

**OBSERVATOIRE ROYAL DE BELGIQUE
KONINKLIJKE STERRENWACHT VAN BELGIE**

BULLETIN D' OBSERVATIONS : SEISMOLOGIE

WAARNEMINGSBERICHTEN : SEISMOLOGIE

BULLETIN SEISMIQUE

Station : Warmifontaine

ANNEE 1964 - 1965

Section - Géodynamique

Sectie - Geodynamica

Mars 1971

OBSERVATOIRE ROYAL DE BELGIQUE

BULLETIN SEISMIQUE

Année 1964 - 1965

INTRODUCTION

Coordonnées géographiques de la Station

Latitude : 49° 50' N Longitude 5° 22' 50" E.
 Altitude : 272 m. Salle située à 148 m. sous le niveau du sol.
 Sous-sol : phyllades ou schistes cristallins (dévonien inférieur)

Appareils : Un séismomètre vertical Sprengnether séries D.H. Deux séismomètres horizontaux Sprengnether séries H, orientés suivant les directions E.W. et N.S. Ces séismomètres sont reliés à un enregistreur triple de fabrication belge.

Les appareils ont été mis en service à partir du 1^{er} septembre.

Constantes approximatives des séismographes

Composante	T_s	T_g	μ	A	V_s
Vertical	1 ^s 6	1 ^s 6	± 0	1000 mm	3000
E - W.	16 ^s	16 ^s	± 0	1000 mm	3000
N - S.	16 ^s	16 ^s	± 0	1000 mm	3000

Etat de la salle.

La température de 11° peut être considérée comme constante. Le degré d'humidité est maintenu à 75 % au moyen d'un déshumidificateur.

Analyse des séismogrammes et bulletins. - 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 Tablette IBM 447.

J.M. VAN GILS.

STATION
ANNEE

MOIS

N°	J O U R	HEURE ORIGINE	ϕ	λ	h	Δ_c	α_c	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.
136	2	01 20 2 17 35,0	LM 52,5 N	ES 168,0 W		76,8	355,2	6,9	U.S.C.G.S.
		2 29 34 2 39 30 3 12,5	P S M	VS NS ES	0	76,5			

(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.
- VS : séismographe vertical Sprengnether
- ES : séismographe horizontal Sprengnether (composante E.W.)
- NS : séismographe horizontal Sprengnether (composante N.S.)
- (...) : douteux.
- AG, MI agitation microsismique.
- AG, ATM " atmosphérique
- MBT : mauvaise base de temps
- COM : compression
- DIL : dilatation.
- $h = 0$ \equiv foyer superficiel
- $h = 0,00$ \equiv profondeur 33 km.

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SEPTEMBRE

1	03	16 58 17 18 17 18	55.4 29 39	15.2 S PKP *PPKP	173.5 O	.000	145.47	358.09	USCGS
2	04	03 28 3 38 3 38	33.1 02 08	07.6 N P E	036.9 O	.000	54.85	234.61	USCGS
3	04	10 34 10 53	13.1 44	04.0 S PKP	131.4 E	.000	115.59	63.51	USCGS
4	05	02 53 3 12 3 13 3 14	50.6 50 18 58	05.8 S PKP E PP	154.0 E	.006	128.78	41.66	USCGS
5	05	12 27 12 36	22.2 56	00.6 N P	025.9 O	.000	55.80	218.86	USCGS
6	07	11 27 11 36	15.0 29	15.7 N P	053.3 E	.000	51.44	113.96	USCGS
7	12	12 43 13 03	19.0 41	04.4 S PP	144.0 E	.014	122.83	51.69	USCGS
8	12	22 07 22 27 22 28 22 31	03.2 04 13 57	49.1 S PKP E E	164.2 E	.000	166.08	95.06	USCGS C
9	15	12 44 13 03	12.2 52	16.0 S PKP	172.9 O	.000	146.25	357.02	USCGS
10	15	15 29 15 41 15 42	32.2 50 11	08.9 N P E	093.1 E	.001	81.76 82.5	85.97	USCGS C

		15 45	02		PP						
		15 45	24		E						
11	16	01 26	26.9	10.9 N		093.1 E	.002	80.26	84.65		USCGS
		1 38	35	P							
12	16	01 55	33.9	60.0 N		147.1 O	.000	68.35	345.53		USCGS
		2 01	35	P							
13	16	22 23	36.3	22.9 N		045.1 O	.000	47.54	254.55		USCGS
		22 32	09	P							
14	17	15 01	48.0	45.0 N		032.0 O	.000	25.57	273.55		BCIS
		15 07	27	P							
15	18	00 08	50.0	36.0 N		027.7 E	.000	21.30	122.03		BCIS
		13	59	PP							
16	18	13 12	30.0	39.0 N		031.0 O	.000	27.89	261.12		BCIS
		13 18	22	P							
17	19	05 08	15.1	15.3 N		094.0 O	.001	84.36	286.92		USCGS
		5 20	46	P							
18	23	04 59	47.4	53.6 N		163.9 O	.000	76.64	353.45		USCGS
		5 11	37	P							C
19	25	15 42	17.9	50.3 N		176.6 E	.000	80.06	5.71		USCGS
		15 54	29	P							C
20	26	00 46	02.8	30.1 N		080.7 E	.003	58.50	79.47		USCGS
		55 58		IP							D
		58 02		/PP/							

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SEPTEMBRE - OCTOBRE

21	26	03 38 3 58 3 58	32.7 19 33	17.7 S PKP E	173.3 O	.000	147.95	357.63	USCGS
22	29	14 00 14 20 14 20 14 23	14.9 06 18 48	20.4 S IPKP E PP	174.4 O	.000	150.65	359.58	USCGS C
23	30	04 39 4 44	48.0 19	34.7 N P	023.2 E	.003	19.98	132.47	USCGS C
24	02	00 58 1 10	39.2 04	51.9 N P	142.9 E VS	.000	72.48	26.04	USCGS
25	02	13 00 13 19 13 22	39.7 50 36	10.5 S PKP PP	162.4 E VS VS	.006	136.40	33.84	USCGS
26	02	22 23 22 34	32.4 31	59.7 N P	144.5 O VS	.000	68.19	344.08	USCGS
27	03	13 39 13 50	39.9 29	61.4 N P	147.1 O VS	.002	67.02	346.02	USCGS
28	03	17 02 17 21	48.0 22	18.1 S PKP	178.8 W VS	.000	148.14	7.54	USCGS
29	03	22 41 23 00	09.0 35	20.2 S PKP	176.3 W VS	.028	150.39	3.19	USCGS
30	05	08 30 8 49	15.7 58	16.7 S PKP2	173.7 O VS	.000	146.96	358.38	USCGS

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OCTOBRE

31	06	14 29	57.0	40.0 N	028.0 E	.000	18.73	113.06	BCIS
		14 34	18	P	VS				
		14 34	35	PP	VS				
32	06	14 31	20.0	40.0 N	028.0 E	.000	18.73	113.06	BCIS
		14 35	38	P	VS		18,6		
		14 35	54	PP	VS				
		14 36	01	PPP	VS				
		14 39	03	S	VS				
		14 39	25	SS	VS				
		14 40	07	LR	VS				
33	06	18 24	57.0	70.8 N	006.8 W	.000	21.77	349.18	BCIS
		18 29	48	P	VS				
34	06	20 19	34.1	29.3 N	080.9 E	.000	59.17	80.02	USCGS
		20 29	35	P	VS				
35	09	21 34	09.2	16.2 S	171.9 O	.000	146.40	355.28	USCGS
		21 53	49	PKP	VS				
		16 52	16	E	VS				
36	15	20 26	53.5	44.7 N	149.8 E	.003	80.95	24.85	USCGS
		39	04	P	VS				
37	15	20 35	33.0	44.8 N	149.6 E	.000	80.81	24.95	USCGS
		20 47	57	*PP	VS				
38	16	06 59	38.6	44.3 N	149.5 E	.000	81.24	25.21	USCGS
		7 11	53	P	VS				
		7 51	22	LR	VS				
39	16	07 21	42.7	44.2 N	149.4 E	.000	81.30	25.31	USCGS
		7 34	03	PCP	VS				
40	16	07 28	28.3	44.3 N	149.5 E	.003	81.24	25.21	USCGS

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OCTOBRE

				7 40 38	P	VS				
41	16	08 18 8 30 8 33 8 35	28.3	44.6 N P PP E	149.4 E VS VS VS	.000	80.94	25.16	USCGS	
42	16	09 18 9 30	16.6	44.5 N P	149.1 E VS	.000	80.95	25.40	USCGS	
43	16	12 37 12 49	26.8	44.3 N *PP	149.4 E VS	.000	81.21	25.27	USCGS	
44	17	01 38 1 57 2 01	36.0	07.0 S *PPKP E	155.8 E VS VS	.004	130.62	40.22	USCGS	
45	17	09 50 9 55 9 55	29.0	34.7 N P E	025.5 E VS VS	.000	21.12	128.14	BCIS	
46	18	06 16 6 28	35.2	44.4 N P	149.7 E VS	.000	81.20	25.03	USCGS	
47	18	09 06 9 17	26.0	02.9 N P	065.7 E VS	.000	68.93	111.64	USCGS	
48	18	12 32 12 50 12 51 12 53 12 59 12 59 13 00 13 00	24.1	07.0 S PKP PP E E E E PS	124.0 E VS VS VS VS VS VS VS	.085	113.51 115.0	71.93	USCGS	
49	21	23 09	18.8	28.1 N	093.8 E	.001	68.11	72.12	USCGS	

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OCTOBRE - NOVEMBRE

23	20	17	P	VS
23	22	52	PP	VS
23	49	41	LR	VS
23	52	12	MR	VS

50	23	01 56	03.2	19.8 N	056.0 O	.000	56.70	261.36	USCGS
		2 05	48	P	VS		56,7		
		2 05	54	I	VS				
		2 07	59	PP	VS				
		2 13	40	S	VS				
		2 25	43	LR	VS				
51	23	21 06	24.2	44.0 N	147.5 E	.002	80.95	26.67	USCGS
		21 18	37,9	P	VS				
52	27	19 46	11.0	47.7 N	016.1 E	.000	7.40	102.68	BCIS
		19 48	01,3	PN	VS		6,8		
		19 48	15	P*					
		19 48	34	PG	VS				
		19 49	20,7	SN	VS				
		19 49	43	S*	VS				
		19 50	00	SG	VS				
53	28	00 41	47.0	47.7 N	016.1 E	.000	7.40	102.68	BCIS
		45	33,1	SG	VS				
54	28	22 59	41.0	47.7 N	016.1 E	.000	7.40	102.68	BCIS
		23 02	50	SN	VS				
		23 03	36	SG	VS				
55	29	04 35	55.0	43.1 N	020.7 E	.000	12.51	116.73	BCIS
		4 39	31	E	VS				
		4 43	05	E	VS				
56	30	17 13	13.8	56.6 N	152.2 O	.000	72.40	347.21	USCGS
		17 24	38	P	VS				
57	01	06 50	58.2	04.1 S	076.9 W	.009	88.08	261.47	USCGS

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NOVEMBRE

		7	13	28	E	VS				
58	01	12 26 12 44	06.2 48	03.1 N PP	128.1 E VS	.005	107.94	62.03	USCGS	
59	06	09 53 10 05	22.4 33	44.4 N P	149.0 E VS	.004	81.01	25.50	USCGS	
60	07	14 49 15 01	13.4 23	45.5 N P	150.3 E VS	.000	80.35	24.21	USCGS	
61	09	08 05 8 12	44.0 23	40.2 N /P/	048.6 E VS	.000	31.64	90.98	BCIS	
62	09	16 12 16 23	50.6 16	29.5 N P	086.0 E VS	.000	62.27	76.34	USCGS	
63	12	09 25 9 45	54.1 16	16.7 S PKP2	174.6 O VS	.025	146.97	359.97	USCGS	
64	14	03 56 4 08	06.0 32	33.6 N P	131.6 E VS	.004	84.29	42.59	USCGS	
65	17	08 15 8 34 8 34 8 35 8 36	39.3 40 42 15 43	05.7 S PKP PKP E PP	150.7 E VS VS VS VS	.002	127.22 127.4	45.33	USCGS	
66	17	08 15 8 47	39.3 40	05.7 S E	150.7 E VS	.002	127.17	45.29	USCGS	
67	18	14 34 14 53	54.5 53	06.0 S PKP	148.2 E VS	.003	126.29	48.24	USCGS	

68	18	22 21 22 40	01.9 54	20.2 S PKP	174.1 O VS	.000	150.45	359.01	USCGS
69	19	23 35 23 54	06.0 16	06.0 S PKP	150.8 E VS	.000	127.52	45.40	USCGS
70	20	23 33 23 45	08.9 20.0	44.6 N P	149.7 E VS	.000	81.02	24.96	USCGS
71	24	10 41 11 04 11 04	33.5 04.0 28.5	06.8 S I I	107.4 E VS VS	.014	102.85	85.20	USCGS
72	24	12 40 12 54	51.4 32	13.1 N P	124.7 E VS	.000	97.88	59.05	USCGS
73	28	16 41 16 53	33.4 16.5	07.7 S P	071.2 O VS	.093	87.20	254.83	USCGS
74	28	16 49 17 01 17 03	30.3 14 30	08.8 S P E	071.4 O VS VS	.097	88.17	254.29	BCIS
75	03	03 50 4 02	01.2 29	15.0 S P	066.8 E VS	.002	83.98	121.44	USCGS
76	07	08 58 9 17	43.8 43	05.4 S PKP	151.3 E VS	.003	127.23	44.49	USCGS
77	10	15 11 15 23 15 26	05.5 21 30	40.4 N P PP	138.9 E VS VS	.000	81.35 81.5	34.07	USCGS

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DECEMBRE

78	15	12 13 25	25.8 41	14.7 N P	091.7 O VS	.013	83.38	284.83	USCGS
79	17	05 18 5 30	34.8 47,0	45.4 N P	150.1 E VS	.000	80.39	24.38	USCGS
80	17	22 39 22 40 22 40	52.0 13 30	50.7 N PN SN	006.0 E VS VS	.000	.95	24.38	BCIS
81	17	23 44 23 56	46.2 47	51.4 N P	177.9 O VS	.004	79.20	2.09	USCGS
82	22	04 36 4 44 4 46	34.0 46 38	28.1 N P PP	056.9 E VS VS	.000	44.51	99.48	BCIS

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JANVIER - FEVRIER

1	10	13 36 13 55 13 59	30.7 59 58	13.5 S PKP E	166.6 E VS VS	.000	140.63	29.59	6.5	USCGS
2	11	22 47 22 58	06.3 56	48.8 N PKP	153.5 E VS	.011	78.07	20.92	5.0	USCGS C
3	12	13 32 13 43	24.0 07.9	27.6 N IP	088.0 E	.000	64.85	76.48	6.1	USCGS C
4	12	20 31 20 36	02.0 12	46.7 N P	027.5 O	.000	22.02	274.49	4.4	USCGS
5	15	23 47 23 50	29.0 50	35.7 N P	004.4 E	.000	14.14	183.27	5.2	BCIS
6	02	04 30 4 42	33.1 49	17.2 N P	094.5 O VS	.017	83.22	288.51	5.3	USCGS
7	02	15 56 16 05 16 12 16 16 16 18 16 21	51.0 37 38 35 35	37.5 N P /S/ L M	073.4 E VS NS NS ES NS	.000	49.11	77.34	5.8	USCGS
8	04	03 25 3 44	00.8 54	51.8 S PKP	139.7 E VS	.000	151.31	111.72	5.9	USCGS
9	04	05 01 5 13 5 22	21.8 22 06	51.3 N P E	178.6 E VS ES	.001	79.17	4.33	7.5	USCGS
10	04	07 11 7 23	22.7 27	51.1 N P	177.7 E VS	.000	79.33	4.92	5.9	USCGS

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FEVRIER

11	04	07 14 7 26	58.7 58	52.0 N P	173.9 E VS	.000	78.17	7.22 5.8	USCGS
12	04	07 23 7 35	12.3 19	51.9 N P	173.2 E VS	.000	78.21	7.68 5.5	USCGS
13	04	08 06 8 18	16.6 14	51.9 N P	174.3 E VS	.001	78.30	6.99 5.6	USCGS
14	04	08 33 8 45	40.9 40	51.9 N P	174.0 E VS	.000	78.28	7.18 5.7	USCGS
15	04	08 37 8 49	14.5 14	51.7 N P	174.6 E VS	.000	78.52	6.82 5.1	USCGS
16	04	08 40 8 52 9 02	40.9 42 41	51.3 N P S	179.5 E VS VS	.001	79.22	3.76 6.4	USCGS
17	04	09 52 10 04	02.9 05	51.5 N P	175.9 E VS	.000 .000	78.82 77.6	6.03 5.6	USCGS
18	04	12 06 12 17 12 27 12 33 12 45.5	04.3 59 46 09	52.6 N P S E L	172.1 E VS,NS NS NS NS	.000	77.42	8.26 5.8	USCGS
19	04	12 50 13 02	57.5 59	51.6 N P	174.8 E VS	.000	78.64	6.71 5.2	USCGS
20	04	14 18 14 30 14 40 14 58.2	27.9 20 08	53.0 N P S L	171.0 E VS,NS ES,NS NS	.000	76.91 76.6	8.87 5.7	USCGS

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FEVRIER

21	04	15 51 25.5 16 03 14 16 31,1	53.1 N P L	170.8 E VS NS	.001	76.80	8.97 5.7	USCGS
22	04	19 44 05.6 19 53 33 20 01 18 20 08,3	13.3 N P S L	044.8 O VS NS NS	.000 .000	54.66 55.0	246.38 5.4	USCGS
23	05	13 38 46.7 13 50 45	52.0 N P	174.0 E VS	.000	78.18	7.16 5.5	USCGS
24	05	19 00 41.9 19 13 49	52.0 N P	173.2 E VS	.000	78.11	7.66 5.5	USCGS
25	05	20 47 13.3 20 59 12 21 09 08 21 24,8	51.9 N P S L	174.6 E VS ES ES	.000 .000	78.32 78.6	6.80 5.7	USCGS
26	05	22 15 59.5 22 29 02	51.5 N P	176.7 E VS	.000	78.87	5.52 5.6	USCGS
27	06	01 40 33.2 1 52 23 1 55 12 2 02 10 2 11,3	53.2 N P /PP/ *SS L	161.0 O VS VS ES ES	.000 .000	76.79 76.8	351.63 6.4	USCGS
28	06	03 39 15.5 3 52 45	51.5 N P	175.3 E VS	.000	78.77	6.41 5.1	USCGS
29	06	04 02 53.0 4 14 50 4 24 41 4 30,3	52.1 N P S L	175.7 E VS,ES ES ES	.000 .000	78.21 78.1	6.08 5.9	USCGS

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FEVRIER

30	06	12 22 12 34	26.2 25	51.8 N P	175.3 E VS	.000	78.48	6.37 5.4	USCGS
31	06	14 11 14 23	10.1 09	51.7 N P	174.2 E VS	.001	78.49	7.08 5.1	USCGS
32	06	16 50 17 02 17 12 17 20,9	29.0 17 05	53.2 N P S L	161.8 O VS ES ES	.000 .000	76.86 76.8	352.12 6.5	USCGS
33	06	18 10 18 22	28.8 26	51.5 N P	174.6 E VS	.000	78.72	6.85 4.4	USCGS
34	09	17 37 17 49	15.9 07	52.8 N P	171.9 E VS	.001	77.20	8.35 5.7	USCGS
35	09	20 38 20 42 20 47,8	48.0 26	38.0 N P L	020.5 E VS NS	.000	16.04	131.79	USCGS
36	11	02 33 2 53	29.3 04	21.8 S PKP	176.0 O VS	.022	152.02	2.73 5.8	USCGS
37	11	04 42 5 09,4	00.7	01.3 S L	014.4 O NS	.000	53.65	204.82	USCGS
38	11	16 10 16 22	30.4 56	01.4 S PKP	077.8 O VS	.025	86.59	263.89 5.1	USCGS
39	12	00 43 55 1 22,4	17.1 22	51.5 N P L	175.8 E VS NS	.000	78.81	6.09 5.7	USCGS
40	12	00 55	06.0	52.2 N	172.8 E	.000	77.88	7.88 6.0	USCGS

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FEVRIER

		1 07 03		P	VS	.000	77.9		
		1 17 07		*SS	NS				
		1 34,1		L	NS				
41	14	19 37 16.0		73.1 N	005.8 E	.000	23.37	.31	USCGS
		19 42 29		P	VS				
		19 48,8		L	ES				
42	15	01 25 08.8		51.4 N	179.4 E	.002	78.92	3.81	USCGS
		1 37 13		P	VS				
		1 59,3		L	ES				
43	15	12 34 54.8		53.6 N	081.3 E	.000	45.13	54.69 5.3	USCGS
		12 43 17		P	VS				
44	15	15 26 24		PG	VS				
		15 26 30		SG	VS				
45	16	08 46 07.7		26.4 N	109.9 O	.000	84.91	305.49 4.6	USCGS
		9 21,0		L	ES				
46	16	12 24 08.8		39.6 N	141.8 E	.000	82.93	32.42	USCGS
		12 36 40		P	VS				
47	19	18 52 42.1		51.1 N	178.4 E	.000	79.36	4.47 5.6	USCGS
		19 04 47		P	VS				
48	21	11 14 15.1		15.1 S	173.2 O	.000	145.36	357.59 6.0	USCGS
		11 33 51		PKP	VS				
49	24	08 09 17.2		14.0 N	092.2 O	.004	84.22	284.75 5.0	USCGS
		8 55,8		L	NS				
50	25	04 51 27.8		05.5 S	152.0 E	.000	127.63	43.77 6.5	USCGS

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FEVRIER - MARS

5 10 31 P VS

51	25	05 22 5 34	14.5 11	52.1 N P	173.2 O VS	.000	78.53	359.11	5.6	USCGS
52	26	04 42 5 02	28.3 21	18.8 S P	176.1 O VS	.000	149.04	2.73	5.3	USCGS
53	26	05 36 5 55	01.1 47	18.9 S P	176.3 O VS	.004	149.13	3.10	5.4	USCGS
54	03	15 14 15 33	09.7 14	05.5 S PKP	151.9 E VSW	.002	127.59	43.88	4.2	USCGS
55	03	16 47 16 59	25.7 19	53.1 N P	171.2 E VSW	.000	76.84	8.73	5.6	USCGS C
56	04	00 47 48	11.0 21	47.6 N PN	000.6 O VSW	.000	4.55	242.83		BCIS
57	05	06 15 6 27	01.1 09	51.2 N P	179.3 E VSW	.000	79.31	3.89	5.6	USCGS
58	05	13 42 13 54	44.1 41	52.3 N P	174.9 E VSW	.000	77.95	6.56	5.3	USCGS
59	06	08 19 8 31	30.5 29	52.4 N P	174.2 E VSW	.000	77.80	6.98	5.1	USCGS D
60	07	01 43 2 03 2 03	11.4 12 47	30.3 S PKP E	177.9 O VSW VSW	.004	160.34	8.46	5.6	USCGS

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MARS

61	07	07 42 7 51	31.2 32	12.1 N P	046.3 E VSW	.000	50.38	123.77	5.3	USCGS
62	09	01 36 1 55	45.4 47	17.0 S PKP	177.4 0 VSW	.055	147.19	4.91	5.5	USCGS
63	09	17 57 18 01 18 02	53.7 53 06	39.4 N P PP	024.0 E VSW VSW	.000	16.82 16.8	121.26		USCGS
64	10	15 53 16 12	37.8 32	21.9 S IPKP	179.6 E VSW	.080	151.76	11.40	5.7	USCGS C
65	13	04 09 4 13 4 13 4 14 4 16 4 18,6 4 19,5	38.5 41 48 16 54 54 5	39.0 N P E E S LQ LR	023.4 E VSW VSW VSW VSW ESW VSW	.000	16.78 17.2	123.38	5.3	USCGS
66	13	13 54 14 13	33.0 32	20.4 S P	177.6 0 VSW	.068	150.55	5.69	5.7	USCGS
67	14	15 53 16 01 16 03 16 08 16 11	06.6 26 13 06 55	36.3 N IP E S LQ	070.7 E VSW VSW ESW FSW	.029	48.12 48.0	80.36	7.7	USCGS C
68	16	16 46 16 58 17 01 17 08 17 25,6 17 37,3	15.5 37 49 51 51 3	40.8 N IP IPP S LQ LR	142.9 E VS VS ES ES VS	.000	82.40 82.0	31.15	6.5	USCGS C
69	22	22 56	26.5	31.9 S	071.5 0	.002	105.89	239.52	4.6	USCGS

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MARS

23	10	37	P	VS
23	14	49	E	VS
23	49,9		L	ES

70	23	18 16	08.4	15.2 S	173.5 0	.007	145.47	358.09	5.4	USCGS
		18 35	43	PKP	VS					

71	24	23 54	14.7	15.2 S	173.5 0	.015	145.47	358.09	6.5	USCGS
		13 43		IP	VS					
		17 13		E	VS					
		1 03,4		L	NS					

72	24	08 08	05.2	56.6 N	152.4 0	.000	72.43	347.32	5.0	USCGS
		8 22	15	P	VS					D
		8 46,1		L	ES					

73	26	00 20	56.3	20.0 S	178.1 0	.084	150.12	6.58	5.8	USCGS
		39 45		IPKP	VS					D

74	26	20 29	22.0	36.8 N	030.9 E	.012	22.55	115.61	5.3	USCGS
		20 34	15	P	VS					D

75	28	09 59	58.0	15.7 S	074.1 0	.002	95.13	251.98	5.5	USCGS
		10 13	19	P	VS					

76	28	13 22	57.6	55.1 N	162.1 E	.000	73.72	13.69	5.9	USCGS
		13 34	30	P	VS					C

77	28	16 33	14.6	32.4 S	071.2 0	.003	106.10	238.97	7.2	USCGS
		16 47	24	P	VS	.000	106.0			
		16 50	50	E	VS					
		16 51	43	I/PP/	VS					
		16 57	58	E	ES					
		17 06,3		LQ	ES					
		17 24,9		M	ES					
		17 25,0		LR	VS					

DOURBES 1965

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MARS - AVRIL

78	28	10 47	37.6	40.8 N	142.8 E	.000	82.37	31.22	6.1	USCGS
		10 59	59	IP	VS		82.0		C	
		11 03	08	IPP	VS					
		11 10	13	S	ES					
79	30	00 21	00.2	20.0 S	173.9 O	.000	150.25	358.64	5.5	USCGS
		40 53		PKP	VS					
80	30	02 27	07.2	50.6 N	177.9 E	.003	79.84	4.84	7.7	USCGS
		2 39	14	P	VS	.000	79.8			
		2 42	15	IPP	VS					
		2 49	23	E	ES					
81	31	09 47	30.7	38.6 N	022.4 E	.007	16.54	126.32	4.5	USCGS
		9 51	19	IP	VS,ES		17.8		C	
		9 54	31	E	ES					
82	05	13 52	13.4	44.6 N	151.1 E	.007	81.40	24.02	5.0	USCGS
		14 04	25	IP	VS				D	
		14 35,4		L	ES					
83	06	09 42	28.2	00.5 S	119.9 E	.000	105.93	71.15	5.3	USCGS
		10 01	01	P	VS					
		10 01	11	E	VS					
		10 44,7		L	ES					
84	10	23 57	03.5	35.1 N	024.3 E	.003	20.20	129.66	5.2	USCGS
		1 40,5		P	VS,ES	.000	19.9			
		2 03,5		/PP/	ES					
		5 19,0		S	ES					
		8,4		LQ	ES					
		10,4		LR	VS					
85	10	00 20	01.1	35.0 N	024.2 E	.004	20.23	130.02	4.5	USCGS
		24 42		P	VS					
86	10	14 46	50.7	20.2 S	173.7 O	.000	150.44	358.25	5.7	USCGS
		15 06	48	PKP	VS					

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AVRIL

87	10	16 54 17 06	55.8 55	53.1 N P	170.9 E VS	.000	76.81	8.91	5.8 C	USCGS
88	10	22 32 22 51 22 51	46.6 35 38	17.8 S PKP IPKP	178.8 O VS VS	.080	147.89	7.50	5.7 C C	USCGS
89	11	00 11 31 23	08.8 23	42.7 S P	173.9 E VS	.000	169.25	52.41	6.2 C	USCGS
90	24	21 55 22 52.2	26.5 26.5	11.4 N L	140.2 E NS	.004	107.34	46.77	5.7	USCGS
91	25	01 00 1 50.7	11.6 11.6	24.5 N L	142.7 E NS	.000	96.90	38.47	5.6	USCGS
92	26	01 57 2 08 2 37.0	14.4 32 32	58.9 N P L	142.7 O VS	.000	68.61	342.85	5.3	USCGS
93	26	20 29 20 40 20 41	07.4 50.5 01.0	54.5 N IP E	162.6 O VS VS	.003	75.64	352.79	5.9 C	USCGS
94	26	22 15 22 28 22 32 22 39 22 59.4 23 09.0 23 11.0	42.5 37.4 07.4 46 59.4 09.0 11.0	21.1 N IP PP E LQ M LR	120.7 E VS VS ES ES ES VS	.000 .000	89.20 89.2	57.58	5.0 D	USCGS
95	27	14 09 14 13 14 13 14 17	07.1 33.3 50.8 08.3	35.7 N IP PP S	023.5 E VS,ES ES ES	.003	19.33 19.5	130.12	5.5	USCGS

		14 19,5		L						
96	29	15 28 43.3	47.4 N	122.4 O	.004	73.23	325.88	6.6	USCGS	
		15 40 12,0	P	VS	.002	73.0				
		15 40 29	*SP	ES						
		15 42 51	/PP/	VS						
		15 49 34	S	VS,ES						
		15 55 10	E	ES						
		16 00,4	LQ	ES						
		16 06,7	M	ES						
		16 08,4	LR	VS						
97	01	01 59 44.0	37.0 N	027.0 E	.000	20.19	121.27		BCIS	
		2 04 33,0	P	VS						
98	02	07 13 42.0	28.9 N	128.9 E	.000	87.01	47.06	5.0	USCGS	
		7 58,9	LQ	NS						
		8 09,3	LR	VS						
99	03	10 01 35.2	13.5 N	089.3 O	.000	82.77	282.26	5.1	USCGS	
		10 39,5	L	ES						
100	04	08 34 39.8	41.7 N	079.4 E	.000	50.33	69.30	5.7	USCGS	
		8 43 47,0	IP	VS						
		9 00,5	LR	ES					C	
101	11	17 37 38.3	61.4 N	149.6 O	.004	67.40	347.26	5.5	USCGS	
		17 48 40	P	VS						
		17 48 52	E	VS						
102	12	10 33 43.5	06.2 S	130.3 E	.014	116.70	65.93	5.7	USCGS	
		10 52 17	PKP	VS						
		10 53 26	E	VS						
103	12	19 35 41.6	21.9 S	065.9 O	.039	95.04	242.02	5.1	USCGS	
		19 48 35	P	VS						

104	13	02 23 23.4 2 35 32	19.3 S IPKP	063.8 W VS	.087	91.88	242.01		USCGS
105	16	01 35 55.0 1 40 50	35.4 N P	028.0 E VS	.000	21.91	122.64	4.6 C	USCGS
106	16	11 35 46.0 11 46 52 12 26.5	05.3 N P L	125.7 E VS ES	.000	104.72	62.73		USCGS
107	17	17 19 25.9 17 32 20 17 32 49 17 35 50 17 36 05 17 42 46 17 43 07 18 02.0 18 07.1	22.5 N IP E PP E E S LQ LR	121.3 E VS ES VS VS ES ES ES VS	.000	88.40 88.4	56.31	6.2 C	USCGS
108	18	23 57 48.2 1 16 13	01.5 N PKP	127.3 E VS	.019	108.77	63.69	4.8	USCGS
109	20	00 40 10.9 59 40 2 53 21 27 27.4 45.3	14.7 S PKP E E E M	167.4 E ES ES ES ES ES	.000	142.01	29.04	5.6	USCGS
110	22	10 31 39.5 10 50 26 10 50 33 10 50 34 10 52 46	21.1 S P I I E	178.7 O VS VS VS VS	.085	151.16	7.91	6.0	USCGS
111	24	23 21 10.6 23 34 47 23 35 00	13.0 N P E	124.5 E VS VS	.000	97.77	59.23		USCGS

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MAI - JUIN

112	25	13 07 13 19	49.7 56	51.3 N P	178.7 E VS	.000	79.18	4.27	5.9	USCGS
113	25	18 34 18 54	28.4 13	17.0 S PKP	175.9 E VS	.000	146.37	16.53	5.2	USCGS
114	26	19 44 20 02	10.9 14	56.1 S PKP	027.6 O VS	.014	108.98	198.83	6.7	USCGS
115	29	04 14 4 19 4 26,9	58.6 20	35.4 N P L	022.6 E VS NS	.004	19.13	132.45	4.6	USCGS D
116	29	15 36 15 56 17 02,0	31.9 41	57.8 S PKP L	147.3 O VS NS	.000	162.02	233.12	5.5	USCGS
117	31	02 04 2 14	42.9 17,5	32.6 N P	078.2 E VS	.000	55.25	78.97	5.3	USCGS C
118	31	08 38 8 50	07.5 36	35.7 N P	139.6 E VS	.014	85.75	35.80	5.5	USCGS
119	01	04 32 4 44 4 44	45.3 27 45	20.2 N P *PP	094.9 E VS	.003	74.52	77.03	5.5	USCGS D
120	01	07 52 8 02 8 02	26.1 41 46	28.5 N P I	083.2 E VS VS	.000	61.18	79.09	5.2	USCGS C
121	01	18 25 18 44	06.1 46	15.6 S IPKP	173.5 O VS	.000	145.87	358.08	4.9	USCGS D
122	02	03 18	04.4	14.9 S	172.8 O	.000	145.15	356.92	4.9	USCGS

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JUIN

3 37 42 PKP VS

123	02	05 12	19.1	23.5 S	180.0 E	.080	153.36	11.06		USCGS
		5 31	50	PKP1	VS	0.08	153.8		C	
		5 31	58.8	I	VS					
		5 32	13.3	IPKP2	VS					
		5 33	59	*PPKP1	VS					
		5 34	06	I	VS					
124	02	14 45	55.8	17.9 S	179.5 O	.095	147.92	8.77	5.1	USCGS
		15 04	34.7	IPKP	VS				D	
		15 07	59	E	VS					
125	02	23 40	24.4	16.0 N	046.8 O	.000	53.76	250.28		USCGS
		23 49	45.7	P	VS	0.00	53.9		C	
		23 49	58.2	I*PP	VS					
		23 57	28	PS	VS					
126	03	07 43	39.1	51.9 N	175.8 E	.004	78.41	6.04	5.5	USCGS
		7 55	36.7	P	VS				D	
127	03	10 57	08.8	18.5 N	070.3 O	.000	66.88	271.58	5.3	USCGS
		11 08	01.8	P	VS	.000	67.0		D	
		11 08	12.8	*PP	VS					
128	03	13 17	35.1	IPG	VS		.38			D
		13 17	40.1	ISG	VS					
		13 17	43.6	I	VS					
129	03	18 31	52.0	39.7 N	023.3 E	.001	16.23	121.84	5.5	BCIS
		18 35	45	P	VS					
		18 40	41	LR						
130	04	14 07	10.7	PN	VS		3.5			
		14 07	53.7	SN						

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JUIN

131	04	15 02	18.3	51.1 N	178.5 E	.001	79.37	4.41	5.2	USCGS
		15 14	13	P	VS	.000	77.8			
		15 14	23	*PP						
132	05	03 49	03.1	01.6 S	126.7 E	.000	110.90	66.12	5.5	USCGS
		4 08	18	PKP	VS					
133	05	11 13	47.7	15.8 S	174.7 O	.041	146.08	.14	5.0	USCGS
		11 32	56	PKP	VS					
134	09	16 58	40.3	19.0 S	175.7 O	.025	149.24	2.00	5.4	USCGS
		17 18	09,4	PKP	VS					
135	10	05 49	00.0	35.9 N	070.5 E	.014	48.24	80.92	5.8	USCGS
		5 57	32,5	P	VS					C
136	10	15 24	18.0	36.5 N	026.7 E	.018	20.38	122.76		BCIS
		15 28	46,1	IP	VS					D
137	10	20 33	59.3	46.4 N	027.6 O	.000	22.19	273.80	4.9	USCGS
		20 38	56,1	P	VS					
138	11	02 37	34.7	51.8 N	174.1 E	.000	78.38	7.13	5.5	USCGS
		2 49	35,3	P	VS	.000	78.7			
		2 49	47,3	*PP	VS					
139	11	03 33	44.9	44.7 N	148.7 E	.002	80.65	25.58	6.0	USCGS
		3 45	56,2	IP	VS					C
		3 45	58,7	I	VS					
		3 46	14,2	I	VS					
		3 53	16,2	P	VS					D
		3 55	31	E	VS					
		3 56	46,2	P	VS					
		4 05	11,2	P	VS					
		4 21,9		LR	VS					C
140	11	04 14	51.4	44.3 N	149.0 E	.002	81.10	25.54	5.2	USCGS

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JUIN

4 27 05,2 P VS D

141	11	04 44 4 57	53,1 08,1	44,5 N P	149,2 E VS	.001	80,97	25,33	5,4 C	USCGS
142	11	07 11 7 23	05,7 18,9	44,4 N P	149,2 E VS	.003	81,06	25,37	5,5 C	USCGS
143	11	07 27 7 39	45,5 59,8	44,1 N P	149,4 E VS	.004	81,40	25,35	5,2	USCGS
144	11	08 41 8 53	01,1 13,7	44,3 N P	149,0 E VS	.003	81,10	25,54	5,1 C	USCGS
145	11	10 16 10 28 10 32	37,3 53,6 06,6	44,4 N P E	149,3 E VS	.000	81,09	25,30	5,0	USCGS
146	11	12 00 12 12	00,8 18,4	44,2 N P	149,1 E VS	.000	81,22	25,52	5,2	USCGS
147	12	05 28 5 40	24,9 55,0	44,3 N P	149,6 E VS	.000	81,27	25,14	4,6 C	USCGS
148	12	05 41 5 53 5 53	00,3 13,5 31,5	44,0 N P E	149,1 E VS VS	.005	81,41	25,59	5,6 C	USCGS
149	12	06 03 6 15	34,8 48,0	44,3 N P	149,0 E VS	.002	81,10	25,54	5,2	USCGS
150	12	18 45 18 57	43,3 59,2	44,1 N P	149,0 E VS	.001	81,29	25,62	5,6 C	USCGS

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JUIN

151	12	18 50 19 03	11.3 30,2	20.3 S P	068.9 O VS	.011	95.53	245.22	5.8 C	USCGS
152	12	22 16 22 29	46.3 00,3	44.2 N P	149.0 E VS	.002	81.19	25.58	5.3 C	USCGS
153	13	02 20 2 33 2 33	52.0 07,8 17,3	44.1 N P E	149.3 E VS VS	.003	81.37	25.42	5.3	USCGS
154	13	07 06 7 18 7 18	13.6 31,9 42,4	41.9 N IP E	143.4 E VS VS	.000	81.58	30.32	6.6	USCGS
155	13	20 01 20 06 20 06 20 07 20 10 20 14,6	52.0 39,1 57,6 02,6 40 14,6	37.8 N IP I PP E LR	029.4 E VS VS VS VS VS	.000	20.99 21.0	115.84	6.0 D	BCIS
156	15	07 59 8 10	20.4 19,8	29.7 N P	095.3 E VS	.000	67.89	69.91		USCGS
157	15	23 10 23 30	25.2 16,5	20.9 S PKP	173.7 E VS	.000	149.67	22.02	5.7	USCGS
158	17	02 58 3 03	22.0 08	37.7 N P	029.4 E VS	.000	21.06	116.04		BCIS
159	17	20 14 20 25	48.6 11,5	32.0 N IP	087.8 E VS	.000	61.68	73.09	5.4	USCGS
160	18	01 18 1 28	35.2 57,0	32.0 N P	087.7 E VS	.000	61.62	73.15	5.2	USCGS

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JUIN

161	18	22 45 22 58	16.4 17	11.1 S P	073.6 O VS	.012	91.30	254.52	5.3	USCGS
162	19	12 50 13 01	23.0 55.0	53.8 N P	160.5 E VS	.010	74.72	15.00	4.8	USCGS
163	20	01 57 2 09	24.8 28.0	44.6 N P	149.2 E VS	.001	80.88	25.29	4.8	USCGS
164	21	00 21 29	14.5 21.5	28.1 N P	056.0 E VS	.000	43.93	100.27	6.0	USCGS
165	22	05 49 5 58	18.9 33.5	36.3 N IPKP	077.7 E VS	.000	52.56	75.80	6.1	USCGS C
166	23	11 09 11 20 11 31 11 31 11 56.1	15.3 43.5 11 26	56.6 N IP E E LR	152.9 O VS VS VS VS	.000	72.50	347.60	5.7	USCGS D
167	24	14 08 14 28	31.2 22.5	23.6 S IPKP	176.7 O VS	.009	153.78	4.32	5.5	USCGS
168	27	11 24 11 49 11 50	50.0 58 27	60.3 N P E	140.9 O VS VS	.001	66.96	342.51	4.7	USCGS
169	28	03 33 3 52 3 52 3 54 3 55	36.5 43 53 45 55	05.1 S PKP E PP E	153.0 E VS VS VS VS	.003 0.00	127.72 53.8	42.42	6.1	USCGS D
170	29	00 43 44	46.0 47.5	47.3 N IPN	009.9 E VS	.000	3.93 3.8	128.48		BCIS C

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JUIN - JUILLET

		44	54,5		IP*	VS						
		45	53,5		ISN	VS						
171	29	02 04 2 16	22.6 37	44.4 N P	149.4 E VS	.000	81.12	25.24	5.5	USCGS D		
172	29	04 27 4 32 4 32 4 35	57.4 14,2 33,8 22,0	36.5 N IP I E	012.2 O VS VS VS	.000	18.43 16.9	230.33	4.8	USCGS D		
173	29	15 19 15 38 15 40	43.9 54 18	18.5 S PKP E	169.0 E VS VS	.028	146.08	28.66	5.0	USCGS		
174	29	15 40 15 45 15 45	28.7 24 31	34.2 N P E	026.3 E VS VS	.000	21.92	127.57	4.5	USCGS C		
175	30	02 53 3 12	14.0 27	01.6 S PP	126.7 E VS	.000	110.90	66.12	5.2	USCGS		
176	30	08 33 8 45	31.8 31	51.7 N P	176.5 E VS	.004	78.66	5.63	6.0	USCGS		
177	01	23 12 23 32	45.4 49	63.0 S PKP	163.7 O VS	.000	165.49	200.23	5.5	USCGS		
178	02	20 19 20 31	41.8 41	52.0 N P	175.3 E VS	.001	78.28	6.35	5.3	USCGS		
179	02	20 58 21 10 21 10	40.0 32,3 43,1	53.1 N IP I*PP	167.7 O VS VS	.004 0.00	77.37 77.4	355.73	6.6	USCGS C		

180	03	02 22 10.0 2 27 26.7 2 31 43 2 35.8	54.0 N P S LR	032.5 O VS VS VS	.000 .000	23.55 24.4	294.81	5.6 C	BCIS
181	03	11 26 11.6 11 38 02 11 47 57 12 05.8 12 12.9	22.6 N P /S/ L M	101.4 E VS NS NS NS	.000	76.79 76.8	70.73	5.2	USCGS
182	03	17 10 19.0 17 16 27	31.9 N P	082.7 E VS	.001	58.56	76.56	4.5	USCGS
183	03	20 48 24.2 21 08 03	15.3 S PKP	176.3 O VS	.000	145.56	2.87	4.9	USCGS
184	05	08 32 02.0 8 37 20.3 8 37 34.6 8 37 53.6 8 41 39.1 8 43.1 8 45.2	54.0 N P I PP S L M	032.5 O VS VS VS NS NS NS	.000	23.50 24.3	294.84	C	BCIS
185	05	15 52 15.3 15 52 23.3 15 53 46.5 15 54 01.5	I I P* IS*	VS VS VS VS		1.1			D
186	05	18 41 05.7 18 41 10.8	PG SG	VS VS		.4			
187	06	03 18 40.0 3 22 38.4 3 22 45.7 3 22 58.4 3 26 00	38.0 N P I PP *SS	022.5 E VS VS VS VS	.000 .000	17.04 17.2	127.48	6.5 D	BCIS

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JULLET

		3 27 37		LR	VS					
		3 28 27		LM	VS					
		3 29 36		MR	VS					
188	06	04 08 46.1 4 20 54.3		46.7 N P	152.4 E VS	.000	79.77	22.38	5.4	USCGS C
189	06	15 28 34.3 15 37 28 15 38 02		52.8 N P E	171.9 E VS VS	.003	77.01	8.34		USCGS
190	06	16 26 01.0 16 43 25.1 16 43 27.1		07.7 S P I	107.8 E VS VS	.006	103.78	85.50		USCGS D
191	06	18 36 47.3 18 56 43.3 18 57 04.3 18 57 29.1		04.5 S PKP *PPKP E	155.1 E VS VS VS	.075	128.08	39.70	6.5	USCGS C
192	07	15 37 21.5 15 57 00 16 37.6		15.0 S PKP L	173.0 O VS NS	.000	145.26	357.25	4.9	USCGS
193	07	23 00 06.8 23 22 10 23 45.5		06.9 S P L	105.6 E VS NS	.012	101.75	86.66	5.8	USCGS
194	08	00 13 53.9 18 58 24.9		72.0 N P L	001.6 O VS NS	.000	22.49	354.33	4.4	USCGS
195	08	13 04 05.4 13 23 45		15.8 S PKP	179.2 O VS	.000	145.87	7.87	4.9	USCGS
196	08	23 20 04.0		47.3 N	011.4 E	.000	4.73	120.10		USCGS

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JUILLET

23 21 17	PN	VS	4.6
23 22 25	S*	VS	
23 22 36	SG	VS	
23 22 42	E	VS	
23 23,7	L	NS	

197	11	09 52 19.0 9 57 04	62.2 N P	025.7 O VS	.000	21.09 317.70 4.7	USCGS
198	14	17 55 51.1 18 07 53	52.6 N P	168.6 O VS	.000	77.91 356.25 5.3	USCGS D
199	15	18 33 29.9 18 46 25	07.7 N P	123.8 E VS	.087	101.75 62.92 5.8	USCGS
200	23	17 00 00.0 17 12 08	37.1 N P	116.0 W VS	.000	79.06 316.01	USCGS
201	25	03 40 40.4 3 53 37	02.0 N P	099.3 E VS	.010	90.96 85.73 5.3	USCGS
202	25	08 44 22.5 8 56 30	41.7 N P	126.9 O VS	.000	79.77 325.73 5.3	USCGS
203	25	13 33 05.2 13 45 30	41.3 N P	146.6 E VS	.000	83.14 28.39 5.9	USCGS D
204	25	21 46 45.3 21 58 47	51.4 N P	176.0 E VS	.001	78.92 5.97 5.3	USCGS
205	26	15 23 46.1 15 43 38	15.8 S PKP	172.9 O VS	.000	146.05 357.04 4.9	USCGS
206	29	08 29 22.1	51.2 N	171.3 O	.000	79.40 357.88 6.5	USCGS

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ACUT

216	08	12 49	23.1	51.9 N	175.3 O	.003	78.74	.43	5.1	USCGS
		13 01	23	P	VS					D
		13 01	40	E						
217	11	03 40	56.2	15.4 S	166.9 E	.000	142.51	30.16	6.3	USCGS
		4 00	28	PKP	VS	.000	143.5			C
		4 00	39,5	I	VS					
		4 03	43	PP	VS					
		4 57,0		LR	VS					
218	11	18 29	40.1	59.6 N	145.8 O	.000	68.52	344.72	5.5	USCGS
		18 40	45	P	VS					
219	11	19 52	29.8	15.7 S	167.1 E	.000	142.85	30.02	5.6	USCGS
		20 12	01	PKP	VS					
		20 12	14	E	VS					
		20 15	09	E	VS					
		21 09,9		LR	VS					
220	11	20 55	12.3	15.8 S	166.9 E	.000	142.88	30.38	4.7	USCGS
		21 14	50	PKP	VS					
221	11	22 31	48.9	15.8 S	167.2 E	.000	142.98	29.93	6.4	USCGS
		22 51	20	PKP	VS	.000	143.0			
		22 51	24,5	I	VS					
		22 51	36	I	VS					
		22 54	34	PP	VS					
		23 54,0		LR	VS					
222	12	01 25	01.9	23.3 S	175.7 O	.002	153.49	2.22		USCGS
		1 44	56	P	VS					
223	12	04 39	49.1	17.7 S	178.7 O	.080	147.76	7.30		USCGS
		4 58	36	IPKP	VS					C
224	12	08 01	43.3	15.9 S	167.5 E	.000	143.17	29.53	6.3	USCGS
		8 21	16	PKP	VS	.000	143.3			D
		8 21	23	E	VS					

		8 24 29	PP	VS						
		9 19,0	LR	VS						
225	12	12 57 09.7	05.3 S	152.2 E	.001	127.54	43.43	5.9	USCGS	
		13 16 13	PKP	VS						
		13 16 26,5	I*PPKP	VS						
		14 05,2	LR	VS						
226	12	18 04 56.1	16.0 S	167.4 E	.002	143.23	29.74	5.3	USCGS	
		18 24 27	PKP	VS						
		18 24 44	E	VS						
227	13	04 40 55.3	15.9 S	167.5 E	.000	143.17	29.53	5.7	USCGS	
		5 00 29	PKP	VS						
228	13	11 24 51.8	16.0 S	167.0 E	.000	143.10	30.34	5.5	USCGS	
		11 44 23	PKP	VS						
229	13	12 40 08.3	15.9 S	166.8 E	.000	142.94	30.59	5.6	USCGS	
		12 59 42	P	VS						
		13 00 09	E	VS						
		13 03 12	E	NS						
		13 15 52	E	NS						
		13 16 59	E	NS						
		13 22 08	E	NS						
		13 38,8	LR	NS						
230	17	10 35 04.1	05.3 N	096.2 E	.000	86.47	85.96	5.3	USCGS	
		10 47 47	P	VS		86.3				
		10 51 12	PP	VS						
		10 58 22	S	NS						
		11 01 29	E	NS						
		11 04 07	SS	NS						
		11 10,6	L	NS						
		11 19,5	LM	NS						
231	17	12 14 30.9	20.6 S	177.8 O	.073	150.74	6.10	4.2	USCGS	
		12 33 29	PKP	VS						

232	17	13 16 13 28	12.7 14	52.0 N P	175.2 O VS	.000	78.64	.37	4.9	USCGS
233	17	16 17 16 37	41.5 07	15.2 S PKP	166.6 O VS	.000	144.86	346.47	5.8	USCGS
234	17	22 18 22 38 22 38	52.5 38 50	20.4 S PKP E	168.8 E VS VS	.000	147.79	30.16	5.2	USCGS C
235	18	05 56 6 16	54.8 37	17.4 S PKP	167.6 E VS	.000	144.60	30.23	4.7	USCGS C
236	20	05 54 6 12 6 14	50.0 58 05	05.7 S PKP E	128.6 E VS VS	.046	115.30	67.11	6.2	USCGS
237	20	09 42 9 55 9 56	48.5 57 30	19.0 S P E	069.1 O VS VS	.015	94.64	246.18	6.0	USCGS C
238	20	21 21 21 41 21 59 22 38,5	50.9 36 27 38,5	22.9 S PKP E L	176.3 O VS NS NS	.007	153.10	3.43	6.2	USCGS
239	23	14 08 14 12 14 13 14 16 14 17,6 14 18,9	57.0 59 29 16 17,6 18,9	40.2 N P E S LQ LR	026.2 E VS,NS VS	.000 .000	17.54 17.6	115.39	5.5	BCIS C
240	23	19 46 19 58 19 58 20 01 20 09	02.9 39 42 43 08	16.3 N P IP E S	095.8 O VS VS NS	.000	84.70 84.6	288.90	6.7	USCGS

		20 09 23	E	NS						
		20 19 01	LQ	NS						
		20 27,7	LR	VS						
		20 34,8	MR	VS						
241	23	23 12 27.1	16.2 N	095.5 O	.000	84.60	288.61	4.5	USCGS	
		23 26 18	P	VS						
242	24	00 56 21.4	15.9 N	096.2 O	.000	85.26	288.94	5.5	USCGS	
		1 09 02	P	VS		87.7			C	
		1 19 43	/S/	NS						
		1 38,6	L	NS						
243	24	01 01 00.8	16.2 N	096.2 O	.000	85.03	289.13	5.6	USCGS	
		1 13 37,5	IP	VS		87.3			C	
		1 24 17	E	NS						
		1 47,4	L	NS						
244	24	01 11 05.1	35.7 N	023.3 E	.000	19.23	130.51	4.9	USCGS	
		1 15 34	P	VS						
245	24	07 06 50.0	21.9 S	177.3 O	.040	152.06	5.32	5.7	USCGS	
		7 26 13,6	IPKP	VS					D	
		7 26 17,7	I	VS						
		7 27 28	E	VS						
246	24	13 12 19.4	59.4 N	145.6 O	.000	68.67	344.54	5.4	USCGS	
		13 23 24	P	VS,NS		69.0				
		13 25 58	PP	NS						
		13 32 30	/S/	NS						
		13 46,0	L							
247	25	23 57 37.0	40.2 N	026.3 E	.001	17.60	115.23	4.2	USCGS	
		7,3	L	NS						
248	25	04 57 56.0	35.1 N	025.1 E	.009	20.60	128.18	4.6	BCIS	
		5 02 32,1	IPP	VS	.000	20.5			C	
		5 06 32	E	NS						

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AOUT - SEPTEMBRE

 5 08,0 L NS
 5 09,5 LM NS

249	27	18 22 18 34	02.8 17	44.6 N P	148.9 E VL	.001	80.80	25.49	5.3	USCGS
250	29	01 45 1 58	57.3 17	14.1 N P	090.5 O VL	.012	83.08	283.54	5.0	USCGS
251	29	13 57 14 16	20.2 03,3	17.7 S IPKP	178.9 O VS	.084	147.78	7.66	5.4	USCGS C
252	30	03 32 3 51	02.2 39	16.9 S PKP	167.4 E VS	.000	144.07	30.25	5.5	USCGS C
253	31	07 29 7 35 7 47,8	47.0 36,0	39.2 N IP LR	041.1 E VS VS	.001	27.35	99.16	5.4	BCIS C
254	01	04 29 4 40 4 43	21.8 12,0 09	51.3 N IP PP	150.6 E VS VS	.079 .079	75.06 75.0	21.76	5.1	USCGS D
255	02	04 26 4 38	37.3 37	51.9 N P	175.5 E VS	.000	78.39	6.23	5.7	USCGS C
256	03	17 12 17 13	54.0 33,9	49.1 N IPN	006.5 E VS	.000	1.04	134.72		BCIS C
257	04	07 48 8 00 8 00	45.1 47 58	52.0 N P *PP	170.4 O VS VS	.001 .000	78.58 79.0	357.34	5.2	USCGS
258	04	10 19	51.3	46.6 N	153.5 E	.000	80.13	21.70	5.5	USCGS

		8 59 19		PKP	VS	.000	128.3			C
		8 59 20		IPKP	VS					D
		8 01 25		PP	VS					
268	12	22 02 34.3		06.4 S	070.8 E	.000	79.36	113.17	6.1	USCGS
		22 14 43		IP	VS					D
		22 24 43		S	VS					
269	13	13 07 48.3		55.5 N	165.7 E	.000	73.85	11.51	5.4	USCGS
		13 19 33		P	VS					D
		13 56.6		LR	VS					
270	14	07 27 16.1		16.6 S	173.3 O	.010	146.86	357.69	4.8	USCGS
		7 47 18		PKP	VS					
271	16	04 10 22.6		40.4 N	125.7 O	.000	80.45	324.28	5.6	USCGS
		4 22 35		P	VS					
272	16	13 50 11.8		07.1 N	126.5 E	.023	103.78	61.03	6.0	USCGS
		14 03 57		P	VS					C
273	16	16 20 19.8		20.9 S	178.7 O	.077	150.96	7.87	5.2	USCGS
		16 39 15		PKP	VS					C
274	17	11 13 56.4		01.4 S	077.6 O	.025	86.46	263.74	6.0	USCGS
		11 26 21.0		IP	VS					
275	17	15 18 38.4		36.3 N	141.2 E	.005	85.82	34.37	5.2	USCGS
		15 31 14		E	VS					
276	17	16 21 21.9		36.3 N	141.1 E	.006	85.78	34.44	5.8	USCGS
		16 33 57		IP	VS					C
		17 06.9		LR	VS					
277	18	20 46 39.2		59.5 N	145.1 O	.000	68.49	344.32	5.3	USCGS

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SEPTEMBRE

		20	57	44	P	VS				
278	19	01 26	52.5	22.1 S	174.9 O	.000	152.34	.56	5.4	USCGS
		1 46	49	PKP	VS					
279	19	03 52	44.9	53.1 N	035.3 O	.000	25.32	293.16	4.7	USCGS
		3 58	13	P	VS					
280	19	08 10	43.0	47.5 N	008.2 E	.000	2.99	140.26	4.1	BCIS
		8 11	26.7	I	VS		3.0			C
		8 11	31	PN						
		8 11	37	P*						
		8 11	47	PG						
		8 12	08	SN						
		8 12	15	IS*						
		8 12	23	ISG						
281	21	01 38	30.2	29.1 N	128.2 E	.026	86.50	47.47	6.0	USCGS
		1 50	53	P	VS	.026	86.5			D
		1 51	44	*PP	VS					
		1 54	22	/PP/	VS					
		2 01	09	S	VS					
282	21	03 26	37.2	40.7 N	050.0 O	.000	39.23	278.32	5.3	USCGS
		3 34	09	P	VS					
		3 34	50	E	VS					
		3 35	53	E	VS					
283	22	04 24	47.8	20.8 N	099.3 E	.000	76.83	73.45	5.5	USCGS
		4 36	42	P	VS	.032				
		4 37	39	E	VS					
284	22	20 01	49.3	05.4 S	151.5 E	.004	127.32	44.27	6.5	USCGS
		20 20	51	PKP	VS					D
		20 21	03	E	VS					
		20 22	50	E	VS					
285	22	22 08	01.1	36.4 N	141.3 E	.002	85.77	34.25	5.6	USCGS

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SEPTEMBRE - OCTOBRE

		22	20	37	P	VS								
		22	20	51	E	VS							C	
		22	58,5		LR	VS								
286	25	15	47	58.4	41.3 N	074.9 E	.000	47.81	72.33	5.6	USCGS			
		15	56	41	E	VS							C	
287	25	20	09	57.0	54.7 N	036.5 O	.000	25.81	297.06	5.4	BCIS			
		20	15	25	P	VS								
		20	16	17	E	VS								
288	26	10	03	18.4	54.3 N	035.2 O	.000	25.05	295.97		USCGS			
		10	08	50	P	VS								
289	27	05	09	13.3	51.9 N	175.5 E	.001	78.39	6.23	5.5	USCGS			
		5	21	13	P	VS							C	
290	28	05	06	36.8	28.0 S	178.1 O	.000	158.04	8.25	5.2	USCGS			
		5	26	24	PKP	VS								
291	29	23	20	19.0	45.1 N	028.2 O	.000	23.07	271.10	5.4	BCIS			
		23	25	14	P	VS								
292	30	23	47	40.7	59.7 N	143.4 O	.000	68.00	343.52	4.8	USCGS			
		23	58	50	P	VS								
		23	59	18	E	VS								
293	01	08	52	05.8	50.1 N	178.3 E	.000	80.36	4.62	6.3	USCGS			
		9	04	17,1	IP	VS	.000	80.6					D	
		9	04	43,9	E	VS								
		9	07	23	PP	VS								
		9	14	27	SKS	VS								
		9	18	50	E	VS								
		9	47,1		LR	VS								
294	01	13	22	28.5	20.0 S	174.4 E	.081	148.97	20.33	6.2	USCGS			

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OCTOBRE

		13 41	17,0	IPKP	VS					
		13 41	23,8	I	VS					
		13 43	24,3	I*PPKP	VS					
295	03	14 45	26.8	49.5 N	156.5 E	.000	78.07	18.78	5.9	USCGS
		14 57	26,0	IP	VS					C
		14 57	39,7	I	VS					
		15 02	15,0	I	VS					
296	03	16 14	54.9	42.9 S	075.4 O	.000	116.03	233.90	6.0	USCGS
		16 34	41	PKP	VS					
		16 34	50	E	VS					
297	04	04 12	49.1	44.0 N	128.3 O	.000	78.25	327.78	5.1	USCGS
		4 24	51	P	VS					
298	07	09 19	21.5	17.5 S	167.9 E	-.002	144.76	29.79		USCGS
		9 38	59	PKP	VS					C
		9 39	10	E	VS					
299	10	10 21	00.7	26.3 N	128.1 E	.000	88.79	49.06	5.4	USCGS
		11 13,2		L	NS					
		11 16,7		LM	NS					
300	10	17 25	44.0	59.1 S	024.8 O	.003	111.24	196.17	5.7	USCGS
		18 21,5		L	NS					
301	12	07 27	42.1	22.9 S	171.0 E	.002	150.82	28.03	4.8	USCGS
		7 47	33,6	PKP	VS					
302	12	13 40	55.9	56.3 N	153.7 O	.000	72.90	347.98	5.3	USCGS
		13 52	29,9	P	VS					C
		13 52	46,9	E	VS					
		14 02	04	E	NS					
		14 06	46	E	NS					
		14 23,4		L	NS					

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OCTOBRE

303	13	03 53 3 58	16.7 35	71.2 N P	019.9 O VS	.000	24.42	340.42	4.8	BCIS
304	13	14 46 15 06 15 06 15 09	25.0 18 23 47	22.6 S *PPKP PKP2 PP	171.0 E VS VS VS	.000 .000	150.54 149.7	27.83	5.6 C	USCGS
305	16	14 22 14 35	55.5 11	09.0 N P	083.5 O VS	.003	82.43	274.97	5.0	USCGS
306	16	20 01 20 13 20 13 20 45,5	52.5 29 39 5	56.2 N P E L	164.7 E VS VS NS	.000	73.03	11.91	5.3	USCGS
307	16	22 14 22 33 22 34 23 31,5	15.3 53 05 5	15.1 S PKP E L	173.5 O VS VS NS	.002	145.37	358.10	5.3	USCGS
308	17	01 53 2 12 2 12 2 59,3	42.7 51 57 3	08.0 S PKP E L	155.9 E VS VS NS	.009	131.56	40.66	5.5	USCGS
309	17	03 55 4 14 4 15 4 15	15.4 53 17 27	15.7 S PKP E E	173.8 O VS VS VS	.003	145.97	358.59	5.5 C	USCGS
310	20	11 08 11 20 12 00,3	11.1 15 3	51.6 N P L	173.8 O VS NS	.000	79.04	359.48	5.4 C	USCGS
311	21	23 54 7 03 7 12	29.9 3 12	12.5 N P E	087.4 O VS VS	.006	82.31	280.19	5.4 C	USCGS

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OCTOBRE

		31.1		L	NS					
312	23	06 00 6 12	48.5 42	53.8 N P	165.5 O VS	.000	76.55	354.45	5.5	USCGS
313	24	12 16 12 17 12 18 12 18 12 18 12 18 12 18	57.0 56 05 09 39 51 54	46.3 N PN IP* IPG ISN S* E	007.4 E VS VS VS VS VS,NS VS	.000	3.79 3.9	158.28	5.1	BCIS
314	24	18 15 18 27 18 29	04.9 03.5 55	49.7 N IP E	156.1 E VS VS	.000	77.80	18.97	5.7	USCGS
315	24	20 26 20 39	15.3 52	20.1 N P	122.2 E VS	.000	90.82	57.02	4.9	USCGS
316	24	21 09 21 28	44.3 35	17.7 S PKP	178.5 O VS	.075	147.81	6.95	4.7	USCGS
317	25	08 38 8 58	30.6 27	22.2 S PKP	170.3 E VS	.000	149.95	28.80	5.0	USCGS
318	25	22 34 22 46 22 46 22 46 22 47 22 49 22 49 22 56 22 56 22 56 22 56 23 20.8	24.3 16 18.0 26.0 03.0 13 19 10 18 46 58 20.8	44.2 N P IP IPCP I*SP E PP S E E SP LR	145.3 E VS VS VS VS VS VS VS VS VS VS VS	.023 .020	80.11 80.1	28.05	6.2	USCGS C

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OCTOBRE - NOVEMBRE

319	26	10 21	46.1	20.1 S	168.8 E	.001	147.51	29.97	5.2	USCGS
		10 41	29,0	IPKP	VS					C
		10 41	42,0	E	VS					
		10 41	47,2	E	VS					
320	29	21 00	00.1	52.4 N	179.2 E	-.005	77.92	3.86		USCGS
		21 12	05,5	IP	VS					D
321	30	06 57	39.7	16.5 S	173.3 O	.000	146.76	357.69	5.3	USCGS
		7 17	24	PKP	VS					D
		7 17	38	E						
322	31	15 02	51.9	19.5 S	176.3 O	.000	149.72	3.14	5.5	USCGS
		15 22	44	PKP	VS					C
		15 22	54	E	VS					
		15 23	01	E	VS					
323	31	23 12	27.1	38.0 N	072.5 E	.005	48.24	77.38	5.2	USCGS
		23 21	06	P	VS					
324	03	07 53	13.0	58.3 N	032.4 O	.000	23.47	305.63	4.8	USCGS
		7 58	24	P	VS					D
325	03	07 57	34.9	58.4 N	032.2 O	.000	23.37	305.91	4.8	USCGS
		8 02	40	P	VS					
		8 02	51	I	VS					
326	03	08 33	51.6	58.1 N	032.1 O	.000	23.29	305.16	4.8	USCGS
		8 39	04	P	VS					C
327	08	01 57	32.0	28.2 N	056.7 E	.000	44.31	99.55		BCIS
		2 05	36	P	VS					D
328	09	11 46	07,0	IPN	VS		2.0			D
		11 46	09,8	E	VS					

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		11 46	11,8	PG	VS					
		11 46	37,5	SG	VS					
329	09	15 35	01.0	44.4 N	010.3 E	.000	6.39	146.46	4.2	BCIS
		15 36	45,0	PN	VS					D
		15 38	00,5	E	VS					
		15 38	25,6	E	VS					
		15 38	32,8	E	VS					
		15 38	53	LR	VS					
330	10	10 34	03	PN	VS					
331	10	11 27	21	PN	VS					
332	11	01 32	59.3	22.8 S	172.6 E	.005	151.20	25.08	5.4	USCGS
		1 52	43	PKP	VS					
333	11	02 51	25.0	60.7 S	154.0 E	.000	159.21	133.58	5.1	USCGS
		3 11	23	PKP	VS					
334	11	11 52	28.0	46.3 N	007.4 E	.000	3.79	158.28		BCIS
		11 53	27,2	IPN	VS		3.6			C
		11 54	26,2	ISG	VS					
335	12	02 04	19.5	56.0 S	121.5 O	.000	147.96	238.18	4.9	USCG
		2 24	10	PKP	VS					
336	12	17 52	24.1	30.5 N	140.2 E	.001	90.57	37.75	6.6	USCG
		18 05	25	P	VS	.000				C
		18 09	02	E	VS					
		18 15	27	E	VS					
		18 46	00	LR	VS					
337	13	04 33	53.0	43.8 N	087.8 E	.004	54.05	62.49	6.3	USCG

NOVEMBRE

4	43	16	P	VS	.000	54.0				
4	43	17,6	IP	VS						C
4	43	30	*PP	VS						D
4	43	37	*SP	VS						
4	45	18	PP	VS						
4	45	32	*PPP	VS						
4	46	34	PPP	VS						
4	46	50	*PPPP	VS						
4	50	56	/S/	VS						
4	54	28	SS	VS						
4	58	48	LR	VS						
5	00	58	MR	VS						
5	02	45	MR	VS						

338	13	17 59	41.7	29.4 S	068.1 O	.002	102.10	238.87	5.9	USCGS
		18 17	44	PKP	VS					

339	14	05 54	16.7	36.8 N	140.8 E	.005	85.23	34.43	5.9	USCGS
		6 06	49	P	VS					
		6 07	03	E	VS					

340	16	15 24	43.0	31.3 N	041.4 O	.000	39.32	259.83	6.0	BCIS
		15 32	16,0	IP	VS					D
		15 33	59,7	E	VS					
		15 38	27	/S/	VS					
		15 39	06	E	VS					
		15 41	30	LR	VS					

341	16	17 05	37.9	25.4 N	125.2 E	.007	88.08	51.73	6.0	USCGS
		17 18	16	P	VS					D

342	16	23 35	08.0	48.1 N	153.2 E	.011	78.66	21.36	5.0	USCGS
		23 47	02,0	IP	VS					D

343	18	20 00	19.0	18.8 S	177.9 O	.061	148.95	6.03	5.6	USCGS
		20 19	22,2	I	VS	.060	141.0			D
		20 19	26,6	IPKP2	VS					
		20 21	03,6	I*PPKP	VS					
		20 21	08,0	I	VS					
		20 22	13	E	VS					

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344	18	21 58	12.4	53.9 N	160.7 E	.000	74.66	14.85	6.0	USCGS
		22 09	55	P	VS					D
		22 10	06.1	I	VS					
		22 10	37	E	VS					
345	19	07 14	13.2	45.3 N	150.9 E	.000	80.69	23.89	5.6	USCGS
		7 26	31	P	VS					C
346	20	03 47	52.4	15.4 S	174.5 O	.000	145.68	359.80	5.2	USCGS
		4 07	40	PKP	VS					
347	20	08 56	00.2	43.8 N	087.7 E	.000	53.99	62.54	5.0	USCGS
		9 05	39	P	VS					
348	21	04 57	56.0	50.0 N	079.0 E	.000	45.60	60.10	6.0	BCIS
		5 06	20.2	IP	VS					
349	21	10 31	49.7	06.1 S	130.4 E	.009	116.68	65.77	6.3	USCGS
		10 50	27	PKP	VS	.009	116.7			C
		10 51	36	E	VS					
		10 51	42	PP	VS					
		10 51	45	E	VS					
		10 57	42	E	VS					
		11 00	59	E	VS					
350	21	22 11	58.8	50.2 N	029.1 O	.000	22.06	284.26	4.5	USCGS
		22 16	46	P	VS					
		22 16	58	E	VS					
351	22	20 25	30.4	51.3 N	179.8 O	.001	79.24	3.31	5.9	USCGS
		20 37	35	P	VS					
		20 37	53	E	VS					
352	22	20 39	48.0	51.4 N	179.9 O	.000	79.14	3.37	5.4	USCGS
		20 51	56	P	VS					
353	23	02 17	49.4	51.4 N	179.7 O	.002	79.15	3.24	5.6	USCGS

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NOVEMBRE - DECEMBRE

		4	29	53	P	VS						
354	25	22 35	37.2	03.9 S	150.3 E	.066	125.45	44.75	5.5	USCGS		
		22 53	49.8	*PP	VS					D		
355	28	05 26	05.0	36.1 N	027.7 E	.009	21.23	121.85	6.2	BCIS		
		5 30	46.2	IP	VS	.009	21.2			C		
		5 30	57.9	I	VS							
		5 31	08.2	I/PP/	VS							
		5 31	21.3	I/PPP/	VS							
		5 31	29.3	I	VS							
		5 34	33	S	VS							
356	28	5 38	19.3	P	VS							
357	29	09 00	08.3	45.1 N	146.5 E	.019	79.65	26.87	5.3	USCGS		
		9 12	03	P	VS							
358	30	08 55	54.9	50.4 N	029.7 O	.000	22.39	284.99	4.3	USCGS		
		9 00	54	P	VS							
359	02	23 38	13.3	15.3 S	173.1 O	.000	145.56	357.41	5.5	USCGS		
		23 57	55	PKP	VS							
360	03	06 45	02.5	20.4 S	174.2 O	.000	150.65	359.20	5.4	USCGS		
		7 04	56	PKP	VS							
361	03	15 25	11	P	VS							
362	03	21 17	33.6	36.3 N	069.5 E	.000	47.35	81.16	5.5	USCGS		
		21 26	21.2	IP	VS					C		
363	04	02 11	49.9	51.3 N	170.6 O	.000	79.28	357.43	5.5	USCGS		

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		2 23	59	P	VS					
		2 24	04	E	VS					
		2 24	13	E	VS					
364	04	16 40	01.0	34.3 N	026.2 E	.000	21.79	127.58		BCIS
		16 44	54	P	VS					
		16 45	21	E						
365	05	18 14	50.2	52.6 N	173.2 E	.000	77.51	7.58	5.5	USCGS
		18 26	45,9	P	VS					C
366	06	11 34	53.7	18.9 N	107.1 O	.001	89.37	298.97	5.9	USCGS
		11 47	54,8	P	VS					C
367	07	22 19	14.8	06.4 S	146.3 E	.012	125.70	50.52	6.4	USCGS
		22 38	07,5	PKP	VS					D
368	08	18 05	26.1	37.1 S	177.5 E	.021	166.03	27.06	5.8	USCGS
		18 26	13	E	VS					
369	09	06 07	48.6	17.3 N	100.0 O	.004	86.48	292.66	6.0	USCGS
		6 20	29,9	IP	VS	.004	86.5			D
		6 20	48,9	E	VS					
		6 23	48	PP	VS					
		6 24	49	E	VS					
		6 57	27	LR	VS					
370	09	13 12	55.5	18.0 S	178.2 O	.097	148.13	6.46	5.6	USCGS
		13 31	32,6	IPKP	VS					D
		13 34	01	E	VS					
371	09	13 25	40.7	17.7 S	178.3 O	.097	147.83	6.60	5.1	USCGS
		13 44	17,8	IPKP	VS					D
372	12	19 25	09.1	50.3 N	149.5 E	.063	75.71	22.83	4.9	USCGS
		19 36	12	P	VS					

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DECEMBRE

373	13	05 45 6 57	12.7 41	44.1 N P	150.2 E VS	.000	81.62	24.81	5.4	USCGS
374	13	10 52 11 04 11 04 11 44	08.5 23.0 36.4 37	44.7 N IP I LR	150.1 E VS VS VS	.000	81.04	24.65	5.7 C	USCGS
375	13	14 46 14 58	10.2 26	44.7 N P	150.2 E VS	.000	81.06	24.58	5.4	USCGS
376	13	22 53 23 05	17.1 30	44.7 N P	149.9 E VS	.000	80.98	24.79	5.0	USCGS
377	14	17 27 17 39 17 39	01.7 38 43	25.9 N P E	109.7 O VS VS	.000	85.21	305.05	4.9	USCGS
378	15	12 07 12 07	14.0 35.1	50.5 N IPG	004.1 E VS	.000	1.06	309.52		BCIS D
379	15	13 42 13 42	00.0 36	50.5 N SG	004.1 E VS	.000	1.06	309.52		BCIS
380	15	14 02 14 02 14 02 14 02	13.0 35.0 49.0 49.8	50.5 N IPG SG S*	004.1 E VS VS VS	.000	1.06 1.08	309.52	3.5 D	BCIS
381	15	15 16 15 16	35.0 56.5	50.5 N PG	004.1 E VS	.000	1.06	309.52		BCIS
382	15	23 05 23 17	20.7 48.0	07.5 N P	082.2 O VS	.000	82.72	273.01	6.0 D	USCGS

		23 17	54.1	I		VS					
		23 17	58.9	I		VS					
383	16	23 06	42.4	17.5 S		179.1 O	.083	147.56	7.99	5.5	USCGS
		23 25	27.0	IP		VS					C
384	17	03 57	37.0	51.3 N		007.5 E	.000	2.00	41.81	3.2	BCIS
		3 58	22	PN		VS					
		3 58	59	SN		VS					
385	18	09 22	25.0	44.2 N		022.0 E	.000	12.66	110.11	4.3	BCIS
		9 24	21	PN		VS		6.1			
		9 24	29	E		VS					
		9 24	32	E		VS					
		9 25	32	SN		VS					
		9 25	55	S*		VS					
		9 26	22	E		VS					
		9 26	25	E		VS					
386	20	00 08	11.0	39.9 N		025.0 E	.000	17.04	118.19	6.2	BCIS
		12 12		P		VS					C
		12 21		E		VS					
		12 31		E		VS					
		16 30		E		VS					
		17 08		LR		VS					
		18 50		LR		VS					
		19 49		LM		VS					
387	20	07 12	33.7	50.4 N		156.6 E	.000	77.24	18.42	5.1	USCGS
		7 24	29	P		VS					
388	21	00 32	00.7	52.6 N		158.8 O	.005	77.16	350.18	5.0	USCGS
		43 41.2		IP		VS					
389	21	08 41	00.4	16.8 N		098.0 O	.003	85.66	290.85	5.0	USCGS
		8 53	49	P		VS					
390	21	10 00	02.0	50.7 N		005.5 E	.000	.87	5.00	4.4	BCIS

		10 00	18,0	IPG	VS							
		10 00	18,9	IPN	VS		.84				C	
		10 00	28,9	ISG	VS							
		10 00	30,0	I	VS							
		10 00	30,7	I	VS							
391	22	00 28	46.2	52.4 N	160.5 E	.000	76.07	15.41	5.1	USCGS		
		40 39		P	VS							
		40 49		E	VS							
392	22	07 27	20.8	52.5 N	160.2 E	.000	75.92	15.56	5.1	USCGS		
		7 39	08,1	P	VS							
393	22	19 41	23.0	58.4 N	153.0 O	.003	70.77	348.14	6.5	USCGS		
		19 52	37,6	P	VS	.003	71.0			C		
		19 52	51,7	*PP	VS							
		19 52	58,4	PCP	VS							
		19 56	58	PPP	VS							
		20 01	48	S	VS							
394	23	15 29	07.0	40.5 N	014.9 E	.045	11.49	140.72		BCIS		
		15 31	46	P	VS							
395	23	20 47	37.5	60.5 N	141.0 O	.000	66.80	342.64	5.4	USCGS		
		21 58	28,4	P	VS					C		
396	25	02 57	57.9	18.0 S	179.2 O	.093	148.05	8.25	5.5	USCGS		
		3 16	37,5	IPKP	VS					D		
		3 18	56	E	VS							
		3 19	01	E	VS							
397	25	19 20	45.1	18.1 S	179.1 O	.092	148.16	8.09	5.4	USCGS		
		19 39	24,7	IPKP	VS					C		
398	25	20 46	43.6	18.1 S	179.1 O	.092	148.16	8.09	4.4	USCGS		
		21 05	23	P	VS					D		

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399	26	03 53 4 12	16.6 09	05.5 S P	151.4 E VS	.016	127.36	44.44	6.0	USCGS
400	28	20 32 20 45	24.7 41	27.8 N P	141.8 E VS	.000	93.60	37.73	5.9	USCGS
401	28	22 04 22 17	52.0 43	03.2 S P	077.2 O VS	.000	87.57	262.28	5.5	USCGS
402	30	02 06 2 18	31.1 22	54.1 N P	164.3 O VS	.000	76.17	353.76	5.6	USCGS