

**OBSERVATOIRE ROYAL DE BELGIQUE**

**KONINKLIJKE STERRENWACHT VAN BELGIE**

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**BULLETIN D'OBSERVATIONS : SEISMOLOGIE**

**WAARNEMINGSBERICHTEN : SEISMOLOGIE**

# **BULLETIN SEISMIQUE**

**Station:Uccle**

**ANNEE 1961**

**Section - Géodynamique  
Sectie - Géodynamica**

**Juin 1970**

## OBSERVATOIRE ROYAL DE BELGIQUE

## BULLETIN SEISMIQUE

Année 1961

## 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 1961, 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 <sup>s</sup> ,22 et 4 <sup>s</sup> ,23	7 <sup>s</sup> ,35	7 <sup>s</sup> ,38 et 7 <sup>s</sup> ,36
$\frac{r}{T^2}$ :	0,067 et 0,079	0,021 et 0,019	0,021 et 0,023
$\epsilon$ :	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 1961, la température a varié entre 15,0° et 18,5° C et le degré d'humidité a été maintenu à 60 %.

*Analyse des séismogrammes et bulletins.* - En 1961, 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.

## EXEMPLE EXPLICATIF DES TABLEAUX

 STATION  
ANNEE

MOIS

N°		HEURE ORIGINE	$\phi$	$\lambda$	$h$	$\Delta_c$	$\alpha_c$	$M$	CENTRE INTERNATIONAL (1)
		HEURES	PHASES	COMPOSANTES	$h_o$	$\Delta_o$	$\alpha_o$	T	REMARQUES $A_\mu$ (2)
135	2	00 39 22,0	53,0 N	168,5 W		76,3	355,6	6,5	U.S.C.G.S.
		01 20	LM	E*					
136	2	2 17 35,0	52,5 N	168,0 W		76,8	355,2	6,9	U.S.C.G.S.
		2 29 34	P	Z*, N*	O	76,5			
		2 39 30	S	N*					
		3 12,5	M	E*				18,0	+ 750

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

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

## LISTE DES ABBREVIATIONS

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

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1	02	10 11 56.9	12.4 S	166.4 E	.020	138.96	27.30	USCGS
		10 34 36	PKS					
		10 57,8	MQ	NG				
		11 15,6	LR	NG				
		11 18,5	MR	NG				
		11 23,9	LM	NG				
2	05	14 06 25.9	51.6 N	176.3 O	.001	77.88	.42	USCGS
		14 18 16	P	VG	.001	78.0		
		14 18 26	*PP	VG				
		14 21 28	*PPP	NG				
		14 23 22	*PPPP	NG				
		14 28 12	S	EG,NG				
		14 28 34	SKS	EG,NG				
		14 28 53	PS	NG				
		14 29 18	PPS	NG				
		14 33 22	*SSS	EG				
		14 36 26	SSS	NG				
		14 37,7	LQ	NG				
		14 43,7	MR	NG				
		14 49,0	LM	EG				
14 51,4	M	NG						
3	05	15 53 56.0	04.1 S	153.0 E	.012	126.48	40.21	USCGS
		16 13 58	PKP	NG	.012	126.5		
		16 14 54	PP	VG				
		16 17 34	PPP	NG				
		16 24 52	PS	NG				
		16 53,2	LM	EG				
4	05	17 57 56.5	21.2 S	169.3 E	.014	148.14	27.34	USCGS
		18 17 29	PKP2	VG	.014	148.1		
		18 21 58	PP	VG,NG				
		18 33 48	PPS	EG				
		18 39 58	SS	EG				
		18 41 04	/SSP/	EG				
		18 40 58	PSS	EG				
		18 45 38	SSS	EG,NG				
		19 14,5	LR	NG				
		19 17,9	MR	NG				
5	05	18 14 43.0	21.0 S	169.1 E	.014	147.90	27.56	USCGS
		18 34 22	PKP2	VG				
		18 37 52	PP	VG				
		19 33,1	M	EE				
		19 37,7	M	NE				



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19 48,4 M VG

 6 07 10 30 58.0 35.9 N 027.0 E .000 22.05 123.76 USCGS  
 10 39 38 E NG

 7 07 15 52 54.0 37.7 N 021.1 E -.002 17.69 131.32 USCGS  
 16 02,8 M EG

 8 07 18 16 51.2 57.2 S 025.3 O .010 110.46 196.68 USCGS  
 19 09,8 LM NG

 9 10 14 22 18.2 49.9 N 156.2 E -.001 76.74 18.24 USCGS  
 14 34 12 P VG,NG -.001 76.7  
 14 43 50 S NG  
 14 44 18 SP VG  
 14 44 46 PPS NG  
 14 56,3 LR EG  
 15 00,2 MR EG  
 15 03,9 LM EE  
 15 07,9 M EE  
 15 10,5 M NG

 10 11 11 59 55.0 51.8 N 171.0 O .002 77.61 357.06 USCGS  
 12 11 49 P NG .002 77.6  
 12 21 52 SKS NG  
 12 22 12 \*SSKS NG  
 12 22 46 /SPP/ EG  
 12 31,0 LQ EG  
 12 41,3 LM NG  
 12 46,8 M EG  
 12 59,9 M NG

 11 13 19 18 44.7 46.5 S 034.1 E .004 100.34 159.64 USCGS  
 20 11,8 LQ EG  
 20 17,6 LR NG

 12 14 16 38 55.6 53.9 N 163.7 O .001 75.10 352.73 USCGS  
 17 10,9 LR EG  
 17 19,0 LM EG

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13	15	16 44 44.8 17 04 14	20.4 S PKP	169.5 E VG	.023	147.44	26.55	USCGS
14	16	07 20 18.6 7 32 48 7 36 08 7 43 12 7 43 28 7 44 28 7 57,6 8 03,1 8 05,2 8 08,1 8 11,6 8 13,8	36.0 N P PP S /SKKS/ PS MQ MR LM M M M	141.1 E VE,EE,NE VG,EG NG NE,NG NE,VG EG EE NE,VG VE EE NE	.015 .015	85.46 86.5	33.84	USCGS
15	16	11 19 46.5 11 42 38 12 01,2 12 03,2 12 12,0	35.7 N S MR LM M	140.6 E EG,NG EG,NG EG VG	.019	85.55	34.34	USCGS
16	16	12 12 35.0 12 25 07 12 25 27 12 28 22 12 30 08 12 35 28 12 36 38 12 41 10 12 55,8 13 01,1 13 06,0	36.2 N P /*PP/ PP /PPP/ S PS SS MR M M	141.7 E VG VG VG VG EE,NE NE NE EG VE VE,NE	.011 .011	85.49 85.5	33.31	USCGS
17	16	14 04 05.3 14 46,2 14 51,8 14 57,5	36.3 N LQ LR LM	141.2 E EG EG VG	.015	85.22	33.64	USCGS
18	16	15 41 23.3 15 53 48 15 53 57 15 57 08 16 04 12	36.4 N P /PCP/ PP S	140.6 E VG,EG VG VG,NG NG	.018	84.92	34.03	USCGS

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16 09,2	L	EG
16 23,7	LR	NG
16 25,0	MR	EE
16 29,4	LM	NE, VG
16 33,9	M	VE

19	17	23 05 32.5	21.4 S	169.3 E	.000	148.33	27.46	USCGS
		24 23,8	LR	NG				
20	19	04 21 16.0	14.4 S	166.7 E	-.001	140.94	27.80	USCGS
		5 51,9	LR	EG				
21	19	05 54 25.5	21.5 S	170.3 E	.011	148.72	25.82	USCGS
		7 10,2	LR	NG				
		7 12,5	MR	EG				
22	19	17 22 16.9	49.7 N	155.8 E	-.001	76.85	18.56	USCGS
		18 05,7	LQ	NG				
23	20	17 09 15.7	56.4 N	152.3 E	.002	69.83	18.29	USCGS
		17 20 41	P	VG, NG				
		17 29 53	S	EG				
		17 34 19	SS	EG, NG				
		17 38,2	LR	NG				
		17 51,3	MR	VG				
24	22	03 24 04.5	11.9 S	166.2 E	-.002	138.42	27.36	USCGS
		3 43 28	PKP	VG	-.002	138.4		
		3 46 20	PP	VG, NG				
		3 50 36	SKS	NG				
		3 50 50	*SSKS	NG				
		4 04 28	SS	EG				
		4 05 54	/PPS/	NG				
		4 09 40	SSS	NG				
		4 20,2	L	EG, NG				
		4 29,8	LR	NG				
		4 40,7	LM	NE				
		4 43,0	M	VG				
		4 45,6	M	NG				
		4 51,0	M	VG				

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JANVIER-FEVRIER

25	23	04 48 21.4 5 29,7 5 35,3	42.9 N LQ LR	145.4 E EG NG	.002	80.60	27.88	USCGS
26	26	16 13 25.1 16 33 09 16 33 47 16 36 30 17 26,0 17 32,8 17 36,9	21.4 S PKP *SPKP PP MR LM LM	169.5 E VG VG NG EG,NG NG NG	.013 .010	148.39 148.4	27.12	USCGS
27	26	18 48 56.9 19 08 34	20.7 S PKP	169.5 E VG,NG	.011	147.73	26.72	USCGS
28	28	03 24 39.2 4 11,1	13.6 S LR	076.6 O EG	.000	94.77	254.48	USCGS
29	28	19 43 01.4 20 53,2 21 06,6	21.3 S LQ LR	169.5 E EG NG	.003	148.30	27.06	USCGS
30	31	00 48 36.5 1 00 14 1 09 16 1 09 43 1 13 56 1 17 58 1 22,3 1 29,4 1 32,8	55.8 N PCP S SP SS /SSS/ LR LM M	153.9 O NG EG NG EG NG EG EG NG	-.001 .000	72.15 72.1	347.33	USCGS
31	03	12 33 22.8 13 37,1	36.9 S LR	176.8 E EG	.042	165.07	24.16	USCGS
32	03	23 58 29	E	VG				
33	04	08 51 48.9	24.7 N	095.3 E	.020	71.75	73.14	USCGS



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FEVRIER

9 03 04 E VG,NG

34	04	19 09 12.9	24.0 N	122.7 E	-.003	87.78	53.62	USCGS
		19 51,8	MR	NG				
		19 54,6	LM	EG				
		20 03,6	M	EG				
35	05	15 38 34.0	08.0 N	082.8 O	.003	82.00	272.89	USCGS
		16 01 16	E	EG				
		16 16,7	MQ	EG				
		16 22,2	LM	EG				
		16 24,4	M	NG				
36	05	17 50 55.6	38.4 S	077.6 E	.005	109.55	127.07	USCGS
		18 37,9	LQ	VG				
		18 51,8	LR	EG				
37	06	18 15 21.6	44.8 N	149.1 E	-.002	79.89	24.64	USCGS
		18 57,2	LR	EG				
38	06	21 45 13.5	06.8 S	155.3 E	.004	129.86	38.94	USCGS
		22 04 24	PKP	NG	.000			
		22 04 34	*PPKP	EG				
		22 43,3	MQ	EG				
		22 49,1	LR	EG				
		22 55,2	LM	VG				
		23 01,4	LM	EG				
39	09	02 08 15.9	28.2 S	177.4 O	.001	157.38	4.04	USCGS
		2 28 11	PKP1	VG				
		2 28 42	/PKP2/	VG,NG				
		3 30,4	LQ	NG				
		3 34,0	LR	EG				
		3 41,3	LM	NG				
40	09	20 21 20.1	09.9 S	111.3 E	.006	108.25	83.13	USCGS
		21 25,2	L	NG				
41	10	18 51 55.0	41.5 N	006.3 O	.000	11.86	222.47	BCIS

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FEVRIER

		18 57 05	E	VG,EG					
42	11	06 12 23.2	28.8 N	139.5 E	.051	91.30	38.22	USCGS	
		6 38,3	LQ	NG					
		6 43,6	LR	NG					
		6 49,9	M	VG					
43	11	21 01 06.4	28.2 S	177.5 O	.001	157.38	4.27	USCGS	
		21 21 32	PKP2	VG,EG					
		22 23,0	LR	EG					
44	12	21 53 43.5	43.7 N	147.6 E	.002	80.50	26.07	USCGS	
		22 05 52	P	VE,NE	.000	80.5			
		22 06 02	PCP	EE,NE					
		22 06 08	*PP	NG					
		22 09 08	*PPP	EG,NG					
		22 11 22	*PPPP	NG					
		22 15 54	IS	VG,EG,NG					
		22 16 14	SCS	EG,NG					
		22 16 28	*SS	VG					
		22 16 44	SP	VG					
		22 17 13	PPS	EG,NG					
		22 21 16	SS	EG					
		22 24 40	SSS	EG					
		22 29,2	LQ	EG,NG					
		22 33,3	LR	EG					
		22 38,0	MR	VE,VG					
		22 39,8	LM	VE					
		22 44,2	M	EG					
45	12	23 26 34.4	44.0 N	147.7 E	-.002	80.26	25.89	USCGS	
		23 38 46	P	VG					
		24 05,3	LR	EG					
		24 12,6	LM	VG					
		24 19,0	M	EG,NG					
46	13	06 45 25.0	17.0 S	173.7 O	.002	146.23	356.66	USCGS	
		7 55,8	LQ	NG					
		8 01,8	LR	EG					
		8 08,6	LM	VG,NG					
47	13	16 27 20.9	43.7 N	149.6 E	-.002	81.05	24.71	USCGS	

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FEVRIER

16	39	35	P	VG,EG
17	06,2		LQ	EG
17	16,8		LR	EG
17	19,3		LM	EG

48	13	22 37	12.9	43.6 N	148.1 E	.001	80.74	25.77	USCGS
		23 14,8		LR	EG				
		23 23,6		MR	NG				
		23 28,8		LM	EG				

49	14	03 22	00.7	43.7 N	147.9 E	-.002	80.59	25.87	USCGS
		4 01,4		LQ	EG,NG				
		4 08,2		LR	NG				
		4 14,0		LM	VG				

50	15	10 45	15.9	43.7 N	147.4 E	.006	80.45	26.21	USCGS
		10 57 28		P	VG,EG	.006	80.4		
		10 57 47		*PP	NG				
		11 07 28		SKS	EG,NG				
		11 07 44		*SSKS	NG				
		11 13,8		L	EG,NG				
		11 24,2		LR	EG				
		11 31,6		LM	NG				
		11 35,7		M	EG				
		11 38,1		M	VE				

51	16	03 44	58.8	41.1 N	019.4 E	.017	14.23	127.17	USCGS
		3 52,6		LM	NG				

52	16	13 54	53.7	43.2 N	148.0 E	.006	81.08	25.99	USCGS
		14 07 02		P	VG,EG	.006			
		14 07 19		*PP	NG				
		14 33,6		LR	EG				
		14 40,9		LM	NG				
		14 46,5		M	VG				

53	18	01 04	07.2	44.4 N	148.0 E	.003	79.97	25.53	USCGS
		1 45,3		MR	EG				
		1 52,4		LM	NG				
		1 55,9		M	EG				

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54	18	12 05 36.3 12 25 28	22.7 S /PKP/	171.3 E VG	.001	150.13	24.76	USCGS
55	18	17 02 10.0 17 19 22 17 29,2 17 32,0 17 35,3	01.9 S S LQ LR LM	015.7 0 VG NG EG VG	-.002	55.27	204.64	USCGS
56	19	12 33 35.7 13 05,2 13 13,0	14.2 S LR LM	014.1 0 EG NG	-.002	66.77	199.51	USCGS
57	22	21 53 33.8 23 14,5 23 27,0	28.6 S LR LM	177.3 0 NG NG	.005	157.79	3.86	USCGS
58	23	03 23 18.5 3 32,2	35.1 N LR	027.2 E EG,NG	-.002	22.77	124.78	USCGS
59	23	04 16 24.3 4 39 20 4 56,3 5 03,2 5 04,8 5 06,7	38.4 N SKS LR MR LM M	142.8 E NG EG EG,NG VE,EG EG	.013	83.88	31.58	USCGS
60	23	21 45 50.5 21 51 22 21 57,4 22 00,8	36.9 N E LR LM	027.3 E EG,NG EG EG	-.002	21.47	121.49	USCGS
61	23	21 56 40.2 22 08,0	35.7 N M	025.9 E NG	-.002	21.64	125.95	USCGS
62	24	03 04 16.1 3 47,7 3 53,8	26.2 N LQ LR	125.7 E EG NG	.003	87.45	50.14	USCGS

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FEVRIER-MARS

3 57,7

LM

EG

63	25	15 02 04.8 15 21 40	15.5 S PKP	175.8 0 VG,EG	.005	144.77	.27	USCGS
64	26	05 48 46.3 6 59,8 7 05,4	32.9 S LR MR	111.2 0 EG EG,NG	-.001	130.35	265.28	USCGS
65	26	18 10 48.7 18 23 22 18 23 36 18 26 40 18 26 56 18 28 38 18 28 50 18 33 42 18 34 12 18 35 00 18 35 08 18 39 20 18 39 40 18 43,1 18 50,6 18 56,6 19 04,3	31.6 N P *PP PP *PPP PPP *PPPP S *SS /SSP/ PPS SS *SSS MQ LR LM M	131.2 E VE,EE,NE VG VE,EE,NE EG VG VG VG EE,VG NE EG VG EE,NE NE NE VE EE	.003 .003	85.41 85.4	43.20	USCGS
66	27	10 29 48.3 11 30,4 11 32,4 11 36,3	38.9 S LR MR LM	072.4 0 NG NG EG	.004	111.72	234.80	USCGS
67	01	14 31 27.2 15 00,5	19.0 S LR	012.2 0 NG	-.002	71.08	196.55	USCGS
68	03	06 25 37.9 7 45,7	23.0 S LQ	171.4 E EG	-.001	150.44	24.76	USCGS
69	03	22 51 11.3 23 48,2	44.4 S LR	075.2 0 EG	-.002	117.17	232.36	USCGS



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MARS

		23	53,6		MR	EG				
70	05	01	26	26.1	10.7 S	161.6 E	.010	135.82	33.06	USCGS
		2	22,7		LQ	EG				
		2	25,7		MQ	EG				
		2	34,2		LM	EG				
		2	37,6		LM	NG				
71	07	10	10	38.9	28.3 S	175.7 O	.002	157.52	.14	USCGS
		10	30	32	PKP1	VE	.002	157.5		
		10	30	40	*SPKP1	EE,NE				
		10	31	04	PKP2	VS				
		10	34	40	PP	VE				
		10	37	50	*SSKS	NE				
		11	26,3		LR	EE				
		11	35,6		LM	VE,EE				
		11	58,6		M	EE				
72	06	06	43	04.5	44.5 S	079.7 O	-.002	119.53	234.85	USCGS
		7	35,8		LR	NG				
		7	46,7		MR	EG				
73	07	19	08	36.1	38.4 S	078.1 E	-.001	109.80	126.75	USCGS
		20	08,5		LQ	EG				
		20	20,7		LR	EG				
		20	24,5		MR	NG				
74	07	19	48	41.5	28.1 S	176.0 O	.003	157.32	.82	USCGS
		20	29,8		LR	NG				
		20	33,5		MR	EG				
75	07	23	11	59.6	04.7 S	153.2 E	.009	127.10	40.29	USCGS
			10,3		LQ	EG				
			24,3		LR	NG				
			26,9		MR	EG				
76	08	13	19	12.0	21.0 S	169.0 E	.000	147.87	27.73	BCIS
		13	52,6		LR	EG				
		14	02,4		MR	NG				

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MARS

77	09	03 59 08.7 4 16 21 4 22,3 4 24,4	10.9 N S LQ LR	041.7 O EG,NG NG EG	-.001	54.69 240.02	USCGS
78	11	01 31 34.4 1 43 31 1 43 48 1 53 21 1 53 27 1 54 24 2 07,6 2 10,3 2 12,6 2 17,9	48.7 N P PCP S SKS /PS/ LQ LR MR M	154.6 E VG,NG VG EG,NG VG,EG EG EG NG EG NG	-.001 -.001	77.55 19.65 77.5	USCGS
79	11	08 41 06.0 9 08,7	11.8 N L	043.0 E NG	.000	50.02 127.12	BCIS
80	13	08 03 43.9 9 32,3 9 40,2 9 46,5	19.2 N LR MR LM	107.3 O EG NG NG	.003	88.12 298.54	USCGS
81	13	19 17 16.0 19 26 32 19 27 24 19 29,1	34.5 N /S/ SSS LR	026.6 E NG EG NG	-.002	22.93 126.74	USCGS
82	14	01 11 55.4 2 34,3	16.9 S M	176.5 O EG	.004	146.16 1.48	USCGS
83	15	10 14 55.5 11 29,3	03.3 S LR	150.6 E EG	-.002	124.75 42.47	USCGS
84	15	16 17 15.3 16 47,3 16 56,9 17 07,9	27.7 N LQ LR LM	142.8 E EG EG NG	.003	93.56 36.08	USCGS

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## MARS

85	16	13 45 35.6 14 38,4 14 44,3 14 53,6	08.2 S LR LM M	122.0 E NG EG,NG VG	.006	113.56	73.16	USCGS
86	16	18 21 12.2 19 02 21 19 18,6 19 27,2 19 32,6	08.1 S E LR MR M	122.0 E EG EG EG EG	.002	113.49	73.10	USCGS
87	17	20 11 17.4 21 12,9 21 37,3 21 43,0 21 48,9	24.3 S LR MR LM M	175.6 O EG EG EG EG	.007	153.54	359.92	USCGS
88	18	14 54 59.3 15 16 11 15 24 15 15 40 29 15 47 11 16 03,9 16 18,2 16 25,7 16 31,4 16 34,3 16 44,2	49.9 S PKP2 *PPPP SS SSS LQ LM M M L L	163.3 E VG VG NG NG EG VG NE,VG EG NG NG	.000 .000	166.43 166.4	94.36	USCGS
89	19	04 59 19.3 5 36,2 5 40,7	06.4 S L L	105.5 E EG NG	.014	101.91	85.41	USCGS
90	19	07 51 33.4 8 46,2 8 53,2	02.1 N L L	126.9 E EG NG	.004	108.16	62.47	USCGS
91	19	20 33 55.7 22 05,2	24.1 S L	176.1 O EG	.001	153.33	.93	USCGS
92	20	06 16 21.1	11.3 N	086.5 O	.004	81.81	277.84	USCGS

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MARS - AVRIL

6	39	03	*SSKS	EG
6	39	59	PPS	EG
6	44	33	*SSS	EG
6	47	25	SSS	EG
6	53,4		LR	NG
6	56,8		MR	EG

93	20	15 53	26.1	18.4 S	175.8 0	.023	147.66	.28	USCGS
		16 12	41	PKP1	VG,EG	.023	147.6		
		16 12	55	PKP2	VG				
		16 13	32	*SPKP2	VG				
		16 16	19	PP	EG				
		16 41,5		L	EG				

94	21	23 42	36.8	24.1 S	176.0 0	-.002	153.33	.73	USCGS
		1 26		PKP1	VG	-.002			
		2 40		PKP2	VG				
		26 07		*SSS	EG				
		1 04,9		LM	EG				
		1 10,7		LM	EG				
		1 14,2		M	EG				
		1 18,2		M	VG,EG				

95	24	22 57	14.3	35.7 N	140.3 E	.011	85.44	34.56	USCGS
		23 09	47	P	VG,EG				
		23 20	13	S	EG				
		23 39,5		LQ	EG				
		23 44,7		LR	EG				
		23 47,6		MR	VG				

96	25	20 58	31.7	37.4 S	050.9 E	-.002	96.94	144.43	USCGS
		21 51,6		L	EG				
		21 59,3		L	NG				

97	28	09 35	55.4	00.2 N	123.6 E	.008	107.82	66.45	USCGS
		9 54	39	PP	VE,EE	.008	107.8		
		9 56	51	PPP	VE				
		10 01	39	SKS	NE				
		10 02	03	S	NE				
		10 04	15	/SPP/	EE				
		10 29,7		L	EE				

98	01	15 18	22.8	39.6 N	077.7 E	-.002	50.79	72.60	USCGS
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AVRIL

		15 27 25	IP	EE,NE	.000	51.0			
		15 29 23	PP	EE					
		15 34 43	S	NE					
		15 46 45	M	NE					
99	19	16 12 28.7	44.2 N	148.0 E	.003	80.15	25.61	USCGS	
		16 24 39	P	EE,VE					
		16 24 56	/PCP/	NE					
100	20	21 39 07.0	15.2 S	173.7 0	-.002	144.44	356.78	USCGS	
		21 59 02	PKP1	VG					
		22 47 35	LR	NG					
101	21	20 10 38.3	47.7 N	154.6 E	-.001	78.50	19.98	USCGS	
		20 32 31	S	NG					
		20 53 25	LM	NG					
102	22	00 30 24.0	06.5 S	150.0 E	.000	127.34	44.87	BCIS	
		1 32 05	LR	EG					
103	22	19 01 34.4	02.8 S	008.8 0	-.001	54.62	196.18	USCGS	
		20 02 09	M	EG					
104	23	05 14 31.1	26.2 N	129.8 E	.012	89.40	47.02	USCGS	
		5 27 21	P	VG	.012	90.0			
		5 27 39	/PCP/	VG					
		5 30 56	PP	NG					
		5 37 41	SKS	NG					
		5 39 49	/PPS/	NG					
		5 44 13	SS	EG					
		6 01 17	LR	NG					
		6 06 35	M	NE					
105	23	09 01 41.8	44.6 N	150.2 E	.002	80.37	23.97	USCGS	
		9 13 51	P	VE					
		9 23 39	/S/	VG					
		9 24 50	PS	VG					
		9 29 33	/SS/	VG					
		9 38 26	LQ	NG					
		9 42 22	LR	VG					



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AVRIL

9 45 51

M

NE

106	23	16 51 17 03 17 35	03.6 12 40	44.5 N P M	150.1 E VG EG	.007	80.44	24.08	USCGS
107	24	12 27 13 08	39.5 09	44.5 N M	150.2 E EG	.007	80.46	24.01	USCGS
108	25	00 28 44 1 06	15.4 37 10	44.6 N PPP LR	150.0 E EG EG	.006	80.32	24.11	USCGS
109	25	01 17 1 29 1 39 1 58 2 05	42.7 50 55 54 55	44.5 N P S LR M	150.0 E VG,EG NG NG NG	.007 .007	80.41 80.4	24.14	USCGS
110	25	11 16 12 47	41.4 56	32.7 S LQ	178.5 O NG	.002	161.79	7.73	USCGS
111	26	07 38 7 51 8 01 8 10 8 20 8 26	54.1 10 11 20 08 48	44.6 N P S L LR M	149.9 E VG VG,EG NG NG EG,NG	-.002 .000	80.29 80.3	24.17	USCGS
112	26	19 32 20 19	34.2 58	44.6 N M	150.1 E EG	.003	80.34	24.04	USCGS
113	29	09 19 9 31 9 36 9 41	28.3 38 10 38	40.6 N P /PPP/ S	127.5 O EE VG EE	-.001 -.001	79.62 79.6	324.84	USCGS

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AVRIL - MAI

114	29	09 29	05.0	72.0 N	007.5 O	.000	21.91	350.16	BCIS
		9 33	54	P	EE	.000	22.0		
		9 37	52	S	EG				
		9 39	24	LR	NE				
115	29	10 45	39.1	41.8 N	104.5 E	-.002	64.46	54.56	USCGS
		11 17	58	LR	NG				
		11 19	44	LM	EG				
116	30	07 33	53.5	52.0 N	031.9 O	.001	22.48	287.27	USCGS
		7 38	49	P	NG	.001	22.5		
		7 42	57	S	NE				
		7 44	56	LR	EG				
		7 45	32	LM	EE				
117	30	11 15	19.8	44.6 N	149.7 E	.007	80.24	24.31	USCGS
		11 27	28	IP	VG	.006	80.2		
		11 53	21	LR	EG				
		11 59	27	M	NG				
118	30	14 48	11.5	15.3 S	174.4 O	-.002	144.56	357.94	USCGS
		15 07	54	PKP	VG				
		16 00	58	L	NG				
		16 03	17	L	EG				
		16 05	17	L	VG				
119	02	19 38	13.5	27.8 S	176.4 O	.003	157.02	1.72	USCGS
		21 04	07	L	NG				
		21 05	44	M	EG				
120	02	22 44	44.3	27.8 S	176.5 O	.002	157.01	1.95	USCGS
		23 04	39	PKP1	VG	.000	158.0		
		23 05	16	PKP2	VG				
		23 08	14	PKS	NG				
		23 08	52	PP	VG				
		23 11	49	SKS	EG,NG				
		23 15	45	SKKS	NG				
		23 22	12	PPS	VG				
		23 28	50	SS	EG				
		23 51	03	LQ	EG				
		23 58	24	LR	EG				
		10 12		M	NG				

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MAI

121	02	23 24	03.6	27.7 S	176.4 0	.008	156.92	1.72	USCGS
		23 43	52	PKP1	VG	.008	157.0		
		23 44	24	/PKP2/	VG				
		23 47	42	/PKS/	EG				
		23 48	20	PP	VG,EG				
		23 51	06	SKS	NG				
		23 55	03	SKKS	NG				
		23 55	49	SKKKS	VG				
		1	31	PPS	VG				
		8	06	SS	VG				
		14	22	SSS	EG				
		30	33	L	VG				
122	03	00 26	17.0	01.0 N	026.4 0	-.002	56.06	218.03	USCGS
		36	16	/P/	VG	-.002	56.1		
		38	10	PP	VG				
		43	53	S	VG				
		49	39	SSS	VG				
		52	28	LR	VG				
		58	28	M	VG				
123	03	00 26	17.0	01.0 N	026.4 W	-.002	56.06	218.03	USCGS
		49	10	E	VE				
124	05	13 43	21.7	27.8 S	176.1 0	.008	157.02	1.04	USCGS
		14 03	11	PKP	VG	.008	157.0		
		14 10	23	SKS	EG				
		14 27	21	SS	EG				
		15 02	23	LR	EG				
		15 05	59	LM	EG				
		15 18	05	M	VG				
125	06	16 04	33.1	37.4 N	011.2 E	-.001	14.26	157.37	USCGS
		16 12	02	LM	EG				
126	06	19 38	04.6	01.2 S	015.5 0	-.002	54.54	204.63	USCGS
		19 55	19	S	NG				
		20 03	01	LR	EG				
		20 06	14	LM	NG				
		20 07	15	M	VG				

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MAI

127	07	00 25 1 22 1 34	40.8 33 19	06.1 S LQ LM	154.4 E EG NG	.014	128.86	39.63	USCGS
128	07	10 22 11 17	43.7 34	05.8 N M	126.8 E EG	.009	105.05	60.41	USCGS
129	07	15 40 15 52	52.5 06	71.2 N LM	007.1 O EG	.005	21.12	349.72	USCGS
130	08	19 23 20 02 20 17 20 20	35.4 51 19 44	24.3 S E LM M	069.7 O EG EG NG	.002	99.04	242.64	USCGS
131	11	08 38 9 07 9 33 9 40	27.1 11 52 27	37.2 S E LR M	073.6 O NG VG VG	.002	111.08	236.78	USCGS
132	13	14 52 15 11 15 41 15 59 16 41	55.3 39 55 28 25	17.5 S PKP /SSS/ LR M	178.8 O VG,EG NG NG VG	.082	146.66	5.49	USCGS
133	14	15 08 15 16 15 18	04.2 09 11	67.7 N L L	018.4 O VG NG	.000	20.31	334.89	USCGS
134	14	15 38 15 42 15 46 15 47 15 49	07.5 50 43 56 27	67.7 N P S LR LM	018.4 O EG VG,NG NG NG	-.002	20.31	334.89	USCGS
135	16	21 45 21 58	24.0 11	30.0 N P	132.0 E VG,EG	-.002 -.002	87.14 87.1	43.41	USCGS

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MAI

22 08	47	S	VG
22 09	43	PS	VG
22 24	21	LR	VG
22 32	44	LR	VG
22 33	40	M	EE

136	17	19 29	19.3	52.0 N	173.9 E	-.002	77.10	6.60	USCGS
		19 41	15	P	VE,EE,VG	-.002	77.1		
		19 41	27	PCP	NE,VG,EG				
		19 44	13	PP	NE,EG				
		19 45	57	PPP	EG				
		19 51	01	S	EG				
		19 51	16	/SKS/	NE,VG				
		19 51	42	PS	VG				
		19 51	57	PPS	EG				
		19 56	04	SS	EG				
		19 59	20	/SSS/	NG				
		20 01	49	LQ	EG				
		20 05	24	LR	NG				
		20 10	26	LM	VG				
		20 17	28	M	VG				

137	18	23 10	13.7	38.2 S	073.4 W	-.002	111.72	235.94	USCGS
		6 16		L	NG				
		10 26		L	NG				

138	19	09 25	26.6	11.3 N	088.3 O	.000	82.94	279.21	USCGS
		10 05	23	L	EG				

139	19	16 37	28.9	24.1 N	123.4 E	.006	88.05	53.03	USCGS
		17 14	02	LQ	NG				
		17 18	12	L	NG				
		17 24	23	LR	VG				
		17 30	46	M	VG				

140	22	13 44	35.8	21.3 S	174.4 O	.010	150.53	357.65	USCGS
		14 04	21	PKP2	VG				
		15 07	36	LR	EG				
		15 12	26	LM	NG				
		15 26	06	LM	NG				

141	22	17 32	21.0	22.8 S	176.1 O	.000	152.04	.90	USCGS
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MAI

		17 52	14	PKP1	VG	.000	152.0		
		17 55	58	PP	NG				
		18 15	18	SS	EG				
		18 44	16	LR	NG				
		18 51	06	LR	EG,NG				
		18 57	46	LM	EG				
		18 58	23	LM	NG				
142	23	02 45	18.8	36.8 N	028.7 E	.006	22.30	119.47	USCGS
		2 50	12	P	VE,EE,NE	.000	22.3		
		2 50	28	*PP	EG,NG				
		2 50	51	PPP	EG				
		2 54	18	*SS	EE,VG,EG				
		2 54	39	/SS/	VE				
		2 55	32	LR	VG				
		2 57	33	LM	EG				
		2 58	18	LM	NE				
143	23	03 40	26.1	09.8 N	084.0 O	.016	81.38	274.97	USCGS
		3 52	34	P	VG,EG				
		4 24	06	LR	EG				
144	23	16 44	59.4	12.6 N	087.3 O	.017	81.32	279.29	USCGS
		17 00	15	PP	EG				
		17 04	40	E	EG				
		17 08	41	SP	EG				
		17 09	06	/PPS/	VG				
		17 17	23	LQ	EG				
		17 25	24	LR	EG				
145	25	13 11	42.0	37.0 N	026.9 E	.000	21.18	121.96	BCIS
		13 24	04	M	EG				
146	27	07 18	12.2	41.0 N	142.1 E	.019	81.30	30.95	USCGS
		8 01	52	LM	NG				
147	29	07 28	11.7	39.0 S	073.4 O	-.004	112.32	235.36	USCGS
		8 29	06	LM	EG				
		8 34	50	M	EG				
148	29	10 52	01.2	10.6 N	039.4 E	-.002	49.30	131.92	USCGS

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MAI - JUIN

		11 11	45	E	NG				
		11 16	52	L	EG				
149	29	19 26	05.5	10.4 N	040.0 E	.003	49.76	131.36	USCGS
		19 41	58	S	EG				
		19 48	05	LQ	EG				
		19 48	41	LR	NG				
		19 53	31	M	EG				
150	31	14 17	43.8	29.8 N	114.0 O	.006	83.00	309.64	USCGS
		14 50	52	LQ	EG				
		15 00	38	LR	EG				
		15 01	42	LM	VG				
		15 04	12	M	NG				
151	31	19 15	57.0	05.3 S	151.6 E	.004	126.97	42.42	USCGS
		20 10	02	LQ	EG				
		20 21	05	LR	NG				
		20 33	24	LM	VG				
152	01	10 02	42.0	19.3 N	069.3 O	-.002	64.94	270.20	USCGS
		10 33	27	L	NG				
153	01	23 29	21.2	10.3 N	039.8 E	.000	49.75	131.65	USCGS
		23 38	14	P	VG	.000	50.0		
		23 39	39	PCP	EE				
		23 40	15	PP	VG				
		23 41	12	PPP	EG				
		23 45	32	*SS	NG				
		23 45	48	PPS	NG				
		23 48	59	SS	NG				
		23 52	33	LR	NE				
		23 57	17	M	EG				
154	02	04 51	14.8	10.3 N	039.8 E	.000	49.75	131.65	USCGS
		5 00	07	IP	NG	.000	50.0		
		5 02	04	PP	NG				
		5 03	07	PPP	VG				
		5 07	19	S	EE,NE				
		5 07	38	/PS/	EG				
		5 09	59	SCS	NG				
		5 10	53	/SS/	NG				

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JUIN

		5 12 21	/SSS/	EG					
		5 13 20	L	NG					
		5 14 15	L	VG					
		5 18 25	LM	NE					
		5 24 05	M	VE					
155	03	01 13 25.4 1 51 57	56.3 N M	164.8 E NG	-.001	71.95	11.30		USCGS
156	03	06 16 16.7 6 28 42	39.0 N LM	032.2 E NG	.002	22.81	110.34		USCGS
157	03	15 20 30.9 15 42 15 15 56 15	10.6 N LQ M	039.8 E NG NG	.000	49.49	131.46		USCGS
158	04	07 33 06.0 7 42 49 7 44 58 7 46 42 7 50 45 7 51 01 8 00 51 8 04 11	34.1 N IP PP /PPP/ S PPS LR M	082.0 E VE,EG EG EG EG EG NE NG	-.001 -.001	56.97 57.0	75.00		USCGS
159	04	13 51 29.9 14 22 05	33.9 N LM	082.1 E EG,NG	-.001	57.16	75.11		USCGS
160	05	03 30 56.0 3 49 02 3 55 14	27.9 N LQ LR	055.1 E EG NG	-.001	44.30	101.36		USCGS
161	07	14 15 18.9 14 25 13 14 33 13 14 37 05 14 39 27 14 41 00 14 44 22 14 48 49	05.4 S IP IS SS SSS LQ LR M	011.6 O NE,EG,NG EG,NG NG VG VG NG EG	-.003 -.003	57.69 58.0	198.89		USCGS

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JUIN

162	10	08 52 9 36	05.4 05	08.5 N LR	103.3 0 EG	.000	94.33	289.05	USCGS
163	10	20 31 21 02 21 09 21 22	50.9 51 12 53	24.2 S PS /SS/ L	112.1 0 EG EG EG	.002	124.91	273.91	USCGS
164	11	05 10 5 18 5 20 5 25 5 25 5 28 5 29 5 31 5 35	26.3 33 16 10 25 43 55 35 29	27.9 N P PP *SS /PPS/ /SS/ LQ LR M	054.6 E VE,EE VG VG EG EE,NE,VG EG VG VG	.001 .001	43.98 44.0	101.81	USCGS
165	11	12 30 12 38 12 40 12 45 12 45 12 48 12 51 12 56 13 00	23.5 35 18 08 30 58 18 13 18	27.8 N P PP S /PPS/ /SSS/ LQ LR M	054.4 E VG,EG EG VG VG,EG EG EG VG VG	.000 .000	43.93 44.7	102.09	USCGS
166	13	21 37 21 57	55.0 35	21.5 S PKP	176.4 0 EE	.018	150.74	1.45	USCGS
167	14	20 32 20 41 20 43 20 48 20 51 21 01	21.6 14 12 24 18 03	10.5 N P PP /S/ L M	039.9 E VG,EG EG,NG NG VG NG	.000 .000	49.62 50.0	131.41	USCGS
168	15	23 24 24 02	43.8 10	45.9 N LR	151.2 E EG	.001	79.41	22.83	USCGS

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JUIN

		24	08	27	M		NG				
169	16	07	08	16.5	41.3 S	074.5 O	-.003	114.58	234.34	USCGS	
		7	55	09	LQ	EG					
		8	01	20	LR	EG					
		8	17	44	M	NG					
170	16	10	31	56.2	08.9 N	073.4 O	.014	75.36	266.18	USCGS	
		10	43	31	IP	VE	.014	75.4			
		10	53	01	S	EG					
		10	56	09	L	VG					
		11	01	14	L	VG					
171	17	15	07	33.7	14.2 N	092.0 O	.008	83.01	283.87	USCGS	
		15	42	35	LQ	EG					
		15	48	52	LR	EG					
172	18	22	13	25.1	56.6 S	142.2 O	.000	159.45	240.52	USCGS	
		23	32	35	LR	EG					
		23	43	26	M	EG					
173	19	01	45	25.5	12.7 N	122.1 E	.002	96.77	60.42	USCGS	
		2	29	10	LR	EG					
		2	39	00	M	EG					
174	19	02	46	03.6	39.3 N	143.1 E	.001	83.16	30.98	USCGS	
		3	21	33	LQ	NG					
		3	33	23	LM	EG					
		3	38	29	M	NG					
175	19	07	38	25.0	39.3 N	143.0 E	-.001	83.13	31.05	USCGS	
		8	21	03	LR	EG					
		8	25	48	M	EG					
176	19	17	04	37.0	36.5 N	070.9 E	.026	48.53	80.17	USCGS	
		17	23	50	L	NG					



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JUIN

177	19	22 17 22 58	19.7 47	53.8 N M	161.1 E EG	.004	73.87	14.09	USCGS
178	20	03 21 3 37 3 41 3 48 3 59	34.3 50 33 33 25	12.2 N /S/ LQ LR M	044.2 E NG NG NG VG	.000	50.29	125.55	USCGS
179	21	03 57 4 40	41.1 17	15.5 N M	077.2 O EG	.004	72.77	273.56	USCGS
180	21	06 39 6 57 7 04	23.0 43 11	27.8 N L M	054.8 E NG NG	.001	44.18	101.73	USCGS
181	21	16 04 16 09 16 13 16 16	47.2 43 41 37	37.9 N P S LM	028.7 E VG NG EE	-.001 -.001	21.52 21.7	117.41	USCGS
182	21	20 25 21 10 21 13 21 20	00.9 45 51 32	07.6 S LQ LR LM	110.0 E EG NG EG	.020	105.67	82.64	USCGS
183	22	00 56 59 19 1 01 1 02 1 04	03.7 19 53 58 26	42.4 N P *SS LR M	019.3 E VG NG EG VG,NG	-.001 -.001	13.24 14.0	123.61	USCGS
184	24	05 07 5 52	55.6 04	13.4 N LM	089.9 O EG	.008	82.33	281.77	USCGS
185	25	16 46 17 10 17 39	38.6 23 17	21.8 N E M	143.5 E EG EG	.000	99.16	37.99	USCGS

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JUIN - JUILLET

186	25	19 32 20 32	14.4 01	37.9 S LM	073.3 O EG	.014	111.44	236.09	USCGS
187	26	14 47 14 59 15 09 15 25 15 35	27.3 19 09 58 55	52.2 N P IS LR M	174.7 E VG EG EG VG	.001 .001	76.96 77.0	6.07	USCGS
188	27	07 03 7 15 7 15 7 24 7 25 7 25 7 33 7 37 7 43	42.2 09 28 25 00 12 07 19 25	28.0 N P PCP S PS /SKS/ LQ LR M	099.4 E VG VG,EG EG VG EG EG VG EE	.000 .000	71.75 72.0	67.94	USCGS
189	27	21 56 23 29	01.8 57	27.7 N LR	099.6 E EG	.001	72.10	68.01	USCGS
190	29	09 22 9 42 9 45	55.8 27 21	13.9 S PKP /PP/	166.0 E VG VG	.001	140.26	28.58	USCGS
191	29	22 01 22 20 22 35	24.1 50 42	85.0 N LR M	097.8 E EG EG	.000	39.91	7.83	USCGS
192	30	05 05 5 14 5 17	20.0 45 25	34.5 N LQ LR	026.2 E EG EG	.000	22.73	127.41	BCIS
193	04	19 58 20 59,9	29.1	55.7 S LQ	147.6 E EG	.000	157.59	117.03	USCGS

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JUILLET

194	05	02 28 41.2 3 57,3 4 05,0	58.4 S M M	150.3 E EG EG	.000	158.99 124.50	USCGS
195	05	05 02 26.9 5 33,1	15.1 N MR	060.4 O EG	.004	62.47 259.99	USCGS
196	05	06 34 30.7 7 06,5	39.7 N M	078.1 E EG	.002	50.96 72.25	USCGS
197	06	16 08 20.8 16 33,1 16 36,5 16 40,3	07.0 S LQ LR M	013.1 O EG EG EG	-.003	59.56 200.19	USCGS
198	06	22 09 29.4 22 29 14 22 29 23 22 32 45 22 33 07 22 43 02 22 51 43 22 52 11 22 57 31 23 10,6 23 21,3 23 26,9 23 32,4	20.6 S PKP2 *SPKP2 PP /*PPP/ /SP/ *SSS SSP *SSSS LQ MR LM M	169.4 E VG,EG VG VG VG EG EG EG EG VG EG EG VG	-.001 .000	147.61 26.83 147.6	USCGS
199	07	13 10 43.8 13 41 43 13 43 11 13 48 27 14 14,3 14 17,3 14 18,5 14 21,8 14 23,4	05.7 S PS PPS SKKS LR MR MR M M	149.7 E EG EG EG EG EG EG VG EG	.004 .004	126.50 44.76 126.5	USCGS
200	07	17 01 51.9 17 38,9	23.9 N LQ	098.5 E EG	.000	74.28 71.40	USCGS

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JUILLET

201	07	22 19 31.6	20.2 S	169.0 E	.001	147.11	27.26	USCGS
		22 39 12	PKP1	VG				
		22 39 24	PKP2	VG				
		23 36,6	LR	EG				
		23 43,7	MR	EG				
202	08	02 35 20.5	20.2 S	168.7 E	.000	147.02	27.76	USCGS
		2 55 03	PKP2	VG				
		2 58 33	PP	VG				
		3 44,2	LQ	EG				
		3 48,7	LR	EG				
		3 52,8	LM	EG				
		3 57,5	M	EG				
203	08	03 25 23.4	20.7 S	169.1 E	.000	147.61	27.38	USCGS
		4 31,9	LR	EG				
204	08	15 08 32.6	20.2 S	169.0 E	.000	147.11	27.26	USCGS
		15 28 13	PKP	VG				
205	08	15 34 37.4	20.1 S	168.7 E	-.002	146.93	27.70	USCGS
		15 54 21	PKP1	VG,EG				
		15 54 32	PKP2	VG				
		16 48,0	L	EG				
		16 56,2	LM	EG				
		16 58,9	M	EG				
206	08	15 40 00.0	20.5 S	169.0 E	.000	147.39	27.43	BCIS
		15 59 59	PKP	VG,EG				
		17 17,4	M	VG				
207	08	21 13 59.5	20.4 S	169.5 E	.000	147.44	26.55	USCGS
		21 33 43	PKP1	VG				
		21 33 53	PKP2	VG				
		22 27,4	LR	EG				
		22 31,6	MR	EG				
		22 38,5	M	EG				
208	08	21 48 42.3	20.4 S	169.0 E	-.003	147.30	27.38	USCGS
		22 08 29	PKP1	VG				

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JUILLET

		22 08 41	PKP2	VG					
		23 13,3	M	EG					
209	09	06 32 47.5	15.6 N	087.3 O	.002	79.04	281.24	USCGS	
		7 16,2	L	EG					
210	11	09 31 42.6	08.0 N	093.1 E	-.003	83.00	85.90	USCGS	
		10 17,0	M	EG					
		10 22,0	M	VG					
		10 30,9	M	VG,EG					
211	12	02 48 48.0	39.1 N	023.4 E	.000	17.77	123.82	USCGS	
		2 58,0	M	EG					
212	13	21 44 33.4	22.9 N	122.7 E	.000	88.69	54.23	USCGS	
		22 22,5	LQ	EG					
		22 30,9	M	EG					
213	15	00 17 53.5	13.3 N	120.6 E	.006	95.45	61.28	USCGS	
		1 06,7	M	EG					
214	16	14 01 35.8	23.0 S	171.4 E	-.003	150.44	24.76	USCGS	
		15 16,3	LR	EG					
		15 20,7	MR	EG					
		15 25,7	M	EG					
215	16	20 00 08.6	34.6 S	178.4 O	.005	163.68	8.12	USCGS	
		21 10,9	M	EG					
216	16	21 08 45.6	49.5 N	155.1 E	-.001	76.90	19.07	USCGS	
		21 51,6	LR	EG					
		21 54,7	MR	EG					
217	17	01 01 09.7	16.8 N	097.6 O	.000	84.40	289.73	USCGS	
		1 44,0	L	EG					
		1 53,2	M	EG					



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JUILLET

218	17	16 20	19.1	35.8 N	141.3 E	.003	85.71	33.78	USCGS
		17 03,0		L	EG				
		17 13,4		M	VG				
219	18	14 03	36.5	29.4 N	131.6 E	-.001	87.48	44.01	USCGS
		14 16	27	PCP	VE,EE,NE	.000	88.0		
		14 16	41	*SP	VG				
		14 19	51	PP	VE,EE				
		14 21	47	PPP	VG				
		14 27	01	S	EE,NE				
		14 27	57	/SP/	NE				
		14 28	32	SPP	VG				
		14 32	51	/SS/	EG				
		14 37,6		L	EG				
		14 45,1		LR	EE				
		14 46,4		MR	NE				
		14 52,8		M	EG				
		15 00,3		M	NE				
220	18	14 34	03.1	29.7 N	131.5 E	.000	87.17	43.94	USCGS
		14 46	47	P	VG				
221	18	19 29	07.5	29.3 N	131.8 E	.000	87.65	43.91	USCGS
		20 14,3		LR	EG				
		20 16,6		MR	EG				
222	18	23 42	36.5	29.8 N	131.5 E	.001	87.09	43.89	USCGS
		29,1		LR	EG				
		33,5		MR	EG				
223	19	03 50	42.0	59.0 S	025.3 O	.001	112.16	196.02	USCGS
		4 44,7		LR	EG				
		4 49,5		MR	EG				
224	19	05 29	59.3	29.7 N	131.9 E	.002	87.35	43.64	USCGS
		6 17,1		LQ	EG				
		6 26,5		LR	EG				
225	19	06 33	18.1	29.8 N	131.7 E	-.001	87.18	43.74	USCGS

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JUILLET

7	17,3	LR	EG
7	20,7	MR	EG
7	27,7	M	VG
7	30,0	M	VG

226	19	10 35 41.4	29.9 N	131.5 E	-.002	87.00	43.84	USCGS
		11 13,6	LQ	EG				
		11 24,4	LR	EG				

227	19	11 58 43.7	29.8 N	131.5 E	-.001	87.09	43.89	USCGS
		12 43,2	LR	EG				
		12 47,4	MR	EG				
		12 51,6	M	VG				

228	19	23 00 56.7	37.9 N	020.2 E	.001	17.10	132.84	USCGS
		23 04 57	*PPPP	EG				
		23 10,3	LR	VG				
		23 11,6	MR	EG				

229	20	03 04 42.8	29.6 N	131.5 E	.000	87.26	43.99	USCGS
		3 54,4	M	EG				

230	20	06 47 43.4	10.9 N	124.8 E	.001	99.73	59.22	USCGS
		7 37,0	LR	EG				

231	20	09 02 44.9	30.4 N	131.7 E	.000	86.66	43.43	USCGS
		9 55,0	M	EG				

232	20	19 58 03.0	32.0 S	177.2 O	.002	161.18	4.11	USCGS
		21 28,1	LQ	EG				
		21 33,1	LR	EG				
		21 43,6	LM	EG				

233	21	04 32 28.2	40.5 N	030.5 O	.000	26.19	260.47	USCGS
		4 44,6	LQ	EG				

234	21	18 50 54.7	29.8 N	131.7 E	.000	87.18	43.74	USCGS
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JUILLET

		19 23,3		LQ		EG				
		19 43,3		LR		EG				
		19 47,6		LM		VG,EG				
235	21	22 39 53.2		29.8 N		131.6 E	.000	87.13	43.81	USCGS
		22 52 26		E		VG				
		23 23,3		LQ		EG				
		23 35,1		LR		VG				
		23 36,9		MR		VG				
		23 43,3		LM		EG				
236	23	14 03 39.9		18.6 S		185.2 E	.002	147.85	358.50	USCGS
		14 23 15		PKP		VG,EG	.002			
		14 23 27		*PPKP		VG				
		15 19,6		LR		EG				
		15 25,5		LM		VG				
237	23	14 16 34.3		18.4 S		168.1 E	.002	145.14	27.72	USCGS
		14 36 11		PKP		VG				
		15 35,8		LR		VG				
238	23	15 30 17.2		18.3 S		168.2 E	.000	145.08	27.50	USCGS
		16 51,8		LR		VG				
		16 53,3		M		EG				
239	23	21 51 07.5		18.5 S		168.3 E	.001	145.30	27.45	USCGS
		22 10 43		PKP1		VE,VG	.001	145.3		
		22 10 55		*PPKP1		VE,NE				
		22 11 03		*PPKP2		VG				
		22 14 09		PP		VG				
		22 14 13		PKS		EG				
		22 17 41		*PPPP		VG,EG				
		22 24 41		SP		VG				
		22 26 41		PPS		VG				
		22 32 55		SS		EG				
		22 57,7		LR		NE				
		23 04,2		MR		NE				
		23 11,6		M		NE				
		23 14,4		M		EE				
240	23	22 01 55.3		18.5 S		168.3 E	.001	145.30	27.45	USCGS
		22 21 36		PKP1		VG	.001	145.3		

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JUILLET

22	25	05	*PPP	VG,EG
22	28	01	PPP	VG
22	28	33	SKS	EG
22	37	31	PPS	VG
22	43	47	/SS/	EG
22	49	17	*SSSS	VG
23	22,4		LR	VG
23	26,5		MR	VG

241	23	23 46	18.5	18.5 S	168.2 E	-.002	145.27	27.61	USCGS
		24 05	57	PKP	VG				

242	25	18 39	24.1	00.0 N	124.7 E	.002	108.62	65.63	USCGS
		19 38,8		LM	EG				

243	27	18 35	44.2	34.9 N	025.4 E	.000	22.01	128.14	USCGS
		18 47,6		LM	EG				

244	28	01 05	30.0	02.2 S	077.1 O	.016	86.24	261.99	USCGS
		1 17	59	P	VG,EG	.016	86.2		
		1 18	34	*PP	VG				
		1 21	20	PP	VG,EG				
		1 28	09	SKS	VG				
		1 28	21	S	VG				
		1 29	20	*SSKS	EG				
		1 40,1		LR	EG				
		1 55,3		LM	EG				

245	28	06 11	38.7	18.7 S	167.7 E	.001	145.31	28.51	USCGS
		6 31	19	PKP1	VG,EG	.001			
		6 31	28	*PPKP1	VG				
		6 34	38	PP	VG				
		7 04,5		L	EG				
		7 19,5		LR	EG				
		7 34,3		LM	EG				

246	28	10 13	51.1	20.0 N	109.3 O	.001	88.57	300.54	USCGS
		10 50,2		LR	EG				
		10 55,1		LM	EG				

247	28	10 38	13.1	19.6 N	109.2 O	-.003	88.84	300.23	USCGS
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JUILLET - AOUT

		11 07,5		LM		EG				
		11 09,6		M		VG				
248	28	15 19 40.0		43.6 N		146.1 E	.000	80.17	27.13	USCGS
		15 31 33		P		VG				
249	29	16 27 19.0		24.1 S		176.1 O	-.002	153.33	.93	USCGS
		16 47 28		PKP2		VG				
		17 46,2		LR		VG				
		17 59,2		M		VG				
250	01	05 39 53.2		09.9 S		160.5 E	.003	134.68	34.09	USCGS
		5 59 11		PKP		VG				
		6 01 47		PP		VG				
		6 02 56		/PKS/		EG				
		6 35 41		LQ		EG				
		6 39 11		LQ		EG				
		6 52 26		LR		VG,EG				
		6 54 36		LR		NE				
		7 07 41		LM		VG				
251	01	07 21 12.3		57.0 S		025.1 O	.002	110.23	196.64	USCGS
		7 49 46		PS		VG				
		8 00 01		/SSS/		EG				
		8 19 30		LR		VG				
		8 21 56		LR		EG				
		8 28 16		LM		EG				
		8 46 36		LM		EG				
252	01	09 34 40.7		57.3 S		026.1 O	-.001	110.70	197.08	USCGS
		10 01 32		/S/		EG				
		10 19,9		L		EG				
		10 33,1		M		EG				
		10 33,4		M		EG				
		10 43,2		M		VG				
253	01	14 58 25.4		17.9 S		167.7 E	-.002	144.55	28.07	USCGS
		15 41,0		LQ		EG				
		15 42,6		LR		EG				
254	02	02 03 56.0		19.0 S		168.0 E	-.003	145.68	28.20	USCGS



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AOUT

2 38,6

M

EG

255	02	02 31 28.9 3 32,0	57.0 S M	024.8 O EG	.000	110.18	196.47	USCGS
256	02	03 59 29.9 4 59,5	57.8 S M	026.6 O EG	.005	111.26	197.16	USCGS
257	03	03 08 05.1 3 37,1	18.4 N L	066.3 O EG	.015	63.70	267.19	USCGS
258	03	06 51 41.1 7 50,1	03.5 S L	130.8 E EG	-.002	114.95	62.37	USCGS
259	04	18 35 20.8 18 51,7	35.0 N L	038.7 O EG	-.001	34.68	259.75	USCGS
260	04	22 52 54.0 23 35,9 23 43,1	45.2 N L M	151.2 E EG EG	.002	80.06	23.08	USCGS
261	07	04 22 20.5 4 47,5 5 18,8	02.7 S L M	121.6 E EG EG	-.003	108.97	69.95	USCGS
262	07	12 22 24.2 12 48,9 12 55,8	28.4 S L M	176.4 O EG EG	.000	157.62	1.76	USCGS
263	07	16 57 49.6 17 37,6	28.1 S L	177.4 O EG	.000	157.28	4.02	USCGS
264	08	00 18 52.3 1 44,5	28.3 S L	176.4 O EG	.000	157.52	1.75	USCGS

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AOUT

265	08	12 18 23.1 12 30 26 12 40 18 12 49 06 12 57,5 13 07,0 13 12,3 13 18,6	51.2 N P S SSS MR LM M M	170.7 O VG,EG VG VG EG VG VG EG	.000	78.20 79.0	356.83	USCGS
266	08	23 49 16.4 18,4	51.3 N L	170.8 O EG	.000	78.10	356.90	USCGS
267	09	04 02 28.2 4 48,5	40.8 N L	142.8 E EG	.003	81.71	30.55	USCGS
268	09	16 02 35.5 16 22 12 17 07,3 17 19,2 17 25,7 17 37,9	19.2 S PKP MQ LM M M	168.8 E VG,EG EG EG EG EG	.002	146.11	27.03	USCGS
269	10	00 58 38.9 1 42,0	58.7 N L	155.1 O EG	.005	69.49	348.74	USCGS
270	10	01 43 32.6 2 08,9	30.5 S L	179.7 O EG	.018	159.49	10.03	USCGS
271	10	12 05 29.8 12 44,4	43.8 N L	144.9 E EG	.003	79.63	27.85	USCGS
272	11	00 43 29.6 1 26,0 1 34,9	56.3 N L M	164.3 E EG EG	-.001	71.89	11.58	USCGS
273	11	04 27 23.3	32.5 N	131.3 E	-.002	84.68	42.67	USCGS

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AOUT

5	10,6	L	EG
5	22,2	M	EG

274	11	06 08	16.7	32.5 N	131.7 E	.000	84.85	42.37	USCGS
		6	52,9	L	EG				
		6	56,2	LM	EG				
		7	03,4	M	EG				

275	11	15 51	34.6	43.0 N	145.0 E	.004	80.39	28.12	USCGS
		16	03 38	P	VE	.003	80.5		
		16	03 42	P	EE,NE,VG				
		16	06 47	PP	VG				
		16	13 41	S	VG				
		16	19 13	/SSS/	EG				
		16	29 46	LR	VE,EE				
		16	39 06	LM	VE				
		16	43 06	LM	EE,NE				

276	11	22 37	24.7	02.9 S	122.1 E	.000	109.43	69.65	USCGS
		23	02 36	E	EG				
		23	05 46	PS	EG				
		23	34 10	LR	EG				
		23	42 23	LM	EG				

277	11	23 33	52.2	43.1 N	145.2 E	.004	80.36	27.94	USCGS
		1	36	E	EG				
		12	53	LR	EG				

278	13	06 01	01.8	24.4 N	121.7 E	.001	86.94	54.15	USCGS
		6	46,4	L	EG				
		6	50,1	M	EG				
		6	55,7	M	EG				

279	13	22 34	18.7	45.2 N	010.1 E	-.002	6.79	143.34	USCGS
		22	38,1	L	EG				

280	14	1	06,8	MR	VG				
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AOUT

281	14	18 50 55.3 20 11,8 20 21,4	24.6 S LM M	175.7 O EG EG	.006	153.83	.12	USCGS
282	14	22 04 59.7 22 48,1 22 59,1	31.6 N L M	131.5 E EG EG	-.002	85.54	42.98	USCGS
283	14	23 28 46.5 23 48 26 23 50 54 24 42,7 24 45,8 24 48,1 24 52,3	20.4 S *PPKP PP LM M M M	149.4 E VG,EG VG VG EG VG EG	.010 .010	139.02	55.12	USCGS
284	15	19 03 55.7 19 16 48 19 20 11 19 27 30 19 46,5 19 50,5 19 53,7 19 59,8	33.0 N P PP S LR MR M M	142.4 E VG VG EG EG EG VG EG	.001 .001	88.62 88.6	34.16	USCGS
285	16	16 15 57.5 16 46,7	13.9 S M	014.7 O EG	-.002	66.61	200.20	USCGS
286	17	21 16 30.1 21 28 15 21 28 56 21 37 56 21 38 58 21 46,8 21 54,0 22 08,3	46.4 N P *PP S PS LQ LR M	149.3 E VG VG EG EG EG EG VG	.020 .020	78.46 78.5	23.90	USCGS
287	19	05 09 49.5 5 21 42 5 23 56 5 26 39 5 31 38	10.8 S P *PP PPP S	071.0 O VE,EE,NE EG EG EE	.003 .010	89.19 89.2	251.91	USCGS

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AOUT

5	32	50	SP	EE,NE
5	50,0		L	EG
6	17,8		M	NS
6	20,3		M	VE

288	20	01 30	19.2	17.9 S	169.0 E	.000	144.93	26.03	USCGS
		2 54,4		LM	EG				
289	20	05 04	14.3	17.9 S	178.8 0	.087	147.06	5.53	USCGS
		5 22	56	PKP	VG	.087			
		5 25	10	*PPKP	VG				
290	21	16 06	55.4	17.9 S	174.4 0	.006	147.14	357.82	USCGS
		16 27	00	E	VG				
291	21	17 00	38.9	40.9 N	139.1 E	.001	80.38	33.05	USCGS
		17 51,9		L	VG				
292	23	04 12	35.9	38.9 N	068.7 E	-.002	45.69	79.06	USCGS
		4 31,2		L	EG				
		4 41,3		LM	EG				
		4 42,7		M	EG				
293	24	20 58	13.2	21.4 S	173.9 E	.000	149.51	19.46	USCGS
		22 13,8		L	EG				
		22 18,8		M	EG				
294	25	12 21	55.0	47.5 N	010.8 E	-.003	5.36	125.55	USCGS
		12 24	49	E	VG				
295	26	18 49	47.1	18.1 N	146.4 E	.003	103.64	36.99	USCGS
		19 40,7		L	EG				
296	27	01 51	51.1	15.4 S	013.1 0	.003	67.73	198.21	USCGS
		2 19,9		LQ	EG				
		2 24,1		LR	EG				



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AOUT

2 30,3				MR	EG				
297	27	15 28 25.0	22.9 S	114.4 0	-.002	125.43	276.88	USCGS	
		16 34 15	P	VG	.000	125.4			
		16 44 16	S	EG					
		16 51 12	PS	EG					
		16 58,2	LQ	EG					
		17 03,8	LR	EG					
		17 07,6	M	EG					
		17 10,4	M	VG					
298	27	22 08 45.2	35.6 N	023.8 E	.000	20.67	129.86	USCGS	
		22 13 54	P	EG					
		22 20,1	L	VG,EG					
299	28	20 26 01.4	23.0 S	113.5 0	.000	124.93	276.05	USCGS	
		21 38,3	L	EG					
300	28	21 27 16.9	14.1 S	073.9 0	.010	93.52	252.11	USCGS	
		22 10,7	L	EG					
301	29	14 51 14.2	52.4 N	170.8 E	.001	76.45	8.48	USCGS	
		15 30,2	L	EG					
		15 38,8	M	EG					
302	30	03 35 02.7	05.8 N	034.4 0	.000	55.26	229.26	USCGS	
		3 52 10	S	EG					
		3 57,2	L	EG					
		4 01,4	M	EG					
303	31	01 48 37.5	10.7 S	070.9 0	.093	89.05	251.90	USCGS	
		2 00 30	P	EE,NE	.093	89.0			
		2 02 39	*PP	VG					
		2 10 03	SKS	VG					
		2 10 29	S	VG					
		2 11 38	SP	EE,EG					
		2 12 16	SPP	VG					
		2 14 18	*SSKS	EG					

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AOUT - SEPTEMBRE

304	31	01 57 08.0	10.5 S	070.7 0	.093	88.77 251.86	USCGS
		2 09 00	P	VG	.093	89.2	
		2 11 17	*PP	EE			
		2 18 24	SKS	EE,NE			
		2 19 00	S	EE,EG			
		2 20 10	SP	EE,NE			
		2 21 38	/PS/	EG			
		2 22 44	*SSKS	EE			
		2 22 56	*SS	EE,NE			
305	01	00 09 34.6	59.5 S	273.0 0	.015	132.27 223.51	USCGS
		24 07	P	EG	.015	114.0	
		24 46	/*PP/	EG			
		28 58	PP	NE,VG			
		37 28	SP	EG			
		38 31	PS	VG			
		55,3	LQ	EE			
		1 03,5	LR	VG			
		1 08,2	M	EE,EG			
		1 10,4	M	VE,EG			
306	01	18 50 35.4	13.6 N	092.5 0	.001	83.78 283.87	USCGS
		19 03 05	P	VG,EG	.001	83.8	
		19 13 23	S	EG			
		19 22,7	L	EG			
		19 30,1	LR	EG			
		19 32,3	MR	VG			
		19 43,2	LM	VG			
		19 44,3	M	VG			
307	02	00 26 06.2	52.0 N	170.9 0	.001	77.41 357.00	USCGS
		1 03,4	L	EG			
308	02	10 50 25.8	02.0 S	067.8 E	.016	75.10 112.37	USCGS
		11 27,4	L	EG			
309	02	14 16 10.5	39.1 N	023.9 E	.000	18.03 122.90	USCGS
		14 25,6	L	EG			
310	04	00 28 23.0	42.2 N	002.4 0	.000	9.77 210.96	BCIS
		34 00	E	EG			

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SEPTEMBRE

311	04	04 53 19.2 5 28,0	47.1 N L	154.1 E EG	.004	78.96	20.50	USCGS
312	05	11 34 37.3 11 45 46 11 48 06 11 54 28 11 54 49 12 07,6 12 10,7	60.0 N *PP PP S *SS L M	150.6 O VG,EG VG EG VG EG VG	.002 .002	67.63 67.6	346.73	USCGS
313	08	04 52 08.6 5 26,1 5 34,1	51.7 N L M	131.3 O EG VG	.000	71.09	332.68	USCGS
314	09	09 16 08.6 9 58,8	34.0 N L	139.6 E EG	.018	86.70	35.83	USCGS
315	09	19 10 45.7 19 54,5	01.3 N L	090.8 O EG	.000	92.20	274.82	USCGS
316	10	09 00 09.2 9 21,0	74.2 N M	052.5 E EG	-.006	30.73	23.48	USCGS
317	10	16 17 16.0 16 33,0	36.6 N L	035.8 E EG	.000	26.53	110.16	BCIS
318	11	02 46 50.3 3 35,2	51.4 N L	180.0 E EG	.004	78.02	2.79	USCGS
319	11	19 57 58.2 20 58,5	04.1 S L	134.3 E EG	-.003	117.39	59.50	USCGS
320	12	19 29 09.2 19 59,7 20 19,7	59.9 S LR LM	030.4 O EG EG	.000	113.95	198.29	USCGS

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SEPTEMBRE

		20	28,2		M		EG				
321	13	21	19	19.9	41.7 S	075.2 O	.001	115.23	234.46		USCGS
		22	19,3		L	EG					
322	15	01	46	09.9	34.9 N	033.8 E	.000	26.54	115.42		USCGS
		1	51	47	P	VG,EG	.000	26.5			
		1	52	01	*SP	VG,EG					
		1	56	18	S	EG					
		1	56	35	*SS	EG					
		1	57,7		LR	EG					
		2	01,6		LM	VG					
		2	03,6		M	EG					
323	17	08	41	57.3	23.9 N	122.1 E	.003	87.56	54.13		USCGS
		9	25,0		LR	EG					
		9	28,4		MR	EG					
		9	36,9		M	EG					
324	17	23	22	06.3	05.9 S	147.4 E	.002	125.62	47.39		USCGS
			30,6		L	EG					
			38,5		M	EG					
325	18	02	25	19.3	49.0 N	128.9 O	-.002	72.74	329.90		USCGS
		2	56,2		L	EG					
		2	59,2		M	EG					
326	18	05	08	31.9	34.7 N	026.5 E	.001	22.72	126.59		USCGS
		5	20,5		LM	EG					
		5	23,8		M	EG					
327	18	07	59	36.8	74.0 N	052.0 E	-.006	30.52	23.74		USCGS
		8	20,5		L	EG					
328	18	11	01	04.5	41.0 N	050.2 E	.003	32.84	89.24		USCGS
		11	19,6		L	EG					

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SEPTEMBRE

329	19	02 25 49.2	20.5 S	062.9 O	.086	92.24	239.88	USCGS
		2 37 44	/P/	VG	.086			
		2 39 46	*PP	VG				
		2 48 40	/S/	EG				
		2 50 27	PS	EG				
		2 57,6	L	EG				
		3 10,6	M	EG				
330	19	09 46 17.7	06.7 N	082.4 O	.000	82.74	271.74	USCGS
		10 09 00	/S/	EG				
		10 09 55	PPS	EG				
		10 17 52	/SSS/	EG				
		10 20,9	LQ	EG				
		10 22,2	LR	EG				
		10 25,9	LM	EG				
		10 31,5	M	VG				
331	19	21 34 42.3	60.1 S	023.3 O	.000	112.86	194.59	USCGS
		22 24,2	L	EG				
		22 32,9	M	EG				
332	20	8 33,1	L	EG				
333	20	19 03 37.7	03.6 S	151.0 E	.002	125.19	42.19	USCGS
		20 44,5	L	EG				
		20 59,7	LQ	EG				
		21 07,0	MR	EG				
		21 18,4	M	EG				
334	24	19 04 38.3	18.3 N	098.6 O	.003	83.83	291.42	USCGS
		19 45,0	L	EG				
335	24	21 40 57.3	33.5 N	141.5 E	.003	87.85	34.63	USCGS
		22 20,3	L	EG				
		22 27,8	M	EG				
336	25	05 28 57.8	19.8 N	155.2 O	.000	107.36	339.86	USCGS
		6 25,0	L	EG				



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SEPTEMBRE-OCTOBRE

337	27	06 34 6 52	05.4 48	17.3 S PKP	178.7 O EG	.082	146.47	5.29	USCGS
338	27	12 07 12 56,8 13 02,2 13 06,8 13 10,6	32.6	59.3 S LR MR M M	023.3 O EG EG EG EG	.000	112.10	194.87	USCGS
339	27	19 20 19 57,1 20 04,6	48.5	52.7 N L M	168.7 O EG EG	.001	76.62	355.67	USCGS
340	27	19 27 20 08,6 20 16,7	00.7	52.4 N LM M	168.7 O EG EG	-.002	76.92	355.65	USCGS
341	28	01 23 2 12,0 2 26,4	59.6	03.9 S L M	102.0 E EG EG	.007	97.78	86.54	USCGS
342	28	03 24 4 08,3 4 13,8 4 19,6	37.7	30.8 N LR LM M	141.6 E EG EG EG	.001	90.31	35.71	USCGS
343	29	16 50 17 58,6 18 02,2	35.4	42.9 N L LM	145.3 E EG EG	.002	80.57	27.95	USCGS
344	29	19 06 19 52,8 20 02,2 20 09,3 20 14,5	13.4	00.5 N L LM M M	122.4 E EG EG EG EG	.000	106.87	67.29	USCGS
345	02	07 21 7 36	44.0 04	37.0 N P	022.0 E EG	.000	18.68	130.83 18.7	BCIS

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OCTOBRE

		7 26	40	/PCP/	EG					
		7 29	40	S	EG					
		7 32	18	LR	EG					
		7 32	30	LR	VG					
		7 33	17	LM	EG					
346	02	07 02	37.6	33.9 S	179.6 E	.000	162.75	13.45		USCGS
		8 20	05	LR	EG					
		8 29	15	LM	EG					
347	02	08 09	07.1	51.4 N	179.4 E	.002	78.00	3.17		USCGS
		8 41	45	LQ	EG					
		8 50	43	LR	EG					
348	04	02 23	23.5	13.2 S	166.5 E	.005	139.74	27.52		USCGS
		3 36	25	LR	EG					
		3 44	51	LM	EG					
349	04	07 30	54.8	73.7 N	053.8 E	-.005	30.88	24.65		USCGS
		7 51	52	LM	EG					
		7 52	25	LM	VG					
350	05	18 08	43.4	19.4 S	169.0 E	.004	146.35	26.82		USCGS
		18 28	20	PKP	VG					
		19 18	39	LR	EG					
351	05	22 34	58.9	24.0 N	121.7 E	.001	87.27	54.38		USCGS
		23 21	35	LR	VG,EG					
352	05	23 01	07.3	51.0 N	149.7 E	.076	74.29	21.88		USCGS
		23 31	35	LQ	VG					
353	06	03 20	27.0	36.5 N	001.0 E	.000	14.50	190.86		BCIS
		3 28	38	LM	EG					
354	06	07 00	12.2	74.3 N	051.6 E	-.005	30.54	23.11		USCGS

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OCTOBRE

 7 21 05 LM EG  
 7 22 36 LM VG

355	09	23 41 36	33.1 17	01.5 N LR	127.2 E EG	.011	108.82	62.56	USCGS
356	10	03 44 4 06	38.3 11	22.9 S SKP	180.0 E VG	.085	151.93	8.56	USCGS
357	10	17 24 18 24 18 29 18 35	58.9 47 51 25	04.7 S LQ LR LM	138.2 E EG EG EG	.000	119.99	56.13	USCGS
358	10	18 44 19 03	28.6 25	16.1 S PKP	176.3 O EE, VG	.051	145.36	1.11	USCGS
359	12	06 01 7 01	28.6 22	03.2 S LR	145.1 E EG	.000	122.17	48.30	USCGS
360	13	04 59 5 40 5 44 5 56	02.2 55 59 35	55.9 S L LQ LR	027.7 O EG EG EG	.000	109.69	198.48	USCGS
361	13	17 28 17 47	21.5 54	22.0 S PKP	176.9 O EE, NE	.003	151.23	2.43	USCGS
362	14	16 13 16 33 17 34	48.7 29 45	19.1 S PKP LM	168.4 E EE, NE, VG EG	-.001	145.89	27.62	USCGS
363	14	21 58 22 37 22 44 22 52	59.7 20 10 55	51.2 N LQ LR LM	153.2 E EG EG EG	.010	74.89	19.67	USCGS

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OCTOBRE

364	18	16 51	57.3	36.7 S	073.0 O	.000	110.39	236.75	USCGS
		17 11	24	E	EG				
		17 18	54	S	EG				
		17 20	36	PS	VG				
		17 38	05	LQ	EG				
		17 49	05	LR	EG				
		17 52	35	LM	EG				
		18 01	04	LM	EG				
365	19	19 26	32.2	55.3 S	146.4 E	.003	156.88	116.11	USCGS
		19 46	55	/PKP2/	VG				
366	20	08 07	02.0	73.8 N	053.2 E	-.005	30.76	24.35	USCGS
		8 34	55	LM	EG				
		8 38	15	LM	EG				
367	22	09 50	30.8	20.0 S	172.7 E	.005	147.89	20.94	USCGS
		10 10	14	PKP2	VG				
		11 01	44	LR	EG				
		11 11	09	LM	EG				
368	23	00 08	36.6	60.2 S	033.6 O	.000	114.88	199.76	USCGS
		57 39		LQ	EG				
		1 01	02	LQ	EG				
		1 06	34	LR	EG				
		1 09	33	LR	VG				
		1 11	14	LM	EG				
369	23	08 31	22.1	73.9 N	033.8 E	-.005	26.29	18.00	USCGS
		8 46	39	LR	EG				
		8 46	57	LR	EG				
		8 52	16	LM	EG				
		8 53	47	LM	EG				
370	23	14 39	35.3	03.5 N	126.6 E	-.003	106.84	61.91	USCGS
		15 04	36	SKS	EG				
		15 08	36	/PPS/	EG				
		15 30	40	LQ	EG				
		15 35	28	LR	EG				
		15 39	34	LR	VG				

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OCTOBRE

15 45 34 LM EG

371 24 07 25 24.7 44.7 N 146.5 E .015 79.28 26.41 USCGS  
7 37 18 /PCP/ VG

372 26 00 38 22.8 03.1 S 178.1 E .000 132.13 8.44 USCGS  
1 37 36 LQ EG  
1 44 48 LR VG  
1 52 08 LM VG

3373 26 15 27 05.9 00.3 S 098.7 E .000 92.92 86.83 USCGS  
15 52 48 PS EG  
16 11 34 LQ EG  
16 18 34 LR EG  
16 27 10 LM EG  
16 44 54 LM VG

374 26 16 59 40.0 45.8 N 005.9 E .000 5.11 167.82 BCIS  
17 02 27 SG EG

375 28 14 49 17.5 38.6 S 073.9 O .003 112.28 235.96 USCGS  
15 46 50 LQ EG  
15 56 10 LR EG  
15 58 24 LM EG

376 28 22 44 30.2 13.9 S 166.0 E .001 140.26 28.58 USCGS  
23 06 55 PP VG  
24 00 00 LR EG  
24 08 18 LM EG

377 29 09 12 15.7 49.0 N 128.7 O -.003 72.67 329.78 USCGS  
9 23 58 PCP VG -.003 73.0  
9 33 20 S EG  
9 37 56 SS EG  
9 41 44 LQ EG  
9 47 20 LR EG  
9 55 10 LM EG

378 29 14 47 16.8 49.0 N 128.3 O .000 72.55 329.54 USCGS



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OCTOBRE-NOVEMBRE

		15	20	12	LQ	EG				
379	30	02 16 3 00	32.7 45	42.3 N LM	126.7 0 EG	-.001	77.84	325.14	USCGS	
380	30	08 33 8 54 8 55	27.8 23 50	74.2 N LM LM	053.5 E EG EG	-.005	30.98	23.68	USCGS	
381	30	21 15 22 04 22 07 22 17	35.2 07 40 01	28.9 N LR LM LM	141.8 E EG EG EG	-.001	92.10	36.37	USCGS	
382	31	01 43 1 55 2 35	53.3 49 02	51.9 N P LM	176.1 E VG EG	-.001	77.35	5.23	USCGS	
383	31	08 29 8 47 8 52	17.2 30 04	73.6 N LR LM	056.2 E EG EG	-.005	31.49	25.26	USCGS	
384	04	07 20 7 36 7 41 7 42	19.7 32 30 49	73.7 N LQ LM LM	055.7 E EG EG VG	-.005	31.39	24.99	USCGS	
385	04	18 17 18 29	01.7 07	52.2 N PCP	167.6 0 VG	.000	77.06	354.94	USCGS	
386	06	05 28 6 35 6 41 6 49 6 57	22.8 56 30 20 50	13.3 S LQ LQ LR LM	166.5 E EG EG VG EG	.004	139.84	27.57	USCGS	
387	06	01 29	08.4	45.7 N	122.4 0	.000	73.34	324.18	USCGS	

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NOVEMBRE

2	13	20	LR	EG
2	17	20	LM	EG
2	24	10	LM	EG

388	07	12 15 13 06	03.0 52	27.2 S L	176.4 0 EG	.000	156.42	1.69	USCGS
389	07	21 09 22 45	47.4 20	34.3 S LM	179.2 0 EG	.001	163.30	10.29	USCGS
390	10	18 00 18 19	49.6 32	17.5 S PKP2	178.8 0 VG	.087	146.66	5.49	USCGS
391	12	02 15 2 37 2 46 2 50	16.7 30 10 16	00.8 N LQ LR LM	029.5 E EG EG VG	.001	54.22	148.44	USCGS
392	14	04 42 4 55 5 06 5 19 5 22 5 25 5 26	26.5 06 04 30 30 10 10	07.3 N E PS LR LR LR LM	082.4 0 VG EG EG EG VG EG	-.001	82.28	272.13	USCGS
393	15	07 17 7 29 7 29 7 32 7 39 7 40 7 53 7 58 8 05 8 09	12.4 22 39 26 22 03 35 49 17 16	43.1 N P *SP PP S SP LQ LR LR LM	145.1 E VE,EE,NE VG VG VG EG EG EG VG VE,VG	.002 .002	80.33 80.3	28.01	USCGS
394	16	16 03 17 18 17 22	54.8 35 19	20.2 S LR LR	172.9 E EE EG	.000	148.13	20.68	USCGS

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NOVEMBRE

		17	24	31	LM	EG				
395	17	19 03 23		55.9 22	19.4 S PKP2	175.6 O VG	.026	148.65	359.93	USCGS
396	18	06 02 7 00 7 08		34.3 40 41	00.9 S LR LM	126.9 E EG EG	.001	110.61	64.26	USCGS
397	18	11 16 12 16		56.8 41	27.0 S L	176.3 O EG	.004	156.22	1.46	USCGS
398	18	11 47 13 05		56.6 23	21.4 S LR	175.8 O EG	.013	150.65	.30	USCGS
399	18	22 09 22 56 23 02		51.9 43 03	22.5 N LR LM	121.7 E EG EG	.001	88.50	55.22	USCGS
400	19	23 21 23 46 23 47 24 17 24 23		55.5 21 46 19 19	00.8 N SKS *SSKS LR LM	124.3 E EG EG EG EG	.020	107.74	65.49	USCGS
401	20	04 03 4 20 4 31 4 36		56.7 40 41 51	50.8 N PS LR LM	093.5 E EG EG EG	.000	52.81	52.68	USCGS
402	20	11 44 12 04 13 06 13 19		19.4 08 59 11	21.8 S PKP2 LR LM	169.9 E NE,VG EG EG	.000	148.89	26.68	USCGS
403	20	17 58		17.5	31.4 N	040.8 O	.000	38.39	257.25	USCGS

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NOVEMBRE

18 05 47	P	VE,EE,EG	.000	39.5
18 05 57	*PP	EE		
18 07 19	PP	EG		
18 11 48	*SS	NE,EG		
18 15 12	*SSSS	EG		
18 16 30	L	VG		
18 21 37	LR	EG		
18 27 55	LM	EG		

404	22	20 39 15.8	26.9 S	176.4 0	.002	156.12	1.67	USCGS
		21 57 35	LR	EG				

405	23	01 12 05.0	45.8 N	009.5 E	.000	6.06	143.64	BCIS
		1 13 36	PN	EG		6.0		
		1 13 53	P*	NE,VG,EG				
		1 14 01	PG	EG				
		1 15 19	SG	EE,NE,EG				

406	25	20 19 50.4	36.2 N	141.4 E	.002	85.38	33.53	USCGS
		20 41 25	E	EG				
		21 03 19	LQ	EG				
		21 07 35	LR	EG				
		21 13 51	LM	EG				

407	27	05 57 07.7	31.6 N	131.1 E	-.002	85.37	43.27	USCGS
		6 09 45	P	NE,EG				
		6 38 29	LQ	EG				
		6 45 31	LR	EG				
		6 50 17	LM	VG				
		6 51 29	LM	EG				

408	27	17 10 38.1	00.4 S	127.6 E	.000	110.60	63.35	USCGS
		17 28 06	E	VG	.000	110.1		
		17 29 44	PP	VG				
		17 35 52	/SKS/	EG				
		17 39 12	PS	VG				
		17 40 13	PPS	VG				
		17 55 35	LQ	EG				
		18 03 13	LQ	EG				
		18 11 09	LR	EG				
		18 16 09	LR	VG				
		18 18 29	LM	EG				
		18 23 21	LM	VG				

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NOVEMBRE-DECEMBRE

409	28	08 58 9 03 9 07 9 08 9 09 9 10	37.0 07 29 19 15 52	39.5 N P PCP LQ LR LM	026.3 E EG EG EG NE,EG EG	.000	19.06	117.86	BCIS
410	29	04 15 4 21	15.0 44	44.7 N LM	015.9 E EG	.000	9.86	123.74	BCIS
411	29	09 28 10 04	11.7 19	37.0 S L	018.6 O EG	.000	89.81	198.17	USCGS
412	29	21 55 22 15	44.7 39	23.1 S PKP2	170.9 E VG	-.001	150.40	25.71	USCGS
413	01	21 13 21 26 21 35 21 37 21 47 22 01 22 09	04.1 23 51 28 53 02 29	26.5 N *PP S PPS L LR LM	124.9 E VG EG EG EG VG VG	.027	86.81	50.58	USCGS
414	02	12 40 12 44 12 46 12 47 12 48 12 49 12 49 12 52	18.0 00 54 42 31 32 57 15	36.9 N /PPP/ /SS/ LR LR LM LM LM	008.0 E VG EG VG EG VG NE EE	.000	14.14	167.99	BCIS
415	03	16 14 17 05 17 25 17 31	31.4 53 37 19	11.6 S L LR LM	166.1 E EG EG EG	.014	138.11	27.37	USCGS
416	03	18 31 18 45	56.1 03	40.9 N LR	044.1 E EG	.002	29.04	94.32	USCGS



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DECEMBRE

18 51 24 LM EG

417	03	19 55 20 06 20 15	05.5 18 34	43.6 N P S	013.1 E VG VG	.055	9.33	137.15	USCGS
418	04	12 38 12 48 13 13 13 15 13 17 13 21	11.9 55 29 19 43 03	33.2 N P LR LR LR LM	095.3 E VG EG EG VG VG	.002	65.55	66.94	USCGS
419	05	13 01 14 26	04.3 05	50.8 S LR	139.7 E EG	.000	152.03	107.64	USCGS
420	06	05 48 6 00 6 34 6 37 6 41 6 49	38.3 41 17 37 26 00	13.6 N P LR LR LM LM	093.4 E VG EG EG EG EG	.000	78.92	82.04	USCGS
421	06	13 35 13 55 14 56 15 08	48.2 50 21 02	23.5 S PKP2 LR LM	176.1 O VG EG EG	.002	152.74	.92	USCGS
422	06	16 39 16 51 16 51 17 01 17 19 17 25 17 27 17 29	37.6 28 53 15 40 15 21 24	49.3 N P /*PP/ S LR LM LM LM	155.4 E VG VG NE VG NE VG EG	.004	77.15	18.94	USCGS
423	07	00 18 1 50	26.0 58	23.4 S LM	175.9 O EG	.002	152.64	.52	USCGS

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424	09	02 15	22.0	56.3 N	153.9 O	-.001	71.67	347.46	USCGS
		2 35	39	/S/	EG				
		2 36	21	PS	EG				
		2 44	26	LQ	EG				
		2 53	49	LR	EG				
		2 59	29	LM	EG				
		2 02	19	LM	EG				
425	09	11 18	08.4	43.7 S	075.2 O	.000	116.67	232.91	USCGS
		11 43	53	SKS	EG				
		11 44	45	/SKKS/	EG				
		11 47	33	PS	EG				
		11 47	53	/SKSP/	EG				
		12 09	13	LQ	EG				
		12 17	43	LR	EG				
		12 20	29	LR	VE,EG				
		12 23	28	LM	EG				
426	09	19 49	41.3	21.7 S	179.9 E	.092	150.73	8.50	USCGS
		20 08	32	PKP2	EE,NE,VG				
		20 10	54	*PPKP2	NE,EG				
427	10	08 39	03.6	34.6 N	026.0 E	-.003	22.55	127.59	USCGS
		8 44	14	P	EG				
		8 51	31	LM	EG				
428	11	16 53	06.4	36.4 N	023.6 E	.000	19.93	128.84	USCGS
		16 57	34	P	EE,NE				
		16 57	54	IPP	VE				
429	12	17 23	04.0	21.4 N	146.0 E	-.002	100.48	36.00	USCGS
		18 13	09	LQ	EG				
		18 28	29	LM	EG				
430	12	23 06	20.0	43.4 N	146.2 E	.005	80.38	27.14	USCGS
		23 18	29	P	EE,NE,VG				
		23 18	47	*PP	EE				
		23 38	54	LQ	EG				
		23 49	52	LR	EG				
		23 56	34	LM	EG				

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431	13	17 35 17 47	24.0 33	38.5 N LM	023.0 E EG	.000	18.01	125.88	BCIS
432	14	07 10 8 07 8 16 8 21 8 27	23.2 53 19 29 29	03.1 S LQ LR LM LM	140.3 E EG EG EG VG	.002	119.72	53.11	USCGS
433	16	13 40 14 23 14 29 14 31	26.3 09 30 54	51.9 N LR LM LM	160.1 E EG EG EG	.005	75.54	15.22	USCGS
434	17	22 12 23 32 23 44 23 57	32.3 14 36 43	54.5 S LQ LR LM	143.9 E EG EG EG	.002	155.36	114.53	USCGS
435	18	21 35 21 39 21 44 21 45 21 46	36.0 43 49 31 01	38.4 N PP LQ LR LM	020.2 E VE EG VG VG	.000	16.70	131.82	BCIS
436	19	17 30 18 23	10.6 44	24.2 N LM	122.4 E EG	.004	87.46	53.74	USCGS
437	20	13 25 13 37 13 38 13 38 13 47 13 47 13 48 13 48 13 55 13 57 14 07	34.4 31 09 30 20 42 08 43 13 45 35	04.6 N P /*PP/ /*SP/ S SCS /*SS/ /PS/ /SSS/ L LR	075.6 O VG VE,VG VG,EG EE,VG,EG NE,VG EG EE VG NE,EG EG	.022 .022	80.05 81.0	265.12	USCGS
438	24	02 40	07.6	03.4 S	140.3 E	-.001	119.98	53.28	USCGS

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		3	51	53	LM	EG					
439	24	14	25	30.6	05.7 S	080.9 O	.000	91.33	262.74		USCGS
		15	12	29	LR	EG					
440	24	23	43	19.3	38.3 S	074.6 O	-.001	112.43	236.62		USCGS
			31	50	LQ	EG					
			39	41	LR	EG					
			45	01	LM	EG					
441	25	00	01	55.0	03.3 S	140.3 E	-.001	119.89	53.23		USCGS
			50	10	LQ	EG					
			52	24	LQ	EG					
			56	10	LR	EG					
442	25	13	55	38.8	20.4 S	173.7 O	.005	149.61	356.40		USCGS
		14	15	25	PKP2	EG					
		14	15	41	*PPKP2	VG					
		15	24	50	LM	EG					
443	26	06	17	30.6	44.2 S	038.1 E	-.002	99.13	156.17		USCGS
		7	01	21	LQ	EG					
		7	09	25	LR	EG					
		7	16	31	LM	EG					
444	27	16	46	31.2	01.7 S	012.9 O	.001	54.38	201.38		USCGS
		16	55	47	P	VG					
		16	56	00	*PP	VG					
		17	03	48	/S/	EG					
		17	16	23	LR	EG					
		17	18	04	LM	EG					
445	28	23	48	01.7	41.2 S	175.8 E	.001	168.68	34.98		USCGS
			19	34	SKKS	EG					
			23	56	/SKSP/	EG					
			35	03	/SS/	EG					
		1	03	22	LQ	EG					
		1	16	41	LR	EG					
		1	22	21	LR	EG					
		1	26	48	LM	EG					

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DECEMBRE

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LM

EG

446	28.	23 55	55.5	12.4 S	166.3 E	.008	138.93	27.44	USCGS
		1 06	04	LR	EG				

447	30	00 39	27.1	52.3 N	177.6 E	.004	77.02	4.25	USCGS
		51 22		P	VG	.004	78.0		
		51 44		*SP	VG				
		1 01 08		S	EG				
		1 09 15		/SSS/	EG				
		1 11 58		LQ	VG				
		1 17 51		LR	EG				
		1 30 00		LM	EE,NE,VG				
		1 34 48		LM	NE,VG				