

**INSTITUT ROYAL METEOROLOGIQUE I**  
**KONINKLIJK METEOROLOGISCH INSTITUUT VAN BELGIE**

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

29 AUG 1970

**BULLETIN SEISMIQUE**

**Station : Dourbes**

**ANNEE 1961**

**Juin 1970**



## BULLETIN SEISMIQUE

Année 1961

## INTRODUCTION

*Coordonnées géographiques de la Station.*

Latitude : 50°5'45",7 N, Longitude : 4°35'39",2 E. Altitude : 232 m.  
Sous-sol : Dévonien.

*Appareils* : La Station sismologique de Dourbes comprend deux ensembles homogènes de sismographes :

- 1) le premier groupe est formé de trois sismomètres du type "Stuttgart" (Hiller),
- 2) le deuxième est constitué par trois sismomètres du type "Galitzine".

En 1961, les sismographes ont fonctionné sans interruptions.

*Constantes des sismographes Stuttgart :*

Composante	$T_u$	$T_g$	$\mu$	$l$	A	k	V
Vertical	1,46	1,47	$\pm 0$	159,0 mm	1000 mm	-	-
E - W	1,51	1,51	$\pm 0$	165,0 mm	1000 mm	-	-
N - S	1,59	1,59	$\pm 0$	165,0 mm	1000 mm	-	-

*Constantes des sismographes Galitzine :*

Composante	$T_u$	$T_g$	$\mu$	$l$	A	k	V
Vertical	11,68	11,65	$\pm 0$	159,0 mm	1000 mm	-	-
E - W	12,38	12,39	$\pm 0$	95,5 mm	1000 mm	-	-
N - S	12,46	12,44	$\pm 0$	95,5 mm	1000 mm	-	-

*Locaux* : voir "Publications Série A, N° 7" de l'Institut Royal Météorologique de Belgique: "Réalisation du Centre de Physique du Globe à Dourbes".

*Analyse des sismogrammes 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 sismogrammes nous avons utilisé les tables de H. Jeffreys ainsi que les hodographes publiés par Mme Y. Labrouste.

Les calculs des distances et des azimuts ont été exécutés à l'ordinateur IBM 1620.

L'impression du présent bulletin a été réalisée à partir des "listings" obtenus à la Tabulatrice IBM 447.



## EXEMPLE EXPLICATIF DES TABLEAUX

 STATION  
ANNEE

MOIS

N°		HEURE ORIGINE	$\phi$	$\lambda$	$h$	$\Delta_c$	$a_c$	M	CENTRE INTERNATIONAL (1)
		HEURES	PHASES	COMPOSANTES	$h_o$	$\Delta_o$	$a_o$	T	REMARQUES $\Delta_\mu$ (2)
135	2	00 39 22,0	53,0 N	168,5 W		76,3	355,6	6,5	U.S.C.G.S.
136	2	01 20 2 17 35,0	LM 52,5 N	EG 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, VG NG EG	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.

- $\Delta_o$  : distance observée (exprimée au 0,1 de degré).
- $\Delta_c$  : distance calculée (exprimée au 0,1 de degré).
- $a$  : azimut (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 Stuttgart.
- ES : séismographe horizontal Stuttgart (composante E-W)
- NS : séismographe horizontal Stuttgart (composante N-S)
- VG : séismographe vertical Galitzine.
- EG : séismographe horizontal Galitzine (composante E-W).
- NG : séismographe horizontal Galitzine (composante N-S).
- (...) : douteux.
- AG, MI agitation microséismique.
- AG, ATM " atmosphérique
- MBT : mauvaise base de temps
- COM : compression
- DIL : dilatation.
- $h = 0$   $\equiv$  foyer superficiel
- $h = 0,00$   $\equiv$  profondeur 33 km.



DOORBES 1961

- 1 -

JANVIER

1	01	16 38 16 57	27.8 09	18.3 S PKP	178.2 O VS	.099	148.18	5.04	USCGS
2	02	10 11 10 31 10 31 10 31 10 34 10 34 10 34	56.9 12,5 34,5 50,5 10 27 43,5	12.4 S /PKP/ E *PPKP1 PP *PPP I*SPP	166.4 E VS VS VS VS VS VS	.020	139.51	28.01	USCGS
3	05	14 06 14 18	25.9 30	51.6 N P	176.3 O VS,VG	.001	78.59	.57	USCGS
4	05	15 09 15 21	37.0 51	45.7 N P	149.3 E VS	-.003	79.69	24.27	USCGS
5	05	15 53 16 12 16 14	56.0 45 25,5	04.1 S PKP /PP/	153.0 E VS VS	.012	126.91	40.82	USCGS
6	05	17 57 18 17	56.5 34,5	21.2 S PKP2	169.3 E VS	.014	148.69	28.27	USCGS
7	05	18 14 18 34 18 34 18 34 18 37 18 37	43.0 23,5 28 34 44 58	21.0 S IPKP2 I E PKS *PPP	169.1 E VS,NS VS VS VS VS	.014 .014	148.45 148.7	28.49	USCGS
8	07	10 30 10 35	58.0 30	35.9 N P	027.0 E VG	.000	21.54	122.68	USCGS
9	07	15 52 15 56	54.0 53,5	37.7 N P	021.1 E VS	-.002	17.12	130.11	USCGS

DOORBES 1961

- 2 -

JANVIER

10	10	14 22	18.2	49.9 N	156.2 E	-.001	77.36	18.34	USCGS
		14 34	13,5	P	VS		77.5		
		14 34	18,5	E	VS,ES				
		14 34	29	/PCP/	VS				
		14 34	39	E	VS				
		14 35	32,5	E	VS				
		14 37	08	PP	VS				
		15 12,1		M	VS				
11	11	11 59	55.0	51.8 N	171.0 0	.002	78.32	357.21	USCGS
		12 11	55	IP	VG				
		12 12	05	IPCP	VS				
		12 42,1		LR	VG				
		12 49,9		MR	VG				
		13 57,6		LM	VG				
12	12	14 13	27.7	57.4 N	155.9 0	.001	71.58	349.04	USCGS
		14 24	48,5	P	VS				
13	14	16 17	25.5	06.7 N	073.0 0	.007	76.88	264.77	USCGS
		16 50	44,5	IP	VS				
		16 50	55	IPCP	VS				
14	15	16 44	44.8	20.4 S	169.5 E	.023	148.00	27.45	USCGS
		17 04	16	IPKP	VS				
		17 04	22	E	VS,ES				
		17 04	49,5	I*PPKP	VS				
		17 05	06	E	VS				
		17 05	09	E	VS				
15	16	07 20	18.6	36.0 N	141.1 E	.015	85.96	33.98	USCGS
		7 32	51	P	VG,EG	.010	86.3		
		7 32	52,5	IPCP	VS				
		7 33	02	E	VS,EG				
		7 33	08	E	VS,NS				
		7 33	19,5	*PP	VS,NS				
		7 33	43	E	NS				
		7 36	14	PP	VG				
		7 36	55	E	VS				
		7 37	00	E	VS				
		7 43	16	S	EG				
		7 44	36	PS	EG				
		8 07,9		LM	ES				
		8 09,9		LM	VG				

DOORBES 1961

- 3 -

JANVIER

		8	14,2		M		VS				
		8	17,5		M		VS, VG				
16	16	11	19	46.5	35.7 N	140.6 E	.019	86.04	34.48		USCGS
		11	32	17	P	VS					
		11	32	28	E	VS, VG					
		12	09,3		LM	VG					
		12	11,6		LM	VG					
		12	15,8		M	VG					
17	16	12	12	35.0	36.2 N	141.7 E	.011	85.99	33.46		USCGS
		12	25	08	P	VS, ES	.010	86.0			
		12	25	11	IP	VS					
		12	25	32	*PP	VS					
		12	28	30	PP	VG					
		12	28	46	*PPP	VG					
		12	35	16	SKS	VG					
		12	36	16	*SS	VG					
		12	36	36	/PS/	VG					
		12	36	55	SPP	VG					
		12	39	46	LR	VG					
		13	02,3		LM	VS, NS					
		13	06,5		M	VS					
		13	09,6		M	VS					
18	16	14	04	05.3	36.3 N	141.2 E	.015	85.72	33.77		USCGS
		14	16	37	/P/	VS, ES					
		14	28,2		LR	VG					
		14	49,9		LM	VG					
		14	58,7		M	VG					
19	16	15	41	23.3	36.4 N	140.6 E	.018	85.42	34.16		USCGS
		15	53	51	IPCP	VG	.018	85.5			
		15	54	05	I	VS, ES					
		15	54	16	E	VS					
		15	54	21	*PP	NS					
		15	57	24	I	VG					
		16	03	36	E	VG					
		16	04	16	E	VG					
		16	05	42	E	VG					
		16	23,4		LR	VG					
		16	27,0		MR	VG					
		16	33,2		LM	VG					
		16	37,9		M	ES					



DOORBES 1961

- 4 -

JANVIER

20	17	01 52	05.0	46.5 N	007.4 E	.000	4.05	151.48	BCIS
		1 53	08,5	IPN	VS,ES		4.0		
		1 53	10	E	VS,ES				
		1 53	17	IP*	VS				
		1 53	24,5	IPG	VS,NS				
		1 53	45	I	VS				
		1 53	56	ISN	VS,NS				
		1 54	06,5	IS*	VS				
		1 54	14	ISG	VS,ES				
		1 54,4		L	VS,ES				
21	19	05 54	25.5	21.5 S	170.3 E	.011	149.28	26.74	USCGS
		6 14	12	PKP	NS	.010			
		6 14	15,5	E	VS,NS				
		6 14	28,5	*PPKP	VS				
22	19	12 56	18	E	VS,ES				
23	19	17 22	16.9	49.7 N	155.8 E	-.001	77.47	18.65	USCGS
		17 34	15	IP	VS,ES	-.001			
		17 34	17,5	I	VS				
		17 34	23	*PP	VS				
		18 08,5		L	EG				
		18 12,1		M	VG				
24	20	17 09	15.7	56.4 N	152.3 E	.002	70.45	18.34	USCGS
		17 20	41	I*PP	VS,VG	.002	70.5		
		17 20	46	E	VS,NG				
		17 20	56	PCP	VS				
		17 30	05	*SS	EG				
		17 30	39	/PPS/	VG				
		17 34	45	E	VG,EG				
		17 38	05	*SSSS	VG				
		17 42,3		LR	VG				
		17 48,6		LR	EG				
		17 54,6		LM	EG				
		17 56,4		M	EG				
25	20	22 34	51.1	38.1 N	141.2 E	.003	84.11	32.97	USCGS
		22 47	24	E	VS,NS				
26	22	03 24	04.5	11.9 S	166.2 E	-.002	138.97	28.06	USCGS

DOORBES 1961

- 5 -

JANVIER

		3 43	32		PKP	VS							
		3 43	36		*SPKP	ES							
		3 43	41		*PPKP	VS							
		3 44	36		E	VS,ES							
		3 46	33		PP	VG							
		3 50	36		/SKS/	VG							
		3 50	55		*SSKS	VG							
		4 50,9			M	VS							
27	24	07 25	03.5	15.6	S	167.6	E	.026	142.90	27.83			USCGS
		7 44	16		PKP	VS							
		7 44	20,5		E	VS,NS							
		7 44	25		E	NS							
		7 45	07		*PPKP	NS							
28	25	19 04	22.8	49.8	N	156.0	E	.010	77.42	18.50			USCGS
		19 16	14		P	VS							
29	26	16 13	25.1	21.4	S	169.5	E	.013	148.94	28.06			USCGS
		16 33	06		PKP2	VS		.013	149.0				
		16 33	08,5		E	VS							
		16 33	14		I	VS							
		16 33	30,5		*SPKP2	VS							
		16 33	39		E	VS							
		16 33	45		E	VS							
		16 36	32		PP	VS							
30	26	18 48	56.9	20.7	S	169.5	E	.011	148.28	27.63			USCGS
		19 08	36,5		IPKP2	VS,NS							
		19 08	38		I	NS							
		19 08	49		I	VS,NS							
31	28	05 12	24.0	23.0	S	171.0	E	.000	150.90	26.44			USCGS
		5 32	16		I	VS,NS							
32	28	19 43	01.4	21.3	S	169.5	E	.003	148.85	27.99			USCGS
		20 02	58		IPKP	VS,NS							
		20 03	04		E	VS							
33	31	00 48	36.5	55.8	N	153.9	O	-.001	72.87	347.51			USCGS

DOURBES 1961

- 6 -

FEVRIER

1 00	06,5	P	VS	72.5
1 00	08,5	E	VS	
1 00	20	E	VS,NS	
1 00	24	IPCP	VS,NS	
1 00	32	E	VS	

34	03	23 58	39	I/S/	VS,NS				
		23 58	46	I	VS,NS				
35	04	08 51	48.9	24.7 N	095.3 E	.020	71.81	73.09	USCGS
		9 03	00	P	VS				
36	04	12 49	37.7	50.3 N	156.4 E	.020	77.02	18.08	USCGS
		13 01	18	P	VS				
37	04	19 09	12.9	24.0 N	122.7 E	-.003	88.07	53.78	USCGS
		19 22	06,5	P	VS				
		19 22	21	E	VS				
38	05	15 38	34.0	08.0 N	082.8 O	.003	82.19	273.16	USCGS
		15 50	54	P	VS				
39	06	18 15	21.6	44.8 N	149.1 E	-.002	80.47	24.74	USCGS
		18 27	35	IP	VS,NS				
40	06	21 45	13.5	06.8 S	155.3 E	.004	130.31	39.59	USCGS
		22 04	22	IPKP	VS				
		22 04	25	I	VS				
		22 04	35,5	E	VS				
		22 04	55,5	E	VS				
		22 07	43	/PKS/	VS				
41	07	21 01	37.3	43.9 N	149.1 E	.000	81.30	25.09	USCGS
		21 13	41	P	VS	.000	79.9		
		21 13	52	*PP	VS				
		21 13	57	*SP	EG				
		21 16	48	PP	VS				



DOORBES 1961

- 7 -

FEVRIER

42	07	22 09	41.5	49.3 N	156.3 E	.005	77.95	18.47	USCGS
		22 21	37	P	VS				
		22 23	57	E	EG				
43	08	02 36	40.5	15.3 S	167.5 E	.020	142.58	27.82	USCGS
		2 55	56	PKP	VS				
44	08	08 04	13.8	10.6 S	071.0 O	.000	88.96	252.23	USCGS
		8 15	58	IP	VS,NS	.100	89.0		
		8 16	01	PCP	VS				
		8 16	06	E	VS				
		8 16	08,5	E	VS				
		8 18	20,5	I*PP	VS				
45	08	17 50	45.2	20.4 S	178.1 O	.080	150.27	5.10	USCGS
		18 09	39	IPKP2	VS				
46	09	02 08	15.9	28.2 S	177.4 O	.001	158.07	4.71	USCGS
		2 28	09	PKP1	VS		158.4		
		2 28	47	IPKP2	VS				
		2 28	59	*PPKP2	VS				
		2 29	05	E	VS				
		2 32	25	PP	VS				
		2 35	18	/SKS/	VS				
		2 36	58	E	VS				
47	10	18 51	55.0	41.5 N	006.3 W	.000	11.46	225.54	USCGS
		18 54	38	P	VS		11.3		
		18 54	50	IPP	VS				
		18 54	55	PPP	VS				
		18 55	02	E	VS				
		18 55	07,5	I	VS				
		18 56	49	IS	NS				
		18 56	53	I	NS				
		18 56	58	I	VS,NS				
		18 57	00	ISS	NS				
48	10	19 16	28.0	41.5 N	006.3 O	.000	11.46	225.54	BCIS
		19 19	12,5	P	VS		11.3		
		19 19	25	IPP	VS				

DOORBES 1961

- 8 -

FEVRIER

		19 21	24	IS	VS,NS					
		19 21	32	ISS	NS,VS					
49	11	06 12	23.2	28.8 N	139.5 E	.051	91.76	38.42	USCGS	
		6 24	52	P	VS					
50	11	21 01	06.4	28.2 S	177.5 0	.001	158.07	4.95	USCGS	
		21 21	01	IPKP1	VS	.002	158.5			
		21 21	13,5	*PPKP1	VS					
		21 21	36	IPKP2	VS					
		21 25	17	PP	VS					
51	12	12 09	22.0	15.0 S	175.2 0	.039	144.97	359.65	USCGS	
		12 28	30	IPKP	VS					
52	12	21 53	43.5	43.7 N	147.6 E	.002	81.07	26.18	USCGS	
		22 05	59	I/P/	NS,EG	.002	81.0			
		22 06	05	I*PP	VS,NS					
		22 06	15	I*SP	NS					
		22 06	20	E	NS					
		22 06	28	I	NS					
		22 16	03	IS	VS,NS					
		22 16	23	*SS	EG					
		22 40,9		LQ	NS					
		22 42,7		LR	VS					
		22 46,2		MR	VS,NS					
53	12	23 26	34.4	44.0 N	147.7 E	-.002	80.82	25.99	USCGS	
		23 58	50	P	VS,NS	.000				
		23 39	02	I*PP	VS,NS					
54	13	06 45	25.0	17.0 S	173.7 0	.002	146.94	357.01	USCGS	
		7 05	05	PKP1	VS,NS					
		7 05	10	PKP2	NS					
		7 05	15	E	VS,NS					
55	13	16 27	20.9	43.7 N	149.6 E	-.002	81.62	24.82	USCGS	
		16 39	38	P	NS					
		16 39	49,5	I	VS,NS					
		17 10,6		L	EG					

DOURBES 1961

- 9 -

FEVRIER

56	14	02 51 15.3 3 03 23	44.2 N P	147.8 E VS,NS	.010	80.67	25.85	USCGS
57	14	03 22 00.7 3 34 18,5 3 34 34 3 34 38,5 4 05,7 4 08,4	43.7 N P E E L L	147.9 E VS VS,NS VS EG EG	-.002	81.15	25.98	USCGS
58	15	09 32 43.0 9 34 09 9 35 16	46.2 N /PN/ /SN/	008.9 E VS VS,NS	.000	4.84	141.93	BCIS
59	15	10 45 15.9 10 57 26 10 57 29 10 57 47 10 57 55 11 07 27 11 07 31 11 08 05 11 08 10 11 08 21 11 08 33 11 16 47 11 26,0 11 29,6 11 38,1	43.7 N P PCP I*PP I*SP S SKS I*SS SP IPS SPP /SSS/ LQ MQ MQ	147.4 E VS,NS VS,NS EG VS EG EG EG EG EG EG EG EG EG EG EG	.006 .006	81.01 81.0	26.31	USCGS
60	16	03 44 58.8 3 48 15 3 53,5	41.1 N P LM	019.4 E VS EG	.017	13.69	125.43	USCGS
61	16	13 54 53.7 14 07 04 14 07 15 14 07 25,5 14 15 30 14 15 43 14 17 12 14 39,6	43.2 N P I *PP E I ISK LQ	148.0 E VS,NS NS VS EG EG EG EG	.006 .006	81.64 81.5	26.10	USCGS



DOUBBES 1961

- 10 -

FEVRIER

62	18	01 04	07.2	44.4 N	148.0 E	.003	80.54	25.63	USCGS
		1 16	16,5	P	VS				
		1 16	/29/	E	VG				
63	18	12 05	36.3	22.7 S	171.3 E	.001	150.70	25.71	USCGS
		12 25	25	PKP1	VG,NG				
		12 25	28	E	VS				
		12 25	36	PKP2	VS				
		12 26	03	E	VS				
64	18	17 02	10.0	01.9 S	015.7 O	-.002	54.69	205.12	USCGS
		17 11	37	P	VS,VG	-.002	54.0		
		17 11	44	E	VS,VG				
		17 11	48,5	*PP	VS				
		17 13	40	PP	VS				
		17 19	14	S	VG				
		17 32,5		LR	NG				
65	19	12 33	35.7	14.2 S	014.1 O	-.002	66.16	199.85	USCGS
		12 44	24	P	VS				
66	20	14 17	26.9	05.1 S	153.5 E	.011	128.02	40.78	USCGS
		14 39	50	E	VS				
67	20	22 26	59.1	02.4 S	077.6 O	-.002	86.76	262.47	USCGS
		22 39	42,5	P	VS,VG				
68	21	03 01	52.6	36.3 N	023.9 E	-.002	19.61	127.36	USCGS
		3 06	17,5	P	VS		19.5		
		3 06	32	PP	VS				
		3 06	46	PPP	VS,VG				
69	22	21 53	33.8	28.6 S	177.3 O	.005	158.48	4.54	USCGS
		22 14	13	*PPKP2	VS				
		23 22,3		LQ	NG				
		23 28,5		LR	VG				

DOORBES 1961

- 11 -

FEVRIER

70	23	03 19	07.1	35.2 N	027.3 E	-.002	22.23	123.43	USCGS
		3 23	00	E	VS				
		3 28	13	E	VS				
71	23	03 23	18.5	35.1 N	027.2 E	-.002	22.25	123.76	USCGS
		3 28	19	P	VG,EG	-.002	22.4		
		3 28	27	*PP	NG				
		3 28	54	PP	VS				
		3 29	03	PPP	ES				
		3 32	27	/S/	ES				
		3 32,4		LQ	NG				
		3 35,7		LM	NG				
72	23	04 16	24.3	38.4 N	142.8 E	.013	84.40	31.71	USCGS
		4 28	49	P	VS,VG	.013	85.0		
		4 29	30	/*PP/	NG				
		4 31	21	E	VS				
		4 32	15	/PP/	VS				
		4 32	27	E	VS				
		4 39	13	/S/	VS				
		5 00,5		LQ	NG				
		5 03,2		LR	NG				
		5 09,1		MR	EG				
73	23	21 45	50.5	36.9 N	027.3 E	-.002	20.98	120.32	USCGS
		21 50	34	P	VS				
		21 57,7		LM	EG,NG				
74	23	21 56	40.2	35.7 N	025.9 E	-.002	21.11	124.89	USCGS
		22 01	15	P	VS	-.002			
		22 01	18	I/*SP/	VS				
		22 01	28	PP	VS				
		22 01	36	PPP	ES				
		22 02	24	E	VS				
		22 04	32	S	VS				
75	24	03 04	16.1	26.2 N	125.7 E	.003	87.78	50.29	USCGS
		3 17	02	P	VS	.000	87.5		
		3 17	08	E	VS				
		3 17	10	*PP	VS				
		3 20	19	/PP/	VS				
		3 27	38	IS	EG				

DOORBES 1961

- 12 -

FEVRIER

76	25	15 02	04.8	15.5 S	175.8 0	.005	145.47	.67	USCGS
		15 21	37	PKP	VS				
		15 21	43	I	VS				
77	26	05 48	46.3	32.9 S	111.2 0	-.001	130.43	264.85	USCGS
		7 01,4		LM	EG				
78	26	18 10	48.7	31.6 N	131.2 E	.003	85.82	43.33	USCGS
		18 23	16	P	VS	.004			
		18 23	25	PCP	VS,ES				
		18 23	29	I*PP	VS,ES				
		18 23	34	I*SP	VS,ES				
		18 26	17,5	E	VS				
		18 26	45	*PPP	VS,ES				
		18 33	33	SKS	VS				
		18 33	54	*SSKS	ES				
		18 34	05	*SS	ES				
		18 55,2		LR	VS				
		19 04,5		MR	VS				
79	27	13 06	35.8	52.7 N	168.8 0	.004	77.33	355.89	USCGS
		13 18	28,5	P	VS				
80	27	15 44	21.6	09.7 N	084.0 0	.008	81.67	275.18	USCGS
		15 56	31	P	VS				
81	27	21 40	02.6	36.6 N	026.9 E	.001	20.97	121.54	USCGS
		21 44	44	P	VS				
		21 45	55	E	VS				
82	27	21 43	42.0	36.6 N	026.9 E	.000	20.97	121.54	BCIS
		21 48	26	E	VS				
83	27	21 54	33.6	36.5 N	027.1 E	.001	21.16	121.40	USCGS
		21 59	16	P	VS				
		21 59	20	E	VS,VG				
84	28	12 33	32.1	47.7 N	152.2 E	-.001	78.56	21.63	USCGS

DOURBES 1961

- 13 -

MARS

		12 45	39,5	IP	VS			79.0	
		12 45	48	E	VS				
		12 48	42	PP	VS				
		12 55	40	S	VG				
85	01	14 31	27.2	19.0 S	012.2 O	-.002	70.45	196.85	USCGS
		14 42	39	P	VS				
86	03	00 52	27.0	45.1 N	005.8 E	.000	5.06	170.29	BCIS
		54 03		/PN/	VS				
		55 11		/SN/	VS				
87	03	4 22,6		E	VG				
88	03	06 25	37.9	23.0 S	171.4 E	-.001	151.01	25.72	USCGS
		6 45	31	PKP	VS				
89	05	01 26	26.1	10.7 S	161.6 E	.010	136.32	33.77	USCGS
		2 35,2		L	EG				
		2 40,7		MR	NG				
90	05	10 39	50.8	17.8 S	179.1 O	.086	147.62	6.58	USCGS
		10 58	29	PKP	VS				
91	05	21 26	23.6	21.0 S	176.6 O	.042	150.93	2.30	USCGS
		21 45	41,5	PKP	VS				
92	07	10 10	38.9	28.3 S	175.7 O	.002	158.22	.70	USCGS
		10 30	33	PKP1	VS	.000	158.0		
		10 30	34	IPKP1	VS				
		10 30	45	*PPKP1	VS				
		10 31	01	I	VS,NG				
		10 31	07,5	PKP2	VS				
		10 31	19	I*PPKP	VS				
		10 31	47	I	VS				
		10 34	42,5	IPP	VS				
		10 37	31	ISKS	VS				



DOORBES 1961

- 14 -

MARS

10 38 23,5 PPP VS  
 10 38 52 PCPPKP VS  
 10 54 29 SS VS, VG

93 07 19 48 41.5 28.1 S 176.0 0 .003 158.02 1.40 USCGS  
 20 23,5 L NG  
 20 27,0 L EG  
 20 28,9 LM VG

94 07 23 11 59.6 04.7 S 153.2 E .009 127.54 40.91 USCGS  
 23 31 00 PKP VS

95 08 00 17 58.9 52.7 N 164.7 0 .000 77.09 353.35 USCGS  
 29 52 P VS

96 09 03 59 08.7 10.9 N 041.7 0 -.001 54.47 240.68 USCGS  
 4 08 39,5 P VS -.001 54.3  
 4 08 47,5 \*PP VS, NS  
 4 09 06 E VS  
 4 10 50 /PP/ VS  
 4 16 28 PS VG, EG  
 4 18 51 E VG  
 4 26,1 LR EG

97 11 01 31 34.4 48.7 N 154.6 E -.001 78.16 19.75 USCGS  
 1 43 36 P VS, NS 78.0  
 1 43 48 PCP VS  
 1 46 31,5 PP VS  
 1 53 50 SKS EG  
 2 13,6 LR NG

98 11 02 25 22.8 16.0 S 172.8 0 -.002 145.90 355.53 USCGS  
 2 45 01 PKP NS  
 2 45 09 E VS  
 2 46 45 E NS

99 13 08 03 43.9 19.2 N 107.3 0 .003 88.58 298.74 USCGS  
 9 12,1 LM VG, EG

DOORBES 1961

- 15 -

MARS

100	13	15 31	56.0	35.8 N	026.6 E	-.002	21.40	123.52	USCGS
		15 36	48	P	VS,NS	-.002	22.0		
		15 36	53	*PP	NS,EG				
		15 37	08,5	/PP/	VS				
		15 40	48	S	NG				
		15 41	46	E	EG				
101	13	19 17	16.0	34.5 N	026.6 E	-.002	22.39	125.77	USCGS
		19 22	16	IP	VS,VG	-.002	22.2		
		19 22	25	I	NS,EG				
		19 22	31	E	VS				
		19 22	41	PP	VS,NS				
		19 22	53	PPP	NS				
		19 23	17	E	VS				
		19 26	18	S	NG				
		19 26	31	E	VS				
		19 26	40	E	VG,EG				
		19 27	01	/SS/	VG,EG				
		19 27	22	E	NG				
		19 29,5		LR	EG,NG				
102	15	01 25	18.0	22.5 S	169.5 E	.000	149.98	28.77	BCIS
		1 45	23	E	VS				
103	15	01 49	38.0	46.7 N	019.8 E	.000	10.65	102.77	BCIS
		1 51	02	PN	VS				
		1 51	18	IP*	VS,NS				
		1 51	31	PG	VS,NS				
		1 52	11	SN	NS				
		1 52	27	E	NS				
		1 52	31	S*	VS,EG				
104	15	10 14	55.5	03.3 S	150.6 E	-.002	125.16	43.07	USCGS
		33	59	PKP	VS		124.9		
		33 34	01	E	VS				
		33 34	06	E	VS				
		33 35	49	PP	VS				
		11 20,0		L	NG				
105	15	13 01	02.2	04.4 S	152.5 E	.010	126.97	41.54	USCGS
		13 20	02	PKP	VS				
106	16	04 58	00.4	51.7 N	176.1 E	.001	78.23	5.38	USCGS

DOORBES 1961

- 16 -

MARS

5 10 00

P

VS,NS

107	16	11 19 11 39	43.5 39	06.4 S E	130.7 E VS	.007	117.43	64.84	USCGS
108	16	13 45 14 05 14 14 14 25,1	35.6 07 53,5	08.2 S PP /PS/ L	122.0 E VS,EG VS EG	.006	113.62	73.66	USCGS
109	17	14 06 14 26	56.4 44	24.1 S PKP	175.9 O VS	.014	154.04	1.03	USCGS
110	17	20 11 20 30 20 30 21 33,4 21 44,0	17.4 21 45,5	24.3 S PKP1 PKP2 L LM	175.6 O VS VS NG NG	.007	154.24	.41	USCGS
111	18	14 54 15 15 15 15 15 16 15 16 15 19 15 20 15 20 15 23 15 33 15 40 16 13,0	59.3 11 20 04 12 56 06 14 51 48 40	49.9 S *PPKP1 E PKP2 *PPKP2 IPP *PPP E PPP I/PPS/ SS LM	163.3 E VS VG VS,EG VG VS,VG VS VG,EG VS VG VG VG	.000 .000	166.20 166.6	97.37	USCGS
112	19	07 14 7 34 7 34 8 30,9	57.8 34,5 59	16.0 S PKP E LM	168.2 E VS VS NG	.009	143.45	27.11	USCGS
113	19	12 05 13 43,6	47.7	16.4 S E	167.5 E NG	-.003	143.62	28.40	USCGS

DOUBBES 1961

- 17 -

MARS

114	20	06 16	21.1	11.3 N	086.5 O	.004	82.06	278.12	USCGS
		6 28	34	IP	VS	.004	82.0		
		6 28	49	*PP	VS				
		6 28	59	E	VS,NG				
		6 31	37	/PP/	VS,EG				
		6 33	24	/*PPP/	EG				
		6 38	53	SCS	EG				
		6 39	58	SPP	EG,NG				
		6 40	04	E	EG,NG				
		6 44	53	/SS/	EG				
		6 53,7		LR	NG				
		6 55,3		MR	NG				
		7 00,9		LM	EG				
115	20	11 38	39.3	46.3 N	142.7 E	.050	77.26	28.29	USCGS
		11 50	00	P	VS,VG	.050	78.0		
		11 50	20	E	VG				
		11 52	58	PP	NS				
		11 58	46	E	NG				
		11 58	57	E	NG				
		11 59	28	S	EG				
		12 04	39	SS	EG				
116	20	15 53	26.1	18.4 S	175.8 O	.023	148.36	.71	USCGS
		16 12	41	IPKP1	VS,VG	.023	148.0		
		16 12	56	PKP2	VG				
		16 13	13	E	VS,VG				
		16 13	34	*PPKP1	NS,VG				
		16 13	47	*PPKP2	VG				
		16 14	53	I	VS				
		16 16	15	/PP/	VS,VG				
		16 16	40	E	EG				
		16 18	02	PPP	EG				
		16 19	30	SKS	VG				
		16 20	05	E	VG				
		16 23	07	/SKKS/	EG				
		16 54,0		LR	EG				
117	21	23 42	36.8	24.1 S	176.0 O	-.002	154.03	1.24	USCGS
		2 29		PKP1	VS		154.0		
		2 55		PKP2	VS				
		9 28		/SKS/	EG				
		1 09,2		LR	EG				
		1 12,1		LM	EG				
118	21	19 54	44.4	22.9 S	171.9 E	-.003	151.06	24.75	USCGS



DOORBES 1961

- 18 -

MARS - AVRIL

20 14 40				PKP	VS				
119	24	22 57	14.3	35.7 N	140.3 E	.011	85.93	34.70	USCGS
		23 09	49	P	VS	.011	86.0		
		23 10	11	*PP	VS,NG				
		23 20	19	S	EG,NG				
		23 21	01	*SS	EG				
		23 43,1		L	EG				
		23 46,5		LM	VG				
120	25	02 10	13.2	02.1 S	078.7 O	.015	87.24	263.51	USCGS
		2 22	46	P	VS				
		2 23	15	E	VS				
121		13 20	53	E	VS				
122	28	05 59	50.5	52.8 N	167.7 O	.003	77.18	355.22	USCGS
		6 11	24	P	VS				
123	01	15 18	22.8	39.6 N	077.7 E	-.002	50.85	72.19	USCGS
		15 27	26	P	ES,EG				
		15 27	34	I*SP	ES				
		15 29	22	PP	EG				
		15 29	28	I*PPP	ES				
		15 34	33	I	EG				
		15 34	45	S	ES				
124	06	01 33	46.9	39.6 N	077.8 E	.000	50.92	72.13	USCGS
		2 01	28	LR	NG				
125	06	04 04	46.1	40.1 N	124.8 O	.006	79.69	323.00	USCGS
		4 46	19	LM	NG				
126	06	14 05	00.3	02.2 N	097.2 E	-.002	89.94	86.59	USCGS
		14 18	02	IP	VS,VG				

DOURBES 1961

- 19 -

AVRIL

127	06	15 33 15 53	38.6 15	20.3 S IPKP	169.4 E VS	.000	147.88	27.55	USCGS
128	06	18 12 18 20 18 21 18 21 18 22 18 27 18 27 18 27 18 27 18 27 18 30 18 31 18 38,2 18 41,2	40.7 50 12 26 10 08 25 32 38 47 19 2 2	27.8 N P *PP *SP E E S SP ISPP SS *SSS LM MR	056.7 E VS, VG VG VS EG EG NS, EG EG, NG NG NG EG VG, EG VG, EG	.012 .012	45.09 45.0	99.55	USCGS
129	07	10 06 10 19	49.5 59	00.3 S P	097.0 E VS	-.002	91.71	88.35	USCGS
130	07	19 54 20 06 20 10 20 15 20 20 20 35,3 20 41,3	51.9 15 10 36 13 3 3	57.2 N P E S SS LR M	163.3 E VS VS EG, NG EG EG EG, NG	-.002 -.002	71.54 71.5	12.00	USCGS
131	07	21 17 21 26 21 26 21 33 21 43,3 21 46,3	43.8 24 36 22 3 3	39.3 N P *PP S LR MR	073.0 E VS, ES VS NG NG NG	.002 .002	48.13 48.5	75.39	USCGS
132	08	04 22 4 34	08.7 59	02.2 S P	079.2 0 VS, VG	-.002	87.63	263.83	USCGS
133	08	04 47 4 59 5 06 5 10	01.8 50 36 42	02.1 S P E E	079.1 0 VG EG EG	-.002	87.49	263.82	USCGS

DOORBES 1961

- 20 -

AVRIL

5 34,3

LM

EG

134	08	09 03	48.9	02.1 S	079.1 0	-.002	87.49	263.82	USCGS
		9 16	38	IP	VS,EG				
		9 16	43	E	VG				
		9 27	28	E	EG				
		9 55	16	LM	NL				
135	08	15 59	49.2	18.2 S	168.6 E	.014	145.65	27.66	USCGS
		16 19	21	PKP	VS				
		16 19	26	E	VS				
		17 04	36	LQ	NG				
		17 21	56	LM	NG				
136	08	17 59	46.7	38.2 S	072.7 0	.004	111.08	235.41	USCGS
		18 18	51	PP	ES	.004	111.0		
		18 20	01	E	ES				
		18 21	19	PPP	VG,NG				
		18 25	01	SKS	NG				
		18 26	44	E	NG				
		18 28	33	PS	EG				
		18 28	44	E	VG				
		18 29	44	PPS	VG				
		18 50	16	LQ	NG				
		18 55	21	LR	VG				
		19 01	16	LM	VG				
		19 03	46	MR	NG				
137	08	21 36	41.6	14.8 S	145.1 E	.011	132.38	56.44	USCGS
		22 29	26	LR	NG				
		22 35	23	LM	NG				
138	09	07 23	16.0	36.5 N	121.3 0	-.004	81.34	318.73	USCGS
		7 35	28	P	VS				
		7 35	38	PCP	ES,NG				
		8 02,3		LM	NG				
139	09	15 35	05.4	24.1 N	122.2 E	-.004	87.73	54.10	USCGS
		15 47	58	IP	VS,EG	-.004	87.5		
		15 51	24	IPP	VS,VG				
		15 58	22	ISKS	NG				
		15 58	45	ISCS	NG				

DOURBES 1961

- 21 -

AVRIL

		15 59 47	IPS	NG					
		16 00 07	PPS	EG					
		16 17,3	LR	NG					
		16 21,3	MR	NG					
140	12	22 20 33.6	13.1 N	088.9 O	.014	82.22	281.10		USCGS
		22 32 44	P	VS	.014	82.0			
		22 35 50	PCP	VS					
		22 36 01	IPP	ES					
		22 36 19	E	VS					
		22 39 28	E	EG					
		22 42 49	S	NG					
		22 43 52	PS	EG					
		22 48 09	SS	EG					
		22 51 49	SSS	EG					
		22 59,3	LR	VG,EG					
		23 03,3	MR	VG,EG					
141	13	16 34 39.1	40.1 N	077.8 E	-.003	50.61	71.62		USCGS
		16 43 41	P	VS,ES	-.003	50.5			
		16 43 42	IP	VS,ES					
		16 43 50	I	VG,EG					
		16 44 58	IPCP	VG					
		16 45 38	PP	VG					
		16 46 27	/PPP/	VS,VG					
		16 47 28	E	VG					
		16 50 52	S	VG					
		16 51 01	PS	VG,EG					
		16 51 08	PPS	NG					
		16 53 35	I/SCS/	NG					
		16 54 25	SS	EG					
		16 59,3	M	NG					
		17 03,3	MR	NG					
142	16	11 40 40.7	53.5 N	158.7 E	-.001	74.40	15.69		USCGS
		11 52 19	P	NS	-.001	74.1			
		11 55 08	PP	VS					
		13 03,4	L	NG					
143	16	12 22 47.1	51.6 N	130.6 O	.003	71.67	332.47		USCGS
		12 34 11	P	VS,NS					
		12 34 14	E	NS					
		13 20,1	M	EG					
144	17	16 21 10.2	03.9 N	031.5 O	-.002	55.19	225.68		USCGS



DOORBES 1961

- 22 -

AVRIL

16 30 45	P	VS,ES	-.002	55.0
16 38 22	S	NG		
16 38 42	PPS	VG		
16 47,4	LR	EG		

145	17	20 48 12.5	21.3 S	178.6 O	.081	151.14	6.17	USCGS
		21 07 07	PKP	VS,ES	.081			
		21 07 18	E	VS,NS				
		21 09 16	*PPKP	VS				
		21 13 48	E	EG				

146	18	18 49 25.1	38.5 S	073.3 O	-.001	111.62	235.57	USCGS
		19 50,4	LM	VG,EG				

147	19	00 16 12.0	48.2 N	009.0 E	.000	3.45	121.63	USCGS
		17 06	IPN	VS		3.4		
		17 17	IPG	VS				
		17 50	ISN	NS				
		17 58	S*	NG				
		18 02	I	VG				
		18 05	ISG	VS				

148	19	16 12 28.7	44.2 N	148.0 E	.003	80.72	25.71	USCGS
		16 24 41	IP	VS,ES	.003	80.0		
		16 24 53	*PP	VS,VG				
		16 25 03	*SP	VS,NS				
		16 27 36	PP	VS				
		16 50,4	LR	EG				
		17 00,4	LM	VG				

149	19	18 13 51.8	55.1 N	163.6 E	-.002	73.62	12.37	USCGS
		18 25 27	P	NG				
		18 25 49	PCP	VS				
		18 26 51	E	VS				

150	19	20 19 46.4	44.6 N	150.2 E	-.001	80.95	24.08	USCGS
		20 32 03	P	VS,ES	-.001	81.0		
		20 32 16	E	VS,NS				
		20 32 25	E	VS,NS				
		20 42 21	SKS	EG				
		21 03,4	LR	EG,NG				
		21 07,4	MR	EG,NG				

DOORBES 1961

- 23 -

AVRIL

		21	11,4		M		EG			
151	19	22 07	51.2	44.9 N		149.5 E	.000	80.48	24.44	USCGS
		22 20	03	P		VS				
		22 20	18	E		VS				
		22 20	27	E		VS				
152	20	21 39	07.0	15.2 S		173.7 O	-.002	145.15	357.12	USCGS
		21 58	42	PKP		NS				
		22 54,4		LR		NG				
153	21	20 10	38.3	47.7 N		154.6 E	-.001	79.11	20.08	USCGS
		20 22	49	/PCP/		ES,EG				
		20 24	23	E		ES				
		20 32	39	S		ES				
		20 57,4		M		EG				
154	21	21 26	42.1	51.7 N		173.9 O	.000	78.48	359.05	USCGS
		21 38	54	PCP		NS				
		21 39	03	E		NS				
		21 40	36	E		EG				
		22 20,4		M		EG,NG				
155	22	00 30	24.0	06.5 S		150.0 E	.000	127.73	45.52	BCIS
		1 42,5		L		VG,EG				
156	22	18 59	23.2	03.5 S		150.1 E	.009	125.11	43.72	USCGS
		20 14,5		LM		VG,EG				
157	23	05 14	31.1	26.2 N		129.8 E	.012	89.77	47.19	USCGS
		5 27	23	IP		VS,VG	.012	90.0		
		5 27	51	/*PP/		VG				
		5 28	03	*SP		VS,VG				
		5 28	08	E		VS				
		5 28	31	E		VG				
		5 31	02	PP		VG,NG				
		5 38	07	S		VG,EG				
		5 38	39	I		EG,NG				
		5 39	21	SP		VG				
		5 39	27	PS		EG				

DOORBES 1961

- 24 -

AVRIL

5 44,0	SS	EG
6 00,5	LR	EG
6 06,5	M	EG,NG
6 12,5	MR	VG,EG

158	23	09 01 41.8	44.6 N	150.2 E	.002	80.95	24.08	USCGS
		9 13 56	P	VS,ES	.002	81.0		
		9 13 57	IP	VS,ES				
		9 14 06	I	VS				
		9 14 10	I*PP	NS				
		9 14 46	E	ES				
		9 16 58	PP	NG				
		9 18 43	/PPP/	VG				
		9 23 58	S	EG				
		9 24 16	/*SS/	EG				
		9 29 13	SS	VG,EG				
		9 32 23	SSS	EG				
		9 36,8	LR	VS				
		9 45,5	MR	ES,EG				

159	23	12 17 59.7	44.8 N	150.6 E	.007	80.87	23.74	USCGS
		12 30 10	P	VS				
		12 30 16	E	VS				
		12 32 34	I	NG				
		13 03,5	LM	EG,NG				
		13 08,5	MR	VG				

160	23	16 51 03.6	44.5 N	150.1 E	.007	81.02	24.19	USCGS
		17 03 08	P	VS,VG	.007	81.0		
		17 03 16	E	VS				
		17 03 22	E	VS				
		17 03 38	*SP	VS				
		17 13 31	/SCS/	EG				
		17 34,5	LM	EG				
		17 41,5	M	VG				

161	24	12 27 39.5	44.5 N	150.2 E	.007	81.04	24.12	USCGS
		12 39 58	P	VS,VG				
		12 40 16	E	VS,VG				
		13 12,5	LM	EG				
		13 19,5	M	VG				

162	25	00 28 15.4	44.6 N	150.0 E	.006	80.90	24.22	USCGS
		40 29	P	ES	.006			

DOORBES 1961

- 25 -

AVRIL

		40	54		*SP		NS			
		41	04		E		VS,NS			
		1	10,8		LM		NG			
163	25	01	17	42.7	44.5 N	150.0 E	.007	80.99	24.25	USCGS
		1	29	53	P	VS	.007	81.0		
		1	29	59	PCP	VG				
		1	30	04	/*PP/	NG				
		1	40	00	S	EG				
		1	40	22	/SS/	VG				
		2	00,5		LM	EG				
		2	06,5		MR	EG				
164	26	07	38	54.1	44.6 N	149.9 E	-.002	80.87	24.28	USCGS
		7	51	12	P	VS	-.002	81.0		
		7	51	17	PCP	VS,VG				
		7	54	17	PP	VG				
		8	01	23	S	EG				
		8	01	28	ISKS	NG				
		8	10,6		E	EG				
165	26	19	32	34.2	44.6 N	150.1 E	.003	80.92	24.15	USCGS
		19	44	48	P	VS,VG				
		19	44	59	E	VS				
		20	15,6		LM	EG				
166	28	20	48	50.0	47.7 N	007.9 E	-.002	3.24	136.50	BCIS
		20	49	46	IPN	NS	-.002	3.3		
		20	49	48	I	NS,VG				
		20	49	51,9	P*	NS				
		20	49	55	E	VS				
		20	49	58,9	IPG	NS				
		20	50	27	SN	EG				
		20	50	31	E	NS				
		20	50	32,9	S*	NS				
		20	50	35	E	NS				
		20	50	36	I	NS,NG				
		20	50	39	SG	VG,NG				
167	29	09	19	28.3	40.6 N	127.5 O	-.001	80.28	325.07	USCGS
		9	31	41	P	VS,NS	-.001			
		9	31	48	/*PP/	VG				



DOURBES 1961

- 26 -

AVRIL

168	29	09 29	05.0	72.0 N	007.5 0	.000	22.63	350.28	BCIS
		9 34	05	IP	VS,NS	-.003	22.3		
		9 34	11	E	VS,NS				
		9 34	15	I	VS				
		9 34	24	I	NS				
		9 34	52	PPP	VS				
		9 38	11	IS	NG				
		9 39,6		LM	VG				
		9 41,6		MR	EG				
169	29	10 45	39.1	41.8 N	104.5 E	-.002	64.75	54.43	USCGS
		11 20,6		LM	EG,NG				
170	30	07 33	53.5	52.0 N	031.9 0	.001	22.84	288.94	USCGS
		7 38	54	IP	VG	.001	22.5		
		7 39	03	*PP	VG,EG				
		7 39	12	E	VG,EG				
		7 39	23	PP	VG				
		7 42	54	S	VG				
		7 43	05	I*SS	VG,EG				
		7 43	11	I	EG				
		7 43	39	ISS	NG				
		7 44,9		LR	NG				
		7 46,1		MR	EG				
		8 40,6		F	VG				
171	30	11 15	19.8	44.6 N	149.7 E	.007	80.82	24.42	USCGS
		11 27	31	P	VG	.007	81.0		
		11 27	51	*PP	VG				
		11 28	02	*SP	VG				
		11 32	24	PPP	NG				
		11 32	48	E	EG				
		11 32	59	I	NS				
		11 37	32	S	NG				
		11 37	47	SCS	EG				
		11 55,6		LR	NG				
		12 00,9		MR	EG				
		13 02,6		F	VG				
172	30	14 48	11.5	15.3 S	174.4 0	-.002	145.26	358.30	USCGS
		15 07	52	PKP	VS				
		15 07	54	E	VS				
		15 58,5		L	NG				
		16 03,6		LM	VG				
		17 03,6		F	VG				

DOURBES 1961

- 27 -

MAI

173	01	12 19 05.6 12 31 20 12 31 24	40.0 N P E	127.5 O VS,NS VG	-.001	80.80 324.78	USCGS
174	02	03 11 45.7 3 23,8	71.2 N LM	006.9 O NG	-.002	21.81 350.01	USCGS
175	02	07 56 34.0 7 57 28 7 57 59 7 58 08 7 58 13	48.3 N P* S* SG E	007.6 E VS,NS VS EG NB	.000	2.67 131.26 2.8	BCIS
176	02	22 44 44.3 23 04 39 23 05 09 23 06 55 23 08 55 24 11 07	27.8 S PKP E E PP LM	176.5 O VG VG VG VG VG	.002	157.71 2.55 158.0	USCGS
177	04	02 17 34.0 2 29 46 2 29 59 3 05,3	40.6 N P PCP M	127.1 O VS VS EG	-.002	80.13 324.80	USCGS
178	05	13 07 53.3 13 21 17	40.5 N E	127.1 W VG	.000	80.22 324.75	USCGS
179	05	13 43 21.7 14 03 51 14 26 11 15 08,6 15 10,6	27.8 S PKP E LR LM	176.1 O VG NG EG NG	.008	157.72 1.62	USCGS
180	06	16 04 33.1 16 07 50 16 08 08 16 11 50 16 12 52	37.4 N P /PP/ LM M	011.2 E NS EG NG EG	-.001	13.55 157.01	USCGS

DOURBES 1961

- 28 -

MAI

181	06	19 38 04.6 19 48 31 19 54 44 19 55 04 20 06,1	01.2 S E E E LM	015.5 O VS EG,NG VG NG	-.002	53.97 205.12	USCGS
182	06	23 13 29.5 23 32 59	17.2 S PKP	167.9 E NG	.010	144.50 28.21	USCGS
183	07	00 25 40.8 47 24 1 34,3 1 44,5	06.1 S E LM M	154.4 E VS,EG EG NG	.014	129.30 40.27	USCGS
184	07	04 32 14.5 4 56 24	08.6 S E	111.4 E VS	.013	107.26 82.58	USCGS
185	07	15 40 52.5 16 54,6	71.2 N LM	007.1 O VG	.005	21.83 349.85	USCGS
186	08	19 23 35.4 20 11,5 20 20,5	24.3 S LR LM	069.7 O EG VG	.002	98.85 242.71	USCGS
187	10	10 05 13.7 10 25 14 10 28 05 10 49,3	15.8 S *PPKP2 E L	172.3 O NG NG NG	.003	145.68 354.70	USCGS
188	10	17 08 00.0 17 18,6	35.1 N LM	015.8 E VG	.000	17.07 147.17	BCIS
189	11	3 09 32	E	VS			
190	11	08 38 27.1	37.2 S	073.6 O	.002	110.82 236.70	USCGS

DOORBES 1961

- 29 -

MAI

		9 07 23	E	NG					
		9 35,4	LR	NG					
		9 40,8	MR	NG					
		9 43,7	M	NG					
		9 47,5	M	NG					
191	12	04 44 28.6 6 18,8	27.7 S LM	176.2 O VG	.004	157.62	1.85		USCGS
192	12	16 02 59 16 03 50	SN SG	VS NS		7.0			
193	12	21 26 39.3 21 45 25 22 34 19	19.3 S PKP L	179.1 E ES EG	.089	148.94	10.09		USCGS
194	13	14 52 55.3 15 11 39 15 11 42 15 11 43 15 11 59 15 13 48 15 46,4	17.5 S PKP I E E E LM	178.8 O VS,NS VG,NG EG NS VS,VG EG	.082	147.35	6.01		USCGS
195	13	15 49 29.6 16 01 47 16 34,0 16 42,1	43.4 N P L MR	147.8 E VS EG EG	-.001	81.40	26.16		USCGS
196	13	19 19 37.3 19 31 55	25.3 N P	122.6 E VS	.036	86.96	53.12		USCGS
197	14	02 43 22.7 4 11,0 4 23,0	27.9 S LR LM	176.3 O NG NG	.002	157.82	2.09		USCGS
198	14	15 38 07.5	67.7 N	018.4 O	-.002	21.01	335.49		USCGS

DOURBES 1961

- 30 -

MAI

15 42 53	IP	VG	-.002	21.0
15 43 26	PPP	NG		
15 47 03	E	EG,NG		
15 48 17	E	EG		
15 48,9	LR	EG		
15 51,0	MR	NG		

199	14	19 31 34.4	40.8 N	127.4 0	.002	80.07	325.10	USCGS
		19 43 49	P	VS,NS				
		19 47 59	E	NG				
		20 17,1	L	EG				

200	15	19 12 10.8	15.3 S	166.6 E	.004	142.30	29.17	USCGS
		20 26 22	LR	NG				
		20 32 36	M	NG				

201	15	20 53 05.3	20.0 S	177.2 0	.009	149.92	3.36	USCGS
		21 12 43	IPKP2	VS	.009			
		21 12 49	E	VS,NS				
		21 12 53	*PPKP1	VG				
		21 13 58	E	VS				
		21 14 46	E	VS				

202	16	17 27 34.1	27.9 S	176.4 0	.004	157.81	2.33	USCGS
		18 50 48	LM	NG				
		18 55 01	M	EG				

203	16	21 45 24.0	30.0 N	132.0 E	-.002	87.54	43.56	USCGS
		21 58 10	P	NS	-.002	87.0		
		21 58 22	I	VG				
		21 58 31	E	VS,NS				
		21 58 38	E	EG				
		21 59 30	E	NS,VG				
		22 01 43	PP	VS,VG				
		22 08 43	SKS	NG				
		22 08 51	IS	EG				
		22 09 46	SP	VG,NG				
		22 09 22	SPP	NG				
		22 14 58	E	EG				
		22 27,7	L	EG				
		22 32,4	LR	EG				
		22 33,7	M	NG				
		22 41,7	MR	EG				



DOURBES 1961

- 31 -

MAI

204	17	19 29	19.3	52.0 N	173.9 E	-.002	77.78	6.73	USCGS
		19 41	19	IP	VS,NS	-.002	78.0		
		19 41	27	*PP	VS,NS				
		19 44	17	PP	VG				
		19 46	07	PPP	VG				
		19 47	46	E	VG				
		19 51	09	IS	VG,EG				
		19 51	23	ISKS	EG				
		19 51	53	PS	VG,EG				
		19 52	06	ISPP	NG				
		19 52	33	E	EG				
		19 55	53	E	NG				
		19 56	07	SS	VG,EG				
		19 56	19	E	EG				
		20 07,6		LR	VG				
20 15,4		M	NL						
20 22,5		M	EL						
205	18	23 10	13.7	38.2 S	073.4 O	-.002	111.45	235.85	USCGS
			11,6	LM	VG				
			29,6	F	NG				
206	19	16 37	28.9	24.1 N	123.4 E	.006	88.35	53.19	USCGS
		16 50	17	P	VS				
		16 50	30	E	VS				
207	20	17 52	04.6	06.5 S	031.7 E	.004	61.12	148.89	USCGS
		18 26,6		LM	VG				
		18 29,9		M	EG				
208	21	17 41	28.2	03.1 S	080.9 O	-.001	89.41	264.56	USCGS
		17 54	31	P	VS				
		18 12,8		L	NG				
		18 28,6		LM	NG				
209	21	21 40	03.2	34.3 S	150.4 E	-.001	150.39	70.72	USCGS
		21 59	55	PKP1	EG	-.001			
		22 00	01	PKP2	VG				
		22 00	08	*PPKP1	VG,EG				
210	22	13 44	35.8	21.3 S	174.4 O	.010	151.24	358.05	USCGS
		14 04	18	/PKP1/	VS,NS	.010	151.0		

DOURBES 1961

- 32 -

MAI

14 04	23	PKP2	NS,NG
14 04	34	*PPKP1	VS,NS
14 05	01	*PPKP2	EG
14 07	52	PKS	EG
14 08	02	PP	NS,NG
14 15	00	E	NG
14 18	08	E	EG
14 27	42	E	NG
14 47	48	LQ	NG
15 06	38	LR	EG
15 07	38	LR	VG
15 13	38	LM	VG

211	22	17 32	21.0	22.8 S	176.1 O	.000	152.74	1.40	USCGS
		17 52	10	PKP1	VS	.000	152.5		
		17 52	18	*PPKP	VS				
		17 52	28	PKP2	VS,EG				
		17 52	49	E	NS				
		17 53	05	E	VS				
		17 56	04	PP	NG				
		18 43	38	LR	NG				
		18 51	38	LR	EG				
		18 58	38	LM	EG,NG				

212	23	02 45	18.8	36.8 N	028.7 E	.006	21.83	118.31	USCGS
		2 50	05	IP	NG	.006	21.8		
		2 50	12	E	VS,NS				
		2 50	18	*PP	VS				
		2 50	29	PP	VS				
		2 50	39	PPP	NS				
		2 50	56	E	VS				
		2 52	03	E	NS,VG				
		2 54	01	S	NS				
		2 54	16	*SS	NG				
		2 56	11	LR	NS				
		3 00	18	LM	VS				
		3 01	24	SCS	NS				

213	23	03 40	26.1	09.8 N	084.0 O	.016	81.59	275.25	USCGS
		3 52	34	P	VS,NS	.016			
		3 53	02	*PP	NS				
		3 53	20	E	NS				
		3 55	21	E	VG				
		4 21	00	LQ	VG				
		4 25	22	LR	EG,NG				
		4 27	22	LM	NG				

DOURBES 1961

- 33 -

MAI

214	23	5 42 50	W2	NG					
		5 50 08	W2	EG					
		5 55 18	W2	NG					
		6 00 23	L	NG					
		6 03 18	L	EG					
		6 11 38	L	VG					
215	23	16 44 59.4	12.6 N	087.3 O	.017	81.58	279.57		Z
		16 57 02,9	IP	NS	.016	82.0			
		16 57 30	/*PP/	NS					
		16 59 13	I	NG					
		17 00 06	E	NS					
		17 00 19,9	IPP	VS					
		17 07 08	S	NG					
		17 08 02	*SS	EG					
		17 20 25	L	EG					
		17 29 01	M	EG					
216	25	13 11 42.0	37.0 N	026.9 E	.000	20.68	120.77		BCIS
		13 16 25	P	VS		21.2			
		13 17 09	IPPP	EG					
		13 22 39	LR	NG					
217	25	21 07 29.7	14.8 S	177.4 O	.060	144.74	3.34		USCGS
		21 26 22,2	IPKP	VS					
218	26	03 22 08.6	32.9 S	109.6 O	.003	129.41	263.71		USCGS
		3 42 14	I	NS					
219	26	08 42 15.0	10.1 S	070.6 O	.001	88.32	252.23		USCGS
		8 56 19	IP	NS					
220	26	22 49 49.4	38.4 N	142.9 E	.004	84.43	31.63		USCGS
		23 36 48	L	EG					
221	27	07 18 12.2	41.0 N	142.1 E	.019	81.82	31.06		USCGS
		7 30 23	P	NS					
		8 01 27	LR	EG					

DOORBES 1961

- 34 -

MAI

222	27	16 52 17 45 17 55	19.3 57 23	00.8 N LM LM	098.5 E NG EG	.001	91.84	86.49	USCGS
223	27	22 38 23 35	35.5 38	15.8 N L	119.2 E VG	.009	92.84	61.18	USCGS
224	28	08 59 9 03 9 03 9 03 9 03	16.0 02 07 10 19	44.2 N E S* E E	011.5 E ES ES,NS VS VS	.000	7.54 7.6	138.84	BCIS
225	29	00 22 1 13	55.6 08	52.1 N LM	166.6 O EG	.005	77.81	354.47	USCGS
226	29	04 13 4 17	41.0 18	44.2 N SN	011.5 E ES,NS	.000	7.54	138.84	BCIS
227	29	04 59 5 29	40.0 32	10.5 N M	039.5 E EG	.000	48.85	131.68	BCIS
228	29	07 28 8 31,0	11.7 0	39.0 S LM	073.4 O VG,EG	.004	112.04	235.27	USCGS
229	29	10 52 11 10 11 20	01.2 38 48	10.6 N LQ LM	039.4 E EG,NG VG	.002	48.72	131.73	USCGS
230	29	19 26 19 44 19 53	05.5 08 58	10.4 N LQ M	040.0 E NG EG	.003	49.18	131.18	USCGS
231	30	02 04 2 06 2 06	00.0 14.5 17	46.0 N SN E	008.0 E NS NS	.000	4.69 4.7	149.62	BCIS

DOORBES 1961

- 35 -

MAI - JUIN

		2 06	24,5	S*	ES					
		2 06	27	E	ES					
232	31	14 39	20.4	48.9 N	154.5 E	.003	77.95	19.74	USCGS	
		14 54	08	LR	VG					
		15 07	23	M	VG					
233	31	19 15	57.0	05.3 S	151.6 E	.004	127.38	43.04	USCGS	
		20 21	08	LR	NG					
		20 30	40	M	VG					
234	01	10 02	42.0	19.3 N	069.3 O	-.002	65.09	270.71	USCGS	
		10 31	01	LR	VG					
		10 35	59	LM	EG					
235	01	23 29	21.2	10.3 N	039.8 E	.000	49.17	131.47	USCGS	
		23 38	09	IP	VG,EG	.000	49.3			
		23 38	16,2	I*PP	VG					
		23 38	44	E	NS					
		23 39	07	I	VG					
		23 40	10	I/PP/	NG					
		23 40	56	IPPP	NG					
		23 45	15	IS	NG					
		23 45	31	PPS	EG					
		23 48	17	I	NG					
		23 48	59	I	EG					
		23 50	05	ISSS	VG					
		23 50	24	I	EG					
		23 54	09	LR	VG					
		23 59	17	M	EG					
236	02	04 51	14.8	10.3 N	039.8 E	.000	49.17	131.47	USCGS	
		5 00	02	IP	NG	.000	49.3			
		5 00	09	I*PP	NG					
		5 00	33	I	VG,NG					
		5 01	56	IPP	NG					
		5 02	47	PPP	VG					
		5 06	49	I	EG					
		5 07	05	IS	VG,EG					
		5 07	19	*SS	NG					
		5 10	06	/SCS/	NG					
		5 10	51	E	EG					
		5 14	09	L	EG					
		5 22	49	M	VG					



DOURBES 1961

- 36 -

JUIN

237	02	05 22 5 31	29.1 23	10.4 N P	039.6 E NS	-.001	48.99	131.63	USCGS
238	02	18 26 19 03	12.6 09	03.0 S LR	080.4 O EG	.000	89.01	264.24	USCGS
239	03	23 32 1 09	32.1 09	09.5 N M	039.8 E EG	.000	49.87	131.98	USCGS
240	03	01 13 1 34 1 49 1 58	25.4 22 41 29	56.3 N S LR M	164.8 E VG VG EG	-.001	72.61	11.39	USCGS
241	03	06 16 6 28 6 31	16.7 54 09	39.0 N LR M	032.2 E NG VG,EG	.002	22.43	109.06	USCGS
242	03	15 20 15 32 15 32 15 32 15 34 15 39 15 39 15 42 15 57	30.9 05 13 19 02 19 30 09 31	10.6 N P *PP I IPP IPS I*SS LR M	039.8 E VG VG VG,NG EG,NG NG VG EG VG	.000 .000	48.91	131.28	USCGS
243	04	07 33 7 42 7 50 7 53 7 55 7 56 8 02 8 05	06.0 51 53 22 10 10 57 32	34.1 N P S I E L LR M	082.0 E EG,NG NG EG VG VG,NG NG NG	-.001	57.00 57.0	74.72	USCGS
244	08	15 44	04.0	08.3 S	122.0 E	-.003	113.70	73.73	USCGS

DOUBES 1961

- 37 -

JUIN

		16 03	11		E	NG					
		16 13	11		PS	EG					
		16 46	41		LR	EG,NG					
245	10	08 52	05.4	08.5	N	103.3	0	.000	94.70	289.19	USCGS
		9 36	26	L		EG					
246	10	20 31	50.9	24.2	S	112.1	0	.002	125.11	273.60	USCGS
		21 02	47	PS		EG		.002	125.0		
		21 09	41	SS		NG					
		21 10	12	/SSP/		EG					
		21 22	01	L		EG					
		21 30	41	LR		EG					
		21 42	36	M		NG					
247	11	05 10	26.3	27.9	N	054.6	E	.001	43.70	101.31	USCGS
		5 18	30	IP		VG,EG		.001	44.0		
		5 20	28	PP		VG					
		5 25	03	S		VG					
		5 30	11	L		VG,EG					
		5 35	11	M		NG					
248	11	10 19	23.6	46.8	N	027.4	0	-.002	21.35	273.51	USCGS
		10 30	11	L		NG					
249	11	12 31	26.8	28.2	N	054.6	E	.001	43.49	101.00	USCGS
		12 39	29	IP		EG		.001	43.7		
		12 39	42	E		VG,NG					
		12 41	14	IPP		VG,EG					
		12 45	59	S		VG					
		12 46	21	PS		VG					
		12 51	31	L		EG					
		12 56	11	M		NG					
250	11	13 57	58.3	27.8	N	054.6	E	.001	43.77	101.41	USCGS
		14 06	04	IP		NS		.001	43.9		
		14 12	31	S		VG					
		14 21	13	L		VG					
		14 25	50	M		EG					
251	11	17 15	34.5	25.2	N	098.6	E	.000	73.46	70.41	USCGS

DOURBES 1961

- 38 -

JUIN

		17 55	11		L		VG,EG			
252	12	09 58 10 42	17.1 54	21.6 N LM		106.0 E NG	.000	80.62	67.55	USCGS
253	13	21 37 21 57 21 58 22 19	55.0 36 17 49	21.5 S PKP I*PPKP L		176.4 O ES VG NG	.018 .018	151.44	1.93	USCGS
254	14	00 24 49 1 19	27.4 33 55	27.9 N LR LM		055.0 E NG NG	.000	43.95	100.95	USCGS
255	14	20 32 20 41 20 43 20 48 20 59 21 10	21.6 06 04 15 32 12	10.5 N P IPP S LR M		039.9 E EG VG VG NG EG	.000 .000	49.05 49.0	131.23	USCGS
256	15	06 21 6 46	35.6 12	27.8 N LM		054.8 E NG	.001	43.89	101.23	USCGS
257	15	23 24 23 36 23 46 24 07 24 08	43.8 51 56 00 40	45.9 N IP IS LR LM		151.2 E NS,VG EG EG NG	.001	80.00 80.0	22.94	USCGS
258	16	07 08 8 02 8 08 8 16	16.5 43 43 43	41.3 S LR LR M		074.5 O NG EG NG	-.003	114.29	234.22	USCGS
259	17	15 07 15 19 15 30	33.7 52 13	14.2 N P S		092.0 O VS EG	.008	83.33 83.0	284.13	USCGS

DQURBES 1961

- 39 -

JUIN

		15 46 57		LR	EG					
		15 51 31		LM	NG					
260	18	22 13 25.1		56.6 S	142.2 O	.000	159.23	238.88		USCGS
		23 38 13		LM	NG					
261	19	01 45 25.5		12.7 N	122.1 E	.002	96.98	60.68		USCGS
		2 35 43		LM	NG					
262	19	02 46 03.6		39.3 N	143.1 E	.001	83.69	31.10		USCGS
		3 30 13		LM	EG					
263	19	07 38 25.0		39.3 N	143.0 E	-.001	83.65	31.17		USCGS
		8 27 13		LM	VG,EG					
<del>264</del>	<del>19</del>	<del>10 57 15</del>		<del>IPG</del>	<del>VS</del>					
265	19	17 04 37.0		36.5 N	070.9 E	.026	48.51	79.71		USCGS
		17 13 00		P	ES	.026	48.5			
		17 13 45		*PP	VG,EG					
		17 14 05		I	NG					
		17 14 43		E	NG					
		17 19 50		IS	EG					
		17 23 43		L	NG					
266	20	03 21 34.3		12.2 N	044.2 E	.000	49.76	125.32		USCGS
		3 30 25		P	VS		50.0			
		3 37 41		IS	NG					
		3 38 18		E	VG					
		3 40 25		E	NG					
		3 44 07		LR	EG					
		3 48 44		LM	NG					
		3 57 39		M	NG					
267	20	14 27 02.6		21.9 S	169.8 E	.005	149.51	27.86		USCGS
		14 46 59		PKP	VS					

DOURBES 1961

- 40 -

JUIN

268	21	06 39	23.0	27.8 N	054.8 E	.001	43.89	101.23	USCGS
		6 47	27,3	P	ES				
		6 59	50	LR	NG				
		7 04	01	LM	NG				
		7 08	44	M	NG				
269	21	16 04	47.2	37.9 N	028.7 E	-.001	21.07	116.15	USCGS
		16 09	30,3	P	VS		21.1		
		16 13	31	S	EG				
		16 16	34	LR	EG,NG				
		16 18	29	M	NG				
		16 19	26	M	EG				
270	21	20 25	00.9	07.6 S	110.0 E	.020	105.60	83.02	USCGS
		20 49	28	SKS	NS				
		21 11	42	LQ	EG				
		21 16	34	LR	EG				
271	22	00 56	03.7	42.4 N	019.3 E	-.001	12.73	121.57	USCGS
		59 04		IP	NS	-.001	13.1		
		1 01	30	IS	ES				
		1 02	04	SSS	NG				
		1 02	44	LR	NG				
		1 03	17	M	EG				
272	23	08 55	55.2	44.1 N	128.9 O	.004	77.71	327.71	USCGS
		9 07	53	P	VS				
		9 17	49	I/S/	EG				
		9 22	43	L	EG,NG				
		9 32	13	M	NG				
273	23	70 40	27	PG	NS				
274	23	16 36	22.8	27.6 N	055.1 E	-.001	44.22	101.16	USCGS
		16 44	33	IP	EG		44.0		
		16 51	00	S	EG				
		16 53	43	LR	NG				
		17 01	13	MR	NG				
275	24	05 07	55.6	13.4 N	089.9 O	.008	82.62	282.04	USCGS



DOORBES 1961

- 41 -

JUIN

		5 50 33	LR	NG					
		6 01 13	M	EG					
276	24	09 36 05.6	04.0 N	097.5 E	.016	88.76	85.21	USCGS	
		9 48 53	P	ES,NS					
		10 05 39	SS	NG					
		10 28 55	M	NG					
277	24	16 19 23.7	04.6 S	144.9 E	.028	123.63	49.90	USCGS	
		16 38 01	IPKP	VS					
278	25	02 29 28.2	40.9 N	144.2 E	-.002	82.60	29.65	USCGS	
		2 41 51	P	VS					
279	25	09 10 04.2	19.5 S	177.9 O	.071	149.39	4.62	USCGS	
		9 29 01	PKP	ES					
280	25	12 40 23.7	27.9 N	053.7 E	.003	43.13	102.12	USCGS	
		12 48 21	P	VS					
281	25	16 46 38.6	21.8 N	143.5 E	.000	99.61	38.26	USCGS	
		17 10 13	F	EG,NG					
		17 16 33	LQ	NG					
		17 38 13	LR	EG					
282	25	19 14 02.3	36.8 N	141.6 E	-.002	85.42	33.26	USCGS	
		20 06 13	M	NG					
283	26	07 02 52.9	21.5 S	170.1 E	.000	149.22	27.09	USCGS	
		7 22 43	IPKP	VS					
		8 15 33	LR	EG					
284	26	14 47 27.3	52.2 N	174.7 E	.001	77.64	6.20	USCGS	
		14 59 21.4	P	VS,ES		77.3			
		15 03 45	F	NG					
		15 09 13	S	EG					

DOORBES 1961

- 42 -

JUIN

15	14	43	L	NG
15	37	33	M	NG

285	27	07 03	42.2	28.0 N	099.4 E	.000	71.88	67.89	USCGS
		7 15	09	P	ES,NG		72.0		
		7 16	38	E	EG,NG				
		7 20	38	E	NG				
		7 24	31	S	EG,NG				
		7 28	53	L	NG				
		7 42	13	M	NG				

286	27	07 52	53.5	54.6 N	158.6 E	.038	73.33	15.41	USCGS
		8 03	57	P	VS,NS				
		8 14	20	E	NS				

287	27	10 45	54.7	28.0 N	049.9 E	.000	40.69	105.58	USCGS
		11 00	13	E	VS,ES				

288	28	04 21	53.8	31.4 N	104.0 E	.000	72.05	62.38	USCGS
		5 01	12	LM	NG				

289	29	03 05	54.0	46.3 N	007.5 E	.000	4.26	151.84	BCIS
		3 07	56	E	NS				

290	29	09 22	55.8	13.9 S	166.0 E	.001	140.80	29.33	USCGS
		9 42	27	PKP	EG		141.0		
		9 45	27	PP	NG				
		9 46	16	I/PKS/	NG				
		10 04	00	SS	NG				
		10 05	23	E	NG				
		10 33	32	LR	EG				
		10 41	24	LM	EG				

291	29	12 52	49.0	50.8 N	010.1 E	.000	3.58	76.55	BCIS
		12 53	55	PG	ES,EG		3.2		
		12 54	26	S*	NG				
		12 54	45	E	VS,NS				
		12 55	06	E	NG				

DOORBES 1961

- 43 -

JUIN - JUILLET

292	29	22 01	24.1	85.0 N	097.8 E	.000	40.59	7.72	USCGS
		22 09	05,8	P	ES		41.1		
		22 15	18	S	NG				
		22 18	12	L	EG				
		22 30	44	M	EG				
293	30	05 05	20.0	34.5 N	026.2 E	.000	22.19	126.45	BCIS
		5 10	16,8	P	NS				
		5 14	27	/S/	NG				
		5 17	25	L	EG				
294	01	13 10	40.9	74.8 S	015.3 O	.005	125.39	186.31	USCGS
		13 23	47,9	P	VS				
		13 24	10,4	E	VS				
		14 02,9		LM	EG				
295	01	18 50	57.5	18.0 S	178.4 E	.083	147.57	11.03	USCGS
		19 09	33,9	PKP	ES				
296	02	21 58	37.0	45.3 N	014.3 E	.000	8.11	122.58	BCIS
		22 41,7		LM	EG,NG				
297	05	02 28	41.2	58.4 S	150.3 E	.000	158.47	125.94	USCGS
		3 57,0		LM	EG				
		4 00,9		LM	EG				
		4 03,2		LM	EG				
298	06	16 08	20.8	07.0 S	013.1 O	-.003	58.96	200.60	USCGS
		16 18	33	*PP	VS,VG	-.003			
		16 18	50	E	VS				
		16 19	15	E	VS				
		16 26	31	/S/	EG				
		16 32,7		L	EG				
		16 39,0		LM	EG				
299	06	22 09	29.4	20.6 S	169.4 E	-.001	148.16	27.73	USCGS
		22 28	14	PKP1	VS,VG	-.002	148.0		
		22 28	19	PKP2	VS,NS				
		22 32	41	/PKS/	VG,NG				
		22 32	58	E	EG				

DOURBES 1961

- 44 -

JUILLET

22 33 09	E	NG
22 34 01	*PPP	VG,EG
22 36 19	SKS	VG
22 36 31	*SSKS	VG
22 39 11	/SKKS/	EG
22 40 16	SKKKS	VS
22 45 35	PPS	VG
22 47 00	E	VG,EG
22 51 47	E	NG
22 51 57	SS	EG
22 52 17	*SSS	VG
22 52 41	PSS	VG
22 57 33	SSS	VG
22 58 07	E	EG
23 12,0	MQ	NG
23 18,4	LR	VG
23 23,4	MR	VG
23 28,6	LM	EG
23 34,7	M	NG

300	07	12 33 40.8	20.5 S	169.2 E	.000	148.00	28.01	USCGS
		12 53 24	PKP	VS				

301	07	13 10 43.8	05.7 S	149.7 E	.004	126.88	45.39	USCGS
		13 29 49,8	PKP	VS,ES	.000	127.0		
		13 30 04	E	VG				
		13 31 47	PP	VG,NG				
		13 32 05	E	NG				
		13 33 10	PKS	EG,NG				
		13 34 34	PPP	NG				
		13 34 51	E	NG				
		13 36 39	SKS	EG				
		13 36 59	*SSKS	EG				
		13 41 50	PS	EG,NG				
		13 43 32	PPS	VG				
		13 48 37	SS	NG				
		13 49 05	SSP	EG				
		13 49 23	PSS	NG				
		14 14,5	LM	VS,EG				
		14 22,2	M	EG				

302	07	14 41 48.8	20.4 S	169.2 E	.000	147.91	27.95	USCGS
		15 01 33	PKP	VS				

303	07	17 01 51.9	23.9 N	098.5 E	.000	74.36	71.38	USCGS
		17 40,5	L	EG,NG				

DOURBES 1961

- 45 -

JUILLET

		17 46,4		LM	VG				
304	07	22 19 31.6	20.2 S	169.0 E	.001	147.66	28.16	USCGS	
		22 39 12	PKP1	VS	.000	147.5			
		22 39 23	PKP2	VS					
		22 42 43	PP	NG					
		23 34,5	MR	NG					
		23 42,5	LM	NG					
305	07	22 48 10.0	15.2 S	172.5 0	.000	145.09	355.10	BCIS	
		23 54,5	LM	NG					
306	08	02 35 20.5	20.2 S	168.7 E	.000	147.57	28.66	USCGS	
		2 55 01	PKP1	VS	.000	147.5			
		2 55 14	*PPKP1	VS					
		2 55 23	*PPKP2	VG					
		2 55 47	E	EG					
		2 56 58	E	EG					
		2 58 31	PP	VG					
		2 58 55	E	NG					
		3 17 43	SS	EG					
		3 18 15	E	NG					
		3 57,7	LR	VG,NG					
		3 59,3	MR	VG,NG					
		4 02,9	M	NG					
307	08	03 25 23.4	20.7 S	169.1 E	.000	148.16	28.30	USCGS	
		3 45 07	PKP1	VS					
		4 17,9	LM	NG					
308	08	15 08 32.6	20.2 S	169.0 E	.000	147.66	28.16	USCGS	
		15 28 15	PKP1	VS,VG					
		15 28 21	PKP2	VS					
		15 28 28	E	VS					
309	08	15 34 37.4	20.1 S	168.7 E	-.002	147.47	28.60	USCGS	
		15 54 21	PKP1	VS,ES		147.5			
		15 54 25	E	VS					
		15 54 27	PKP2	NS,VG					
		15 57 52	PP	VG,EG					
		16 04 39	SKKS	NG					
		16 10 58	PPS	EG					



DOURBES 1961

- 46 -

JUILLET

		16 17 04	SS	NG					
		16 17 30	SSP	NG					
		16 22 47	SSS	NG					
310	08	15 40 00.0	20.5 S	169.0 E	.000	147.94	28.34	BCIS	
		15 59 56	PKP2	VS,NG		148.0			
		16 00 03	E	VS					
		16 03 25	PP	NG					
		16 04 01	PKS	NG					
		16 06 37	E	VG					
		16 06 56	SKS	NG					
		16 22 35	SS	EG					
311	08	19 09 00.0	20.5 S	169.0 E	.000	147.94	28.34	BCIS	
		19 29 25	PKP1	VG					
		19 29 32	/PKP2/	VS					
312	08	21 13 59.5	20.4 S	169.5 E	.000	148.00	27.45	USCGS	
		21 33 42	PKP1	VS,NG					
		21 33 55	E	NS					
		21 34 01	E	VG					
		22 38,3	L	NG					
313	08	21 48 42.3	20.4 S	169.0 E	-.003	147.85	28.28	USCGS	
		22 08 27	PKP1	VS,NG					
		22 08 33	PKP2	VS,NG					
		22 08 46	E	VS					
314	09	06 32 47.5	15.6 N	087.3 O	.002	79.32	281.55	USCGS	
		7 18,0	LM	EG					
315	09	08 05 45.9	29.0 N	054.7 E	-.002	43.00	100.07	USCGS	
		8 13 49	P	VS					
316	10	03 49 56.4	19.3 S	068.4 O	.013	94.20	244.88	USCGS	
		4 03 38	*PP	VS	.013	94.8			
		4 13 35	E	EG					
		4 14 08	S	EG					
		4 14 26	E	EG					
		4 15 02	*SS	NG					

DOORBES 1961

- 47 -

JUILLET

317	10	12 16 29.4 12 53 50 13 38,4	20.8 S E L	179.5 O ES NG	.083	150.57	7.81	USCGS
318	11	01 21 06.2 2 06,2 2 10,1	45.2 N L L	148.1 E EG NG	.000	79.83	25.25	USCGS
319	11	09 31 42.6 9 44 08 9 47 23 9 47 51 9 54 28 9 54 57 9 55 22 10 20,0 10 24,4	08.0 N P PP E SKS E PS L L	093.1 E VS, VG VG, EG VS NG NG EG NG VG	-.003	82.90 83.0	85.99	USCGS
320	12	02 48 48.0 2 58,4	39.1 N L	023.4 E EG, NG	.000	17.26	122.40	USCGS
321	13	22 10 01.4 23 32,0 23 41,4	25.3 S L LM	180.0 E NG VG	.068	154.98	9.86	USCGS
322	15	00 17 53.5 31 14 1 16,3	13.3 N P L	120.6 E VS VG	.006	95.65	61.53	USCGS
323	16	06 47 26.4 7 06 51	18.9 S PKP	175.6 O VS	.027	148.86	.36	USCGS
324	16	14 01 35.8 14 21 29 15 24,2 15 30,7	23.0 S PKP L LM	171.4 E VS EG VG	-.003	151.01	25.72	USCGS

DOORBES 1961

- 48 -

JUILLET

325	16	20 00	08.6	34.6 S	178.4 O	.005	164.35	9.18	USCGS
		21 10,8		L	EG				
326	16	21 08	45.6	49.5 N	155.1 E	-.001	77.51	19.16	USCGS
		21 20	42,5	P	VS,NS				
		21 55,2		L	NG				
327	16	23 03	26.9	18.1 S	179.3 O	.087	147.91	6.98	USCGS
		23 22	10	PKP	VS				
328	17	01 01	09.7	16.8 N	097.6 O	.000	84.78	289.97	USCGS
		1 13	41	P	VS,ES	.001			
		1 13	50	*PP	VS				
		1 47,5		L	EG				
		1 57,2		LM	EG				
329	17	05 13	21.3	27.8 N	055.1 E	-.003	44.08	100.96	USCGS
		5 38,7		L	NG				
330	17	14 53	30.9	41.2 N	072.3 E	.005	46.59	73.72	USCGS
		15 01	54	P	VS				
		15 22,5		L	NG				
331	17	16 20	19.1	35.8 N	141.3 E	.003	86.21	33.92	USCGS
		16 32	57	P	VS,VG	.003	86.0		
		16 33	05	E	VG				
		16 33	10	*PP	VS				
		16 33	25	E	VS				
		16 43	25	S	NG				
		16 43	35	E	EG				
		16 43	51	*SS	NG				
		17 03,3		L	EG				
		17 08,3		L	EG				
		17 14,1		M	NG				
332	18	14 03	36.5	29.4 N	131.6 E	-.001	87.88	44.17	USCGS
		14 19	56	PP	VS,NG		88.0		
		14 26	51	E	EG,NG				
		14 27	10	S	ES,NS				
		14 28	01	E	VG				

DOUBRES 1961

- 49 -

JUILLET

		14 32 40	/SS/	NG					
		14 46,8	L	EG					
		14 54,8	M	VG					
		15 00,5	M	ES					
333	18	14 34 03.1	29.7 N	131.5 E	.000	87.57	44.09		USCGS
		14 46 49	P	VS,ES	.000				
		14 46 54	*SP	VS,ES					
		14 46 59	*PP	VS,ES					
334	18	15 16 12.5	29.7 N	131.3 E	.000	87.48	44.24		USCGS
		15 29 02	P	VS,ES					
335	18	19 29 07.5	29.3 N	131.8 E	.000	88.05	44.07		USCGS
		19 41 59	P	VS					
		20 16,3	L	EG					
		20 19,7	LM	NG					
336	18	21 26 30.5	13.9 N	056.6 E	.002	55.38	111.66		USCGS
		21 36 04	P	VS					
337	18	23 42 36.5	29.8 N	131.5 E	.001	87.49	44.04		USCGS
		23 56 27	P	VS					
		24 29,5	L	EG					
		24 35,2	L	VG,EG					
		24 39,9	LM	VG					
338	19	05 29 59.3	29.7 N	131.9 E	.002	87.75	43.79		USCGS
		6 20,0	L	EG					
		6 23,6	LM	VG					
339	19	06 33 18.1	29.8 N	131.7 E	-.001	87.58	43.89		USCGS
		6 56 51	S	EG					
		7 22,5	L	EG					
		7 24,6	L	VG					
		7 30,3	LM	VG,EG					
340	19	09 19 27.8	37.0 N	142.0 E	.005	85.38	32.89		USCGS

DOORBES 1961

- 50 -

JUILLET

		10 40,0		L		EG				
341	19	10 39 27.0 10 44 53		36.3 N E		022.5 E VS,NS	.000	18.91 130.04		BCIS
342	19	10 35 41.4 11 22,9 11 25,6		29.9 N L LM		131.5 E NG NG	-.002	87.40 43.99		USCGS
343	19	11 58 43.7 12 11 28 12 22 01 12 22 13 12 47,3 12 51,4		29.8 N P E S L LM		131.5 E VS,ES NG EG,NG EG EG,NG	-.001 .000	87.49 44.04 87.5		USCGS
344	19	19 45 33.2 20 39,5		29.7 N E		131.8 E EG	.000	87.71 43.87		USCGS
345	19	23 00 56.7 23 04 49 23 04 59,5 23 07 55 24 13,3		37.9 N P *PP S M		020.2 E VS,ES VS VG,NG EG,NG	.001 .001	16.52 131.63 16.7		USCGS
346	20	03 04 42.8 3 56,8		29.6 N E		131.5 E EG	.000	87.66 44.14		USCGS
347	20	06 47 43.4 7 39,5		10.9 N L		124.8 E NG	.001	99.96 59.51		USCGS
348	20	09 02 44.9 9 49,5 9 54,8 9 59,6		30.4 N L L LM		131.7 E EG,NG EG,NG EG	.000	87.07 43.58		USCGS
349	20	15 10 26.7		17.6 S		178.7 O	.084	147.45 5.84		USCGS



DOORBES 1961

- 51 -

JUILLET

		15 29 11	PKP1	VS					
350	20	19 58 03.0 21 34,4 21 46,1	32.0 S L LM	177.2 O EG NG	.002	161.87	4.90		USCGS
351	21	04 32 28.2 4 43,1	40.5 N L	030.5 O NG	.000	26.23	262.11		USCGS
352	21	13 07 12.9 13 26 54	19.5 S PKP	169.4 E VS	.000	147.12	27.09		USCGS
353	21	18 50 54.7 19 03 40 19 14 17 19 24,5 19 30,8 19 47,6	29.8 N P S L L LM	131.7 E VS, VG EG EG NG EG	.000 .000	87.58 87.5	43.89		USCGS
354	21	22 39 53.2 22 52 32 23 03 23 23 03 29 23 29,4 23 32,1	29.8 N E S E L L	131.6 E VS NG EG EG VG	.000	87.53	43.96		USCGS
355	22	10 27 51.8 11 41,9	20.3 S L	174.0 O EG	-.002	150.23	357.34		USCGS
356	22	13 53 56.1 14 07,2	36.6 N L	070.2 E EG, NG	.026	48.00	80.07		USCGS
357	22	18 12 28.1 19 41,3 19 44,9	54.1 S L L	140.4 E EG, NG NG	.000	152.84	115.72		USCGS
358	22	20 53 30.0	40.8 N	072.2 E	.003	46.76	74.23		USCGS

DOORBES 1961

- 52 -

JUILLET

21 19,3

L

NG

359	22	22 05	46.0	47.9 N	006.4 E	.000	2.50	150.93	BCIS
		22 05	55	E	ES				
		23 26,3		L	EG				
360	23	14 03	39.9	18.6 S	185.2 E	.002	148.56	358.90	USCGS
		14 23	17	PKP1	VG,EG	.002	148.5		
		14 23	20	PKP2	VS				
		14 23	26,5	*PPKP1	NS				
		14 23	31	*PPKP2	VS,NS				
		14 24	02	E	EG				
		14 30	28	SKS	NG				
		14 31	36	E	VG				
		14 33	21	E	EG				
		15 11,7		LR	NG				
		15 25,8		LM	NG				
361	23	14 16	34.3	18.4 S	168.1 E	.002	145.69	28.57	USCGS
		14 36	12	PKP1	VS,NS	.002			
		14 36	18	PKP2	NS				
		14 36	24,5	*PPKP1	VS				
		15 33,1		LR	EG				
		15 38,0		LM	NG				
362	23	14 37	56.9	06.8 N	123.5 O	.000	107.65	304.90	USCGS
		14 57	44	PKP2	EG				
363	23	15 28	52.6	18.5 S	168.2 E	.001	145.81	28.47	USCGS
		48	30	PKP1	VS	.001	145.8		
		48 48	40	*PPKP1	VS,VG				
		48 51	54	PP	NG				
		48 55	48	E	VG				
364	23	15 30	17.2	18.3 S	168.2 E	.000	145.63	28.35	USCGS
		15 49	53	PKP1	VS	.000	145.5		
		15 49	58	PKP2	VS				
		15 50	03	*PPKP1	VS				
		15 50	15	E	ES				
		15 50	48	E	VG				
		15 53	24	PP	NG				
		16 44,5		MR	EG				

DOORBES 1961

- 53 -

JUILLET

		16 52,3			LM	NG				
365	23	21 51	07.5	18.5 S	168.3 E	.001	145.85	28.31	USCGS	
		22 10	43	PKP1	VS,ES	.002				
		22 10	51	*SPKP1	VS,ES					
		22 10	52	*PPKP1	VS					
		22 10	58	*PPKP2	VS,ES					
		22 14	08	PP	VS,VG					
		22 14	19	E	ES					
366	23	22 01	55.3	18.5 S	168.3 E	.001	145.85	28.31	USCGS	
		22 21	34	IPKP1	VS,ES					
367	23	22 35	09	E	VS					
368	23	22 41	01.2	18.1 S	168.1 E	.000	145.41	28.40	USCGS	
		23 00	39	PKP1	VS					
369	23	23 22	07.8	18.7 S	168.0 E	-.003	145.94	28.90	USCGS	
		23 41	47	PKP1	VS					
370	23	23 46	18.5	18.5 S	168.2 E	-.002	145.81	28.47	USCGS	
		5 57		PKP1	VS					
371	24	9 35		E	VS					
372	24	00 34	53.7	18.2 S	168.0 E	.000	145.47	28.61	USCGS	
		54 30		PKP1	VS					
373	24	01 30	56.6	21.2 S	179.2 O	.088	150.99	7.31	USCGS	
		1 49	42	PKP1	VS					
		1 49	52	E	VS					
		1 52	04	E	VS					

DOORBES 1961

- 54 -

JUILLET

374	24	01 58	52.3	18.3 S	168.4 E	-.002	145.69	28.03	USCGS
		2 18	29	PKP1	VS,ES				
		2 18	39	E	VS,ES				
375	24	02 53	03.0	18.4 S	168.2 E	.000	145.72	28.41	BCIS
		3 12	49	PKP	VS,ES				
376	24	13 12	55.0	18.8 S	168.0 E	.000	146.04	28.96	BCIS
		13 32	35.5	PKP1	VS				
		14 37,3		L	NG				
377	24	20 06	14.9	18.7 S	168.2 E	.000	146.00	28.58	USCGS
		20 25	51	PKP	VS				
378	24	23 24	05.0	36.6 N	026.1 E	.000	20.54	122.88	BCIS
		23 28	30	E	VS				
379	25	01 30	34.4	18.9 S	167.6 E	.001	146.00	29.66	USCGS
		1 50	09	PKP1	VS,NS				
380	25	02 48	13.4	08.9 S	071.4 O	.088	87.88	253.59	USCGS
		2 59	51	P	VS,ES	.088	87.0		
		3 02	09	*PP	VS				
		3 09	31	E	NG				
		3 09	56	E	EG,NG				
		3 12	46	E	EG,NG				
		3 13	38	*SS	EG				
381	25	08 50	40.5	18.3 S	167.6 E	.000	145.44	29.30	USCGS
		9 10	15	PKP1	VS				
382	25	12 00	54.7	20.9 N	123.3 E	.000	90.93	55.07	USCGS
		12 48,3		L	NG				
383	25	18 39	24.1	00.0 N	124.7 E	.002	108.77	66.05	USCGS
		19 37,3		L	NG				

DOORBES 1961

- 55 -

JUILLET

384	26	12 00	39.0	47.7 N	013.0 E	.000	6.03	110.21	BCIS
		12 01	48	E	NS				
		12 02	19	E	VS				
385	27	10 30	17.4	18.2 S	167.5 E	.000	145.31	29.40	USCGS
		11 31,2		L	NG				
386	27	11 33	49.6	19.1 S	169.2 E	.022	146.68	27.19	USCGS
		11 53	12	PKP1	VS				
387	27	18 35	44.2	34.9 N	025.4 E	.000	21.46	127.16	USCGS
		18 40	29	P	VS,NS	.000	21.2		
		18 40	32	E	VS				
		18 44	28	*SS	NG				
		18 46,1		L	VG				
388	27	23 59	26.9	53.7 N	110.7 E	.000	59.33	41.53	USCGS
		9 25		P	VS,NS				
		36,8		L	NG				
389	28	00 34	19.5	27.1 N	126.6 E	.018	87.48	49.13	USCGS
		46 52		P	VS				
390	28	01 05	30.0	02.2 S	077.1 O	.016	86.29	262.22	USCGS
		1 17	58	P	VS,ES	.016	86.3		
		1 18	04	E	VS,ES				
		1 18	11,5	/PCP/	VS,NS				
		1 18	21	E	VS,NG				
		1 18	33	*PP	VG,NG				
		1 21	20	PP	VS,VG				
		1 28	08	SKS	VG,NG				
		1 28	21	S	VS				
		1 38,3		L	VG				
391	28	06 11	38.7	18.7 S	167.7 E	.001	145.85	29.38	USCGS
		6 31	18	PKP1	VS,NS	.001	146.0		
		6 31	20	PKP2	VS,NS				
		6 31	26	*SPKP1	NS				



DOURBES 1961

- 56 -

JUILLET

6	31	30	*PPKP2	VS,ES
6	34	35	PP	NG
7	30,7		L	NG

392	28	10 13	51.1	20.0 N	109.3 0	.001	89.06	300.73	USCGS
		10	50,5	L	NG				
		11	00,6	LM	VG				
		11	07,5	M	EG				
393	28	13 20	36.5	00.7 S	122.4 E	.000	107.96	68.44	USCGS
		14	16,8	L	EG				
		14	24,0	LM	EG				
394	28	15 19	40.0	43.6 N	146.1 E	.000	80.73	27.23	USCGS
		15	31 55	IP	VS	.000			
		15	32 07	*SP	VS				
		15	32 22	E	ES				
		16	02,0	L	EG				
		16	08,1	LM	VG				
395	28	16 38	20.6	19.8 S	167.8 E	.000	146.91	29.89	USCGS
		16	58 01	PKP	VS				
396	28	17 17	04.8	20.6 S	170.0 E	.014	148.34	26.72	USCGS
		17	36 34	PKP1	VS				
397	28	18 47	47.0	35.8 N	027.5 E	.000	21.89	122.04	BCIS
		19	20,0	L	EG,NG				
398	28	20 01	48.7	35.8 N	027.5 E	.000	21.89	122.04	USCGS
		20	13,7	L	NG				
399	29	01 53	28.3	57.1 S	025.8 0	.000	109.83	197.04	USCGS
		2	52,6	L	EG				
400	29	11 55	36.1	57.0 S	025.1 0	.000	109.60	196.69	USCGS

DOURBES 1961

- 57 -

JUILLET - AOUT

		12 55,6		LM		VG					
401	29	16 27 19.0		24.1 S		176.1 O		-.002	154.03	1.45	USCGS
		16 47 17		PKP1		VG		-.002			
		16 47 27		*PPKP1		NS					
		16 47 32		E		VS,NS					
		16 54 23		SKS		EG,NG					
		17 48,7		LR		NG					
		17 56,5		LM		NG					
402	30	11 02 06.7		11.2 N		124.7 E		.003	99.66	59.43	USCGS
		11 24 13		E		ES					
403	30	14 06 17.3		18.3 S		168.5 E		.001	145.72	27.87	USCGS
		14 25 50		PKP		VS					
404	30	15 36 16.8		20.4 S		174.1 O		.000	150.33	357.53	USCGS
		15 56 06		PKP		VS					
405	30	16 34 30.0		39.5 N		026.5 E		.000	18.72	116.09	BCIS
		17 02,8		L		EG					
406	31	16 11 36.0		44.4 N		010.0 E		.000	6.78	145.15	BCIS
		16 13 39		E		VS			6.6		
		16 14 38		SN		ES					
		16 14 54		S*		ES					
407	01	05 39 53.2		09.9 S		160.5 E		.003	135.18	34.79	USCGS
		5 59 11		PKP		VG		.003	135.0		
		5 59 22		*PPKP		VS,ES					
		6 01 50		PP		VS,VG					
		6 02 36		PKS		VG					
		6 45 09		LR		VG					
		6 55 28		LM		VG					
		7 07 05		LM		VG					
408	01	09 34 40.7		57.3 S		026.1 O		-.001	110.07	197.13	USCGS
		10 01 25		SKS		EG					

DOURBES 1961

- 58 -

ACUT

10	02	09	E	NG
10	11	45	E	VG
10	27,1		LR	NG
10	32,6		LM	VG
10	45,3		M	EG

409	01	14 58 25.4	17.9 S	167.7 E	-.002	145.09	28.92	USCGS
		15 42,1	LR	EG				
410	01	22 11 32.4	18.2 S	168.6 E	.000	145.65	27.66	USCGS
		22 31 08	IPKP1	VS	.000			
		22 31 20	I*PPKP	VS				
411	02	02 03 56.0	19.0 S	168.0 E	-.003	146.22	29.08	USCGS
		2 23 39	PKP1	VS				
		2 38 19	E	EG				
		3 21,7	L	EG				
412	02	02 31 28.9	57.0 S	024.8 O	.000	109.54	196.53	USCGS
		3 31,5	LM	VG,EG				
413	02	03 59 29.9	57.8 S	026.6 O	.005	110.63	197.21	USCGS
		4 59,0	L	NG				
414	02	04 54 37.5	22.8 S	171.8 E	.001	150.93	24.87	USCGS
		5 52,8	L	EG				
415	02	12 12 02.0	44.6 N	148.8 E	.001	80.57	25.02	USCGS
		12 24 13	P	VS,VG				
416	02	14 32 27.9	52.1 N	157.8 E	.003	75.58	16.66	USCGS
		14 44 11	P	VS,NS				
		14 48 51	E	EG				
		14 54 25	E	EG				
		15 07,2	LQ	EG				
417	03	00 41 36.0	14.7 N	052.2 E	.000	52.16	115.26	USCGS

DOORBES 1961

- 59 -

AOUT

		1 10,9		L	EG				
418	03	03 08 05.1	18.4 N		066.3 O	.015	63.82	267.72	USCGS
		3 18 26	P		VS, VG		63.9		
		3 26 53	S		EG, NG				
		3 28 09	/SKS/		EG, NG				
419	03	06 51 41.1	03.5 S		130.8 E	-.002	115.14	62.88	USCGS
		7 48,6	L		NG				
420	03	10 26 29.0	44.2 N		010.2 E	.000	7.02	144.98	BCIS
		10 29 39	E		ES				
421	03	23 33 37.7	12.2 N		143.8 E	-.002	108.34	42.28	USCGS
		30,4	L		NG				
422	04	18 19 22.8	20.2 S		169.7 E	.014	147.87	26.99	USCGS
		18 38 57	PKP		VS	.014			
		18 39 26	E		VS				
		18 47 54	S		VG, EG				
		18 50,0	L		EG				
		18 52,2	LM		EG				
		18 54,3	M		VG				
423	04	22 52 54.0	45.2 N		151.2 E	.002	80.65	23.19	USCGS
		23 05 04	P		VS, ES	.002	80.5		
		23 05 16	*PP		VS				
		23 15 12	SKS		NG				
		23 15 20	E		NG				
		23 37,1	L		NG				
		23 42,2	LM		VG				
424	05	02 26 20.3	60.8 N		148.7 O	.003	67.30	346.21	USCGS
		2 37 22	P		VS				
425	05	06 10 18.8	52.6 N		159.1 E	.000	75.33	15.72	USCGS
		6 22 00	P		VS				

DOORBES 1961

- 60 -

AOUT

426	05	09 27 9 41	45.5 02	18.9 S P	068.2 O VS	.013	93.77	244.98	USCGS
427	06	10 34 11 05,7	33.4	02.7 S L	122.0 E NG	.006	109.31	70.04	USCGS
428	07	04 02 4 47,6	15.0	42.2 N L	142.1 E EG	.004	80.75	30.52	USCGS
429	07	04 22 4 49 09 5 20,0	20.5	02.7 S /S/ L	121.6 E NG NG	-.003	109.06	70.38	USCGS
430	07	12 22 12 42 53	24.2	28.4 S E	176.4 O VG	.000	158.31	2.37	USCGS
431	07	16 57 17 39,2	49.6	28.1 S LM	177.4 O NG	.000	157.97	4.70	USCGS
432	08	00 18 1 50,5	52.3	28.3 S LM	176.4 O EG	.000	158.21	2.36	USCGS
433	08	12 18 12 30 26 12 30 31 12 30 40 12 33 27 12 34 06 12 39 17 12 40 22 12 40 32 12 40 46 12 52,8 13 08,0 13 14,1 13 16,3	23.1	51.2 N P PCP *SP PP E E S SKS /SP/ LR LM M M	170.7 O VS, VG VS, ES VS VG VG VG EG VG, EG VG VG EG VG VG	.000 .000	78.91	356.99	USCGS
434	08	23 49	16.4	51.3 N	170.8 O	.000	78.81	357.06	USCGS



DOURBES 1961

- 61 -

AOUT

		1	20	P	VS					
435	09	13 05	22,5	E	VS					
		13 05	55	E	ES					
436	09	16 02	35.5	19.2 S	168.8 E	.002	146.66	27.90	USCGS	
		16 22	12	PKP1	VS,ES	.002				
		16 22	17,5	PKP2	VS					
		16 22	22	*PPKP1	EG					
		16 22	26,5	*SPKP2	VS					
		16 22	31	E	EG					
		16 25	19	E	VG					
		17 17,2		LM	VG					
437	10	00 58	38.9	58.7 N	155.1 O	.005	70.21	348.92	USCGS	
		1 41,5		L	EG					
438	10	01 43	32.6	30.5 S	179.7 O	.018	160.15	10.96	USCGS	
		2 10,5		L	EG					
439	10	12 03	20.9	37.2 N	137.0 E	-.001	83.37	36.36	USCGS	
		12 46,5		LM	EG					
440	10	12 05	29.8	43.8 N	144.9 E	.003	80.19	27.95	USCGS	
		12 57,5		LM	EG					
441	11	00 43	29.6	56.3 N	164.3 E	-.001	72.55	11.67	USCGS	
		1 25,9		LM	NG					
442	11	04 27	23.3	32.5 N	131.3 E	-.002	85.10	42.79	USCGS	
		5 14,1		LR	EG,NG					
		5 21,9		LM	NG					
443	11	06 08	16.7	32.5 N	131.7 E	.000	85.27	42.50	USCGS	
		6 52,3		LR	NG					

DOORBES 1961

- 62 -

AOUT

 6 57,5  
 7 02,8

 LM  
 M

 VG  
 NG

444	11	10 24	58.9	18.6 S	168.2 E	-.002	145.91	28.52	USCGS
		10 44	37	PKP	VS, VG				
		11 30	36	LQ	EG				
		11 33	21	LR	EG				
		11 34	11	LR	NG				
		11 39	41	LM	EG				
		11 42	42	LM	EG				
445	11	15 51	34.6	43.0 N	145.0 E	.004	80.94	28.22	USCGS
		16 03	45	IP	VS, NS	.003	81.0		
		16 03	47	E	VS, NS				
		16 04	05	*PP	EG				
		16 06	58	PP	EG				
		16 10	07	E	EG				
		16 11	06	E	VS				
		16 13	47	S	VG, NG				
		16 14	34	SP	VS, VG				
		16 33	31	LR	NS				
		16 39	29	LM	VS				
		16 43	23	LM	VS				
446	11	22 37	24.7	02.9 S	122.1 E	.000	109.52	70.08	USCGS
		22 56 <sup>9</sup>	18	PP	EG				
		23 02	35	E	EG				
		23 04	11	E	NG				
		23 05	49	PS	VG				
		23 34	31	LR	NG				
		23 38	41	LR	NG				
		23 42	22	LM	EG				
		23 47	18	LM	VG				
447	11	23 33	52.2	43.1 N	145.2 E	.004	80.91	28.04	USCGS
		23 46	04	P	VS	.003			
		23 46	18	*PP	NS				
		23 46	28	E	VS				
		24 05	01	LQ	VG				
		24 07	41	LQ	NG				
		24 13	01	LR	EG				
		24 25	26	LM	NG				
448	13	06 01	01.8	24.4 N	121.7 E	.001	87.23	54.30	USCGS

DOUREES 1961

- 63 -

AOUT

		6 48,2		LM		NG				
449	13	22 34 18.7	45.2 N		010.1 E	-0.002	6.14	140.75		USCGS
		22 36 01	PN		VS		6.6			
		22 36 12	P*		VS					
		22 36 29	PG		ES					
		22 37 17	SN		ES					
		22 37 39	S*		VS					
		22 37 49	SG		VG					
		22 38,7	LM		EG					
450	14	01 03 02.0	45.2 S		010.1 E	0.000	95.13	176.10		BCIS
		1 04 40	PN		VS,ES		6.6			
		1 04 59	P*		ES					
		1 05 14	PG		ES					
		1 05 55	/SN/		ES					
		1 06 20	S*		ES,VG					
		1 06 37	/SG/		VS,VG					
		1 07,6	LM		VG,EG					
451	14	18 50 55.3	24.6 S		175.7 O	0.006	154.54	0.62		USCGS
		19 10 42	PKP1		VG					
		20 12,8	LM		NG					
452	14	22 04 59.7	31.6 N		131.5 E	-0.002	85.95	43.11		USCGS
		22 50,6	LM		NG					
453	14	23 28 46.5	20.4 S		149.4 E	0.010	139.29	56.07		USCGS
		23 48 36	*PPKP		EG	0.010	139.0			
		23 48 50	E		VG,EG					
		23 51 34	PKS		VG					
		23 51 50	E		NG					
		23 52 04	E		NG					
		23 55 02	SKS		EG,NG					
		23 55 08	E		VG,NG					
		24 02 04	E		NG					
		24 37,3	LR		NG					
		24 43,5	LM		VG					
		24 54,2	M		VG					
454	15	19 03 55.7	33.0 N		142.4 E	0.001	89.12	34.33		USCGS
		19 16 51	P		VS,VG	0.001	89.4			

DOORBES 1961

- 64 -

AOUT

19 20 22	PP	VG,NG
19 27 18	SKS	NG
19 27 36	S	EG,NG
19 28 36	SP	NG
19 50,0	LR	NG
19 53,4	LM	VG
20 05,1	M	NG

455	16	16 15 57.5	13.9 S	014.7 0	-.002	66.00	200.55	USCGS
		16 35 34	S	EG				
		16 35 58	E	NG				
		16 39 42	E	EG				
		16 42 46	SSS	EG,NG				
		16 46,4	L	NG				
		16 54,4	LM	NG				

456	17	06 36 23.0	34.6 S	109.0 0	-.002	130.12	261.60	USCGS
		7 38,6	L	EG				

457	17	21 16 30.1	46.4 N	149.3 E	.020	79.04	24.00	USCGS
		21 28 18	P	VG	.020	79.0		
		21 28 24,5	E	VS				
		21 28 54	*PP	NG				
		21 29 09	E	VS				
		21 31 12	E	EG				
		21 31 21	PP	EG				
		21 31 54	E	VG				
		21 32 14	E	VG				
		21 38 02	S	EG,VG				
		21 39 06	PS	EG				
		21 39 28	PPS	VG				
		21 40 01	E	EG				
		21 59,6	LR	NG				
		22 03,5	LM	NG				

458	19	05 09 49.5	10.8 S	071.0 0	.003	89.11	252.10	USCGS
		5 21 41	P	VS,ES	.103	90.3		
		5 23 53	*PP	VG				
		5 24 07	E	VS				
		5 27 19	*PPP	VS,VG				
		5 31 13	SKS	VS,EG				
		5 31 33	E	VS				
		5 31 39	S	VS,ES				
		5 32 50	PS	VS				

DOORBES 1961

- 65 -

AOUT

459	19	05 17 30.0 5 29 31 5 31 45 5 44 27	10.8 S P *PP E	071.0 O VS,ES VG ES	.000 .103	89.11 252.10	BCIS
460	19	05 33 30.6 5 46 05 5 56 30	36.2 N P S	136.5 E VS ES	-.003	84.05 37.20 84.2	USCGS
461	19	14 52 29.7 15 03 05 15 26,0	28.0 N P L	068.8 O VS,ES NG	.010	58.59 277.24	USCGS
462	19	20 26 18.0 20 39 15	02.1 N P	096.9 E VS	-.002	89.82 86.89	USCGS
463	20	01 30 19.2 1 49 53 2 45,4 2 54,4	17.9 S /PKP/ LR LM	169.0 E VS NG NG	.000	145.49 26.85	USCGS
464	20	05 04 14.3 5 22 56 5 22 59 5 23 04 5 26 01 5 29 11 5 29 23	17.9 S PKP1 E PKP2 E SKS E	178.8 O VS,ES VG,NG VS,VG VG,EG VG EG	.087	147.75 6.06 148.0	USCGS
465	21	02 06 15.3 2 25 41	22.7 S PKP	179.3 O VS	.079	152.47 7.79	USCGS
466	21	07 00 19.6 7 08 57 7 09 27 7 09 36,5	36.4 N P *PP *SP	071.1 E VS VS VS	.014 .010	48.70 79.69 3	USCGS
467	21	16 06 55.4	17.9 S	174.4 O	.006	147.85 358.20	USCGS



DOUBLES 1961

- 66 -

AOUT

16 26 37	PKP1	VS	.007
16 26 41	E	VS	
16 26 54	/PKP2/	VS	
16 26 58	*PPKP1	VS	
16 27 34	E	EG	
16 28 20	E	VS	
16 28 40	E	EG	

468	21	17 00	38.9	40.9 N	139.1 E	.001	80.89	33.15	USCGS
		17 12	50	P	VS				
		17 12	59	PCP	VS				
		17 13	55,5	E	ES				

469	22	08 59	27.9	13.5 S	166.7 E	.005	140.64	28.11	USCGS
		9 18	46	E	ES				

470	23	04 12	35.9	38.9 N	068.7 E	-.002	45.67	78.54	USCGS
		4 20	59	P	VS, VG		45.5		
		4 21	08	E	VS				
		4 22	45	PP	VS				
		4 31	08	E	EG				
		4 31	20	E	EG				
		4 31	42	/SSS/	EG				
		4 37	12	E	EG				
		4 38	36	E	NG				
		4 40	38	E	EG				
		4 41,1		LM	NG				
		4 43,9		M	VG, EG				

471	23	14 37	46.9	05.6 N	126.3 E	.000	105.15	61.32	USCGS
		14 53	53	E	VS, ES				

472	24	04 52	20.5	43.1 N	145.3 E	.002	80.94	27.97	USCGS
		5 04	34	P	VS				
		5 41,2		L	NG				

473	24	13 29	42.0	39.7 N	026.7 E	.000	18.71	115.30	BCIS
		13 40,4		L	NG				

474	24	20 58	13.2	21.4 S	173.9 E	.000	150.12	20.30	USCGS
-----	----	-------	------	--------	---------	------	--------	-------	-------

DOORBES 1961

- 67 -

AOUT

		22 13,9		L		NG				
475	24	22 40 54.6	43.0 N		145.3 E	.002	81.03	28.02	BCIS	
		22 53 06	P		VS					
		23 32,9	L		NG					
476	25	06 59 30.2	53.7 N		161.2 O	.000	75.79	351.36	USCGS	
		7 11 19	P		VS					
477	25	12 21 55.0	47.5 N		010.8 E	-.003	4.85	120.02	USCGS	
		12 23 08	PN		VS,ES		4.7			
		12 23 30	PG		VS,ES					
		12 24 02	SN		VS,ES					
		12 24 09	SSS		EG					
		12 24 17	S*		VS					
		12 24 27	SG		VS,EG					
		12 24 37	E		VG,EG					
		12 25,2	LM		VG,NG					
478	26	02 45 29.0	20.2 S		169.0 E	.000	147.66	28.16	USCGS	
		3 05 11	PKP		VS					
479	27	16 22 12.8	47.0 N		154.0 E	.002	79.63	20.71	USCGS	
		16 34 18	P		VG					
		16 44 23	/S/		NG					
		17 07,1	LR		NG					
		17 10,3	LM		VG,EG					
		17 14,4	M		NG					
480	27	20 56 20.9	46.9 N		154.1 E	.003	79.75	20.68	USCGS	
		21 08 28	P		VS,ES					
481	27	22 08 45.2	35.6 N		023.8 E	.000	20.10	128.83	USCGS	
		22 13 17	P		VS,ES	.000	20.1			
		22 13 33	*SP		NG					
		22 16 57	S		NG					
		22 17 37	SS		EG					
		22 20,2	L		NG					

DOUBRES 1961

- 68 -

AOUT

482	28	09 44 10 03	14.2 01	18.9 S PKP	177.8 O VS,ES	.081	148.80	4.37	USCGS
483	28	20 26 21 27,5	01.4	23.0 S L	113.5 O VG	.000	125.15	275.75	USCGS
484	28	21 27 21 40	16.9 23	14.1 S P	073.9 O VS	.010	93.44	252.25	USCGS
485	29	14 51 15 03 15 15 15 30,1 15 41,2	14.2 07 46	52.4 N P E LR LM	170.8 E VS ES NG NG	.001	77.12	8.60	USCGS
486	30	03 35 3 44 3 58,0	02.7 40	05.8 N /P/ L	034.4 O VS NG	.000	54.91	229.88	USCGS
487	31	01 48 2 00 2 00 2 02 2 09 2 10 2 10 2 10 2 11	37.5 31 32 39 58 04 26 47 41	10.7 S P /PCP/ PP E SKS S E SP	070.9 O VS,ES VS,ES VS,NG VS,EG ES,EG NG VS VS	.093 .093	88.97 89.0	252.09	USCGS
488	31	01 57 2 08 2 08 2 09 2 11 2 11 2 18 2 18 2 19 2 19 2 20 2 22 2 23	08.0 59 59 02 07 16 32 58 04 39 06 50 48	10.5 S P E /PCP/ PP *PP SKS S E E SP E E	070.7 W VS,VG VS,ES VS,NG VS VS,ES VG VS,ES VS,ES ES VS ES VS	.093 .093	88.70 89.0	252.06	USCGS

DOUBLES 1961

- 69 -

SEPTEMBRE

489	01	00	09	34.6	59.6 S	027.3 W	.015	112.45	196.87	USCGS
			24	04	P	VS, VG	.015	110.5		
			27	58	PKP	VS				
			28	43	PP	VG				
			35	33	SKS	NG				
			36	23	S	EG				
			37	25	E	EG				
			38	01	PS	VS				
			38	25	E	EG				
			38	01	PS	EG				
			39	13	PPS	VG, EG				
			44	13	PSS	EG				
			48	15	SSS	EG				
			55,1		LQ	EG				
		1	01,7		LR	VG, EG				
		1	09,9		M	VG				
490	01	16	36	49.9	16.5 S	176.6 O	.063	146.45	2.07	USCGS
		16	55	46	PKP	VS				
491	01	18	41	32.4	18.1 S	178.3 O	.092	147.98	5.19	USCGS
		19	00	15	PKP	VS				
		19	28,4		LQ	EG				
		19	30,5		LR	VG, EG				
		19	39,6		M	EG				
492	01	18	50	35.4	13.6 N	092.5 O	.001	84.10	284.12	USCGS
		19	03	06	P	VS, VG	.001	84.0		
		19	13	27	E	VS, EG				
		19	14	27	SP	VG				
493	02	00	26	06.2	52.0 N	170.9 O	.001	78.12	357.16	USCGS
			38	05	P	VS, ES				
		1	10,4		LQ	NG				
		1	14,2		LR	EG				
494	02	10	50	25.8	02.0 S	067.8 E	.016	74.69	112.39	USCGS
		11	02	01	P	VS	.010			
		11	02	03	E	VS				
		11	02	26	*PP	VS, ES				
		11	12	08	E	VG				
		11	12	18	E	VG				

DOORBES 1961

- 70 -

SEPTEMBRE

11 28,0

L

NG

495	02	14 16 10.5 14 26,0	39.1 N L	023.9 E EG,NG	.000	17.53	121.47	USCGS
496	03	17 29 25.2 17 41 08	52.4 N P	158.9 E VS	.000	75.49	15.90	USCGS
497	04	04 53 19.2 6 32,4 6 45,9	47.1 N L LM	154.1 E VG VG,NG	.004	79.56	20.61	USCGS
498	04	09 49 13.5 10 01 13 10 11 07 10 12 13 10 26,5 10 34,5	51.6 N P S PS L LM	178.2 O VS,ES NG NG NG VG	.001 .001	78.56 78.5	1.77	USCGS
499	04	18 44 54.4 19 34,5	52.8 N L	167.6 O NG	.000	77.17	355.16	USCGS
500	04	19 12 34.4 20 07,3	53.0 N LM	167.1 O NG	.002	76.95	354.87	USCGS
501	04	22 33 34.6 23 01,6	20.3 S L	175.8 O NG	.023	150.25	.75	USCGS
502	05	00 39 31.0 48,6	38.0 N M	023.6 E VG	-.002	18.17	124.50	USCGS
503	05	00 46 29.6 1 06 06 1 06 13 1 06 33	16.2 S PKP1 PKP2 E	172.8 O VG VS VG	.000	146.10	355.51	USCGS



DOURBES 1961

- 71 -

SEPTEMBRE

504	05	01 16 51.7 1 26,4	38.5 N L	023.6 E VG	.000	17.80 123.40	USCGS
505	05	02 37 37.8 2 43 53 2 48 56 2 52,6	80.2 N P S L	002.3 O VS NG NG	.000 .000	30.29 357.67 31.0	USCGS
506	05	06 12 59.7 6 21 34 6 22 07 6 23 29 6 28 02 6 28 32 6 29 26 6 32 56 6 34,8 6 39,3	38.5 N P *SP PP E S /*SS/ SSS LR LM	073.2 E VS,VG VS,ES VS VG VG,NG NG VG VG VG	.011 .011	48.74 76.12 48.2	USCGS
507	05	11 34 37.3 11 45 30 11 45 32 11 45 42 11 45 49 11 45 52 11 48 10 11 48 18 11 54 33 11 54 48 11 56 07 12 07 16 12 08,7 12 17,9	60.0 N P E E *SP /PCP/ PP *PPP S *SS E E LR M	150.6 O VS,VG VS VS,VG VS ES VG VG,NG NG VG VG VG,NG NG	.002 .002	68.34 346.91	USCGS
508	05	14 09 51.8 14 17 01 14 17 20 14 18 29 14 38,2	36.8 N P E IPP L	054.5 E VS VS VS VG	.000	37.84 91.06	USCGS
509	06	15 30 20.4 16 25,3	10.9 S L	079.1 O VG	.002	94.22 258.21	USCGS

DOORBES 1961

- 72 -

SEPTEMBRE

510	08	04 52 08.6	51.7 N	131.3 0	.000	71.79 332.92	USCGS
		5 03 33	P	VS			
		5 03 37	E	VS			
		5 26,9	LR	NG			
		5 32,0	LM	VG,NG			
		5 34,4	M	VG			
511	08	11 26 32.9	56.3 S	027.1 0	.014	109.33 198.05	USCGS
		11 40 48	P	VG,NG	.014	109.0	
		11 41 01	E	VG			
		11 41 11	/*PP/	NG			
		11 45 18	PP	VS			
		11 45 37	*PPP	VG			
		11 51 15	SKS	NG			
		11 51 48	SKS2	NG			
		11 54 35	PS	ES			
		11 55 02,5	E	VS			
		11 55 35	PPS	VS			
		12 18,2	M	NG			
512	08	17 30 37.4	00.4 S	123.3 E	.021	108.26 67.49	USCGS
		18 09,9	L	NG			
		18 17,1	LM	VG			
513	09	09 10 25.2	52.7 N	169.4 0	.004	77.36 356.27	USCGS
		9 22 20	P	VS			
		9 56,5	L	NG			
514	09	19 10 45.7	01.3 N	090.8 0	.000	92.41 274.97	USCGS
		19 54,8	L	VG			
515	10	04 45 28.8	22.8 S	063.5 0	.077	94.19 239.11	USCGS
		4 57 52	P	VS,ES			
516	10	09 00 09.2	74.2 N	052.5 E	-.006	31.31 22.97	USCGS
		9 20,3	LR	NG			
		9 23,0	M	NG			
517	10	16 03 24.0	47.7 N	008.2 E	.000	3.37 133.90	BCIS
		16 31,2	L	NG			

DOORBES 1961

- 73 -

SEPTEMBRE

518	10	17 27 00.0 16 28 53	46.3 N P	007.5 E ES	.000	4.26 151.84	BCIS
519	11	02 46 50.3 2 58 48 3 30,0	51.4 N P LM	180.0 E VS NG	.004	78.71 2.93	USCGS
520	11	14 47 14.3 15 48,7	38.1 S LM	072.8 O VG	.001	111.06 235.55	USCGS
521	11	19 57 58.2 21 00,4	04.1 S E	134.3 E NG	-.003	117.61 60.04	USCGS
522	11	22 15 02.6 22 26 10	10.9 N /*PP/	062.4 O VS	.016	66.94 259.17	USCGS
523	11	23 47 23.1 37,0	42.9 N L	145.3 E NG	.003	81.12 28.06	USCGS
524	12	10 08 15.3 10 29,2 10 31,1	74.2 N L M	052.1 E VG NG	-.006	31.21 22.89	USCGS
525	12	12 17 07.6 12 39 17 13 23,2	44.0 N P L	147.9 E VS,ES NG	.003	80.88 25.86	USCGS
526	12	19 18 42.9 20 27,7	32.4 N L	115.2 O NG	.000	82.01 312.21	USCGS
527	14	08 03 08.7 8 10 04 8 10 10	33.0 N P E	047.4 E VS,ES VS	.000	35.69 102.13	USCGS

DOUREES 1961

- 74 -

SEPTEMBRE

528	15	01 46 09.9	34.9 N	033.8 E	.000	26.10	114.44	USCGS
		1 51 41	P	VS,ES	.000	26.0		
		1 51 52	*PP	VS,ES				
		1 52 24	PP	ES				
		1 55 09	PCP	VS				
		1 56 10	S	EG				
		1 57 09	SS	VG				
		2 01,7	LR	VG				
		2 03,9	M	VG				
529	17	08 41 57.3	23.9 N	122.1 E	.003	87.84	54.29	USCGS
		8 54 44	P	VS,ES				
		9 28,9	LQ	EG				
		9 34,3	LR	NG				
		9 38,0	M	EG,NG				
530	17	23 22 06.3	05.9 S	147.4 E	.002	125.98	48.01	USCGS
		23 41 05	PKP	VS				
		24 31,0	L	VG				
531	18	02 25 19.3	49.0 N	128.9 O	-.002	73.42	330.15	USCGS
		3 01,0	LQ	EG				
		3 08,8	LR	VG,EG				
532	18	05 08 31.9	34.7 N	026.5 E	.001	22.19	125.61	USCGS
		5 13 21	P	VS,NS	.001			
		5 13 32	*PP	VS,NS				
		5 21,3	LM	EG,NG				
		5 23,4	M	VG,NG				
533	18	07 59 36.8	74.0 N	052.0 E	-.006	31.11	23.22	USCGS
		8 20,8	LM	NG				
		8 22,6	M	VG,EG				
534	18	11 01 04.5	41.0 N	050.2 E	.003	32.71	88.32	USCGS
		11 07 34	P	ES,VG	.003	32.9		
		11 07 50	*SP	VS,ES				
		11 07 03	E	VS,ES				
		11 08 40	/PP/	VS,ES				
		11 08 56	/PPP/	ES				
		11 12 51	S	EG				
		11 13 21	E	NG				

DOORBES 1961

- 75 -

SEPTEMBRE

		11 14,8		LQ		NG				
		11 19,5		LR		NG				
535	18	15 37 34.5		20.9 S		173.5 E	.000	149.54	20.78	USCGS
		15 57 25		PKP1		VS				
		15 57 32		PKP2		VS				
		17 01,1		L		NG				
536	19	02 25 49.2		20.5 S		062.9 O	.086	92.02	240.03	USCGS
		2 38 00		P		VS, VG	.086	92.0		
		2 40 04		*PP		VS, VG				
		2 41 45		PP		VS, VG				
		2 47 38		SKS		ES, EG				
		2 48 08		S		NG				
		2 49 28		PS		VG, EG				
		2 50,6		L		VG				
537	19	09 46 17.7		06.7 N		082.4 O	.000	82.91	272.01	USCGS
		9 58 45		P		VS		82.9		
		9 58 53		E		VS, ES				
		10 01 57		PP		VG				
		10 09 04		S		EG, NG				
		10 09 58		PS		VG, EG				
		10 22,1		LR		NG				
		10 33,6		LM		VG, EG				
		10 41,8		M		EG				
538	19	18 25 28.9		21.6 S		179.3 O	.087	151.38	7.58	USCGS
		18 44 17		PKP		VS, NS				
539	19	21 34 42.3		60.1 S		023.3 O	.000	112.22	194.64	USCGS
		22 03,7		L		NG				
		22 34,5		L		VG				
540	20	08 12 09.0		74.4 N		052.5 E	.000	31.39	22.62	USCGS
		8 33,2		L		VG				
		8 35,2		M		VG, EG				
541	20	19 03 37.7		03.6 S		151.0 E	.002	125.60	42.79	USCGS
		19 22 42		*PPKP		VS	.002			



DOORBES 1961

- 76 -

SEPTEMBRE

19 46 14	SSS	NG
20 06,1	LR	EG
20 09,8	LM	EG
20 18,9	M	EG

542	24	19 04 38.3	18.3 N	098.6 0	.003	84.22 291.66	USCGS
		19 17 05	P	VS	.003		
		19 17 21	*PP	VS			
		19 17 27	*SP	VS			

543	24	21 40 57.3	33.5 N	141.5 E	.003	88.34 34.79	USCGS
		21 53 46	P	VS	.003		
		21 53 58	*PP	VS			
		22 25,3	LR	EG			
		22 30,3	LM	VG			

544	25	02 27 13.4	60.5 N	153.0 0	.014	68.19 348.30	USCGS
		2 38 04	P	VS,NS			

545	25	05 28 57.8	19.8 N	155.2 0	.000	108.07 340.01	USCGS
		6 25,0	L	NG			

546	27	06 34 05.4	17.3 S	178.7 0	.082	147.16 5.80	USCGS
		6 52 47	PKP1	VS,NS			

547	27	19 20 48.5	52.7 N	168.7 0	.001	77.33 355.83	USCGS
		19 32 45	P	VS			
		19 51,4	L	EG			

548	27	19 27 00.7	52.4 N	168.7 0	-.002	77.63 355.81	USCGS
		19 39 00	P	VS			
		19 39 05	E	VS			
		19 39 14	PCP	VS			

549	28	03 24 37.7	30.8 N	141.6 E	.001	90.79 35.90	USCGS
		4 14,0	L	NG			

DOURBES 1961

- 77 -

SEPTEMBRE - OCTOBRE

550	28	22 36	24.7	27.2 N	057.1 E	.001	45.77	99.80	USCGS
		22 44	45	P	VS,ES	.001			
		22 44	50	E	VS				
		22 44	55	*PP	ES				
551	29	19 06	13.4	00.5 N	122.4 E	.012	107.00	67.69	USCGS
		19 31	31	E	EG				
		19 34	15	/PS/	VG				
		19 34	32	E	EG				
		20 03,5		L	NG				
552	29	22 38	04.1	01.7 N	079.3 O	.000	84.72	266.41	USCGS
		22 50	36	P	VS,ES				
553	30	00 21	18.9	44.4 N	148.9 E	.004	80.79	25.03	USCGS
		33 31		P	VS				
554	02	07 21	44.0	37.0 N	022.0 E	.000	18.11	129.69	BCIS
		7 25	57	P	VS,ES		18.0		
		7 26	00	IP	VS,ES				
		7 26	12	PP	EE,EG				
		7 26	26	PPP	VS				
		7 29	17	S	VG				
		7 29	28	/SS/	NG				
		7 29	58	SSS	NG				
		7 31	08	LQ	EG				
		7 32	11	LR	NG				
		7 32	26	LR	ES				
		7 33	47	LM	VG				
		7 34	40	LM	VG				
555	02	07 02	37.6	33.9 S	179.6 E	.000	163.39	14.66	USCGS
		8 26	45	LR	NG				
		8 27	47	LR	EG				
		8 40	15	LM	NG				
556	02	08 09	07.1	51.4 N	179.4 E	.002	78.69	3.31	USCGS
		8 43	46	LQ	VG				
		8 47	17	LR	EG				
557	03	01 01	18.2	35.4 N	124.1 E	.010	79.41	46.27	USCGS

DOUBLES 1961

- 78 -

OCTOBRE

1 05	44	P	NS	19.5
1 06	13	PP	VS	
1 06	22	PPP	NS	

558	04	02 23	23.5	13.2 S	166.5 E	.005	140.29	28.25	USCGS
		2 42	46	PKP	VS,NS				
		3 42	15	LR	EG				
		3 46	40	LM	NG				
		3 51	27	LM	VG				
		3 51	55	LM	NG				

559	04	07 30	54.8	73.7 N	053.8 E	-.005	31.46	24.13	USCGS
		7 51	03	LM	NG				
		7 51	53	LM	EG				
		7 53	45	LM	NG				

560	04	12 20	33.0	47.6 N	012.7 E	.000	5.90	111.96	BCIS
		12 21	48	E	VS		6.0		
		12 23	37	S*	VS				
		12 23	49	SG	NS				

561	05	18 08	43.4	19.4 S	169.0 E	.004	146.91	27.69	USCGS
		18 28	20	IPKP	VS,NS	.004			
		18 28	26	PKP2	ES,NS				
		18 28	34	*SPKP	NS				

562	05	22 34	58.9	24.0 N	121.7 E	.001	87.55	54.53	USCGS
		22 47	59	*PPCP	VS				
		22 48	08	E	VS				
		22 48	44	E	VS				
		22 21	51	LQ	NG				
		23 25	53	LR	VG				
		23 26	41	LM	EG				

563	05	23 01	07.3	51.0 N	149.7 E	.076	74.89	21.95	USCGS
		23 34	47	LQ	VG				
		23 36	18	LQ	EG				
		23 41	45	LR	EG				

564	06	03 20	27.0	36.5 N	001.0 E	.000	13.84	192.18	BCIS
-----	----	-------	------	--------	---------	------	-------	--------	------

DOURBES 1961

- 79 -

OCTOBRE

		3 28	13		LQ		EG				
		3 29	17		LR		NG				
		3 31	38		LM		NG				
565	06	07 00	12.2	74.3	N	051.6	E	-.005	31.13	22.61	USCGS
		7 19	53		LR		EG				
		7 21	33		LM		VG				
		7 22	51		LM		EG				
		7 27	38		LM		NG				
566	08	02 57	49.0	51.6	N	170.9	O	-.002	78.52	357.14	USCGS
		3 09	56		PCP		VS				
567	08	21 56	44.0	53.1	N	166.7	O	.002	76.82	354.63	USCGS
		22 08	34		P		NS				
		22 08	47		PCP		VS				
568	10	17 24	58.9	04.7	S	138.2	E	.000	120.25	56.70	USCGS
		18 29	09		LQ		EG				
		18 36	03		LR		EG				
		18 40	05		LM		EG				
569	10	18 44	28.6	16.1	S	176.3	O	.051	146.06	1.54	USCGS
		19 03	27		PKP		VS,NS				
		19 03	33		E		NS				
570	13	04 59	02.2	55.9	S	027.7	O	.000	109.07	198.53	USCGS
		5 56	09		LR		EG				
571	13	17 28	21.5	22.0	S	176.9	O	.003	151.92	2.94	USCGS
		17 47	58		PKP		VS,VG	.004			
		17 48	07		*PPKP		VS				
		17 48	52		E		VS				
572	14	16 13	48.7	19.1	S	168.4	E	-.001	146.44	28.49	USCGS
		16 33	29		PKP		VS,NS	-.001			
		16 33	34		*PPKP		VS,ES				

DOURBES 1961

- 80 -

OCTOBRE

573	14	21 58 22 11	59.7 04	51.2 N *PP	153.2 E VS	.010	75.50	19.75	USCGS
574	17	02 30 2 33 2 33	56.0 08 16	46.3 N SG E	002.6 E VS,ES VS	.000	4.02	200.07	BCIS
575	18	16 51 17 20 17 49	57.3 43 26	36.7 S PS LR	073.0 O VG VG	.000	110.13	236.68	USCGS
576	19	09 12 9 13 9 13	32.0 46 51	50.2 N S* SG	008.2 E VS NS	.000	2.32 2.4	86.04	BCIS
577	19	19 26 19 46 19 46	32.2 37 53	55.3 S *PPKP1 PKP2	146.4 E VS VS	.003 .003	156.43	117.59	USCGS
578	21	11 43 12 02 12 02	41.3 21 43	18.0 S PKP2 E	178.5 O VS VS	.092	147.86	5.54	USCGS
579	22	09 50 10 10 10 10 10 10 11 03 11 07 11 11 11 18 11 23	30.8 04 18 29 17 47 11 01 22	20.0 S PKP PKP2 E LQ LR LR LM LM	172.7 E ES ES NS EG EG EG VG EG	.005	148.49	21.76	USCGS
580	22	13 08 13 54 13 57	11.1 49 12	02.2 N LR LR	095.9 O EG EG	.005	94.98	279.48	USCGS
581	22	14 41	03.0	17.7 S	178.7 O	.082	147.55	5.86	USCGS



DOURBES 1961

- 81 -

OCTOBRE

		14 59 46	PKP	NS					
		15 00 00	E	NS					
582	23	00 08 36.6	60.2 S	033.6 0	.000	114.27	199.77		USCGS
		28 36	E	NS					
		38 09	E	EG					
		39 11	/PPS/	VG					
		39 33	E	EG					
		55 51	L	EG					
		1 04 09	LR	VG					
		1 09 53	LR	EG					
		1 12 45	LM	VG					
		1 16 56	LM	VG					
583	23	14 39 35.3	03.5 N	126.6 E	-.003	107.03	62.30		USCGS
		14 53 50	P	VS	-.004	107.0			
		14 58 33	*PPP	VG					
		14 58 53	E	VG					
		15 00 11	E	EG					
		15 04 54	/SKS/	EG					
		15 08 47	PPS	VG					
		15 39 12	LR	VG					
		15 44 29	LM	VG					
		15 48 17	LM	VG					
584	23	14 52 30.5	03.6 N	126.7 E	.000	107.01	62.16		USCGS
		15 52 53	LR	VG					
585	25	16 24 20.8	14.2 N	056.6 E	.017	55.15	111.44		USCGS
		16 32 47	E	NS					
586	25	22 50 56.0	51.3 N	007.1 E	.000	2.00	51.89		USCGS
		22 52 01	M	NS					
587	26	15 27 05.9	00.3 S	098.7 E	.000	92.80	87.04		USCGS
		15 39 49	E	VS,ES					
		15 40 17	P	VS	.000				
		15 40 26	*PP	VS					
		16 09 10	LR	VG					
		16 28 08	LM	VG					

DOORBES 1961

- 82 -

OCTOBRE

588	26	16 59	40.0	45.8 N	005.9 E	.000	4.39	167.99	BCIS
		17 01	14	PG	VS		4.4		
		17 01	22	E	ES				
		17 01	31	E	NS				
		17 01	44	SN	VS				
		17 01	55	E	ES				
		17 02	01	S*	NS				
589	26	19 28	38.4	00.5 S	098.8 E	.005	93.02	87.10	USCGS
		19 41	38	E	VS				
		19 42	46	E	VS				
590	28	01 34	55.7	17.5 S	178.9 O	.076	147.34	6.18	USCGS
		1 53	41	PKP1	VS				
		1 53	47	/PKP2/	VS				
591	28	06 20	05.5	19.0 S	168.4 E	.005	146.35	28.43	USCGS
		6 39	43	PKP2	VS				
		6 39	51	E	VS, VG				
		6 40	59	E	VS				
592	28	06 48	07.6	18.8 S	178.1 O	.084	148.68	4.91	USCGS
		7 06	52	PKP	VS				
593	28	10 46	42.2	33.6 N	048.5 E	.003	35.99	100.32	USCGS
		10 53	39	P	VS	.003	36.0		
		10 53	49	/*PP/	ES				
		10 55	21	PPP	VS				
		10 58	09	E	VS				
		10 59	51	PCS	VS				
594	28	14 49	17.5	38.6 S	073.9 O	.003	112.01	235.87	USCGS
		15 51	39	LR	VG				
		15 57	29	LM	NG				
595	28	22 44	30.2	13.9 S	166.0 E	.001	140.80	29.33	USCGS
		23 04	00	PKP	VS	.001	141.0		
		23 04	28	E	VS				
		23 06	56	PP	VS				
		23 07	56	E	NG				

DOUBRES 1961

- 83 -

OCTOBRE

		23	10	14	PPP	VG				
596	28	22	45	45.6	53.4 N	109.3 E	.000	58.93	42.46	USCGS
		23	20	37	LR	NG				
		23	22	45	LR	VG				
		23	24	45	LM	VG				
597	29	09	12	15.7	49.0 N	128.7 O	-.003	73.36	330.03	USCGS
		9	46	26	LQ	EG				
		9	48	16	LR	VG				
		9	52	20	LR	VG				
		9	55	12	LM	EG				
598	29	14	47	16.8	49.0 N	128.3 O	.000	73.23	329.79	USCGS
		15	24	14	LQ	EG				
		15	28	42	LR	VG				
		15	31	27	LM	EG				
		15	32	44	LM	NG				
599	30	02	16	32.7	42.3 N	126.7 O	-.001	78.50	325.38	USCGS
		2	28	34	P	NS	.001	78.0		
		2	28	42	*PP	NS				
		2	31	43	/PP/	EG				
		2	39	40	/PPS/	EG				
		3	00	43	LQ	EG				
		3	03	05	LR	NG				
		3	05	19	LR	NG				
		3	05	19	LM	NG				
600	30	08	33	27.8	74.2 N	053.5 E	-.005	31.57	23.18	USCGS
		8	48	19	LQ	NS				
		8	51	53	LR	EG				
		8	54	45	LM	VG				
		8	56	15	LM	ES				
601	30	21	15	35.2	28.9 N	141.8 E	-.001	92.57	36.57	USCGS
		21	28	44	P	NS				
602	30	22	36	19.5	29.3 N	141.8 E	.000	92.22	36.40	USCGS
		23	16	43	LQ	EG				

DOURBES 1961

- 84 -

OCTOBRE - NOVEMBRE

		23	17	41	L	VG					
		23	20	33	LR	EG					
603	31	01	43	53.3	51.9 N	176.1 E	-.001	78.03	5.36	USCGS	
		1	55	36	/P/	NS					
		1	56	36	E	NS					
604	31	08	29	17.2	73.6 N	056.2 E	-.005	32.06	24.74	USCGS	
		8	49	45	LM	EG					
605	31	13	37	17.6	42.2 N	013.0 E	.000	9.81	140.44	BCIS	
		13	39	42	P	VS		10.0			
		13	41	04	E	ES					
		13	41	23	/SS/	VG					
		13	42	22	S*	ES					
		13	42	55	SG	VS					
606	01	20	10	42.8	17.9 S	178.5 O	.088	147.77	5.53	USCGS	
		20	29	11	PKP	VS					
		20	29	21	PKP2	VS					
607	02	23	35	52.5	54.4 N	162.0 W	.000	75.18	351.95	USCGS	
		23	49	35	P	NS					
608	03	22	41	42.0	62.5 N	026.5 O	.000	20.97	318.05	BCIS	
		22	46	32	P	VS, VG					
		22	46	42	PP	VS					
609	03	22	59	54.0	62.5 N	026.5 O	.000	20.97	318.05	BCIS	
		23	04	42	P	VS					
		23	04	56	PP	VS					
610	04	07	20	19.7	73.7 N	055.7 E	-.005	31.96	24.48	USCGS	
		7	40	49	LR	VG					
		7	43	25	LM	NG					
611	04	18	17	01.7	52.2 N	167.6 O	.000	77.77	355.10	USCGS	

DOORBES 1961

- 85 -

NOVEMBRE

		18	28	58	P	NS				
612	05	03	41	40.0	44.2 N	148.4 E	-.003	80.83	25.44	USCGS
		3	53	58	P	EG				
		3	54	04	PCP	NS				
613	05	10	36	39.5	45.7 N	147.7 E	.017	79.26	25.32	USCGS
		10	48	29	P	VS	.017	79.0		
		10	48	35	PCP	VS				
		10	48	55	E	ES,NS				
		10	49	02	*PP	VS				
		10	50	31	E	VS				
		10	53	45	/PPP/	EG				
614	06	05	28	22.8	13.3 S	166.5 E	.004	140.39	28.30	USCGS
		5	47	56	*PPKP	VS,NS	.004	140.0		
		5	48	55	E	VS				
		5	50	38	E	VS				
		5	50	48	PP	VG				
		6	41	02	LQ	EG				
		6	47	03	LR	EG				
		6	49	47	LR	VG				
		6	53	29	LM	EG				
		6	53	29	LM	EG				
		6	55	50	LM	VG				
615	06	01	29	08.4	45.7 N	122.4 O	.000	73.99	324.44	USCGS
		2	16	04	LM	EG				
		2	17	06	LM	VG				
616	09	01	09	15.3	22.0 S	170.0 E	.000	149.66	27.57	USCGS
		1	28	53	PKP	VS	.000			
		1	29	00	*PPKP	VS,NS				
		1	29	58	E	VS				
617	09	23	06	55.9	15.8 S	174.8 O	.041	145.77	358.96	USCGS
		23	25	49	E	VS				
		23	25	57	PKP	VS,ES				
618	10	13	52	41.9	13.2 N	051.1 E	-.002	52.73	117.46	USCGS



DOORBES 1961

- 86 -

NOVEMBRE

		14 01	53	P	VS				
		14 01	58	IP	VS				
		14 02	21	E	VS				
619	10	18 00	49.6	17.5 S	178.8 O	.087	147.35	6.01	USCGS
		18 19	32	PKP	VS, VG				
		18 19	42	E	ES				
620	12	02 15	16.7	00.8 N	029.5 E	.001	53.54	148.45	USCGS
		2 24	42	E	VS	.001			
		2 24	48	*PP	VS				
		2 25	48	/PCP/	VS				
621	13	19 38	15.5	46.8 N	153.9 E	.001	79.80	20.84	USCGS
		19 50	24	P	VS				
622	14	04 42	26.5	07.3 N	082.4 O	-.001	82.46	272.40	USCGS
		4 55	08	*PPCP	VS	-.001	82.0		
		5 05	15	SCS	EG				
		5 06	04	PS	VG, EG				
		5 10	10	SS	EG				
		5 21	39	LQ	EG				
		5 22	35	LR	VG				
		5 54	59	LM	VG				
623	14	10 02	32.9	36.0 N	139.1 E	.020	85.22	35.43	USCGS
		10 14	51	P	VS				
624	14	22 26	47.9	44.2 N	147.6 E	-.002	80.61	25.98	USCGS
		22 38	27	E	VS				
		22 39	12	/PCP/	VS				
625	15	07 17	12.4	43.1 N	145.1 E	.002	80.88	28.11	USCGS
		7 29	25	P	VS, NS	.002	81.0		
		7 29	36	PCP	EG				
		7 29	42	*SP	VG				
		7 30	02	*SPCP	VS				
		7 32	22	PP	VS				
		7 39	30	S	EG, NG				
		7 40	02	SCS	EG				

DOURBES 1961

- 87 -

NOVEMBRE

7	40	12	PS	EG
7	44	22	SS	EG
7	48	20	SSS	EG
7	51	03	L	VG
7	59	25	LR	EG
8	05	20	LM	VG

626	15	19 26	55.7	20.9 S	175.7 O	.002	150.85	.56	USCGS
		19 46	47	E	VS				
		19 46	51	PKP2	VS				

627	16	16 03	54.8	20.2 S	172.9 E	.000	148.73	21.50	USCGS
		16 23	45	E	NS				
		16 23	50	PKP2	VS				
		16 24	43	E	VS				
		17 23	50	LR	VG				
		17 25	20	LR	EG				
		17 29	25	LM	NG				
		17 39	42	LM	EG				

628	17	14 49	03.0	52.4 N	170.7 O	.001	77.71	357.06	USCGS
		15 00	59	P	VS				

629	17	19 03	55.9	19.4 S	175.6 O	.026	149.36	.36	USCGS
		19 23	24	PKP2	VS,NS	.026			
		19 23	30	E	VS				
		19 24	07	E	VS				
		19 24	17	*PPKP2	VS				

630	18	11 16	56.8	27.0 S	176.3 O	.004	156.92	2.03	USCGS
		11 36	46	PKP1	VS				
		11 37	18	PKP2	VS				
		12 35	21	LQ	NG				
		12 39	48	LQ	EG				
		12 56	24	LR	VG				
		12 57	16	LM	EG				
		12 59	36	LM	NG				

631	18	22 09	51.9	22.5 N	121.7 E	.001	88.77	55.39	USCGS
		22 22	37	P	VS	.001			
		22 22	51	*PP	VS,NS				
		22 23	06	E	NS				

DOORBES 1961

- 88 -

NOVEMBRE

22	57	17	LR	NG
23	02	40	LM	NG
23	04	25	LM	VG

632	19	00	35	12.0	51.3 N	178.5 0	.004	78.85	1.98	USCGS
			47	13	P	VS				

633	19	23	21	55.5	00.8 N	124.3 E	.020	107.89	65.90	USCGS
		23	40	13	E	VS	.020			
		23	41	25	E	VS				
		23	46	17	SKS	EG				
		23	47	50	*SSKS	EG				
		23	49	13	E	EG				
		24	18	17	LQ	NG				
		24	26	50	LR	VG				
		24	35	51	LM	EG				

634	20	04	03	56.7	50.8 N	093.5 E	.000	53.12	52.37	USCGS
		4	13	11	P	VS,NS				
		4	13	53	E	VS				
		4	32	09	LQ	EG				
		4	33	12	LR	NG				
		4	37	31	LM	VG				

635	20	11	44	19.4	21.8 S	169.9 E	.000	149.44	27.62	USCGS
		12	04	10	PKP2	VS	.000			
		12	04	20	*PPKP2	ES				
		13	09	54	LR	VG				
		13	20	19	LM	VG				
		13	25	25	LM	VG				

636	20	12	22	00.0	21.8 S	169.9 E	.000	149.44	27.62	USCGS
		12	41	39	PKP	VS,NS				

637	20	13	04	04.6	22.1 S	169.9 E	.000	149.72	27.81	USCGS
		13	23	53	PKP2	VS,NS				
		13	23	57	E	VS				

638	20	14	42	36.0	21.8 S	169.9 E	.000	149.44	27.62	USCGS
		15	02	34	PKP2	VS				

DOORBES 1961

- 89 -

NOVEMBRE

639	20	17 58	17.5	31.3 N	040.8 W	.000	38.46	258.22	USCGS
		18 05	46	P	VS	.000	39.5		
		18 05	58	*PP	VS, VG				
		18 07	20	PP	VG				
		18 08	08	/PPP/	VS				
		18 11	45	S	ES				
		18 14	15	/SS/	NG				
		18 24	15	LM	NG				
640	20	18 51	36.7	21.7 S	170.0 E	-.002	149.38	27.39	USCGS
		19 11	25	PKP1	VS				
		19 11	34	PKP2	VS				
641	22	02 45	21.1	21.6 S	169.8 E	.000	149.22	27.67	USCGS
		3 05	10	PKP1	VS				
642	22	10 36	12.7	21.4 S	170.2 E	.003	149.15	26.86	USCGS
		10 55	56	PKP1	VS				
643	22	11 06	39.2	21.6 S	169.9 E	.001	149.25	27.50	USCGS
		11 26	26	PKP	VS				
		11 26	35	PKP2	VG				
644	22	13 01	40.1	02.7 N	084.8 O	.001	87.49	271.27	USCGS
		13 14	27	P	VS				
		13 14	33	E	VS				
645	23	01 12	05.0	45.8 N	009.5 E	.000	5.41	140.70	BCIS
		1 13	26	PN	VS, EG		5.4		
		1 13	36	P*	VS, ES				
		1 13	54	PG	ES, EG				
		1 14	40	SS	ES, NS				
		1 14	52	S*	VS				
		1 15	02	SG	NS				
		1 15	15	M	EG				
		1 15	33	M	VS, VG				
646	25	20 19	50.4	36.2 N	141.4 E	.002	85.88	33.67	USCGS

DOURBES 1961

- 90 -

NOVEMBRE - DECEMBRE

20	32	28	P	VS	.002
20	32	48	*SP	VS	
20	33	11	E	VS	

647	27	05 57	07.7	31.6 N	131.1 E	-.002	85.78	43.41	USCGS
		6 09	46	P	VS, VG	-.002			
		6 09	54	*PP	NS				
		6 42	53	LQ	EG				
		6 50	07	LR	VG				
		6 52	23	LM	VG				

648	27	17 10	38.1	00.4 S	127.6 E	.000	110.78	63.79	USCGS
		17 29	54	PP	VG				
		17 39	09	PS	EG				
		17 40	39	E	EG				
		18 06	21	LQ	EG				
		18 12	44	LR	EG				
		18 15	22	LR	VG				
		18 22	09	LM	EG				

649	28	08 58	37.0	39.5 N	026.3 E	.000	18.61	116.41	BCIS
		9 03	06	P	VS				
		9 05	39	E	VS				
		9 08	25	LQ	EG				
		9 09	15	LR	VG				
		9 10	15	LM	VG				

650	28	16 37	58.5	35.9 S	142.2 E	.011	146.30	81.40	USCGS
		16 50	49	E	VS				

651	29	04 15	15.0	44.7 N	015.9 E	.000	9.36	120.88	BCIS
		4 18	22	E	NS, VG		9.4		
		4 19	59	S*	VS				
		4 20	23	SG	VS, NS				

652	29	21 55	44.7	23.1 S	170.9 E	-.001	150.97	26.68	USCGS
		22 15	40	PKP2	VS				
		22 15	55	E	VS				

653	01	21 13	04.1	26.5 N	124.9 E	.027	87.14	50.73	USCGS
-----	----	-------	------	--------	---------	------	-------	-------	-------



DOURBES 1961

- 91 -

DECEMBRE

		21 25	21	P	VS	.027	87.0		
		21 25	55	E	EG				
		21 26	24	*PP	VS,ES				
		21 27	00	E	VG				
		21 28	16	E	VS				
		21 35	53	S	NG				
		21 37	32	PS	NG				
		21 58	57	LR	EG				
		22 05	54	LM	VG				
654	02	12 40	18.0	36.9 N	008.0 E	.000	13.42	168.17	BCIS
		12 43	33	P	VS,NS		13.5		
		12 43	43	PP	VS,NS				
		12 44	01	/PPP/	NS				
		12 44	12	E	VS				
		12 50	22	LM	VS				
		12 55	35	M	VG				
		12 56	10	MR	EG				
655	03	18 31	56.1	40.9 N	044.1 E	.002	28.84	93.25	USCGS
		18 37	45	P	VS,ES	.002	28.8		
		18 37	56	*PP	VS				
		18 38	59	PPP	VS				
		18 40	50	E	VG				
		18 49	44	LM	VG				
656	03	19 55	05.5	43.6 N	013.1 E	.055	8.72	134.94	USCGS
		20 06	20	P	VS				
657	04	12 38	11.9	33.2 N	095.3 E	.002	65.69	66.80	USCGS
		12 48	55	P	VS				
		12 49	01	E	VS				
658	05	13 01	04.3	50.8 S	139.7 E	.000	151.67	108.98	USCGS
		13 20	58	*PPKP1	VS	.000	152.0		
		13 21	07	PKP2	VS,ES				
		13 21	17	*PPKP2	VS				
659	05	13 02	35.7	16.4 S	168.0 E	.027	143.77	27.63	USCGS
		13 21	49	PKP	VS	.027	143.9		
		13 22	11	E	VS				
		13 25	07	PP	ES				

DOORBES 1961

- 92 -

DECEMBRE

660	06	05 48	38.3	13.6 N	093.4 E	.000	78.87	82.08	USCGS
		6 00	41	P	VS,NS				
		6 00	47	PCP	VS,ES				
661	06	13 35	48.2	23.5 S	176.1 O	.002	153.44	1.42	USCGS
		13 55	44	PKP1	VS				
		13 56	11	PKP2	VS				
		15 06	14	LM	VG				
662	06	16 39	37.6	49.3 N	155.4 E	.004	77.77	19.04	USCGS
		16 51	31	P	VS	.004			
		16 51	53	*SP	NS				
663	09	02 15	22.0	56.3 N	153.9 O	-.001	72.39	347.64	USCGS
		2 26	49	P	ES				
		2 27	00	E	NS				
		2 27	10	PCP	VS				
		2 35	44	E	ES				
664	09	11 18	08.4	43.7 S	075.2 O	.000	116.36	232.77	USCGS
		11 36	56	PKP	NS	.000	116.5		
		11 37	03	*PPKP	VS				
		11 38	02	PP	VS				
		11 44	11	/SKS/	ES				
665	09	19 49	41.3	21.7 S	179.9 E	.092	151.40	9.14	USCGS
		20 08	26	PKP1	VS	.092	151.5		
		20 08	33	I	VS,NS				
		20 08	39	PKP2	VS,NS				
		20 10	52	*PPKP1	VS,NS				
666	10	08 39	03.6	34.6 N	026.0 E	-.003	22.00	126.62	USCGS
		8 43	59	P	VS,ES	-.003	22.0		
		8 44	07	*SP	VS				
		8 44	21	PP	VG				
		8 48	07	E	EG				
		8 48	52	SS	ES				
667	11	16 53	06.4	36.4 N	023.6 E	.000	19.38	127.73	USCGS

DOORBES 1961

- 93 -

DECEMBRE

		16 57	32		P		VS,ES				
		16 57	34		IP		VS,ES				
		16 57	50		PP		ES				
668	12	23 06	20.0	43.4	N	146.2	E	.005	80.94	27.24	USCGS
		23 18	32		P		VS,ES				
		23 18	43		PCP		NS				
669	13	16 49	50.4	18.9	S	168.4	E	-.001	146.25	28.38	USCGS
		17 09	32		PKP		VS				
		17 10	04		E		VS				
670	15	22 03	04.1	34.3	N	024.8	E	.000	21.63	129.22	USCGS
		22 07	56		P		VS				
		22 08	02		E		ES				
		22 08	17		PP		VS,ES				
671	16	13 40	26.3	51.9	N	160.1	E	.005	76.18	15.31	USCGS
		13 52	21		*PP		VS	.006			
		13 52	27		PCP		VS				
672	17	21 32	03.1	14.4	S	075.5	O	.008	94.66	253.26	USCGS
		21 45	16		P		VS				
673	17	22 12	32.3	54.5	S	143.9	E	.002	154.92	115.95	USCGS
		22 32	45		PKP2		VS	.002			
		22 32	57		*PPKP2		NS				
		22 33	46		E		VS				
674	18	21 35	36.0	38.4	N	020.2	E	.000	16.13	130.54	BCIS
		21 39	23		P		VS		16.2		
		21 39	35		PP		VS,ES				
		21 39	47		PPP		VS				
		21 40	28		F		NS				
		21 44	41		LR		NS				
		21 46	00		LM		ES				
675	19	17 30	10.6	24.2	N	122.4	E	.004	87.75	53.89	USCGS

DOORBES 1961

- 94 -

DECEMBRE

17 42 58 P VS

676	20	13 25	34.4	04.6 N	075.6 0	.022	80.14	265.42	USCGS
		13 37	27	P	VS,ES	.020	80.0		
		13 37	28	IP	VS,ES				
		13 37	32	PCP	VS,VG				
		13 37	46	E	VS,ES				
		13 38	08	*PP	EG				
		13 38	12	*PPCP	NS,VG				
		13 38	34	*SP	VS				
		13 40	55	PP	VG				
		13 47	19	S	VS,ES				
		13 47	25	SKS	VG				
		13 48	21	/SPP/	VG				
		14 01,0		L	VG				
		14 08	40	LR	VG				
		14 11	20	LM	VG				

677	20	18 10	32.0	46.2 N	011.5 E	.000	6.04	127.56	BCIS
		18 13	03	E	EG				

678	25	13 55	38.8	20.4 S	173.7 0	.005	150.32	356.77	USCGS
		14 15	25	PKP	VS,NS	.005			
		14 15	39	*PPKP	VS,NS				
		14 18	17	E	VS				

679	26	06 17	30.6	44.2 S	038.1 E	-.002	98.43	156.37	USCGS
		7 00	25	LQ	VG				
		7 05	20	LR	VG				
		7 15	07	LM	VG				

680	27	16 46	31.2	01.7 S	012.9 0	.001	53.78	201.85	USCGS
		16 55	52	P	VS	.001	54.0		
		16 55	55	IP	VS				
		16 57	50	/PP/	VS				
		16 59	13	/PPP/	EG				
		17 02	56	E	VG				
		17 05	13	E	EG				
		17 07	23	/SS/	VG				
		17 15	33	LR	EG				
		17 17	48	LM	VG				

681	28	23 48	01.7	41.2 S	175.8 E	.001	169.15	37.92	USCGS
-----	----	-------	------	--------	---------	------	--------	-------	-------

DOURBES 1961

- 95 -

DECEMBRE

			9	19	PKP2	VG	.001	169.0		
			9	33	*PPKP2	NS				
			9	42	*SPKP2	NS				
			13	24	/PP/	EG				
			19	53	SKKS	VS				
			20	11	PCSPKP	EG				
			21	45	E	VG				
		1	02	13	LQ	EG				
		1	18	23	LR	VG				
		1	26	03	LM	VG				
		1	35	05	LM	EG				
682	28	23	55	55.5	12.4 S	166.3 E	.008	139.48	28.16	USCGS
			15	16	PKP	VS				
			15	33	E	VS				
			18	48	PKS	VS				
683	30	00	39	27.1	52.3 N	177.6 E	.004	77.71	4.38	USCGS
			51	22	P	VS,NS	.004			
		1	01	20	/*SS/	NG,EG				
		1	34	55	LM	VS				
684	30	16	41	54.7	52.2 N	177.7 E	-.001	77.82	4.33	USCGS
		16	53	51	P	VS				
685	31	22	32	22.0	45.8 N	007.0 E	.000	4.59	158.51	BCIS
			22	34	SG	VS				
			22	24	E	VS				



