGS
		23	41,0	L		EG					
232	13	03	32 12.6	10.2	N	121.7	E	.019	98.59	62.17	USCGS
		3	56 08	SKS		EG					
		3	58 28	SP		EG					
		4	21,5	L		EG					
		4	26,7	LM		NG					
233	13	22	19 23.3	56.2	N	164.0	E	.004	71.95	11.78	USCGS
		22	59,8	L		EG					
		23	05,6	LM		NG					
234	14	19	43 52.6	40.3	N	124.4	O	-.002	78.71	322.60	USCGS
		20	17,6	L		EG					
235	15	04	36 12.0	45.0	N	005.5	E	.000	5.85	172.05	BCIS
		4	38 49	E		NE					
		4	39 21	E		EE					
236	15	06	47 22.5	39.8	N	140.9	E	.011	81.98	32.31	USCGS
		6	59 34	P		EE,EG					
		7	40,3	LM		EG					
237	15	15	12 44.1	40.2	N	142.4	E	.003	82.12	31.09	USCGS
		16	00,2	L		EG					
238	15	19	34 09.4	20.3	S	169.2	E	-.002	147.26	26.99	USCGS
		19	53 57	PKP		EG					

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JUILLET

239	16	02 04 52.6 3 19,5	52.1 S L	138.9 E EG	-.003	151.93 110.61	USCGS
240	16	04 49 21.5 5 40,5	11.2 S L	079.8 O EG	.007	94.88 258.43	USCGS
241	16	07 03 41.0 7 13,5	38.5 N L	022.0 E EG,NG	.000	17.50 127.84	BCIS
242	16	12 54 40.6 13 05 25 13 30,5	62.3 N P L	153.1 O NG NG	.001	65.75 348.69	USCGS
243	17	14 12 45.4 4 58,9	11.6 N L	087.1 O EG	-.002	81.96 278.49	USCGS
244	17	03 52 08.8 5 51 57	43.0 S PP	074.9 O EG,NG	-.001	116.01 233.28	USCGS
245	17	09 41 01.4 10 23,0	14.8 N L	032.9 O EG	.014	46.77 233.43	USCGS
246	17	17 20 22.9 17 42 37 17 51 56 17 57,8	43.1 N S L LM	144.5 E NG EG EG	-.001	80.15 28.41	USCGS
247	22	00 21 30.9 1 26,9	05.9 S L	151.7 E EG,NG	.008	127.55 42.63	USCGS
248	23	01 12 52.6 1 58,0	10.7 N L	086.5 O EG	.002	82.27 277.46	USCGS
249	28	12 17 16.0	37.0 N	020.0 E	.000	17.75 135.00	BCIS

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JUILLET

		12	27,5		L	EG					
250	28	13 58	41.2	14.8	N	093.0	0	.006	83.17	285.01	USCGS
		14	38,8		L		NG				
251	28	19 43	00.3	36.9	N	141.9	E	.001	84.93	32.87	USCGS
		20	27,6		L		EG				
252	28	20 46	26.0	44.6	N	148.6	E	-.001	79.95	25.05	USCGS
		21	26,5		L		EG				
253	30	17 16	44.4	03.3	S	143.9	E	-.002	121.68	49.59	USCGS
		17	35 53		E		EG,NG		120.8		
		17	37 13		PP		EG				
		17	42 37		E		EG				
		17	42 51		SKS2		EG				
		17	45 14		E		NG				
		17	47 04		PS		EG				
		17	48 55		/PPS/		EG				
		17	53 49		/SS/		EG				
		17	58 23		SSS		NG				
		18	07,1		L		EG,NG				
		18	17,2		M		EG				
254	30	20 18	49.3	05.0	S	076.3	0	.002	87.91	259.62	USCGS
		20	30 59		P		EG,NG	.013	80.6		
		20	31 30		*PP		EG				
		20	34 11		PP		EG				
		20	40 55		IS		NG				
		20	41 07		SKS		EG				
		20	41 20		/SCS/		EG				
		20	41 39		SP		NG				
		20	41 51		I		EG				
		20	46 10		SS		EG				
		20	49 14		/SSS/		NG				
		20	51,7		L		NG				
255	31	01 25	32.7	36.5	N	022.7	E	.012	19.41	130.37	USCGS
		1	30 18		PP		EG				
		1	36,4		L		NG				

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JUILLET - AOUT

256	31	02 19 05.2 3 19,7	03.2 S L	144.1 E EG	-.002	121.69	49.33	USCGS
257	31	05 13 04.1 5 26 15 5 36 39 5 43 08 5 53,1	18.8 N /P/ SKS E L	120.8 E NG EG EG EG	.001	91.06	58.00	USCGS
258	01	04 36 57.6 4 57 22 5 03 05 5 07 22 5 14 10 5 30 06 5 37 24 5 40 54	03.2 S PP SKS PS SS L LM M	143.7 E NG NG EG,NG EG EG,NG EG EG,NG	.000 .000	121.49 121.7	49.74	USCGS
259	01	15 47 45.5 16 23 00	39.1 N L	098.6 E EG	-.002	63.24	60.24	USCGS
260	02	04 41 46.7 5 16 08	19.3 N L	081.0 O EG	.002	72.32	279.03	USCGS
261	03	08 56 12.1 9 09 38 9 10 14 9 13 34 9 20 05 9 20 49 9 22 13 9 23 16 9 27 35 9 33 09 9 46 26	23.2 S P *SP PP ISK S SP /PPS/ /SS/ LQ LR	067.5 O VG EG VG VG NG EG EG EG EG VG	.010 .010	96.94 97.0	241.71	USCGS
262	03	11 04 03.6 11 12 38 11 14 35 11 19 31 11 23 09 11 29 22	40.9 N P /PP/ S /SS/ LR	073.3 E VG VG EG,NG EG NG	-.002 .000	47.33 47.2	73.94	USCGS

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AOUT

263	03	22 46 23 51	45.0 09	16.0 N L	092.5 E NG	.000	76.54	81.14	BCIS
264	04	02 49 3 28	44.7 22	14.1 N L	093.0 O NG	-.001	83.71	284.56	USCGS
265	05	09 08 9 20 9 24 9 29	45.8 23 29 43	74.2 N S LR MR	052.5 E NG VG EG	.000	30.73	23.48	USCGS
266	06	01 35 1 42 1 44 1 48 1 51 1 53	30.5 49 22 42 34 22	32.0 N P PP S /SS/ LR	040.8 O VG,EG EG VG,EG EG EG	.002 .002	37.98 38.5	257.96	USCGS
267	06	04 24 4 25 4 26 4 27	20.5 58 33 02	46.3 N PG SN SG	007.5 E VEN,G EG NG	.000	4.96 4.9	153.98	BCIS
268	06	20 51 21 11 22 07 22 18	56.8 48 47 26	26.9 S PKP LQ MR	177.1 O VG EG NG	.003	156.10	3.22	USCGS
269	10	21 03 21 08 21 09 21 12 21 13 21 22	59.2 37 08 32 50 16	49.4 N P PP S LR M	027.9 O EG VG EG EG VG	.000 .000	20.62 21.0	278.73	USCGS
270	11	08 15 8 28 8 38	43.7 15 42	25.2 N P S	123.3 E EG VG,EG	.017 .017	87.09 87.1	52.50	USCGS

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ROUT

8 40	41	/PPS/	VG
8 44	31	SS	NG
8 51	26	LQ	EG
9 00	27	LR	NG
9 10	06	M	VG

271	13	06 35	56.0	02.1 N	083.5 O	.000	86.97	269.67	USCGS
		6 48	44	P	VG,EG	.000	87.0		
		6 52	07	PP	EG				
		6 59	14	S	EG				
		7 11	27	LQ	NG				
		7 16	34	LR	EG				
272	13	20 11	36.1	51.8 N	110.2 E	.000	60.03	43.51	USCGS
		20 40	52	LR	VG				
		20 48	08	M	NG				
273	14	01 10	50.5	49.9 S	163.0 E	.002	166.24	94.53	USCGS
		2 30	22	LR	EG				
		2 31	50	LR	NG				
		2 37	32	LR	EG				
		2 58	44	M	EG				
274	17	05 04	31.5	10.6 N	121.6 E	.000	98.21	62.02	USCGS
		5 28	58	SKS	EG				
		5 53	32	LR	EG				
		5 57	21	M	VG				
275	18	16 43	54.3	62.3 N	152.5 O	.000	65.67	348.40	USCGS
		17 03	26	E	EG				
		17 11	08	SSS	EG				
		17 14	01	LR	EG				
		17 22	10	M	NG				
276	18	17 46	14.9	62.3 N	152.5 O	.000	65.67	348.40	USCGS
		18 24	07	M	NG				
277	18	20 24	00.0	44.2 N	001.7 E	.000	6.84	196.25	BCIS
		20 29	27	L	NG				

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AOUT

278	19	18 26	38.6	44.6 N	081.7 E	.000	50.12	65.10	USCGS
		18 35	31	P	VG	.000	50.0		
		18 35	42	*PP	VG,NG				
		18 37	26	PP	VG,NG				
		18 42	41	S	NG				
		18 51	15	LR	NG				
		18 54	14	M	NG				
279	20	23 12	50.4	26.6 S	069.8 O	.003	100.90	241.27	USCGS
		4 40		LM	EG				
280	20	09 02	14.0	74.5 N	052.0 E	.000	30.72	22.84	BCIS
		9 16	54	LR	EG				
		9 22	58	M	EG,NG				
281	21	18 09	01.0	41.2 N	015.1 E	.000	12.14	138.11	BCIS
		18 14	26	SS	EG				
		18 14	48	/SSS/	EG				
		18 15	46	LM	VG				
		18 22	42	M	VG				
282	21	21 09	50.3	29.6 S	111.9 O	.000	128.57	268.97	USCGS
		21 26	37	E	VG				
		21 31	15	PP	NG				
		21 48	17	/SS/	EG				
		22 16	49	LR	EG				
		22 17	59	LR	NG				
283	25	08 31	48.7	20.5 S	178.5 O	.083	149.66	5.31	USCGS
		8 50	36	PKP1	VG,NG	.083			
		8 52	51	*PPKP2	VG				
284	25	19 58	47.9	36.7 N	001.6 E	.000	14.23	189.04	USCGS
		20 06	42	M	VG				
285	26	06 48	57.1	34.0 N	139.2 E	.001	86.55	36.13	USCGS
		7 10	56	E	NG				
		7 31	33	L	EG				
		7 36	21	M	NG				

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AOUT

286	26	16 30 16 38	47.0 12	36.5 N LM	001.6 E EG	-.003	14.43	188.94	USCGS
287	27	09 00 9 21	50.9 25	74.7 N LR	050.3 E NG	.000	30.39	22.11	USCGS
288	27	16 20 17 01 17 06	04.7 46 05	38.3 N LR M	142.4 E EG NG	.001	83.83	31.90	USCGS
289	28	10 59 11 04 11 04 11 07 11 09	55.0 07 31 24 08	37.7 N IP IPP IS IL	023.0 E VG VG NG VG	.014 .014	18.62 18.5	127.52	BCIS
290	29	17 39 18 26	06.0 39	34.3 N LM	139.5 E EG	.000	86.40	35.77	USCGS
291	29	20 20 21 02 21 07 21 11	20.5 22 40 52	34.0 N LR LM M	139.3 E EG NG VG	.000	86.59	36.05	USCGS
292	29	22 36 23 00 23 16 23 19 23 21 23 24	53.9 04 11 32 01 50	34.1 N /S/ LQ LR LM M	139.1 E NG VG EG NG VG,NG	.000	86.43	36.16	USCGS
293	30	06 27 6 30 6 31	07.4 23 55	44.1 N E LR	012.5 E EG EG	.000	8.67	137.48	USCGS
294	30	13 35 13 52 14 04	28.7 03 59	41.8 N E L	111.8 O EG EG,NG	.001	72.21	315.25	USCGS

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AOUT - SEPTEMBRE

		14	09	05	LR	NG				
295	30	17	17	51.9	21.2 S	174.4 0	.000	150.43	357.66	USCGS
		17	37	38	PKP	VG,NG				
		18	00	36	/SS/	EG				
		18	37	44	L	EG				
		18	40	23	LM	NG				
296	31	10	33	30.2	15.4 S	177.3 0	.004	144.64	2.76	USCGS
		10	53	08	PKP	VG				
		11	50	40	LR	VG				
		11	52	42	LM	EG				
297	31	17	02	43.4	51.3 N	179.7 0	-.002	78.13	2.60	USCGS
		17	14	41	IP	VG	.000	78.5		
		17	24	37	S	EG				
		17	33	14	SSS	EG				
		17	45	32	LM	VG				
		17	50	31	M	EG				
		17	53	47	M	VG				
298	01	03	46	05.0	51.3 N	179.7 0	-.002	78.13	2.60	USCGS
		3	58	04	P	VG	.000	78.5		
		4	07	59	S	NG				
		4	18	38	L	EG				
		4	27	03	LM	NG				
		4	33	46	M	EG				
299	01	04	41	41.5	51.3 N	179.9 0	.001	78.12	2.73	USCGS
		4	53	38	P	VG				
300	01	04	52	14.5	15.9 S	168.2 E	.030	142.80	26.28	USCGS
		5	11	15	PKP	VG,EG				
301	01	07	51	08.2	51.3 N	179.9 0	.001	78.12	2.73	USCGS
		8	38	34	M	EG				
302	01	15	01	04.6	25.8 N	065.3 E	.002	52.18	94.63	USCGS

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SEPTEMBRE

15	10	12	P	VG,EG	.002	52.0
15	10	20	*PP	VG,EG		
15	17	46	PS	NG		
15	24	09	L	NG		
15	35	27	M	NG		

303	01	19 20	39.9	35.6 N	049.9 E	-.001	35.85	97.20	BCIS
		19 27	48	P	VG,EG,NG	.000	36.3		
		19 33	30	S	NG				
		19 36	34	L	EG,NG				
		19 43	08	M	EG				
304	02	04 32	12.0	27.7 N	128.0 E	-.004	87.29	47.60	USCGS
		5 20	55	M	VG				
305	02	05 33	05.4	27.5 N	127.0 E	-.002	86.98	48.46	USCGS
		6 14	41	LR	EG				
		6 20	40	M	EG				
306	02	15 21	55.0	10.2 S	120.0 E	.000	113.90	76.21	USCGS
		16 16	02	LR	EG				
		16 22	41	LM	EG				
		16 27	24	M	NG				
307	02	19 52	06.7	71.2 N	012.7 O	.000	21.89	345.25	USCGS
		20 03	17	LR	EG				
		20 04	14	M	NG				
308	04	13 30	10.9	35.6 N	049.7 E	-.002	35.72	97.37	BCIS
		13 44	37	LQ	EG				
		13 50	34	M	NG				
309	04	15 11	44.1	36.5 N	009.0 O	.000	17.21	218.95	USCGS
		15 22	44	M	EG				
310	04	22 59	17.0	40.0 N	044.0 E	.000	29.48	95.93	BCIS
		23 05	22	P	VG,NG		30.0		
		23 10	20	S	EG				

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SEPTEMBRE

		23 12 43		LR		NG				
		23 16 14		MR		NG				
311	08	10 18 00.5		75.8 N		053.7 E	.000	31.64	20.86	BCIS
		10 37 14		M		EG				
312	10	09 36 28.0		35.6 N		027.5 E	.000	22.55	123.46	BCIS
		9 41 26		P		EG		22.6		
		9 45 33		S		EG				
		9 48 53		L		VG				
		9 51 35		M		NG				
313	10	15 43 59.4		21.1 S		179.2 O	.095	150.21	6.70	USCGS
		16 02 35		PKP1		VG	.095	150.0		
		16 02 53		PKP2		VG				
		16 09 40		PPP		NG				
314	12	20 57 00.4		36.5 N		069.2 E	.003	47.47	81.33	USCGS
		21 05 33		IP		NG	.003	47.0		
		21 12 24		IS		EG				
		21 15 48		SS		NG				
		21 19 34		LR		NG				
		21 20 43		LR		EG				
315	14	00 33 25.8		39.6 N		028.6 E	.006	20.30	114.08	USCGS
		43 49		M		NG				
316	15	08 02 13.9		74.4 N		051.5 E	.000	30.56	22.91	USCGS
		8 20 42		LQ		NG				
		8 22 50		LR		NG				
		8 24 38		MR		VG				
317	15	22 50 46.3		48.5 N		156.8 E	.000	78.20	18.29	USCGS
		23 02 46		P		VG,EG	.000	78.2		
		23 02 54		*PP		VG				
		23 05 41		PP		VG				
		23 12 40		IS		EG				
		23 23 24		LQ		NG				
		23 28 29		LR		VG				
		23 36 54		M		EG				

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SEPTEMBRE

318	16	10 59	11.0	74.5 N	052.0 E	.000	30.72	22.84	BCIS
		11 20	00	LR	EG				
		11 21	32	MR	NG				
319	17	17 55	45.4	21.0 S	179.1 O	.089	150.12	6.49	USCGS
		18 14	29	PKP	VG,NG	.089			
		18 16	54	*PPKP2	VG				
320	17	19 44	47.8	41.3 N	020.8 E	.000	14.80	123.55	USCGS
		19 53	03	LR	EG				
321	18	00 29	05.2	07.5 N	082.3 O	.000	82.07	272.18	USCGS
		41 27		P	VG	.000	82.0		
		51 40		S	NG				
		1 07	26	LR	EG				
		1 12	39	LM	VG				
		1 18	16	M	VG				
322	18	08 29	10.0	74.5 N	052.0 E	.000	30.72	22.84	BCIS
		8 51	14	M	EG				
323	19	11 00	56.4	73.8 N	053.8 E	.000	30.91	24.47	USCGS
		11 19	08	L	VG				
		11 21	33	L	NG				
		11 23	28	M	VG				
324	21	08 01	13.0	74.5 N	052.0 E	.000	30.72	22.84	BCIS
		8 22	05	LR	EG				
		8 23	41	M	VG				
325	22	06 51	32.3	26.5 N	097.0 E	.000	71.44	70.67	USCGS
		7 02	54	P	VG	.000	71.0		
		7 12	07	S	EG				
		7 12	51	SKS	EG				
		7 30	57	LR	NG				
		7 37	31	MR	NG				

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SEPTEMBRE

326	23	12 02 12 30	34.7 37	14.7 N LM	045.1 O EG	.000	53.53	246.06	USCGS
327	24	03 26 3 53	38.8 21	44.3 N LM	080.6 E EG	.000	49.66	66.03	USCGS
328	24	05 28 6 31	26.5 57	09.2 N M	126.6 E NG	.000	102.12	58.66	USCGS
329	24	14 38 15 12 15 17 15 21 15 28	21.7 31 15 04 03	42.8 N LQ LR LM M	145.3 E EG EG NG VG	.000	80.67	27.99	USCGS
330	25	00 21 1 24	14.6 43	55.6 S L	124.3 O EG	.005	149.42	240.69	USCGS
331	25	13 02 13 17 13 23 13 25	31.7 45 31 10	73.7 N E LM M	055.0 E NG EG VG	.000	31.20	24.87	USCGS
332	27	08 03 8 18	16.4 46	74.3 N M	052.4 E EG	.000	30.74	23.28	USCGS
333	28	18 56 19 08 19 17 19 32	08.7 07 59 52	05.2 N IP S LQ	076.2 O EG EG EG	.015 .015	79.97 80.0	265.97	USCGS
334	19	15 17 15 40 15 46 15 50	47.7 07 05 27	27.0 S S LR M	063.6 O EG EG,NG EG	.085	97.86	236.56	USCGS
335	30	21 57	24.8	18.6 N	120.9 E	.003	91.28	58.04	USCGS

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OCTOBRE

22 46 08

M

EG

336	01	12 13	50.0	27.0 N	054.7 E	.000	44.69	102.62	BCIS
		12 22	07	P	VG				
		12 32	19	/SS/	NG				
		12 36	16	LR	EG				
		12 38	48	M	NG				
337	01	20 42	36.5	19.6 S	174.5 O	.017	148.84	357.92	USCGS
		21 02	10	PKP	VG				
338	03	01 19	22.5	40.7 N	029.7 O	.000	25.58	260.05	USCGS
		1 24	52	P	EG				
		1 28	45	LR	VG				
		1 32	19	MR	EG				
339	04	04 42	05.8	40.4 N	029.5 O	.000	25.62	259.28	USCGS
		4 54	12	LM	NG				
340	04	13 23	34.4	40.9 N	029.7 O	.000	25.46	260.44	USCGS
		13 35	37	LR	EG				
341	04	19 46	10.0	38.1 N	022.6 E	.001	18.11	127.49	USCGS
		50 50	22	P	EG		18.2		
		50 53	38	S	EG				
		50 55	48	LR	VG				
		50 56	41	LM	EG				
342	04	23 10	11.0	40.5 N	029.5 W	.000	25.57	259.47	BCIS
		23 22	14	L	NG				
343	05	04 14	39.1	40.2 N	029.5 O	.000	25.74	258.91	USCGS
		4 26	43	LR	NG				
344	05	08 39	32.2	40.7 N	029.8 W	.000	25.64	260.15	USCGS
		8 51	35	LM	NG				

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		8	52	38	LM	VG				
345	06	03	17	00.0	40.7 N	029.5 O	.000	25.45	259.85	BCIS
		3	22	36	P	EG				
		3	27	05	/S/	EG				
		3	29	28	LR	EG				
346	06	03	54	52.0	40.7 N	029.5 O	.000	25.45	259.85	BCIS
		4	05	05	S	EG,NG				
		4	07	26	L	VG				
347	06	04	23	24.1	17.4 S	167.7 E	.000	144.08	27.81	USCGS
		4	42	55	PKP	VG				
348	06	05	38	40.3	26.2 N	126.9 E	.014	88.03	49.23	USCGS
		5	59	49	L	NG				
349	06	08	03	31.7	17.2 S	168.0 E	.000	143.98	27.24	USCGS
		9	07	55	L	NG				
		9	22	59	L	NG				
		9	24	56	L	EG				
350	06	11	59	42.3	17.4 S	167.8 E	-.003	144.11	27.65	USCGS
		12	19	26	PKP	EG				
351	07	23	31	27.7	17.5 S	167.6 E	.001	144.14	28.01	USCGS
			7	55	E	EG				
			36	28	LQ	NG				
			41	43	LR	EG				
			54	35	M	NG				
352	07	06	45	13.8	40.5 N	029.2 O	.000	25.38	259.17	USCGS
		6	57	22	L	NG				
353	07	09	49	25.9	40.2 N	029.2 O	.000	25.55	258.60	USCGS
		10	01	31	L	NG				

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OCTOBRE

354	08	05 14 5 24	20.4 32	40.5 N L	029.5 O NG	.000	25.57	259.47	USCGS
355	08	14 26 14 35	37.0 43	42.4 N LR	024.6 E NG	.000	16.19	113.40	BCIS
356	08	17 53 18 59	28.6 35	18.7 S LR	176.8 O EG	.033	147.94	2.07	USCGS
357	08	21 56 22 09 22 12 22 19 22 42 22 52	22.2 06 31 31 45 39	24.3 N P PP SKS LR M	121.7 E VG VG EG NG VG	-.001 .000	87.02 87.0	54.21	USCGS
358	09	20 14 20 35 20 38 21 13 21 18 21 27	38.3 22 08 14 15 39	03.2 S PP /PPP/ LR L M	148.2 E NG EG EG VG VG,NG	.000	123.60	45.02	USCGS
359	10	21 52 22 12 22 12 23 05 23 08	36.8 12 20 58 40	15.1 S PKP *PPKP LQ LR	173.3 O VG,NG VG,EG EG NG	.000	144.32	356.12	USCGS
360	13	10 23 10 30 10 36 10 38 10 42 10 44 10 46	37.0 35 18 48 29 50 48	35.8 N P S /SSS/ LR LM M	050.3 E VG VG,NG EG EG VG VG	.000 .000	35.97 36.0	96.58	BCIS
361	14	15 08	59.5	31.8 N	131.5 E	.000	85.37	42.87	USCGS

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OCTOBRE

		15 53	25	LR	EG				
		15 55	34	LM	NG				
		16 02	48	M	NG				
362	16	18 02	32.9	51.6 N	175.8 O	-.001	77.89	.10	USCGS
		18 25	09	PS	NG				
		18 32	52	SSS	EG				
		18 51	29	M	EG				
363	19	15 58	00.0	45.0 N	007.1 E	.000	6.08	161.37	BCIS
		16 01	20	SN	VG				
364	21	02 05	22.7	61.1 N	149.7 O	.007	66.44	346.62	USCGS
		2 16	39	PP	VG				
365	22	04 34	38.9	03.4 S	145.3 E	.000	122.44	48.20	USCGS
		5 34	04	LR	EG				
		5 41	04	LM	NG				
		5 49	04	M	NG				
366	25	15 52	29.2	08.4 N	082.6 O	.003	81.57	272.99	USCGS
		16 33	02	LR	EG				
367	25	20 06	10.0	61.4 S	154.9 E	.000	160.59	134.53	USCGS
		21 27	11	LR	NG				
		21 34	16	LM	EG				
		21 36	33	M	NG				
368	26	11 26	12.4	33.7 N	027.9 E	.000	24.22	125.84	USCGS
		11 31	30	/P/	EG,NG	.000	24.0		
		11 31	35	*PP	VG				
		11 31	58	PP	NG				
		11 35	51	*SS	EG				
		11 39	58	M	NG				
369	31	11 32	29.0	05.6 N	082.6 O	.000	83.71	271.20	USCGS
		12 13	02	LR	NG				

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NOVEMBRE

370	02	15 00 15 47	25.4 14	36.7 N L	141.1 E NG	.007	84.83	33.53	USCGS
371	04	22 53 23 37 23 45 23 58 1 19	34.2 30 18 38 19	43.2 S E LQ LM M	075.6 O EG NG EG VG	.000	116.51	233.54	USCGS
372	06	00 09 18	47.2 05	28.0 N P	055.6 E VG	.000	44.53	100.81	USCGS
373	07	12 57 13 03 13 08 13 10	45.7 44 05 37	40.5 N /PP/ /*SS/ LR	029.4 O EG VG NG	.000	25.50	259.37	USCGS
374	09	01 11 1 18 1 33	02.1 01 25	33.4 N P L	047.2 E EG,NG NG	.000	35.60	102.54	USCGS
375	10	01 33 1 45 1 45 2 09 2 19	19.0 25 40 17 57	43.8 N P PCP LR M	147.2 E VG,EG,NG NG EG NG	.004	80.30	26.30	USCGS
376	11	11 31 11 58 12 02 12 09	44.5 12 15 07	55.8 N LR LM M	113.1 E NG EG VG	.000	58.40	38.81	USCGS
377	11	15 15 15 30 15 37 15 43 15 49	33.6 12 50 43 52	17.2 N S LR LM M	040.7 E NG VG NG VG	.000	44.28	125.84	USCGS
378	11	16 09	57.6	12.9 S	166.5 E	.007	139.46	27.39	USCGS

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NOVEMBRE

		16	32	11	E	VG				
		17	19	23	LR	NG				
		17	35	48	M	EG				
379	11	22	14	18.7	43.2 S	076.0 O	.000	116.72	233.77	USCGS
		23	04	50	LQ	NG				
		23	15	36	LR	VG				
		23	21	10	M	VG				
380	12	12	49	10.8	26.0 N	128.4 E	.001	88.91	48.19	USCGS
		13	38	47	L	NG				
		13	45	56	M	VG				
381	14	07	48	05.5	35.7 N	140.8 E	.004	85.62	34.19	USCGS
		8	30	38	LR	EG				
382	15	16	25	09.4	06.9 S	146.7 E	.001	126.16	48.73	USCGS
		16	48	30	LQ	NG				
		16	51	37	LR	NG				
		16	58	53	M	VG				
383	15	23	25	15.7	08.7 S	079.8 O	.002	92.96	260.00	USCGS
		24	05	51	LQ	NG				
		24	12	37	LR	EG				
384	16	07	18	37.3	32.3 S	111.1 O	.002	129.89	265.80	USCGS
		7	41	10	/PKS/	EG				
		7	57	21	SS	NG				
		8	12	25	LQ	NG				
385	16	21	10	01.8	13.5 N	093.2 E	.000	78.87	82.26	USCGS
		21	22	06	IP	VG,EG	.000	79.0		
		21	25	06	PP	VG,EG				
		21	31	57	S	EG				
		21	46	35	LQ	EG				
		21	50	44	LR	NG				
		22	01	16	M	VG				
386	19	10	14	29.4	50.0 S	114.3 O	.000	141.84	246.53	USCGS

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NOVEMBRE

11 25 59 L NG

387	22	00 30 54 07 1 08	04.5 07 12	15.1 S L M	017.3 O EG NG	.000	68.37	202.53	USCGS
388	24	16 19 16 37 16 38 16 41 16 45	44.9 03 57 29 42	09.8 N S LR LM M	040.7 O EG EG NG EG	.000	55.06	238.27	USCGS
389	25	15 55 16 33 16 45 16 53	41.0 35 00 58	25.5 N LQ LM M	129.5 E EG EG VG	.000	89.86	47.61	USCGS
390	26	05 29 5 40 5 49 5 56	30.2 35 32 15	39.8 N PP LQ LR	077.2 E EG EG VG	-.003	50.36	72.70	USCGS
391	27	12 07 12 55 13 04	12.7 43 16	14.9 N LR M	119.9 E EG EG	.000	93.75	60.93	USCGS
392	27	16 50 17 43	27.7 40	12.2 N LR	143.8 E EG	.000	107.92	41.91	USCGS
393	28	02 35 3 29	48.8 42	12.1 N LR	143.7 E EG	.000	107.97	42.05	USCGS
394	29	19 06 20 04 20 21	37.6 58 21	17.3 S LQ LM	168.5 E NG EG	.000	144.22	26.51	USCGS
395	30	21 51	22.9	17.4 N	099.6 O	.003	85.12	291.61	USCGS

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DECEMBRE

		22 04 02		*PP	VG	.003	85.0		
		22 07 12		PP	EG				
		22 14 08		/SKS/	EG				
		22 31 06		LR	EG				
		22 38 49		M	EG				
396	01	01 50 20.4 2 27 20		52.4 N LR	170.1 0 EG	.001	76.98	356.52	USCGS
397	04	10 34 27.8 11 48 13		06.1 S L	149.9 E EG	.000	126.94	44.76	USCGS
398	04	16 40 06.0 18 03 02		16.5 S L	172.8 E EG	.000	144.52	19.33	USCGS
399	07	09 36 01.5 10 11 01		38.0 N LQ	106.3 E EG	.000	68.19	56.27	USCGS
400	07	14 03 37.0 14 15 47 14 19 41 14 25 47 14 32 30 14 53 01		29.2 N P /*PPP/ S SS M	139.2 E VG,NG NG NG EG NG	.059	90.83	38.28	USCGS
401	08	18 18 29.1 18 38 03 18 38 14		15.2 S PKP *PPKP	173.7 0 NG EG	.000 .000	144.44	356.78	USCGS
402	08	21 27 22.2 21 39 50 21 43 50 21 49 28 21 50 23 21 53 12 21 57 14		25.8 S P /PP/ SKS S PS SS	063.4 0 VG VG NG NG NG VG	.092 .092	96.79 97.0	237.13	USCGS
403	08	22 55 01.2		50.5 N	176.8 0	.000	78.98	.75	USCGS

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DECEMBRE

23 07 07

IP

VG,NG

404	12	10 08 11 01	48.5 15	04.8 S L	153.8 E EG	.010	127.44	39.66	USCGS
405	17	17 25 18 01	40.8 58	38.0 N L	106.1 E EG	.000	68.08	56.40	USCGS
406	22	00 52 1 12 2 09 2 20	23.4 15 00 00	22.0 S IPKP LR M	170.1 E NG NG NG	.000	149.13	26.45	USCGS
407	22	15 20 15 32 15 42 15 47 15 56 16 03 16 09	31.0 23 15 10 34 28 56	52.5 N IP /S/ /SS/ LR M M	168.8 O VG,NG EG EG NG VG NG	.002	76.82	355.72	USCGS
408	24	12 09 11 28 11 32	45.6 27 20	36.2 S LR M	100.2 O EG VG	.000	125.66	254.55	USCGS
409	25	12 09 13 57	45.6 10	36.2 S LM	100.2 O EG	.000	125.66	254.55	USCGS
410	26	08 58 9 01 9 02 9 04 9 05 9 05 9 07	12.0 50 18 44 10 30 16	39.3 N P /PPP/ S SSS LR M	010.9 O VG,NG VG EG EG NG VG	.001 .001	15.71 15.6	228.85	BCIS
411	26	22 25 22 36	15.5 55	53.9 N IP	168.7 E VG,NG	.000 .000	74.76 75.0	9.51	USCGS

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DECEMBRE

		22	39	43	PP	VG				
		22	46	28	S	EG				
		22	46	53	SKS	VG				
		22	47	30	PPS	VG				
		23	03	59	LR	VG				
		23	13	01	M	EG				
		23	18	34	M	VG				
412	26	23	25	16.7	23.9 N	065.4 E	.000	53.60	96.20	USCGS
		23	34	44	E	VG,NG				
413	27	18	18	42.0	39.9 N	142.0 E	.000	82.26	31.50	USCGS
		19	02	05	L	NG				
		19	08	14	L	NG				
414	29	10	41	04.1	20.0 S	069.9 O	.002	95.78	245.45	USCGS
		10	54	26	P	EG	.002	96.0		
		10	58	16	PP	EG				
		11	05	00	SKS	VG				
		11	06	53	/PS/	EG				
		11	24	43	LR	NG				
		11	31	59	MR	EG				