International Seismological Centre
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BANDEIRA
Janv. 1966

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda
C.P. 1228 C Luanda

BULLETIN SEISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 1 JANVIER 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08"S Longitude λ = 13º 28' 39"E

Latitude géocentrique: φ' = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	To (s)	Tg (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Jan. 1	Pn	13:46:56,0	iCPZNE;iz		
	Sn	13:47:24,6	iCPZNE;iz		
			Δ = 2,2º		
1	IP	19:38:36,8	iCPZ(0,02)E; iz;iZ	1	c;WE
	LR	19:44:38	LPZNE	28	
	U.S.C.G.S.:	Epicentre: 0,6 N, 25,4 W (Atlantique Central)			
	h = 33 km	H = 19:25:50,9	Mag: 4,8 (CGS)		
			Δ = 41,0º		
2	-	08:23:19,8	iCPZNE		
3	PKP	13:52:03,6	iCPZ(0,014)N;iz	0,5	d,NS
	U.S.C.G.S.:	Epicentre: 20,3 S, 178,5 W (Iles Fidji)			
	h = 537 km	H = 13:33:32,6	Mag: 5,3 (CGS)		
			Δ = 143,º		

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Jan. 3	P	18:28:58,0	iCPZ(0,0099);iz	0,8	d
	U.S.C.G.S.: Epicentre: 4,7 N, 76,0 W (Colombie) h = 103 km H = 18:16:05,9 Mag: 48 (C.G.S.) △ = 90,7º				
4	P	13:00:09,1	iCPZ(0,054)NE; iz;iZ	0,5	d,NS,EW
	U.S.C.G.S.: Epicentre: 15,4 S 70,9 W (Sud du Pérou) h = 189 km H = 12:48:13,2 Mag: 5,4 (C.G.S.) △ = 80,8º				
5	P	17:34:07,6	iCPZ;iz		d
	LR	18:01:00	LPZNE	46	
	U.S.C.G.S.: Epicentre: 13,2 N, 95,5 E (Iles Andaman) h = 37 km H = 17:21:28,4 △ = 85,9º				
7	LR	21:02:00	LPZNE	50	
9	P	09:23:22,5	iCPZ(0,04)N; iz;iZ	1	d,NS
	pP	09:23:57,0	iCPZN ;iz		d,NS
	U.S.C.G.S.: Epicentre: 11,5 N, 62,3 W (Iles Windward) h = 156 km H = 09:11:30,3 Mag: 5,1 (C.G.S.) △ = 79,5º				
11	LR	15:22:00	LPZNE	16	
	F	16:15:00	LPZ		
12	-	19:40:12,4	iCPZNE;iz		d,NS,EW
13	P	10:43:21,1	iCPZ(0,012);iz	1	c
	PcP	10:43:28,5	iCPZ		c
	U.S.C.G.S.: Epicentre: 19,1 N, 64,7 W (Iles Vierges) h = 41 km H = 10:30:51,1 Mag: 5,0 (C.G.S.) △ = 84,1º				
13	PKP	11:00:27,8	iCPZ		d
	LR	11:50:00	LPZNE	40	
	U.S.C.G.S.: Epicentre: 52,9 N, 172,0 E (Iles Aléoutiennes) h = 14 km H = 10:41:11,0 Mag: 5,6 (C.G.S.) △ = 138,4º				
14	(P)	17:14:39,2	iCPZNE;iz		
14	P	22:01:40,0	iCPZ(0,01)E;iz	1	d,EW
	U.S.C.G.S.: Epicentre: 37,8 S, 73,4 W (Côte du Chile Central) = 33 km H = 21:49:38,3 Mag: 5,0 (C.G.S.) △ = 78,5º				
14	LR	22:01:00	LPZNE	20	
15	P	05:21:09,4	iCPZ(0,023)NE; iz;iZ	0,8	c,SN,WE
	U.S.C.G.S.: Epicentre: 30,8 S, 71,7 W (Côte du Chile Central) h = 52 km H = 05:09:11,0 Mag: 4,8 (C.G.S.) △ = 78,4º				
15	PKP	11:16:10,5	iCPZ(0,0083) N;iz	0,8	d,NS
	U.S.C.G.S.: Epicentre: 20,3 S, 174,5 W (Iles Tonga) h = 33 km H = 10:56:36 Mag: 4,7 (C.G.S.) △ = 143,9º				
15	LR	13:08:36	LPZN	20	
15	P	19:40:44,4	iCPZ(0,03)NE; iz;iZ	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 33,6 S, 70,1 W (Chile-Argentine) h = 33 km H = 19:28:56,2 Mag: 5,0 (C.G.S.) △ = 76,6º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Jan. 15	P	19:41:22,0	iCPZ(0,03)NE; iz;iZ	0,5	d,NS,EW
	PcP	19:41:34,5	iCPZNE;iz		d,NS,WE
	SS	19:56:08	LPZNE		
	LR	20:05:00	LPZNE	40	
	U.S.C.G.S.: Epicentre: 33,5 S, 69,9 W (Chile-Argentine) h = 36 km H = 19:29:35 Mag: 5,5 (C.G.S.) △ = 76,7º				
16	LR	00:58:24	LPZNE;iZ	40	
16	PKP	09:31:10,0	iCPZ		d
	LR	10:28:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 52,9 N, 171,9 E (Iles Aléoutiennes) h = 25 km H = 09:11:50,0 Mag: 5,7 (C.G.S.) △ = 138,3º				
16	P	19:00:48,0	iCPZ(0,012)N;iz	0,7	c,SN
	pP	19:00:59,0	icPZN		c,SN
	LR	19:21:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 33,2 N, 26,2 E (Est de la Mer Méditerranée) h = 33 km H = 18:52:00,8 Mag: 5,0 (C.G.S.) △ = 49,6º				
17	-	07:47:09,0	iCPZNE;iz		
17	PKP	18:08:29,9	iCPZNE;iz;iZ		
	U.S.C.G.S.: Epicentre: 20,8 S, 178,5 W (Iles Fidji) h = 543 km H = 17:49:59,3 Mag: 5,7 (C.G.S.) △ = 142,4º				
18	PKP	06:46:08,5	iCPZ(0,042)NE;iz;iZ	0,8	c,SN,WE
	U.S.C.G.S.: Epicentre: 18,6 S, 177,8 W (Iles Fidji) h = 364 km H = 06:27:12,7 Mag: 5,3 (C.G.S.) △ = 144,7º				
19	P	04:56:39,0	iCPZ(0,02)E;iz	1	c,WE
	pP	04:56:52,5	iCPZE;iz		d,EW
	U.S.C.G.S.: Epicentre: 17,8 S, 71,3 W (Côte du Pérou) h = 50 km H = 04:44:28,9 Mag: 5,1 (C.G.S.) △ = 80,6º				
20	LR	05:34:40	LPZNE	50	
20	LR	09:09:00	LPZNE	30	
	LR	09:50:00	LPZNE	30	
	LQ	10:54:00	LPZNE	24	
20	PKP	15:21:43,3	iCPZ(0,028)NE; iz;iZ	1,2	d,NS
	LR	16:09:00	LPZNE	34	
	U.S.C.G.S.: Epicentre: 15,3 S, 173,0 W (Iles Samoa) h = 33 km H = 15:01:53,4 Mag: 5,3 (C.G.S.) △ = 149,1º				
20	LR	22:56:00	LPZNE	32	
21	LR	01:08:00	LPZNE	28	
21	LR	12:59:00	LPZNE	36	
22	P	00:33:11,0	iCPZN;iz		c,SN
	LR	00:51:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 37,7 N, 30,0 E (Turquie h = 23 km H = 00:23:42,7 Mag: 5,0 (C.G.S.) △ = 54,8º				
22	LR	05:09:00	LPZN	20	
22	PKP	11:19:38,6	iCPZ(0,026)NE; iz;iZ	0,8	c,SN,WE
	U.S.C.G.S.: Epicentre: 17,9 S, 178,5 W (Iles Fidji) h = 598 km H = 11:01:05,3 Mag: 5,3 (C.G.S.) △ = 145,2º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Jan. 22	P	12:53:20,5	iCPZ;iz		c
	U.S.C.G.S.: Epicentre: 22,3 S, 65,6 W (Argentine) h = 243 km H = 12:42:04,8 Mag: 4,3 (C.G.S.) △ = 74,8º				
22	PKP	14:46:31,0	iCPZ(0,02)N;iz;iZ	1	d,NS
	PP	14:49:19,0	LPZN		
	LR	15:35:00	LPZNE;Z	32	
	U.S.C.G.S.: Epicentre: 56,0 N, 153,7 W (Sud de l'Alaska) h = 33 km H = 14:27:07,9 Mag: 5,8 (C.G.S.) △ = 137,8º				
22	PKP	19:56:04,5	iCPZ(0,015)N;iz	1	d,NS
	U.S.C.G.S.: Epicentre: 21,0 S, 174,2 W (Iles Tonga) h = 33 km H = 19:36:32,4 Mag: 5,0 (C.G.S.) △ = 143,3º				
23	LR	01:52:00	LPZE	30	
24	P	02:26:39,1	iCPZ(0,015);iz	1	
	U.S.C.G.S.: Epicentre: 32,7 N, 67,6 E (Afghanistan) h = 33 km H = 02:15:27,7 Mag: 5,2 (C.G.S.) △ = 70,2º				
24	P	15:44:05,5	iCPZ(0,014)N;iz	0,9	c,SN
	U.S.C.G.S.: Epicentre: 29,9 N, 69,8 E (West du Pakistan) h = 4 km H = 15:32:48,1 Mag: 5,3 (C.G.S.) △ = 70,3º				
24	P	21:19:11,6	iCPZ(0,0071)NE; iz;iZ	0,8	c,SN,WE
	pP	21:19:15,5	iCPZNE;iz		c,SN,WE
	LR	21:46:00	LPZE	22	
	U.S.C.G.S.: Epicentre: 23,6 S, 64,2 W (Argentine) h = 14 km H = 21:07:39 Mag: 5,0 (C.G.S.) △ = 73,0º				
25	Pg	13:10:40,5	iCPZNE;iz		c,SN,WE
	Sg	13:10:44,3	iCPZNE;iz		d,NS,EW
25	LR	18:59:00	LPZNE	30	
26	P	01:09:27,9	iCPZ(0,035)NE; iz;iZ	1	d,NS,EW
	pP	01:09:46,5	iCPZNE;iz		
	LR	01:24:00	LPZN	34	
	U.S.C.G.S.: Epicentre: 59,6 S, 26,3 W (Sud des Iles Sandwich) h = 80 km H = 01:00:15,2 Mag: 5,6 (C.G.S.) △ = 53,9º				
26	PKP	15:49:44,4	iCPZ(0,018)NE;iz	0,6	c,SN,WE
	U.S.C.G.S.: Epicentre: 14,3 S, 167,3 E (Iles Nouvelles Hébrides) h = 207 km H = 15:30:42,7 Mag: 4,8 (C.G.S.) △ = 140,9º				
26	-	19:20:57,5	iCPZNE;iz		
27	PKP	02:20:10,0	iCPZ(0,028)NE; iz;iZ	0,8	d,NS,EW
	U.S.C.G.S.: Epicentre: 17,9 S, 178,6 W (Iles Fidji) h = 600 km H = 02:01:36,7 Mag: 5,1 (C.G.S.) △ = 145,1º				
28	PKP	04:55:20,5	iCPZ(0,044)NE; LPZ;iz;iZ	0,5	d,NS,EW
	U.S.C.G.S.: Epicentre: 17,5 S, 176,9 E (Iles Fidji) h = 558 km H = 04:36:46,1 Mag: 5,6 (C.G.S.) △ = 143,6º				
28	-	05:43:19,7	iCPZNE		d,NS,EW

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Jan. 28	PKP	06:01:43,1	iCPZN;iz		d
	PP	06:04:42,5	eCPZ;eLPZ;ez;eZ		d
	LR	06:46:00	LPZNE	40	
	U.S.C.G.S.: Epicentre: 17,1 S, 168,4 E (Iles Nouvelles Hébrides) h = 24 km H = 05:42:16,4 Mag: 5,7 (C.G.S.) △ = 139,5º				
28	-	08:21:44,2	iCPZNE;iz		d,NS,WE
28	P	09:03:58,0	iCPZ(0,0125);iz	1	c
	U.S.C.G.S.: Epicentre: 39,3 N, 73,1 E (Tadzhik-Sinkiang) h = 20 km H = 08:52:02,2 Mag: 5,4 (C.G.S.) △ = 77,6º				
28	PKP	09:46:10,0	iCPZ(0,08)NE; iz;iZ	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 17,9 S, 178,5 W (Iles Fidji) h = 579 km H = 09:27:34,3 Mag: 5,4 (C.G.S.) △ = 145,1º				
28	PKP	19:26:37,6	iCPZ;iz		d
	U.S.C.G.S.: Epicentre: 51,7 N, 177,0 W (Iles Aléoutiennes) h = 54 km H = 19:07:14,4 Mag: 5,2 (C.G.S.) △ = 142,2º				
28	Pn	22:11:57,0	CPZNE; z		
	Sn	22:12:25,0	CPZNE; z		
	△ = 2,2º				
28	PKP	22:57:17,6	iCPZ(0,011)N;iz	0,5	
	U.S.C.G.S.: Epicentre: 51,6 N, 157,0 E (Est de Kamtchatka) h = 107 km H = 22:38:12,2 Mag: 5,6 (C.G.S.) △ = 133,2º				
28	-	23:00:35,6	iCPZNE;iLPZ; iz;iZ		c,SN,WE
29	Pn	07:48:59,0	iCPZNE;iz		
	Sn	07:49:56,5	iCPZNE;iz		
	△ = 4,8º				
31	Pg	13:52:39,2	iCPZNE;iz		
	Sg	13:52:49,1	iCPZNE;iz		
	△ = 0,8º				
31	P	14:12:53,0	iCPZ(0,055)NE;iz	1	d,NS,EW
	LR	14:37:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 24,8 S, 64,4 W (Argentine) h = 43 km H = 14:01:25,4 Mag: 5,8 (C.G.S.) △ = 73,0º				

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S E R V I Ç O M E T E O R O L Ó G I C O D E A N G O L A

Centro de Geofísica de Luanda

C.P. 1228 C L u a n d a

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 2 FÉVRIER 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08"S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	To (s)	Tg (s)	Amplification Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Fév. 1	P	00:23:18,6	iz; iZ		d
	LR	00:35:00	Z	20	
	F	00:50:00	Z		
	U.S.C.G.S.: Epicentre: 52,3 S, 5,2 W (Atlantique Sud)				
	h = 33 km H = 00:15:09,9 Mag: 5,6 (C.G.S.)				
	Δ = 41,0º				
1	(P)	05:18:42,0	iZ		d
2	PKP	05:53:46,5	iCPZN;iz;iZ		d,NS
	LR	06:54:00	LPZ	20	
	U.S.C.G.S.: Epicentre: 17,8 S, 173,2 W (Iles Tonga)				
	h = 33 km H = 05:34:01,8 Mag: 5,2 (C.G.S.)				
	Δ = 146,6º				
2	-	06:54:31,2	iz		d
2	P	09:31:47,1	iCPZNE;iz		d,NS,EW
	U.S.C.G.S.: Epicentre: 33,9 N, 73,0 E (West du Pakistan)				
	h = 26 km H = 09:20:07,5 Mag: 5,3 (C.G.S.)				
	Δ = 74,8º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Fév. 3	P	00:59:03,5	iCPZ(0,028)NE;iz	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 21,7 S, 68,4 W (Chile-Bolivie) h = 116 km H = 00:47:19,2 Mag: 5,3 (C.G.S.) △ = 77,2º				
3	P	02:17:47,2	iCPZ(0,0225) NE;iz	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 33,8 S, 70,1 W (Chile-Argentine) h = 6 km H = 02:05:54,8 Mag: 4,8 (C.G.S.) △ = 76,6º				
4	-	04:37:42,7	iCPZN		d,NS
4	-	05:38:59,5	iCPZ		d
4	LR	06:52:00	LPZN	20	
4	LR	09:10:00	LPZN	16	
4	PKP	10:58:14,3	iCPZNE;iz;iZ		c,SN,EW
	SKP	11:01:36,6	iCPZNE;iz;iZ		c,SN,EW
	SS	11:19:00	LPZNE		
	LR	11:41:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 15,9 S, 167,9 E (Iles des Nouvelles Hébrides) h = 190 km H = 10:39:12,2 Mag: 6,0 (C.G.S.) △ = 140,2º				
5	P	02:11:12,3	iCPZ(0,17)NE; LPZN;iz;iZ	1,5	c,NS,EW
	S	02:18:00	LPZNE;Z		
	LR	02:28:00	LPZNE;Z	30	
	F	03:09:00	LPZ		
	U.S.C.G.S.: Epicentre: 39,2 N, 22,0 E (Grece) h = 38 km H = 02:01:48,3 Mag: 5,8 (C.G.S.) △ = 54,6º				
5	P	15:25:57,9	iCPZNE;iz;iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 26,1 N, 103,1 E (Chine) h = 15 km H = 15:12:29,1 Mag: 6,1 (C.G.S.) △ = 96,2º				
5	LR	15:53:00	LPZN	20	
5	LR	16:05:00	Z	20	
5	PKP	16:35:05,1	iCPZNE;iz;iZ		d,NS,WE
	PP	16:37:36,5	iCPZN		d,SN
	SKP	16:38:26,5	iCPZ;iz		c
	U.S.C.G.S.: Epicentre: 50,2 N, 155,1 E (Iles Kouriles) h = 98 km H = 16:16:01,0 Mag: 5,8 (C.G.S.) △ = 133,0º				
5	P	23:46:20,0	iCPZNE;LPZ; iz;iZ		c,NS,EW
	U.S.C.G.S.: Epicentre: 19,6 S, 69,6 W (Nord du Chili) h = 87 km H = 23:34:24,7 Mag: 5,4 (C.G.S.) △ = 78,7º				
6	-	00:53:33,5	iCPZNE;iz		c,SN,WE
6	P	10:01:35,5	iCPZNE;iz;iZ		c,NS,EW
	LR	10:16:00	LPZNE;Z	20	
	U.S.C.G.S.: Epicentre: 56,8 S, 25,4 W (Sud des Iles Sandwich) h = 13 km H = 09:52:30,2 Mag: 5,7 (C.G.S.) △ = 51,2º				
6	-	10:07:09,8	iCPZNE;iz		d,SN,EW
7	P	04:37:26,5	iCPZNE;LPZNE; iz;iZ		d,SN,WE
	LR	05:00:00	LPZNE;Z	40	
	U.S.C.G.S.: Epicentre: 29,8 N, 69,7 E (West du Pakistan) h = 33 km H = 04:26:13,9 Mag: 6,0 (C.G.S.) △ = 70,2º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Fév. 7	P	05:33:02,0	iCPZNE;iz;iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 30,0 N, 69,9 E (West du Pakistan) h = 10 km H = 05:21:44,6 Mag: 5,4 (C.G.S.) △ = 70,4º				
7	P	05:41:30,6	iCPZNE;iz;iZ		d,SN,WE
	U.S.C.G.S.: Epicentre: 30,0 N, 69,6 E (West du Pakistan) h = 48 km H = 05:30:19,2 Mag: 5,3 (C.G.S.) △ = 70,2º				
7	P	15:11:30,8	iCPZ;iz		d
	U.S.C.G.S.: Epicentre: 24,8 S, 68,7 W (Chili-Argentine) h = 94 km H = 14:59:48,0 Mag: 4,5 (C.G.S.) △ = 76,8 º				
7	P	23:17:52,4	iCPZNE;LPZ;iz;iZ		d,NS,EW
	LR	23:44:00	LPZNE;Z	26	
	U.S.C.G.S.: Epicentre: 30,2 N, 69,8 E (West du Pakistan) h = 10 km H = 23:06:34,5 Mag: 5,8 (C.G.S.) △ = 70,5º				
9	P	04:49:31,5	iCPZNE;iLPZNE; iz;iZ		d,NS,WE
	LR	05:04:00	LPZNE;Z	26	
	F	07:00:00	LPZ		
	U.S.C.G.S.: Epicentre: 56,7 S, 25,7 W (Sud des Iles Sandwich) h = 27 km H = 04:40:28,4 Mag: 5,9 (C.G.S.) △ = 51,2º				
9	P	08:33:32,5	iCPZNE;iz;iZ		d,SN,WE
	U.S.C.G.S.: Epicentre: 29,8 N, 69,8 E (West du Pakistan) h = 29 km H = 08:22:17,9 Mag: 5,2 (C.G.S.) △ = 70,3º				
9	P	10:55:57,0	iCPZNE;iz;iZ		d,NS,EW
	LR	11:12:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 56,6 S; 25,3 W (Sud des Iles Sandwich) h = 33 km H = 10:46:56,3 Mag: 5,6 (C.G.S.) △ = 51,0º				
9	P	15:26:02,4	iCPZNE;iz;iZ		d,NS,EW
	LR	15:57:00	LPZN	26	
	U.S.C.G.S.: Epicentre: 15,2 S, 75,2 W (Côte du Perou) h = 54 km H = 15:13:30,1 Mag: 5,5 (C.G.S.) △ = 85,0º				
9	P	20:05:57,4	iCPZN;iz;iZ		c,SN
	LR	20:20:00	LPZN	28	
	U.S.C.G.S.: Epicentre: 56,6 S, 25,5 W (Sud des Iles Sandwich) h = 33 km H = 19:56:51,9 △ = 51,1º				
10	PKIKP	14:40:15,0	iCPZE		c,WE
	PKP	14:40:26,5	iCPZNE;iz;iZ		c,SN,EW
	LR	15:19:00	LPZNE;Z	40	
	U.S.C.G.S.: Epicentre: 20,8 N, 146,3 E (Région des Iles Mariannes) h = 43 km H = 14:21:10,9 Mag: 6,2 (C.G.S.) △ = 134,8º				
10	PKP	15:17:45,0	iCPZNE;iz;iZ		d,SN
	U.S.C.G.S.: Epicentre: 19,4 S, 173,1 W (Iles Tonga) h = 10 km H = 14:58:04 Mag: 5,1 (C.G.S.) △ = 145,1º				
12	PKP	11:58:47,0	iCPZNE;iz;iZ		c,NS,WE
	U.S.C.G.S.: Epicentre: 18,3 S, 174,8 W (Iles Tonga) h = 190 km H = 11:39:25,5 Mag: 5,6 (C.G.S.) △ = 146,8º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Fév. 13	P	05:10:40,7	iCPZNE;iz;iZ		c,NS,EW
	U.S.C.G.S.: Epicentre: 49,8 N, 78,1 E (Est du Kazakh-U.R.S.S.) h = 0 km H = 04:57:57,7 Mag: 6,3 (C.G.S.) △ = 85,8º				
13	-	06:19:13,4	iCPZNE;iz		c,NS,EW
13	P	10:58:08,7	iCPZ;iz;iZ		c
	LR	11:30:00	LPZNE	40	
	U.S.C.G.S.: Epicentre: 26,1 N, 103,2 E (Province de l'Yunnan-Chine) h = 33 km H = 10:44:41,0 Mag: 5,7 (C.G.S.) △ = 96,3º				
13	-	12:15:17,0	iCPZ;iz;iZ		d
13	P	19:21:00,0	iCPZNE		c,SN,WE
	U.S.C.G.S.: Epicentre: 29,8 N, 69,7 E (West du Pakistan) h = 33 km H = 19:09:47,4 Mag: 5,1 (C.G.S.) △ = 70,2º				
14	(P)	17:18:15,4	iCPZE		d,EW
	LR	18:26:00	LPZNE	20	
15	LR	11:05:00	LPZN	30	
15	PKP	22:52:21,9	iCPZ;iz		d
	U.S.C.G.S.: Epicentre: 26,5 S, 178,2 E (Sud des Iles Fidji) h = 593 km H = 22:34:05,4 Mag: 5,6 (C.G.S.) △ = 136,0º				
15	-	22:54:58,0	iCPZNE;iz		d,NS,WE
16	PKP	03:37:45,0	iCPZNE;iz		c,SN,WE
	pPKP	03:37:54,5	iCPZNE;iz		d,NS,EW
	PP	03:40:41,5	iCPZNE;iz		d,NS,EW
	LR	04:25:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 17,7 S, 167,9 E (Iles des Nouvelles Hébrides) h = 31 km H = 03:18:27,2 Mag: 6,5 (C.G.S.) △ = 138,8º				
16	(S)	21:09:48,0	iCPZNE;iz		d,SN,WE
16	PKP	23:56:45,2	iCPZNE;iz;iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 18,1 S, 173,8 W (Iles Tonga) h = 33 km H = 23:37:05 Mag: 5,2 (C.G.S.) △ = 146,2º				
17	P	11:58:38,4	iCPZNE;LPZNE; iz;iZ		d,NS,WE
	LR	12:13:00	LPZNE;Z	24	
	U.S.C.G.S.: Epicentre: 32,2 S, 78,9 E (Océan Indien) h = 33 km H = 11:48:00,8 Mag: 6,4 (C.G.S.) △ = 61,5				
17	P	12:53:39,5	iCPZNE;iz;iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 32,2 S, 79,0 E (Amsterdam - Océan Indien) h = 33 km H = 12:43:01,1 Mag: 5,7 (C.G.S.) △ = 61,6º				
18	(P)	11:47:00	iCPZNE;iz		
	-	11:52:16,5	iCPZNE;iz;iZ		d,SN,WE
	LR	12:51:00	LPZNE	36	
18	-	12:41:33,0	iCPZN		c,NS
19	P	13:02:12,5	iCPZNE;iz;iZ		c,SN,EW
	U.S.C.G.S.: Epicentre: 35,3 N, 70,9 E (Hindou Kush) h = 59 km H = 12:50:42,1 Mag: 5,1 (C.G.S.) △ = 74,0º				
20	Pn	18:36:32,0	iCPZNE;iz		
	Sn	18:37:18,0	iCPZNE;iz		

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Fév. 21	P	00:31:31,0	iCPZNE;LPZN;iz;iZ	1	c,SN,EW
	LR	00:46:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 55,6 S, 26,9 W (Sud des Iles Sandwich) h = 33 km H = 00:22:29,7 △ = 51,0º				
21	P	00:37:32,5	iCPZNE;iz;iZ		c,SN,WE
	U.S.C.G.S.: Epicentre: 55,7 S, 26,7 W (Sud des Iles Sandwich) h = 9 km H = 00:28:27,0 Mag: 5,5 (C.G.S.) △ = 51,0º				
22	P	00:26:32,5	iCPZN;iz;iZ		c,SN
	U.S.C.G.S.: Epicentre: 60,5 S, 26,9 W (Sud des Iles Sandwich) h = 33 km H = 00:17:09,2 Mag: 5,6 (C.G.S.) △ = 54,1º				
22	-	02:01:11,4	iCPZN;iz,iZ		c,NS
22	PKIKP	05:21:37,7	iCPZNE;iz		c,SN,WE
	PKP	05:21:50,9	iCPZNE;iz;iZ		d,SN,EW
	pPKP	05:22:00,6	iCPZNE;iz;iZ		c,SN,WE
	SKP	05:25:20,5	iCPZNE;iz,iZ		c,EW
	LR	06:07:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 5,4 S, 151,5 E (Nouvelle Bretagne) h = 28 km H = 05:02:37,2 Mag: 6,2 (C.G.S.) △ = 133,6º				
23	P	12:53:38,8	iCPZNE;iz;iZ		d,NS,WE
	LR	13:04:00	LPZN	30	
	U.S.C.G.S.: Epicentre: 48,3 S, 9,8 W (Atlantique Sud) h = 33 km H = 12:46:18,4 Mag: 4,9 (C.G.S.) △ = 38,5º				
24	P	00:29:20,5	iCPZNE;iz;iZ		d,SN,WE
	U.S.C.G.S.: Epicentre: 26,4 N, 91,5 E (Est de l'Inde) h = 47 km H = 00:16:40,5 Mag: 5,1 (C.G.S.) △ = 85,8º				
24	PKP	20:28:04,0	iCPZNE;iz;iZ		d,NS,WE
	U.S.C.G.S.: Epicentre: 6,1 S, 147,4 E (Est de la Nouvelle Guinée) h = 59 km H = 20:08:57,0 Mag: 5,5 (C.G.S.) △ = 129,8º				
24	P	21:29:47,5	iCPZE		c,WE
	LR	21:42:00	LPZE	30	
	U.S.C.G.S.: Epicentre: 1,6 N, 29,4 W (Atlantique Central) h = 33 km H = 21:21:32,2 Mag: 4,7 (C.G.S.) △ = 45,6º				
25	PKP	23:10:34,7	iCPZ;iz		c
	LR	00:02:00	LPZN	30	
	U.S.C.G.S.: Epicentre: 15,1 S, 173,2º W (Iles Tonga) h = 33 km H = 22:50:47,1 Mag: 5,5 (C.G.S.) △ = 149,2º				
26	-	10:34:19,0	iz; iZ		c
26	PKP	11:42:49,8	iz;iZ		d
	LR	12:34:00	LPZN	30	
	U.S.C.G.S.: Epicentre: 15,4 S, 173,4 W (Iles Tonga) h = 127 km H = 11:21:57 Mag: 4,9 (C.G.S.) △ = 149,0º				
27	P	00:42:17,6	iz;iZ		c
	pP	00:42:26,8	iz;iZ		c
	U.S.C.G.S.: Epicentre: 60,8 S, 22,5 W (Sud des Iles Sandwich) h = 33 km H = 00:31:52 Mag: 5,4 (C.G.S.) △ = 52,7º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Fév. 27	P	02:59:25,4	iz;iZ		c

U.S.C.G.S.: Epicentre: 58,9 S, 25,8 W (Sud des Iles Sandwich)

h = 33 km H = 02:49:00 Mag: 4,9 (C.G.S.)

△ = 52,6º

28	PKP	02:20:49,5	iCPZ		d
	pPKP	02:21:50,8	iCPZ		d
	PP	02:22:45,0	iCPZ		d
	pPP	02:23:38,5	iCPZ		c

U.S.C.G.S.: Epicentre: 43,7 N, 139,6 E (Mer du Japon)

h = 225 km H = 02:02:13,6 Mag: 5,5 (C.G.S.)

△ = 125,9º

28	P	21:50:48,0	iCPZNE;iz;iZ	0,7	d,SN,EW
	pP	21:51:05,8	iCPZNE;iz;iZ		c,NS,WE

U.S.C.G.S.: Epicentre: 26,0 S, 70,4 W (Côte Nord du Chili)

h = 67 km H = 21:38:52,4 Mag: 5,7 (C.G.S.)

△ = 78,2º

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BANDEIRA MARCH – JUNE 1966.

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda
C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 3 MARS 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08"S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:
Granite

Constantes des séismographes

Séismographes	To (s)	Tg (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mars 1	P	12:33:32,0	iCPZ(0,017)NE; iz	0,4	d
U.S.C.G.S.: Epicentre: 23,3 S, 68,1 W (Nord du Chili) h = 120 km H = 12:21:51,4 Mag: 5,0 (C.G.S.) Δ = 76,6º					
3	PKP	03:44:41,6	iCPZ(0,009);iz	0,6	d
	SKP	03:48:13,3	iCPZNE		c,SN,WE
	LR	04:38:00	LPZNE	30	
U.S.C.G.S.: Epicentre: 48,3 N, 154,3 E (Iles Kouriles) h = 45 km H = 03:25:28,0 Mag: 5,9 (C.G.S.) Δ = 133,7º					
3	LR	10:48:00	LPZNE;Z	26	
4	PKP	17:48:54,9	iCPZNE;iz		
U.S.C.G.S.: Epicentre: 24,2 S, 177,1 W (Sud des Iles Fidji) h = 33 km H = 17:29:26 Mag: 4,8 (C.G.S.) Δ = 139,6º					

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mars 5	-	00:16:55,5	iCPZN;iz		d,NS
	LR	01:00:00	LPZNE;z	30	
U.S.C.G.S.: Epicentre: 38,8 S, 177,9 E (Ile du Nord, Nouvelle-Zélande) h = 27 km H = 23:58:55,9 Mag: 6,1 (C.G.S.) △ = 124,4º					
5	P	21:01:34,4	iCPZ(0,014)NE; eLPZE;iz,iZ	0,6	d,NS,EW
	S	21:07:00	eLPZE		
	(SS)	21:09:20,0	LPZNE		c,SN,WE
	LR	21:11:00	LPZNE;Z	20	
U.S.C.G.S.: Epicentre: 0,0, 18,0 W (Nord de l'ile Ascension) h = 33 km H = 20:54:45,7 Mag: 5,2 (C.G.S.) △ = 34,5º					
6	P	02:23:00,5	iCPZ(0,033)E	1,1	c,EW
U.S.C.G.S.: Epicentre: 31,6 N, 80,5 E (Tibet) h = 35 km H = 02:10:56,8 Mag: 5,4 (C.G.S.) △ = 79,3º					
6	P	02:27:58,2	iCPZ(0,16)NE; eLPZNE	1,5	d,SN,WE
	sS	02:38:07,0	eLPZNE		c,SN,WE
	SSS	02:46:00	eLPZNE		
	LR	02:50:00	LPZNE	44	
U.S.C.G.S.: Epicentre: 31,6 N, 80,5 E (Tibet) h = 44 km H = 02:15:56,7 Mag: 6,1 (C.G.S.) △ = 79,3º					
6	LR	19:08:00	LPZNE	40	
	F	20:20:00	LPZ		
U.S.C.G.S.: Epicentre: 24,1 S, 176,9 W (Sud des Iles Fidji) h = 33 km H = 18:01:50,0 Mag: 5,4 (C.G.S.) △ = 139,7º					
7	P	01:26:15,3	iCPZ(0,022)NE; iz	1,2	c
	LR	01:43:00	LPZNE;Z	40	
	F	03:00:00	LPZ		
U.S.C.G.S.: Epicentre: 39,1 N, 41,7 E (Turquie) h = 13 km H = 01:16:05,8 Mag: 5,5 (C.G.S.) △ = 60,1º					
7	(Pn)	15:04:21,3	iCPZNE;iz,iZ		c,NS,EW
7	P	20:44:54,5	iCPZ;iz		
	LR	20:51:00	LPZNE	24	
U.S.C.G.S.: Epicentre: 14,2 S, 14,5 W (Atlantique Sud) h = 33 km H = 20:39:14,2 Mag: 4,6 (C.G.S.) △ = 27,0º					
7	PP	21:48:10,0	eLPZ		d
	(SP)	21:57:40,0	eLPZNE;eZ		d,SN,WE
	SS	22:03:00,0	eLPZNE		
	SSS	22:07:00,0	eLPZNE		
	LR	22:27:00	LPZNE;Z	30	
	F	00:37:00	LPZ		
U.S.C.G.S.: Epicentre: 37,2 N, 114,8 E (Chine) h = 33 km H = 21:29:17,0 Mag: 5,8 (C.G.S.) △ = 107,8º					
8	PKP	00:37:48,1	iCPZ(0,015)NE; eLPZ;iz,iZ	0,6	c,SN
	pPKP	00:38:00,0	iCPZ;iz		c
	LR	01:34:00	LPZNE	20	
U.S.C.G.S.: Epicentre: 18,9 S, 173,3 W (Iles Tonga) h = 33 km H = 00:18:09,8 Mag: 5,3 (C.G.S.) △ = 145,5º					
8	PKP	01:33:06,6	iCPZ(0,023)NE; eLPZ;iz,iZ	0,7	d
	-	01:36:51,1	iCPZNE;iz,iZ		
	LR	02:21:00	LPZNE;Z	36	
U.S.C.G.S.: Epicentre: 13,9 S, 166,6 E (Iles des Nouvelles Hébrides) h = 37 km H = 01:13:42,3 Mag: 5,8 (C.G.S.) △ = 140,8º					

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mars 8	PP	06:00:24	eLPZE		
	PS	06:09:52	LPZE		
	LR	06:34:00	LPZNE;Z	32	
U.S.C.G.S.: Epicentre: 1,9 N, 126,4 E (Iles Moluques) h = 33 km H = 05:41:04,5 Mag: 5,9 (C.G.S.) △ = 111,6º					
8	(P)	20:58:00,3	iCPZNE;iz		c,SN,WE
	-	20:58:30,0	iCPZNE;iz		d
9	P	03:18:09,5	iCPZ(0,015)NE; iz	1	c,NS,EW
	Lg	03:25:33,5	iCPZNE; iz		
U.S.C.G.S.: Epicentre: 2,2 N, 31,5 E (Ouganda) h = 35 km H = 03:12:48,2 Mag: 5,3 (C.G.S.) △ = 24,6º					
9	Sn	17:08:08,2	iCPZNE;iz		
9	P	23:26:49,7	iCPZ(0,025)E;iz	1	c,WE
U.S.C.G.S.: Epicentre: 7,4 S, 108,4 E (Java) h = 148 km H = 23:13:52 Mag: 5,6 (C.G.S.) △ = 92,9º					
10	PKP	04:44:39,4	iCPZ(0,012)N;iz	0,6	d,NS
U.S.C.G.S.: Epicentre: 32,2 N, 137,5 E (Sud du Japon) h = 382 km H = 04:26:19,6 Mag: 5,6 (C.G.S.) △ = 126,5º					
10	PKP	12:34:19,0	iCPZ(0,015)NE; iz,iZ	0,6	c,NS,EW
U.S.C.G.S.: Epicentre: 19,3 S, 177,0 W (Iles Fidji) h = 320 km H = 12:15:19,4 Mag: 5,5 (C.G.S.) △ = 144,2º					
11	P	02:00:25,0	iCPZ(0,02)NE;iz, iZ	1	c,SN,WE
U.S.C.G.S.: Epicentre: 19,5 S, 69,2 (Nord du Chili) h = 115 km H = 01:48:34,8 Mag: 4,7 (C.G.S.) △ = 78,4º					
11	P	09:42:36,0	iCPZ(0,006)E;iz	0,6	c, WE
	pP	09:42:57,0	iCPZE;iz		
U.S.C.G.S.: Epicentre: 23,7 S, 69,2 W (Nord d'Antofagasta) h = 67 km H = 09:30:42,0 Mag: 5,5 (C.G.S.) △ = 77,5º					
12	-	01:27:58,2	iCPZNE;iz		c,SN,WE
12	PKP	16:49:51,1	iCPZ(0,015)NE; eLPZNE;iz,iZ	1	
	F	22:00:00	LPZ		
U.S.C.G.S.: Epicentre: 24,1 N, 122,6 E (Taiwan) h = 63 km H = 16:31:21,8 Mag: 6,7 (C.G.S.) △ = 113,2º					
12	P	18:38:33,0	iCPZ(0,025)NE; iz, iZ	1	c, SN,WE
	pP	18:38:42,0	iCPZNE;iz,iZ		d,NS,EW
U.S.C.G.S.: Epicentre: 34,3 S, 72,3 W (Côte Central du Chili) h = 55 km H = 18:26:35,4 Mag: 4,9 (C.G.S.) △ = 78,2º					
12	-	18:42:33,3	iCPZ;iz,iZ		d
	-	18:42:42,6	iCPZE,iz,iZ		d, EW
13	PKP	19:00:08,0	iCPZ(0,015)NE; iz,iZ	0,6	c,SN,WE
U.S.C.G.S.: Epicentre: 20,9 S, 175,4 W (Iles Tonga) h = 65 km H = 18:40:40,7 Mag: 5,2 (C.G.S.) △ = 143,2º					

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mars 13	LR	18:46:00	LPZNE	28	
14	P	03:29:37,4	iCPZE		c, WE
	LR	03:41:00	LPZNE	26	
U.S.C.G.S.: Epicentre: 0,9 N, 27,7 W (Atlantique Central) h = 33 km H = 03:21:31,7 Mag: 5,2 (C.G.S.) △ = 43,6º					
14	(P)	04:45:28,3	iCPZE;iz		d,WE
	(Lg)	04:50:54,5	iCPZNE;iz		
15	P	15:45:04,5	iCPZ(0,01)NE; iz	1	
	Lg	15:50:05,5	iCPZNE;iz		
U.S.C.G.S.: Epicentre: 26,2 S, 28,0 E (Union Sud-Africaine) h = 33 km H = 15:40:59,9 Mag: 4,6 (C.G.S.) △ = 17,8º					
16	PKP	12:32:29,9	iCPZ(0,02)N;iz	1	d,SN
U.S.C.G.S.: Epicentre: 21,2 S, 174,3 W (Iles Tonga) h = 66 km H = 12:13:02,4 Mag: 5,4 (C.G.S.) △ = 143,1º					
16	LR	21:32:00	LPZE	30	
U.S.C.G.S.: Epicentre: 9,5 N, 121,9 E (Mer du Sulu) h = 24 km H = 20:38:23,5 Mag: 5,4 (C.G.S.) △ = 110,1º					
17	P*	01:14:06,8	iCPZNE;iz		
	Sg	01:14:20,4	iCPZNE;iz		
△ = 13,1º					
17	LR	04:56:00	LPZNE	34	
U.S.C.G.S.: Epicentre: 2,0 N, 126,4 E (Iles Moluques) h = 79 km H = 03:57:27,0 Mag: 5,4 (C.G.S.) △ = 112,6º					
17	PKP	16:08:53,0	iCPZ(0,064)NE; iLPZNE;iz,iZ	1	d,SN,WE
	pPKP	16:11:14,5	iCPZNE;eLPZ;iz,iZ		c,NS,EW
	-	16:19:56,7	iCPZN;iz		c,NS
	SS	16:34:00	LPZNE		
	LR	17:10:00	LPZNE	24	
U.S.C.G.S.: Epicentre: 21,1 S, 179,2 W (Iles Fidji) h = 626 km H = 15:50:32,2 Mag: 6,2 (C.G.S.) △ = 141,6º					
18	-	06:19:33,0	iCPZNE;iz		d,SN,WE
	-	06:24:17,0	iCPZ;iz,iZ		d
	-	06:27:00	eLPZNE		
18	LR	16:31:00	LPZ	26	
	LR	17:34:00	LPZ	26	
	LR	19:15:00	LPZ	22	
19	LR	14:54:00	LPZNE	24	
U.S.C.G.S.: Epicentre: 9,4 S, 159,2 E (Iles Salomon) h = 33 km H = 13:42:27,2 Mag:5,4 (C.G.S.) △ = 138,2º					
19	P	17:23:59,5	iCPZNE;eLPZN; iz,iZ		c,SN,EW
	S	17:27:00,0	eLPZNE		c,SN,WE
	SSS	17:34:00,0	eLPZNE		d,NS,EW
	LR	17:40:00	LPZNE;Z	20	
U.S.C.G.S.: Epicentre: 52,7 S, 19,9 E (Afrique du Sud-Ouest) h = 33 km H = 17:16:40,9 Mag: 5,4 (C.G.S.) △ = 38,2º					
19	-	23:09:44,5	iCPZNE;iz,iZ		c,NS,EW
	-	23:14:33,6	iCPZNE;iz,iZ		d,NS,WE

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes	Périodes (s)	Sens du mouvement
1966 Mars 20	P	01:47:46,5	iCPZ(0,03)NE; iLPZNE;iz,iZ	1	c,NS,EW
	(S)	01:52:05,7	iCPZNE;iLPZNE; iz,iZ		d,NS,EW
	Lg	01:53:37,5	iCPZNE;iLPZNE; iz,iZ		c,SN,NE
	LR	01:56:00	LPZNE ;Z	12	
	F	05:37:00	LPZ		
	U.S.C.G.S.: Epicentre: 0,6 N, 30,2 E (Ouganda) h = 36 km H = 01:42:49,9 Mag: 6,1 (C.G.S.) △ = 22,6º				
20	P	03:27:45,5	iCPZNE;iz		d,SN,WE
	Lg	03:34:36,2	iCPZNE;iz		c,NS,EW
	U.S.C.G.S.: Epicentre: 1,0 N, 29,8 E (République du Congo) h = 33 km H = 03:22:48 Mag: 5,1 (C.G.S.) △ = 22,8º				
20	-	06:02:40,5	iCPZNE;iz,iZ		c,NS,EW
20	PKP	08:07:24,0	iCPZ(0,053)NE; iz,iZ	1	c,SN,EW
	U.S.C.G.S.: Epicentre: 17,0 S, 174,3 W (Iles Tonga) h = 117 km H = 07:47:50,2 Mag: 5,7 (C.G.S.) △ = 147,2º				
20	P	09:00:36,0	iCPZ(0,025)NE; iz,iZ	1	c,NS,EW
	pP	09:00:40,3	iCPZNE;iz,iZ		c,NS,EW
	PP	09:01:09,0	iCPZNE;iz,iZ		d,NS,EW
	(S)	09:05:10,0	iCPZNE;iz,iZ		c,NS,EW
	Lg	09:07:16,0	iCPZNE;eLPZE; iz,iZ		d,NS,WE
	LR	09:08:00	LPZNE	12	
	U.S.C.G.S.: Epicentre: 0,8 N, 29,8 E (République du Congo) h = 12 km H = 08:55:35,5 Mag: 5,3 (C.G.S.) △ = 22,6º				
20	LR	10:09:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 21,0 S, 174,5 W (Iles Tonga) h = 95 km H = 09:04:31,8 Mag: 5,2 (C.G.S.) △ = 143,2º				
20	-	13:49:36,0	iCPZNE		c,SN,WE
20	LR	19:17:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 12,3 S, 167,4 E (Iles Sainte Croix) h = 57 km H = 18:09:09,5 Mag: 5,4 (C.G.S.) △ = 142,5º				
21	P	01:35:39,5	iCPZ(0,007)NE; iz,iZ	0,4	d,SN,WE
	(S)	01:40:27,0	iCPZNE;iz,iZ		c,SN,WE
	Lg	01:42:24,5	iCPZNE;iLPZNE; iz,iZ		c,SN,WE
	LR	01:43:00	LPZNE	12	
	U.S.C.G.S.: Epicentre: 0,8 N, 30,0 E (Ouganda) h = 33 km H = 01:30:41,6 Mag: 5,2 (C.G.S.) △ = 22,6º				
21	P	09:28:51,2	iCPZ(0,01)NE; iz,iZ	0,6	c,NS,EW
	(S)	09:33:58,0	iCPZNE;iz,iZ		d,NS,EW
	Lg	09:35:36,0	iCPZNE;eLPZNE; iz,iZ		d,NS,EW
	LR	09:37:00	LPZNE	12	
	U.S.C.G.S.: Epicentre: 0,8 N, 30,0 E (Ouganda) h = 33 km H = 09:23:53,2 Mag: 4,8 (C.G.S.) △ = 22,6º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mars 22	LR	09:14:00	LPZNE;Z	20	
	-	09:28:00,0	iCPZN	30	
	-	09:37:24,0	iCPZ		c
	-	09:38:26,0	eLPZNE;eZ		d,NS,EW
	F	12:10:00	LPZ		
	U.S.C.G.S.: Epicentre: 37,5 N, 115,1 E (Chine) h = 33 km H = 08:19:33,8 Mag: 6,0 (C.G.S.) △ = 108,1º				
23	PKIKP	00:22:16,5	iCPZ;iz		d
	PKP	00:23:09,0	iCPZ;iz		c
	-	00:33:40,0	eLPZE		d, EW
	SS	00:40:00	LPZNE	40	
	LR	01:06:00	LPZNE;Z	22	
	U.S.C.G.S.: Epicentre: 23,8 N, 122,8 E (Taiwan) h = 51 km H = 00:04:34,7 Mag: 6,3 (C.G.S.) △ = 113,4º				
23	P	04:23:38,5	iCPZ(0,025)NE; iz, iZ	1	c,SN,WE
	pP	04:23:44,4	iCPZNE;iz,iZ		d,SN,WE
	LR	04:50:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 38,1 S, 73,6 W (Côte Central du Chili) h = 33 km H = 04:11:36,1 Mag: 5,3 (C.G.S.) △ = 78,6º				
23	-	15:16:53,0	iCPZNE		d,SN,WE
24	PKP	04:24:05,4	iCPZ(0,02)NE; iz,iZ	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 21,5 S, 176,4 W (Iles Fidji) h = 191 km H = 04:04:55,5 Mag: 5,2 (C.G.S.) △ = 142,3º				
24	PKP	08:47:13,0	iCPZ(0,03)NE; iz,iZ	1	c,SN,EW
	(SKP)	08:50:58,6	iCPZN;iz,iZ		d,SN
	LR	09:36:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 13,7 S, 166,8 E (Iles des Nouvelles Hébrides) h = 43 km H = 08:27:51,3 Mag: 5,2 (C.G.S.) △ = 140,8º				
24	-	13:18:03,8	iCPZNE		d,NS,EW
24	LR	20:51:00	LPZ	30	
	U.S.C.G.S.: Epicentre: 9,2 S, 113,5 E (Sud de Java) h = 75 km H = 20:02:30,6 Mag: 5,0 (C.G.S.) △ = 97,2º				
24	PKP	22:27:19,0	iCPZ(0,025)NE; iz,iZ	1	d,NS,WE
	U.S.C.G.S.: Epicentre: 19,7 S, 176,1 W (Iles Fidji) h = 262 km H = 22:08:11,7 Mag: 4,3 (C.G.S.) △ = 144,2º				
25	-	02:34:43,5	iCPZNE;iz		c,NS,EW
	-	02:40:02,0	iCPZNE;iz		d,NS,EW
25	P	13:54:49,8	iCPZNE;iz,iZ		c,NS,EW
	(S)	13:59:36,0	iCPZNE;iz		d,NS,WE
	Lg	14:01:42,4	iCPZNE;eLPZNE; iz,iZ		
	LR	14:03:00	LPZNE	10	
	U.S.C.G.S.: Epicentre: 0,8 N, 30,5 E (Ouganda) h = 33 km H = 13:49,3 Mag: 4,6 (C.G.S.) △ = 22,6º				
25	P	22:02:40,0	iCPZNE;iz		d,SN,WE
	(S)	22:07:44,5	iCPZNE;iz		c,SN,EW
	Lg	22:09:32,0	iCPZNE;iz,iZ		d,SN,EW
	U.S.C.G.S.: Epicentre: 0,8 N, 30,5 E (Ouganda) h = 33 km H = 21:57:37,7 △ = 22,6º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mars 26	P	09:45:18,5	iCPZNE;iz,iZ		d,NS,WE
	S	09:47:38,0	iCPZNE;iz,iZ		c,SN,WE
	Lg	09:48:57,5	iCPZNE;eLPZNE; iz,iZ		c,SN,WE
	LR	09:49:00	LPZNE	10.	
	U.S.C.G.S.: Epicentre: 18,5 S, 26,2 E (Rhodésie) h = 16 km H = 09:42:17,8 Mag: 5,2 (C.G.S.) △ = 12,7º				
26	LR	16:14:00	LPZNE	30.	
	U.S.C.G.S.: Epicentre: 37,8 N, 114,9 E (Chine) h = 33 km H = 15:14:34 Mag: 4,8 (C.G.S.) △ = 107,8º				
27	P	05:51:42,8	iCPZN;iz,iZ		c,SN
	LR	06:03:00	LPZNE	24	
	U.S.C.G.S.: Epicentre: 55,4 S, 1,5 W (Ile Bouvet) h = 33 km H = 05:43:51,1 Mag: 5,1 (C.G.S.) △ = 42,1				
27	LR	19:42:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 8,9 N, 83,4 W (Costa Rica) h = 40 km H = 18:53:41,3 Mag: 5,6 (C.G.S.) △ = 98,9º				
28	P	12:16:31,5	iCPZ(0,01)N;iz	0,5	d,NS
	LR	12:28:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 55,4 S, 1,4 W (Ile Bouvet) h = 33 km H = 12:08:40,0 Mag: 4,6 (C.G.S.) △ = 42,1º				
28	LR	16:16:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 3,9 S, 80,9 W (Pérou-Équateur) h = 19 km H = 15:29:18,4 Mag: 5,1 (C.G.S.) △ = 93,2º				
28	LR	18:29:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 4,0 S, 80,8 W (Pérou-Équateur) h = 52 km H = 17:42:47,6 Mag: 5,3 (C.G.S.) △ = 93,2º				
29	Pn	01:42:15,0	iCPZNE;iz		c,SN,EW
	Sn	01:42:36,8	iCPZNE;iz, iZ		c,NS,WE
	△ = 1,6º				
29	PKP	02:36:44,5	iCPZ(0,014); iz,iZ	0,5	d
	PKS	02:39:59,5	iCPZ;iz,iZ		c
	U.S.C.G.S.: Epicentre: 23,7 N, 142,1 E (Iles Vulcano) h = 79 km H = 02:17:38,5 Mag: 5,9 (C.G.S.) △ = 131,0º				
29	PKP	11:01:41,0	iCPZNE;iz,iZ		d,SN,EW
	U.S.C.G.S.: Epicentre: 20,0 S, 175,3 W (Iles Tonga) h = 95 km H = 10:42:15,1 Mag: 5,1 (C.G.S.) △ = 144,0º				
29	P	17:29:13,3	iCPZNE;iz, iZ		d,SN,WE
	(S)	17:34:05,0	iCPZNE;iz		d,SN,WE
	Lg	17:36:00,0	iCPZNE;iz,iZ		c,SN,WE
	LR	17:37:00	LPZNE;Z	10	
	U.S.C.G.S.: Epicentre: 0,8 N, 30,4 E (Ouganda) h = 33 km H = 17:24:13 △ = 22,6º				
30	P	04:28:47,0	iCPZNE;iz,iZ		d,NS,EW
	pP	04:28:55,0	iCPZNE;iz, iZ		d,SN,EW
	LR	04:50:00	LPZN	24	
	U.S.C.G.S.: Epicentre: 21,8 N, 62,2 E (Mer de l'Arabie) h = 33 km H = 04:18:38,1 Mag: 5,6 (C. G. S.) △ = 60,2º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes( )	Périodes (s)	Sens du mouvement
1966 Mars 30	P	05:05:34,5	iCPZ(0,012)NE; iz,iZ	0,6	c,NS,EW
	pP	05:06:00,0	iCPZNE;iz,iZ		c,SN,WE

U.S.C.G.S.: Epicentre: 29,9 S, 71,4 W (Côte Central du Chili)
h = 87 km H = 04:53:41,0 Mag: 4,8 (C.G.S.)
= 78,3º

30	LR	13:45:00	LPZN	30	

U.S.C.G.S.: Epicentre: 49,8 N, 129,7 W (Ile Vancouver)
h = 33 km H = 12:40:01,0 Mag: 5,3 (C.G.S.)
= 134,1º

30	LR	21:53:00	LPZN	20	

U.S.C.G.S.: Epicentre: 32,5 S, 178,0 W (Iles Kermadec)
h = 16 km H = 20:40:44,1 Mag: 4,8 (C.G.S.)
= 131,3º

31	LR	06:14:00	LPZN	24	

U.S.C.G.S.: Epicentre: 17,3 S, 167,8 E (Iles des Nouvelles Hébrides)
h = 34 km H = 05:05:54,7 Mag: 5,4 (C.G.S.)
= 139,0º

31	P	22:41:43,7	iCPZN;iz,iZ		d,NS
	pP	22:41:54,2	iCPZN;iz		d,SN
	LR	22:52:00	LPZNE	30	

U.S.C.G.S.: Epicentre: 53,7 S, 3,0 W (Atlantique Sud)
h = 33 km H = 22:34:04,4 Mag: 4,9 (C.G.S.)
= 40,9º

31	P	23:49:18,0	iCPZ(0,02)NE; iz,iZ	1	c,NS,EW
	pP	23:50:06,0	iCPZN;iz		c,NS,EW

U.S.C.G.S.: Epicentre: 36,4 N, 70,8 E (Hindu Kush)
h = 200 km H = 23:38:00,5 Mag: 5,6 (C.G.S.)
= 74,5º

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SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda

C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - Nº 4 AVRIL 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes:

Séismographes	To (s)	Tg (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Spregnenther EW (LPE)	15,00	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Avr. 1	P	08:04:38,6	iCPZN;iz		c, NS
	-	08:11:21,5	iCPZ		c
	U.S.C.G.S.: Epicentre: 1,1 N, 30,0 E (Ouganda) h = 33 km H = 07:59:37 Mag: 4,4 (C.G.S.) Δ = 22,9º				
3	-	05:02:43,0	iCPZ		d
4	LR	06:24:00	LPZNE;Z	40	
	U.S.C.G.S.: Epicentre: 54,7 S 146,2 E (Westde l'île Macquarie) h = 33 km H = 05:37:50 Mag: 5,4 (C.G.S.) Δ = 99,7º				
4	P	06:54:38,0	iCPZ		d
	LR	07:26:00	Z	26	
	U.S.C.G.S.: Epicentre: 12,1 N, 92,7 E (Iles Andaman) h = 33 km H = 06:42:13,9 Mag: 5,0 (C.G.S.) Δ = 83,0º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Avr. 5	P	06:11:34,5	iCPZNE;iz		d,NS,EW
	S	06:14:13,5	iCPZNE;iz		c
	PcP	06:16:46,0	iLPZE;iZ		c, EW
	U.S.C.G.S.: Epicentre: 16,4 S, 28,5 E (Nord Rhodésie) h = 27 km H = 06:08:09,4				
			△= 14,6º		
5	LR	14:49:00	LPZN	30	
6	P	03:10:39,5	iCPZ(0,06)NE, eLPZNE;iz,iZ	1,5	c,SN,WE
	ScS	03:20:00	LPZNE		
	SSS	03 29:00	LPZ		
	LR	03:34:00	LPZNE;Z	32	
	F	05:53:00	LPZ		
	U.S.C.G.S.: Epicentre: 45,8 S, 96,1 E (Océan Indien) h = 33 km H = 02:59:01,7 Mag: 5,8 (C.G.S.)				
			△= 74,3º		
7	LR	06:19:00	LPZN	22	
	U.S.C.G.S.: Epicentre: 15,5 S, 174,1 W (Iles Tonga) h = 33 km H = 05:02:57 Mag: 4,9 (C.G.S.)				
			△= 148,7º		
7	Pn	06:35:26,0	iCPZNE;iz		c,NS
	Sn	06:36:11,0	iCPZNE;iz		
			△= 3,8º		
7	LR	15:53:00	LPZN	20	
	-	16:16:04	iCPZNE;iz		c,SN,WE
8	PKP	02:05:59,4	eCPZ(0,035)NE; eLPZ;ez;eZ	1	c,SN,WE
	PP	02:08:31,0	iCPZNE;eLPZNE; iz,eZ		d,SN,WE
	SS	02:26:00	LPZN		
	SSS	02:31:40	LPZNE		
	LR	02:52:00	LPZNE;Z	40	
	F	04:30:00	LPZ		
	U.S.C.G.S.: Epicentre: 51,2 N, 157,7 E (Côte de Kamtchatka) h = 471 km H = 01:46:44,9 Mag: 5,9 (CGS)				
			△= 133,8º		
8	PKP	11:30:09,6	iCPZ(0,03)NE;iz		d,NS,EW
	LR	12:25:00	LPZN	30	
	U.S.C.G.S.: Epicentre: 15,0 S, 175,3 W (Iles Samoa) h = 33 km H = 11:10:21,5 Mag: 5,2 (C.G.S.)				
			△= 148,8º		
8	LR	14:47:00	LPZN	30	
8	LR	23:57:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 56,7 N, 152,1 W (Iles Kodiak) h = 33 km H = 22:33:51 Mag: 4,6 (C.G.S.)				
			△= 136,8º		
9	LR	02:28:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 9,4 N, 84,2 W (Costa Rica) h = 40 km H = 02:34:23,0 Mag: 5,3 (C.G.S.)				
			△= 99,7º		
9	PKP	15:08:43,5	iCPZ(0,0093) NE;iz	0,5	c,SN,WE
	U.S.C.G.S.: Epicentre: 14,1 S, 166,7 E (Iles des Nouvelles Hébrides) h = 47 km H = 14:49:22,8 Mag: 5,4 (C.G.S.)				
			△= 140,8º		
10	Pn	10:04:30,0	iCPZNE;iz		
	Sn	10:05:51,0	iCPZNE;iz		

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Avr. 10	P	16:48:07,7	iCPZ(0,0375)NE; iLPZNE;iz,iZ	1	c,SN,WE
	pP	16:48:25,5	iCPZNE;iz,iZ		
	S	16:57:56,0	eLPZNE		
	LR	17:12:40	LPZNE;Z	40	
	U.S.C.G.S.: Epicentre: 31,5 S, 71,2 W (Côte Central du Chili) h = 64 km H = 16:36:14,6 Mag: 5,7 (C.G.S.) △= 77,9º				
12	P	23:49:39,0	eCPZ(0,05)NE; eLPZNE;iz,iZ	1	d,NS,EW
	S	23:59:30,0	LPZNE		
	sS	23:59:46,0	iCPZNE;iz,eZ		
	LR	00:18:00	CPZNE;LPZNE;Z	50	
	U.S.C.G.S.: Epicentre: 38,1 S, 73,0 W (Côte Central du Chili) h = 44 km H = 23:37:42,1 Mag: 5,7 (C.G.S.) △= 78,2º				
13	P	02:19:22,7	iCPZ(0,055)	1,2	c,NS,EW
	pP	02:19:29,3	iCPZNE;iz,iZ		
	U.S.C.G.S.: Epicentre: 1,1 N, 29,9 E (République du Congo) h = 23 km H = 02:14:20 △= 22,8º				
13	-	02:26:21,5	iCPZNE;iLPNE; iz,iZ		d,NS,EW
	(S)	02:27:43,0	LPZE;Z		
13	P	03:47:15,6	iCPZ(0,077) NE;iLPZNE;iz,iZ	1,2	c,SN,WE
	LR	04:12:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 38,2 S, 73,2 W (Côte Central du Chili) h = 40 km H = 03:35:16,3 Mag: 5,8 (C.G.S.) △= 78,2º				
13	Pn	07:38:53,4	iz		
	Sn	07:39:25,8	iz		
	△= 2,6º				
13	P	09:22:58,0	iCPZ(0,02)NE;iz	1	c,SN,WE
	LR	09:51:00	LPZN	20	
	U.S.C.G.S.: Epicentre: 38,3 S, 73,2 W (Côte Central du Chili) h = 37 km H = 09:10:57,7 Mag: 4,9 (C.G.S.) △= 78,2º				
13	P	09:48:09,0	iCPZ(0,025)NE. iLPN;iz	1	c,SN,WE
	Lg	09:54:56,6	iCPZNE;iLPN		d,NS,EW
	U.S.C.G.S.: Epicentre: 1,1 N, 30,2 E (Ouganda) h = 81 km H = 09:43:05 Mag: 4,0 (C.G.S.) △= 23,0º				
13	(Sn)	13:04:19,9	iCPZNE;iz		
14	P	13:21:21,4	iCPZ(0,018)NE; iz,iZ	0,8	d,NS,EW
	Lg	13:28:06,2	iCPZNE;eLPN; iz, eZ		
	U.S.C.G.S.: Epicentre: 0,7 N, 30,2 E (Ouganda) h = 21 km H = 13:16:21 Mag: 4,9 (C.G.S.) △= 22,8º				
14	Pn	14:44:39,4	iCPZNE;iz		
	Sn	14:45:07,5	iCPZNE;iz		
	△= 2,2º				
14	P	21:18:01,5	iCPZ(0,026)N;iz,iZ	1	c, SN
	U.S.C.G.S.: Epicentre: 38,9 N, 70,6 E (Afganistan - URSS) h = 33 km H = 21:06:17,4 Mag: 5,2 (C.G.S.) △= 75,8º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du
1966 Avr. 15	P	03:13:14,5	iCPZ(0,018)NE;iz	0,9	d,SN,WE
	Lg	03:19:48,0	iCPZNE;iLPN;iz		
	U.S.C.G.S.: Epicentre: 0,9 N, 29,9 E (République du Congo) h = 33 km H = 03:08:16,3 Mag: 5,3 (C.G.S.) △= 22,7º				
16	PKP	01:47:36,4	iCPZ(0,02)E;iz	1	d,EW
	PP	01:49:20	LPZN		
	SPP	02:01:24,0	LPZN		
	SS	02:07:26	LPNE		
	LR	02:32:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 57,0 N, 153,6 W (Iles Kodiak) h = 33 km H = 01:27:15,3 Mag: 5,7 (C.G.S.) △= 136,8º				
16	P	14:48:19,0	iCPZ(0,04)NE; eLPZ;iz,iZ	1	d,NS,WE
	S	14:52:26,0	eLPZNE		
	Lg	14:55:01,6	iCPZNE;eLPNE; iz, iZ		
	LR	14:56:22,0	LPZNE;Z	10	
	U.S.C.G.S.: Epicentre: 0,8 N, 29,9 E (République du Congo) h = 33 km H = 14:43:20,5 Mag: 5,3 (C.G.S.) △= 22,6º				
16	PKP	15:42:02,5	iCPZNE;iz		c
	U.S.C.G.S.: Epicentre: 21,1 S, 178,6 W (Iles Fidji) h = 511 km H = 15:23:29,3 Mag: 5,4 (C.G.S.) △= 142,0º				
16	(P)	18:12:24,6	iCPZNE;iz		
	(S)	18:15:00,0	iCPZNE;iLPZNE; iz, iZ		
17	-	00:06:20,5	iCPZNE		
	LR	00:11:00	LPZNE	34	
18	P	08:22:24,8	iCPZNE;iz		d,NS,EW
	LR	08:40:27	LPZNE	12	
	U.S.C.G.S.: Epicentre: 12,9 N, 48,3 E (Golfe de Aden) h = 57 km H = 08:14:18,8 Mag: 5,4 (C.G.S.) △= 44,3º				
19	-	10:03:15,6	iCPZNE;iz		c,NS,EW
19	PKP	10:07:26,0	iCPZ(0,006);iz	0,5	d
	U.S.C.G.S.: Epicentre: 19,7 S, 175,9 W (Iles Tonga) h = 149 km H = 09:48:08 △= 144,2º				
20	LR	03:41:00	LPZE	30	
20	P	16:52:42,2	iCPZ(0,043) NE;iz, iZ	1	c,NS,WE
	SS	17:01:00	LPZNE		
	LR	17:18:00	LPZNE;Z	26	
	U.S.C.G.S.: Epicentre: 41,7 N, 48,2 E (Est du Caucase) h = 19 km H = 16:42:03,7 Mag: 5,5 (C.G.S.) △= 65,0º				
20	-	19:36:41,5	iCPZNE;iz		d,NS,EW
21	P	04:10:41,0	iCPZ(0,019)NE; iz,iZ	1	d,SN,WE
	U.S.C.G.S.: Epicentre: 49,8 N, 78,0 E (Est de Kazakh - R.S.S.) h = 0 km H = 03:57:58,0 Mag: 5,5 (C.G.S.) △= 85,8º				
21	-	04:20:23,5	iCPZNE;iz,iZ		c,NS,EW
21	PKP	16:31:20,8	iCPZ(0,017)N;iz,iZ	0,6	c,SN
	SS	16:52:00	LPZ		
	LR	17:29:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 20,4 S, 178,0 W (Iles Fidji) h = 511 km H = 16:12:45,1 Mag: 4,5 (C.G.S.) △= 143,0º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Avr. 22	P	03:18:36,0	iCPZ(0,115)NE; iLPZNE;iz,iZ	1	c,SN,WE
	pP	03:18:43,0	iCPZNE;iz,iZ		d,NS,EW
	LR	03:43:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 37,8 S, 73,4 W (Côte Central du Chili) h = 18 km H = 03:06:32,8 Mag: 5,7 (C.G.S.) △ = 78,5º				
22	P	12:26:57,4	iCPZN;iz		c,SN
	U.S.C.G.S.: Epicentre: 60,5 S, 25,4 W (Sud des Iles Sandwich) h = 33 km H = 12:17:36,0 Mag: 5,7 (C.G.S.) △ = 53,6º				
22	PKP	17:13:47,2	iCPZ(0,017)N	0,5	c,SN
	U.S.C.G.S. : Epicentre: 18,0 S,178,4 W (Iles Fidji) h = 542 km H = 16:55:08 Mag: 4,2 (C.G.S.) △ = 145,0º				
22	P	21:13:30,5	iCPZE;iz		
	S	21:16:02,0	iCPZNE;iz,iZ		c,SN,WE
22	PKP	23:46:40,6	iCPZ(0,016); iz,iZ	0,6	d
	U.S.C.G.S.: Epicentre: 57,5 N, 152,1 W (Iles Kodiak) h = 22 km H = 23:27:20,5 Mag: 5,9 (C.G.S.) △ = 136,0º				
23	P dif.	00:23:54,8	eLPZ		
	PP	00:28:19,4	iCPZE;eLPZE; iz, eZ		d,EW
	(S)	00:36:00,0	LPZNE		
	LR	01:03:00	Z	30	
	F	03:30	LPZ		
	U.S.C.G.S.: Epicentre: 0,9 S, 122,4 E (Iles Célèbes) h = 45 km H = 00:09:34,4 Mag: 6,0 (C.G.S.) △ = 108,0º				
23	PP	09:15:31,2	iCPZ		d
	LR	09:49:00	LPZNE;Z	30	
	U.S.C.G.S. : Epicentre: 0,5 S, 122,2 E (Iles Célèbes) h = 79 km H = 08:56:46 Mag: 5,8 (C.G.S.) △ = 108,0º				
23	Pn	10:44:52,8	CPZN;z		
	Sn	10:45:17,8	CPZNE;z		
	△ = 1,9º				
24	PKP	03:47:13,7	iCPZ(0,05)NE; iz,iZ	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 12,8 S, 169,5 E (Iles Sainte Croix) h = 660 km H = 03:28:50,5 Mag: 4,6 (C.G.S.) △ = 143,8º				
24	-	10:42:45,8	iCPZNE;iz		d,NS,EW
25	P	04:44:35,5	iCPZ;iz		c
	U.S.C.G.S.: Epicentre: 42,3, 75,6 W (Côte Sud du Chili) h = 35 km H = 04:32:30 Mag: 4,9 (C.G.S.) △ = 79,4º				
25	P	09:27:36,6	iCPZ(0,02)E;iz,iZ	1	d,EW
	LR	09:34:00	LPZE	24	
	U.S.C.G.S.: Epicentre: 6,9 S, 11,7 W (Iles Ascension) h = 33 km H = 09:22:05 Mag: 4,5 (C.G.S.) △ = 26,0º				
25	PKP	11:00:27,0	iCPZNE;iz,iZ		c,SN,WE
	U.S.C.G.S.: Epicentre: 21,0 S, 178,7 W (Iles Fidji) h = 561 km H = 10:41:58,2 Mag: 5,3 (C.G.S.) △ = 142,2º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Avr. 25	P	23:34:39,7	iCPZ(0,0025)N; iz, iZ	1	c,SN
	U.S.C.G.S.: Epicentre: 41,2 N, 69,3 E (Kirgiz - RSS) h = 33 km H = 23:22:52,6 Mag: 5,0 (C.G.S.) Δ = 76,2º				
26	Pn	02:26:11,9	CPZ		
	Sn	02:26:39,5	CPZNE; z		
	Δ = 2,2º				
26	PKP	19:52:31,8	iCPZ(0,003)N; iz, iZ	0,8	d,NS
	U.S.C.G.S.: Epicentre: 20,0 S, 178,3 W (Iles Fidji) h = 551 km H = 19:34:00 Mag: 4,6 (C.G.S.) Δ = 142,1º				
27	P	19:58:53,5	iCPZN;iz,iZ		c, NS
	LR	20:17:00	LPZNE	40	
	U.S.C.G.S.: Epicentre: 38,2 N, 42,7 E (Turquie) h = 25 km H = 19:48:49,8 Mag: 4,9 (C.G.S.) Δ = 59,8º				
28	PKP	17:15:58,0	iCPZN;iz, iZ		d, NS
	LR	18:09:00	LPZNE	22	
	U.S.C.G.S.: Epicentre: 19,1 S, 173,6 W (Iles Tonga) h = 27 km H = 16:56:20 Mag: 5,2 (C.G.S.) Δ = 145,3°				
28	PKP	17:33:09,8	iCPZ(5,6)NE;iz,iZ	1,6	d,NS,EW
	U.S.C.G.S.: 19,3 S, 173,5 W (Iles Tonga) h = 33 km H = 17:13:31,6 Mag: 5,2 (C.G.S.) Δ = 145,1º				
28	Pn	07:27:19,0	z, Z		
	Sn	07:28:15,8	z, Z		
	Δ = 4,6º				
30	P	13:53:06,8	iCPZ;iz, iZ		d
	U.S.C.G.S.: Epicentre: 41,0 N, 72,1 E (Kirgiz - R.S.S.) h = 19 km H = 13:41:09,1 Mag: 5,1 (C.G.S.) Δ = 77,6º				
30	P	20:43:46,6	iCPZNE;iz		d,NS,EW
	U.S.C.G.S.: Epicentre: 0,7 N, 29,8 E (République du Congo) h = 33 km H = 20:38:47 Mag: 5,0 (C.G.S.) Δ = 22,4º				
30	-	20:50:23,4	iCPZNE; iz		d,NS,WE

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S E R V I Ç O M E T E O R O L Ó G I C O D E A N G O L A

Centro de Geofísica de Luanda

C.P. 1228 C L u a n d a

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 5 MAI 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	To (s)	Tg (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date			Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966	Mai	1	P	16:35:16,9	iCPZ(0,026)NE; eLPZE;iz, iZ	0,5	d,NS,EW
			pP	16:35:58,0	iCPZNE;eLPZE; iz,iZ		d,NS,EW
			PP	16:38:38,0	eLPZE		
			LR	17:02:00	LPZNE;Z	30	
			F	18:15:00	LPZ		

U.S.C.G.S.: Epicentre: 8,5 S, 74,3 W (Pérou - Brésil)
h = 165 km H = 16:22:56,3 Mag: 5,7 (C.G.S.)
Δ = 85,6º

		2	PKP	10:11:59,5	iCPZ(0,011);iz	0,8	d
			SKP	10:15:25,5	iCPZ;iz		
			LR	10:57:00	LPZNE;Z	34	

U.S.C.G.S.: Epicentre: 6,0 S, 149,7 E (Nouvelle Bretagne)
h = 52 km H = 09:52:48,5 Mag: 5,2 (C.G.S.)
Δ = 131,8º

International Seismological Centre From the ISC collection scanned by SISMOS

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Mai 2	PKP	11:12:07,6	iCPZ(0,025)N;iz	1	d,NS
	U.S.C.G.S.: Epicentre: 18,0 S, 178,3 W (Iles Fidji) h = 537 km H = 10:53:28 Mag: 4,9 (C.G.S.) △ = 145,1º				
2	-	12:25:15,9	iCPZ		c
2	LR	23:44:00	LPZNE	22	
4	LR	17:42:00	LPZN	30	
4	PKP	20:38:38,8	iCPZ;iz		c
	U.S.C.G.S.: Epicentre: 16,0 S, 173,9 W (Iles Tonga) h = 107 km H = 20:19:03 Mag: 5,0 (C.G.S.) △ = 148,3º				
4	P	21:58:24,3	iCPZ;iz		
	LR	22:18:00	LPZNE	30	
	F	22:40:00	LPZ		
	U.S.C.G.S.: Epicentre: 37,7 N, 27,9 E (Turquie) h = 14 km H = 21:48:58 Mag: 4,7 (C.G.S.) △ = 54,4º				
5	P*	12:05:10,3	iCPZNE;iz		
	S*	12:05:26,9	iCPZNE;iz		
	△ = 1,2º				
5	LR	15:13:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 24,4 N, 122,6 E (Taiwan) h = 60 km H = 14:21:22,7 Mag: 5,7 (C.G.S.) △ = 113,2º				
5	-	23:06:30,4	iCPZNE;iz		
6	P	02:41:33,0	iCPZNE;eLPZE; iz, iZ		c,NS,EW
	S	02:45:20	eLPZNE;eZ		
	-	02:46:57,0	eLPN		
	(Lg)	02:48:41,6	eLPZE;iZ		
	F	04:00:00	LPZ		
	U.S.C.G.S.: Epicentre: 15,7 S, 34,4 E (Malawi) h = 33 km H = 02:36:56,8 Mag: 5,5 (C.G.S.) △ = 20,2º				
6	P	17:31:43,8	iCPZNE;iz		d,NS,WE
	U.S.C.G.S.: Epicentre: 26,1 S, 28,0 E (Union Sud Africaine) h = 15 km H = 17:27:37,4 Mag: 4,5 (C.G.S.) △ = 17,6º				
6	PKP	20:13:18,5	iCPZE;iz, iZ		c, WE
	U.S.C.G.S.: Epicentre: 19,4 S, 173,7 W (Iles Tonga) h = 112 km H = 19:53:47,0 Mag: 4,9 (C.G.S.) △ = 147,2º				
7	PKP	09:24:15,2	iCPZ		c
	U.S.C.G.S.: Epicentre: 50,9 N, 179,5 E (Iles Aléoutiennes) h = 70 km H = 09:04:54 Mag: 4,5 (C.G.S.) △ = 142,3º				
7	LR	10:43:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 0,7 S, 122,2 E (Iles Célèbes) h = 43 km H = 09:48:03,0 Mag: 5,6 (C.G.S.) △ = 108,1º				
7	P	13:17:43,2	iCPZN;iz,iZ		c,NS
	LR	13:36:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 37,8 N, 27,9 E (Turquie) h = 12 km H = 13:08:16,0 Mag: 5,2 (C.G.S.) △ = 54,4º				
8	Pn	20:15:29,4	iCPZNE;iz		
	Sn	20:15:55,1	iCPZNE;iz		
	△ = 2,0º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mai 9	P	00:51:53,3	iCPZ(0,029) NE; eLPZN;iz, iZ	0,9	
	S	00:59:00	eLPZNE		
	LR	01:07:00	LPZNE	46	
	LR	01:14:00	LPZNE;Z	20	
	U.S.C.G.S.: Epicentre: 34,5 N, 26,5 E (Crète) h = 33 km H = 00:42:55,6 Mag: 5,5 (C.G.S.) △ = 50,9º				
9	Pn	15:27:44,2	iCPZNE;iz		
	Sn	15:28:30,5	iCPZNE;iz		
9	LR	21:46:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 42,1 S, 87,6 E (Océan Indien) h = 33 km H = 21:13:30 Mag: 4,6 (C.G.S.) △ = 68,0º				
10	P	07:52:10,4	iCPZNE;iz		d,SN,WE
	U.S.C.G.S.: Epicentre: 24,8 S, 13,5 W (Atlantique Sud) h = 33 km H = 07:46:27,7 Mag: 5,2 (C.G.S.) △ = 27,2º				
11	Pn	08:08:37,2	iCPZNE;iz		
	Sn	08:09:05,0	iCPZNE;iz		
	△ = 2,2º				
11	Sn	09:22:58,6	iCPZNE;iz		
11	PKP	14:36:54,5	iCPZ(0,02);iz	1	
	PP	14:39:30,0	eLPZ		
	LR	15:26:00	LPZNE	30	
	F	17:10:00	LPZ		
	U.S.C.G.S.: Epicentre: 48,9 N, 156,2 E (Iles Kouriles) h = 17 km H = 14:17:34,1 Mag: 5,8 (C.G.S) △ = 134,4º				
11	LR	22:48:00	LPZNE	34	
12	-	00:52:36,1	iCPZNE;iz		
12	LR	12:37:00	LPZN	40	
13	LR	13:44:00	Z	14	
14	P	20:39:38,9	iCPZ(0,045)E; iz,IZ	1	d,WE
	U.S.C.G.S.: Epicentre: 10,5 N, 63,0 W (Côte de Venezuela) h = 16 km H = 20:27:27,4 Mag: 5,5 (C.G.S.) △ = 79,9º				
15	PKP	15:05:33,6	iCPZ(0,015)NE; eLPZ;iz, IZ	0,5	d,SN,EW
	PP	15:08:43,6	iCPZ;eLPZN;iz, iZ		c
	LR	15:55:00	LPZNE;Z	40	
	F	17:00:00	LPZ		
	U.S.C.G.S.: Epicentre: 51,5 N, 178,4 W (Iles Aléoutiennes) h = 31 km H = 14:46:06,5 Mag: 5,8 (C.G.S.) △ = 142,2º				
16	P	05:49:19,0	iCPZ(0,025)NE;iz,IZ	1	d,SN,WE
	Lg	05:55:55,7	iCPZNE;eLPZNE;iz,IZ		
	U.S.C.G.S.: Epicentre: 0,6 N, 30,2 E (Ouganda) h = 36 km H = 05:44:19,6 △ = 22,7º				
16	-	18:00:00	LPZNE;Z		

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Mai 27	LR	01:07:00	LPZNE	20	
U.S.C.G.S.: Epicentre: 24,4 N, 122,5 E (Taiwau) h = 33 km H = 00:03:56,8 Mag: 5,7 (C.G.S.) △ = 113,2º					
28	Pn	07:23:55,6	iz		
	Sn	07:24:24,4	iz		
△ = 2,2º					
29	P	02:31:12,9	iCPZNE;iz		
	(Lg)	02:37:53,0	iCPZNE;iz		
U.S.C.G.S.: Epicentre: 0,6 N, 29,8 E (République du Congo) h = 33 km H = 02:26:13 Mag: 4,7 (C.G.S.) △ = 22,4º					
29	PKP	14:03:04,0	iCPZ(0,012)NE;iz	0,5	d,NS,EW
U.S.C.G.S.: Epicentre: 21,6 S, 178,7 W (Iles Fidji) h = 516 km H = 13:44:32,9 Mag: 5,2 (C.G.S.) △ = 141,6º					
30	-	06:45:46,9	iCPZNE		

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S E R V I Ç O M E T E O R O L Ó G I C O D E A N G O L A

Centro de Geofísica de Luanda

C.P. 1228 C L u a n d a

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 6 JUIN 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	To (s)	Tg (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	
Benioff vertical (Z)	1,0	21,3	400	1100	1615	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date		Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Juin	1	PKP	10:34:04,3	ICPZ;iz		d

U.S.C.G.S.: Epicentre: 13,8 S, 166,6 E (Iles Nouvelles Hébrides)
h = 48 km H = 10:14:43,2 Mag: 5,5 (C.G.S.)
Δ = 140,8º

	1	PKP	12:07:01,4	ICPZN;iz,iZ		c,SN
		LR	12:59:00	LPZNE	27	

U.S.C.G.S.: Epicentre: 23,4 S, 174,9 W (Iles Tonga)
h = 24 km H = 11:47:33,1 Mag: 5,9 (C.G.S.)
Δ = 140,8º

	1	PKP	12:53:49,5	ICPZ;iz		c
		PKS	12:57:25,6	ICPZ;iz,iZ		c

U.S.C.G.S.: Epicentre: 15,2 S, 167,2 E (Iles Nouvelles Hébrides)
h = 93 km H = 12:34:33,5 Mag: 5,6 (C.G.S.)
Δ = 140,2º

International Seismological Centre From the ISC collection scanned by SISMOS

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juin 2	PKP	03:47:15,4	iCPZ;iz,iZ		c
	LR	04:55:00	LPZ	24	
	U.S.C.G.S.: Epicentre: 51,1 N, 176,0 E (Iles Aléoutiennes) h = 41 km H = 03:27:53,3 Mag: 6,0 (C.G.S.) △ = 141,2º				
2	-	17:12:54,4	iCPZ		c
	PKP	17:13:31,6	iCPZ;iz		d
	LR	18:09:00	LPZN	22	
	U.S.C.G.S.: Epicentre: 18,6 S, 173,4 W (Iles Tonga) h = 33 km H = 16:53:56,6 Mag: 5,0 (C.G.S.) △ = 145,8º				
3	-	10:53:36,5	iCPZNE;iz,iZ		d,NS,WE
	-	10:54:05,0	iCPZNE		d,SN,WE
3	PKP	14:07:51,6	iz, iZ		
	U.S.C.G.S.: Epicentre: 17,9 S, 178,8 W (Iles Fidji) h = 643 km H = 13:49:13,8 Mag: 5,3 (C.G.S.) △ = 145,0º				
3	Pn	22:17:03,0	iz		
	Sn	22:17:26,8	iz,iZ		
	△ = 1,8º				
4	P	05:23:18,6	iz,iZ		
	U.S.C.G.S.: Epicentre: 36,3 N, 70,8 E (Hindu Kush) h = 207 km H = 05:11:54,2 Mag: 5,7 (C.G.S.) △ = 74,4º				
4	PKP	08:53:45,0	iz,iZ		
	U.S.C.G.S.: Epicentre: 14,8 S, 171,2 E (Iles Nouvelles Hébrides) h = 660 km H = 08:35:15,4 Mag: 4,6 (C.G.S.) △ = 143,0º				
5	PKP	00:07:43,2	iz, iZ		
	pPKP	00:07:57,8	iz, iZ		
	U.S.C.G.S.: Epicentre: 46,5 N, 152,5 E (Iles Kouriles) h = 27 km H = 23:48:17,8 Mag: 5,9 (C.G.S.) △ = 133,6º				
6	P	07:57:46,8	iz, iZ		
	pP	07:58:40,4	iz, iZ		
	SS	08:07:00	Z		
	LR	08:33:00	Z	18	
	U.S.C.G.S.: Epicentre: 36,3 N, 71,2 E (Afghanistan - URSS) h = 225 km H = 07:46:16,2 Mag: 6,3 (C.G.S.) △ = 74,7º				
6	P	10:08:28,0	iz,iZ		
	U.S.C.G.S.: Epicentre: 30,6 S, 69,3 W (Chili - Argentine) h = 109 km H = 09:56:33,4 Mag: 4,8 (C.G.S.) △ = 76,4º				
7	P	01:12:37,0	iz,iZ		
	pP	01:12:46,6	iz,eZ		
	LR	01:41:00	Z	26	
	U.S.C.G.S.: Epicentre: 15,0 S, 75,8 W (Côte du Pérou) h = 48 km H = 00:59:46,6 Mag: 5,5 (C.G.S.) △ = 85,5º				
7	PKP	14:18:35,0	iCPZ;iz,iZ		d
	pPKP	14:18:44,5	iCPZN;iLPZ; iz,iZ		c,NS
	PP	14:20:41,5	iCPZNE;iLPZ;		c,SN
	SS	14:30:33,4	iCPZE;eLPZNE; iz,iZ		
	LR	14:59:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 11,3 N, 139,6 E (Iles Carolines) h = 50 km H = 13:59:36,0 Mag: 6,5 (C.G.S.) △ = 127,5º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juin 7	P	15:27:18,4	iCPZ;iz		c
	U.S.C.G.S.: Epicentre: 15,1 S 75,8 W (Côte du Pérou) h = 51 km H = 15:14:42,1 Mag: 4,8 (C.G.S.) △ = 85,5º				
7	PKP	19:24:09,5	iCPZNE;iz,iZ		d,SN,WE
	U.S.C.G.S.: Epicentre: 21,4 S, 179,3 W (Iles Fidji) h = 606 km H = 19:05:47,4 Mag: 5,2 (C.G.S.) △ = 141,6º				
8	PKP	05:51:16,2	iCPZNE;iz,iZ		d,SN,WE
	U.S.C.G.S.: Epicentre: 18,0 S, 178,1 W (Iles Fidji) h = 562 km H = 05:32:38,5 Mag: 4,1 (C.G.S.) △ = 145,2º				
8	P	15:09:30,5	iCPZNE;iz		c,SN,WE
	U.S.C.G.S.: Epicentre: 15,2 S, 75,8 W (Côte du Pérou) h = 39 km H = 14:56:54 Mag: 4,4 (C.G.S.) △ = 85,4º				
8	P	15:13:21,5	iCPZNE;iz		d,NS,WE
	LR	15:43:00	LPZE	24	
	U.S.C.G.S.: Epicentre: 23,0 S, 66,3 W (Province de Jujuy - Argentine) h = 233 km H = 15:02:02,6 Mag: 4,6 (C.G.S.) △ = 75,0º				
8	-	20:15:35,4	iCPZ		c
	PKP	20:15:42,0	iCPZNE		d,NS,EW
	LR	21:13:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 53,1 N, 171,1 E (Iles Aléoutiennes) h = 20 km H = 19:56:21,3 Mag: 5,4 (C.G.S.) △ = 137,9º				
9	P	00:24:32,4	iCPZ;iz.iZ		c
	pP	00:24:42,4	iCPZE;iz,iZ		d,WE
	LR	00:48:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 7,6 N, 94,1 E (Iles Nicobar) h = 55 km H = 00:12:12,1 Mag: 5,3 (C.G.S.) △ = 83,0º				
9	-	03:11:49,0	iCPZNE;iz		c,SN,WE
9	-	04:29:08,8	iCPZE		c,EW
	-	04:33:15,3	iCPZNE;iz		d,NS,WE
9	PKP	15:58:30,5	iCPZE;iz,iZ		d,WE
	U.S.C.G.S.: Epicentre: 44,3 N, 147,6 E (Iles Kouriles) h = 110 km H = 15:39:27,8 Mag: 5,5 (C.G.S.) △ = 131,4º				
9	P	22:34:26,9	iCPZE;iz,iZ		d,WE
	U.S.C.G.S.: Epicentre: 27,6 N, 52,5 E (Iran) h = 8 km H = 22:24:39,0 Mag: 4,9 (C.G.S.) △ = 56,9º				
10	LR	09:00:00	LPZE	20	
10	-	09:20:05,2	iCPZNE;iz		c,SN,WE
13	LR	08:29:00	LPNE	40	
	LR	08:39:00	LPZNE	34	
	LR	08:45:00	Z	20	
	U.S.C.G.S.: Epicentre: 21,2 S 174,1 E (Iles Nouvelles Hébrides) h = 49 km H = 07:33:13,4 Mag: 5,9 (C.G.S.) △ = 139,2º				
13	PKP	18:27:39,2	iCPZ(0,105)NE; iLPZ;iz, iZ	1	d,NS,WE
	pPKP	18:28:55,0	iZ		
	PP	18:30:59,0	iCPZNE;iLPZ;iz,iZ		d,NS,EW
	LR	19:05:00	LPZNE	30	
	F	20:24:00	LPZ		
	U.S.C.G.S.: Epicentre: 12,2 S, 167,1 E (Iles Sainte Croix) h = 259 km H = 18:08:38,4 Mag: 6,2 (C.G.S.) △ = 142,4º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juin 14	Pn	09:37:28,0	cPZNE;z		
	Sn	09:38:01,2	cPZNE;z,Z		
	(Lg)	09:38:30,6	cPZNE;z,Z		
			△ = 2,6º		
14	-	15:42:33,5	iCPZNE;iz		c,NS, EW
	-	15:47:20,2	iCPZNE;iz		c,NS, EW
14	P	23:55:42,0	iCPZE;iz		c,EW
	pP	23:55:52,3	iCPZNE;iz		d,SN,WE
	-	00:00:43,9	iCPZNE		d,SN,EW
	-	00:02:44,5	iCPZNE;iz,iZ		d,NS,WE
	U.S.C.G.S.: Epicentre: 1,1 N, 30,0 E (République du Congo) h = 32 km H = 23:50:41 Mag: 4,6 (C.G.S.) △ = 22,8º				
15	PKP	01:19:06,0	iCPZ(0,02)NE; eLPZNE;eLPZNE; iz,iZ	1	d,NS,EW
	pPKP	01:19:20,6	iCPZNE;iz,iZ		c,SN,EW
	PP	01:22:08,4	iCPZNE;iz,iZ		d,NS,WE
	LR	02:03:00	LPZNE;z, Z	15	
	F	06:45:00	LPZ		
	U.S.C.G.S.: Epicentre: 10,4 S, 160,8 E (Iles Salomon) h = 31 km H = 00:59:45,8 Mag: 6,1 (C.G.S.). △ = 138,9				
15	PKP	01:52:14,5	iCPZ(0,02)NE; iz	1	d,SN,WE
	U.S.C.G.S.: Epicentre: 10,2 S, 161,1 E (Iles Salomon) h = 33 km H = 01:32:55,5 Mag: 6,2 (C.G.S.) △ = 138,0º				
15	LR	07:23:00	LPZNE;Z	22	
	U.S.C.G.S.: Epicentre: 10,1 S, 161,0 E (Iles Salomon) h = 39 km H = 06:13:52,3 Mag: 5,9 (C.G.S.) △ = 138,5º				
15	PKP	16:55:45,0	iCPZ(0,033)NE	0,5	d,NS,EW
	LR	17:46:00	LPZNE;Z	28	
	U.S.C.G.S.: Epicentre: 10,3 S, 160,7 E (Iles Salomon) h = 18 km H = 16:36:24,1 Mag: 5,8 (C.G.S.) △ = 138,9º				
15	PKP	23:03:00,7	iCPZ;iz, iZ		d
	LR	23:53:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 11,2 S, 167,0 E (Iles Sainte Croix) h = 107 km H = 22:43:38,2 Mag: 4,9 (C.G.S.) △ = 143,0º				
16	LR	01:14:00	CPZ	26	
16	LR	15:43:00	CPZNE	30	
16	P	16:58:47,4	iCPZN;iz		c,SN
	U.S.C.G.S.: Epicentre: 29,3 S, 71,1 W (Côte Central du Chili) h = 51 km H = 16:46:49 Mag: 4,5 (C.G.S.) △ = 78,2º				
16	LR	18:27:00	CPZNE	40	
16	P	20:43:58,4	iCPZ(0,047)NE; NE,iz, iZ	1	c,NS,WE
	U.S.C.G.S.: Epicentre: 22,1 S, 67,2 W (Chili - Bolivie) h = 190 km H = 20:32:24,1 Mag: 5,5 (C.G.S.) △ = 76,3º				
16	P	22:39:38,2	iCPZ(0,01)N; iz,iZ	1	d,WE
	LR	22:56:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 26,2 S, 70,8 E (Océan Indien) h = 33 km H = 22:30:04,2 Mag: 5,1 (C.G.S.) △ = 55,5º				

International Seismological Centre From the ISC collection scanned by SISMOS

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du
1966 Juin 17	P	18:36:52,6	iCPZ(0,038)NE; iz,iZ	1	c,NS,EW
	pP	18:37:01,5	iCPZNE;iz,iZ		c,NS,WE
	PP	18:37:24,0	iCPZNE;iz,iZ		c,NS,EW
	Lg	18:43:25,0	iCPZNE;iLPZNE; iz,iZ		c,SN,EW
U.S.C.G.S.: Epicentre: 0,8 N, 30,0 E (République du Congo) h = 33 km H = 18:31:55,1 △ = 22,6º					
18	P	05:25:49,3	iCPZNE;iz		c,SN,WE
	PP	05:26:09,4	iCPZNE;iz,iZ		c,SN, EW
	S	05:29:28,3	iCPZNE;iz,iZ		d,SN,WE
	Lg	05:31:50,0	iCPZNE;iz,iZ		c,NS,EW
	LR	05:33:00	LPZNE	16	
U.S.C.G.S.: Epicentre: 29,5 S, 29,5 E (République de l'Afrique du Sud) h = 33 km H = 05:21:07,5 △ = 20,8º					
18	LR	20:24:00	LPZNE;Z	20	
U.S.C.G.S.: Epicentre: 3,3 S, 143,2 E (Nouvelle Guinée) h = 17 km H = 19:15:24,4 Mag: 5,2 (C.G.S.) △ = 127,0º					
18	-	22:29:01,5	iCPZNE		c,SN,EW
19	P	00:59:50,0	iCPZNE;iz,iZ		c,NS,EW
	-	01:06:14,6	iCPNE		NS,EW
	-	01:06:23,8	iCPZNE;iz,iZ		c,SN,EW
U.S.C.G.S.: Epicentre: 0,8 N, 29,8 E (République du Congo) h = 33 km H = 00:54:52 Mag: 5,0 (C.G.S.) △ = 22,6º					
19	Pn	17:55:59,0	cPZNE;z		
	Sn	17:56:23,2	cPZNE;z		
△ = 1,8º					
19	PKP	19:48:08,0	iCPZ(0,015)NE; iz,iZ	1	c,NS,WE
U.S.C.G.S.: Epicentre: 51,7 N, 176,2 W (Iles Andreanuf) = 57 km H = 19:28:43,1 Mag: 5,2 (C.G.S.) △ = 142,4º					
20	Pn	04:44:08,5	cPZNE;z		
	Sn	04:45:33,3	cPZNE;z,Z		
△ = 7,4º					
20	-	09:26:49,2	iCPZ		d
20	-	19:28:31,3	iCPZ;iz		d
21	PKP	01:02:41,5	iCPZ;iZ		
	-	01:43:00	LPNE	40	
	LR	01:51:00	LPZNE	24	
	-	02:00:00	Z	20	
U.S.C.G.S.: Epicentre: 10,9 S, 165,3 E (Iles Sainte Croix) h = 25 km H = 00:43:13,5 Mag: 5,3 (C.G.S.) △ = 142,0º					
21	P	13:08:11,4	iCPZNE;iz,iZ		d,NS,EW
	LR	13:23:00	LPZNE	26	
U.S.C.G.S.: Epicentre: 57,9 S, 25,7 W (Iles Sandwich) h = 16 km H = 12:59:00,1 Mag: 5,4 (C.G.S.) △ = 52,4º					
21	P	23:46:29,0	iCPZN;iz		c,SN
U.S.C.G.S.: Epicentre: 56,0 S, 27,8 W (Iles Sandwich) h = 112 km H = 23:37:31,3 Mag: 5,1 (C.G.S.) △ = 51,8º					
22	Pdif	20:42:35,5	iCPZNE;iz		c,SN,EW
	pP	20:44:35,4	iCPZ;iz,iZ		d
	PP	20:47:04,0	iCPZNE;iLPZE;iz,iZ		c,NS,EW
	SP	20:55:45,2	iCPZNE;iLPZNE		d,NS,EW
	LR	21:23:00	LPZNE;Z	20	
	F	23:12:00	LPZ		
U.S.C.G.S.: Epicentre: 7,2 S, 124,6 E (Mer de Banda) h = 507 km H = 20:29:03,6 Mag: 6,1 (C.G.S.) △ = 108,3º					

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juin 23	P*	07:57:01,6	iCPZNE;iz		d,NS,EW
	S*	07:57:17,6	iCPZNE;iz,iZ		
		Δ = 1,2°			
23	P	09:38:58,7	iCPZE;iz,iZ		d,WE
	S	09:40:21,5	iCPZNE;iz,iZ		d,NS,EW
	Lg	09:41:12,2	iCPZNE;iz,iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 14,4 S 21,8 E (Angola)				
	h = 33 km H = 09:37:03 Mag: 5,3 (C.G.S.)				
	Δ = 8,1°				
27	-	06:19:22,7	iCPZNE;iz		c,SN,WE
27	P	10:53:09,0	iCPZ(0,025)NE; iLPZNE;iz,iZ	1	d,NS,WE
	pP	10:53:20,0	iCPZNE;iz,iZ		c,NS,EW
	SS	11:08:00	eLPZNE		
	LR	11:22:00	LPZNE;Z	24	
	U.S.C.G.S.: Epicentre: 29,7 N, 80,9 E (Nepal - Inde)				
	h = 37 km H = 10:41:08,6 Mag: 6,1 (C.G.S.)				
	Δ = 78,8°				
27	P	11:01:50,6	iCPZ(0,03)NE; iz,iZ	1	d,NS,WE
	U.S.C.G.S.: Epicentre: 29,8 N, 80,7 E (Napal - Inde)				
	h = 33 km H = 10:49:50,0 Mag: 5,8 (C.G.S.)				
	Δ = 78,8°				
27	P	11:11:18,8	iCPZ(0,036)NE; iz,iZ	1	c,NS,EW
	U.S.C.G.S.: Epicentre: 29,7 N, 81,0 E (Nepal - Inde)				
	h = 40 km H = 10:59:18,1 Mag: 6,0 (C.G.S.)				
	Δ = 78,8°				
27	P	11:33:44,0	iCPZ(0,015)NE; iz	1	d,SN,WE
	U.S.C.G.S.: Epicentre: 29,7 N, 80,8 E (Napal - Inde)				
	h = 33 km H = 11:21:43: Mag: 5,4 (C.G.S.)				
	Δ = 78,8°				
27	P	14:07:53,0	iCPZ(0,02)E;iz,iZ	1	d,WE
	U.S.C.G.S.: Epicentre: 29,6 N, 80,8 E (Napal - Inde)				
	h = 35 km H = 13:55:51,9 Mag: 5,4 (C.G.S.)				
	Δ = 78,8°				
27	PKP	22:05:58,8	iCPZ(0,055)NE;i,iZ	1	d,NS, EW
	-	22:06:26,4	iCPZNE;iz,iZ		c,SN,WE
	U.S.C.G.S.: Epicentre: 38,0 S, 177,2 E (Nouvelles Zélande)				
	h = 54 km H = 21:47:05,5 Mag: 5,7 (C.G.S.)				
	Δ = 125,0°				
28	LQ	05:23:00	LPZNE	50	
	LR	05:30:00	LPZNE;Z	40	
	U.S.C.G.S.: Epicentre: 35,9 N, 120,5 W (Californie)				
	h = 4 km H = 04:26:12,4 Mag: 5,3 (C.G.S.)				
	Δ = 134,0°				
29	LQ	23:24:00	LPZNE	30	
	LR	23:27:00	LPZNE	22	
30	LR	13:27:00	LPZE	22	
	U.S.C.G.S.: Epicentre: 9,6 N, 126,7 E (Mindanao)				
	h = 44 km H = 12:27:41,9 Mag: 5,4 (C.G.S.)				
	Δ = 114,8°				

International Seismological Centre From the ISC collection scanned by SISMOS

4 MAR 1968

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda

C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 7 JUILLET 1966

Station séismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	T_o (s)	T_g (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Juil. 1	-	06:09:03,5	iCPZ;iz,iZ		c
	-	06:19:26,0	eLPZ		d
	LQ	06:37:00	LPZNE	50	
	LR	06:49:00	LPZNE	24	
2	P	11:26:30,0	iCPZ(0,13)NE iz, iZ	1	d,NS,EW
	pP	11:26:38,8	iCPZNE;iz, iZ		d,NS,EW
	S	11:30:37,0	iCPZNE		c,SN,EW
	Lg	11:33:20,5	iCPZNE;iz,iZ		d,NS,EW
	LR	11:34:00	LPZNE	10	
	U.S.C.G.S.: Epicentre: 0,9 N 30,1 E (Ouganda) h = 33 km H = 11:21:30,4 Mag: 4,8 (C.G.S.) Δ = 22,8º				
3	-	04:29:02,0	iCPZ;iz		d
4	-	03:14:57,8	iCPZ		c
	-	03:15:07,0	iCPZN		d,SN

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juil. 4	P	12:25:56,5	iCPZ(0,06)NE	1	c,NS,WE
	LR	12:46:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 37,5 N 24,8 W (Iles Agores) h = 33 km H = 12:15:28,1 Mag: 5,5 (C.G.S.) Δ = 63,6º				
4	PKP	18:53:09,5	iCPZ;LPZ;iz,iZ		d
	SS	19:14:00	eLPZNE;eZ		
	LR	19:51:00	LPZNE;Z	30	
	F	23:17:00	LPZ		
	U.S.C.G.S.: Epicentre: 51,7 N, 179,9 E (Iles Aléoutiennes) h = 13 km H = 18:33:35,7 Mag: 6,2 (C.G.S.) Δ = 141,6º				
5	PKP	03:42:06,5	iCPZ(0,38)N iz,iZ	1	c,SN
	U.S.C.G.S.: Epicentre: 15,2 S 174,9 W (Iles Tonga) h = 252 km H = 03:22:45,2 Mag: 5,1 (C.G.S.) Δ = 148,8º				
5	LR	03:42:00	LPZNE	20	
5	PKP	04:07:26,5	iCPZ;iz,iZ		c
	U.S.C.G.S.: Epicentre: 17,9 S 178,7 W (Iles Fidji) h = 550 km H = 03:48:47,6 Mag: 4,1 (C.G.S.) Δ = 145,0º				
6	P	00:18:29,6	iCPZE;iz,iZ		d,WE
	LR	00:49:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 15,3 S 75,5 W (Côte du Perou) h = 7 km H = 00:05:51,0 Mag: 5,1 (C.G.S.) Δ = 85,2º				
6	-	03:03:44,5	iCPZNE;iz		d,SN,WE
	-	03:08:25,5	iCPZNE;iz		c,NS,EW
6	LR	20:22:00	LPZE	26	
	U.S.C.G.S.: Epicentre: 4,4 S 104,9 W (Iles Cordillera) h = 33 km H = 19:23:28 Mag: 4,8 (C.G.S.) Δ = 116,0º				
7	PKP	23:41:46,8	iCPZ(0,04)NE iz,iZ	1	d,SN,WE
	U.S.C.G.S.: Epicentre: 17,8 S, 173,6 W (Iles Tonga) h = 26 km H = 23:22:07,3 Mag: 5,3 (C.G.S.) Δ = 146,6º				
8	PKP	22:32:04,5	iCPZN;iz,iZ		d,NS
	U.S.C.G.S.: Epicentre: 19,0 S 174,5 W (Iles Tonga) h = 5 km H = 22:12:23,2 Mag: 5,3 (C.G.S.) Δ = 145,2º				
8	-	23:28:33,4	iCPN		d
	-	23:28:40,5	iCPZ		SN
9	-	00:22:27,0	iCPZNE	c,SN,WE	
10	-	10:22:20,6	iCPZN		
	-	10:23:20,6	iCPZ;iz		
10	LR	11:05:00	LPZN	30	
	U.S.C.G.S.: Epicentre: 30,5 S 177,8 W (Iles Kermadec) h = 40 km H = 10:00:39,1 Mag: 5,8 (C.G.S.) Δ = 141,8º				
10	LR	17:08:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 24,2 N 125,2 E (Iles Rioukiou) h = 28 km H = 16:12:41,5 Mag: 5,9 (C.G.S.) Δ = 115,6º				
11	PKP	23:05:33,2	iCPZ(0,01)NE	1	c,SN,EW
	LR	23:57:00	LPZNE	24	
	U.S.C.G.S.: Epicentre: 19,2 S 173,6 W (Iles Tonga) h = 120 km H = 22:46:05,7 Mag: 5,6 (C.G.S.) Δ = 145,2º				

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Date	Phases	Heure T.M.G	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juil. 12	LR	16:56:00	LPN	20	
12	P	19:03:35,0	iCPZ(0,047)NE eLPZ;iz,iZ	1,5	c,NS,WE
	LR	19:24:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 44,6 N 37,4 E (Caucase) h = 26 km H = 18:53:08,5 Mag: 5,9 (C.G.S.) △ = 63,4º				
14	-	05:46:38,5	iCPZNE;iz,iZ		c,NS,EW
14	P	20:07:31,5	iCPZ(0,043)NE iz,iZ	1	c,SN,EW
	LR	20:18:00	LPZN	30	
	U.S.C.G.S.: Epicentre: 52,9 S 27,5 E (Sud d'Afrique) h = 33 km H = 20:00:02,5 Mag: 5,4 (C.G.S.) △ = 39,6º				
15	P_n	17:06:09,5	iCPZNE;iz		
	S_n	17:07:15,5	iCPZNE;iz,iZ		
	△ ≃ 5,6º				
17	(P)	02:29:35,0	iCPZNE;iz		c,SN,WE
	(S)	02:33:06,6	iCPZNE;iz,iZ		d,NS,EW
17	PKP	16:23:49,2	iCPZ(0,02)NE;iz	0,5	
	U.S.C.G.S.: Epicentre: 19,6 S 175,7 W (Iles Tonga) h = 220 km H = 16:04:37,1 Mag: 4,9 (C.G.S.) △ = 144,4º				
18	LR	10:24:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 13,1 N 57,6 E (Mer de l'Arabie) h = 33 km H = 09:59:10,0 Mag: 5,1 (C.G.S.) △ = 51,9º				
18	LR	23:00:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 38,3 S 93,7 W (Ouest du Chili) h = 33 km H = 22:15:38 Mag: 5,1 (C.G.S.) △ = 93,7º				
19	LQ	02:47:00	LPZNE	50	
	LR	02:57:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 56,2 N 164,9 E (Région des Iles Komandorsky) h = 18 km H = 01:40:53,9 Mag: 5,4 (C.G.S.) △ = 132,6º				
19	P_n	14:00:56,2	iCPZNE;iz		
	S_n	14:01:20,2	iCPZNE;iz		
	△ ≃ 1,8º				
19	P_g	15:42:30,0	cPZNE;z		
	S_g	15:42:40,1	cPZNE;z		
	△ ≃ 0,8º				
19	P_n	16:51:23,2	cPZNE;z		
	S_n	16:52:21,6	cPZNE;z		
19	P*	19:41:00,4	cPZNE;z		
	S*	19:41:15,2	cPZNE;z		
20	LR	11:55:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 4,1 S 104,5 W (Iles Cordillera) h = 33 km H = 10:55:57 Mag: 4,6 (C.G.S.) △ = 116,0º				
20	LR	14:20:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 13,3 S 111,4 W (Iles Cordillera) h = 33 km H = 13:22:54 Mag: 5,0 (C.G.S.) △ = 121,2º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juil. 21	LR	04:30:00	LPZN	20	
	U.S.C.G.S.: Epicentre: 52,8 S 160,3 E (Iles Macquarie) h = 34 km H = 03:33:09,6 Mag: 5,6 (C.G.S.) Δ = 106,6º				
21	LR	06:31:00	LPZE	28	
	U.S.C.G.S.: Epicentre: 3,9 S 104,3 W (Iles Cordillera) h = 33 km H = 05:32:18,2 Mag: 5,1 (C.G.S.) Δ = 115,6º				
21	PKP	18:48:50,0	iCPZ(0,014)NE iz,iZ	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 17,8 S 178,6 W (Iles Fidji) h = 591 km H = 18:30:14,9 Mag: 5,6 (C.G.S.) Δ = 145,0º				
21	P* S*	23:52:12,0 23:52:29,5	cPZNE;z cPZNE;z		
			1,3º		
22	P (S) Lg	02:56:21,5 03:01:08,0 03:03:02,6	iCPZNE; iz,iZ iCPZNE;iz,iZ iCPZNE;iz,iZ		d,SN,EW c,SN,WE c,SN,WE
	U.S.C.G.S.: Epicentre: 0,6 N 29,9 E (République du Congo) h = 33 km H = 02:51:25 Mag: 4,6 (C.G.S.) Δ = 22,4º				
22	P	03:52:44,7	iCPZ(0,04)NE iz,iZ	1	d,NS,EW
	U.S.C.G.S.: Epicentre: 42,8 N 84,5 E (Sinkiang, Chine) h = 33 km H = 03:39:59,7 Mag: 5,2 (C.G.S.) Δ = 86,8º				
22	- PKP	08:44:56,8 08:45:04,5	iCPZE ; iz,iZ iCPZE ; iz,iZ		c,EW c,WE
	U.S.C.G.S.: Epicentre: 16,0 S 168,0 E (Iles Nouvelles Hébrides) h = 187 km H = 08:25:54,7 Mag: 5,5 (C.G.S.) Δ = 140,1º				
22	PKP pPKP SSS LR	10:36:48,5 10:37:02,2 11:04:00 11:41:00	iCPZ(0,06)iz,iZ iCPZNE;iz,iZ LPZNE LPZNE	1 20	d d,NS,EW
	U.S.C.G.S.: Epicentre: 51,7 N 173,5 W (Iles Aléoutiennes) h = 56 km H = 10:17:22,5 Mag: 5,6 (C.G.S.) Δ = 142,8º				
23	PKP LR	14:51:18,0 15:55:00	iCPZNE;iz,iZ LPZNE	 20	d,NS,EW
	U.S.C.G.S.: Epicentre: 51,7 N 173,5 W (Iles Aléoutiennes) h = 55 km H = 14:31:51,2 Mag: 5,3 (C.G.S.) Δ = 142,8º				
24	- LR	08:57:01,7 10:13:00	iCPZ LPZN		d 20
	U.S.C.G.S.: Epicentre: 16,3 S 172,8 W (Iles Samoa) h = 49 km H = 08:52:13 Mag: 4,8 (C.G.S.) Δ = 148,2º				
24	PKP	17:37:40,4	iCPZ(0,07)NE	0,5	c,SN,WE
	U.S.C.G.S.: Epicentre: 20,4 S 175,8 W (Iles Tonga) h = 112 km H = 17:18:17,6 Mag: 5,2 (C.G.S.) Δ = 143,6º				
29	LR	12:58:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 10,5 S 162,8 E (Iles Solomon) h = 75 km H = 11:46:15,6 Mag: 5,4 (C.G.S.) Δ = 140,4º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Juil. 30	(P)	06:29:42,5	iCPZNE;iz		c,SN,WE
	(S)	06:34:38,5	iCPZNE;iz,iZ		c,NS,EW
	(Lg)	06:36:21,5	iCPZNE;iz,iZ		d,NS,WE
31	P*	03:09:42,0	iCPZ;iz		
	S*	03:09:57,0	iCPZ;iz		c

/\ = 1,1°

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BANDEIRA Aug. 1966

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda

C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 8 AOÛT 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: φ' = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	T_o (s)	T_g (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date		Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Août	1	-	17:21:43,5	iCPZN;iz	-	-
		-	17:28:08,5	iCPZNE;iz	-	-
	1	P	19:21:04,0	iCPZ(0,03)NE eLPZ;iz,iZ	1	c,SN,WE
		LR	19:43:00	LPZNE;Z	40	
		U.S.C.G.S.: Epicentre: 29,9 N 68,8 E (Ouest du Pakistan) h = 33 km H = 19:09:55,1 Mag: 5,8 (C.G.S.) Δ = 69,6º				
	1	PKP	20:04:53,5	iCPZ(0,08)N; iz	0,6	d,NS
		U.S.C.G.S.: Epicentre: 19,7 S 174,3 W (Iles Tonga) h = 33 km H = 19:45:17 Mag: 5,0 (C.G.S.) Δ = 144,6º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Août 1	P	20:42:05,0	iCPZ(0,033)NE; iz,iZ	1,2	d,SN,WE
	LQ	21:01:00	LPNE	50	
	LR	21:06:00	LPZNE	36	
	U.S.C.G.S.: Epicentre: 29,9 N 68,6 E (Ouest du Pakistan) h = 33 km H = 20:30:57,0 Mag: 5,7 (C.G.S.) △ = 69,5º				
1	P	21:14:08,5	iCPZ(0,066)NE; iz,iZ	1,1	c,NS,EW
	pP	21:14:17,0	iCPZNE;iz,iZ		
	LR	21:40:00	Z	26	
	U.S.C.G.S: Epicentre: 30,0 N 68,7 E (Ouest du Pakistan) h = 33 km H = 21:02:59,6 Mag: 6,2 (C.G.S.) 6 3/4 (PAS) △ = 69,6º				
5	P	01:15:07,6	iCPZ(0,029)NE; iz,iZ	0,9	c,SN,WE
	U.S.C.G.S.: Epicentre: 32,6 N 79,6 E (Région du Kaschmir - Tibet) h = 55 km H = 01:03:04,4 Mag: 5,3 (C.G.S.) △ = 79,0º				
5	PKP	04:52:22,3	iCPZ(0,02)iz	1	c
	LR	05:43:00	LPZNE;Z	24	
	F	06:20	LPZ		
	U.S.C.G.S.: Epicentre: 10,9 S 162,3 E (Iles Solomon) h = 93 km H = 04:33:07,4 Mag: 5,7 (C.G.S.) △ = 139,8º				
7	PKP	02:32:36,6	iCPZ(0,034)NE LPZN;iz,iZ	0,9	d,NS,EW
	pPKP	02:32:46,0	iCPE		
	PP	02:35:52,5	iCPZN eLPZN;iz;iZ		d,(SN)
	(SP)	02:46:14,0	eLPZNE		c,SN,WE
	SS	02:54:30,0	eLPZNE		d,SN,WE
	LR	03:16:00	LPZNE	50	
	LR_1	03:26:00	Z	32	
	F	05:30	LPZ		
	U.S.C.G.S.: Epicentre: 50,6 N 171,3 W (Région des Iles Aléoutiennes) h = 39 km H = 02:13:05,1 Mag: 6,5 (C.G.S.) △ = 144,0º				
7	LR	18:39:00	LPZNE	30	
	LR_1	18:42:00	Z	24	
8	LR	09:06:00	LPZE	24	
	U.S.C.G.S.: Epicentre: 19,3 N 108,1 W (Région des Iles Revilla Gigedo) h = 33 km H = 08:02:45,8 Mag: 5,5 - 5,9 (BRK) 5,4 (C.G.S.) △ = 124,2º				
10	P	05:20:34,9	iCPZNE eLPZNE;iz,iZ		d,NS,WE
	S	05:23:49,9	iCPZNE eLPZN;iz,iZ	d,NS,WE	
	△ = 18º				
10	PKP	12:52:(53,5)	iCPZ		
	LR	13:43:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 5,5 S 151,8 E (Région de la Nouvelle Bretagne) h = 40 km H = 12:33:42,2 Mag: 5 - 5,5 (BRK) 5,3 (C.G.S.) △ = 134,1º				
10	P	22:17:18,1	iCPZ(0,012)NE iz	0,7	d,SN,WE
	U.S.C.G.S.: Epicentre: 38,4 N 69,6 E (Tadzhik SSR) h = 4 km H = 22:05:35,0 Mag: 5,5 (C.G.S.) △ = 74,8º				
11	PKP	05:32:19,5	iCPZ(0,06)NE eLPZ;iz,iZ	1	c,SN,EW
	LR	06:27:00	LPZNE; Z	24	
	U.S.C.G.S.: Epicentre: 19,3 S 173,9 W (Iles Tonga) h = 33 km H = 05:12:42,2 Mag: 4,7 - 5,2 (BRK) 5,5 (C.G.S.) △ = 145,0º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Août 11	P	10:18:43,1	iCPZNE		c,SN,WE
11	-	11:05:22,0	iCPZ		d
12	LR	00:34:00	LPZNE; Z	24	
	U.S.C.G.S.: Epicentre: 23,4 S 175,9 W (Région des Iles Tonga) h = 37 km H = 23:25:37,9 Mag: 5,4 - 5,8 (BRK) 5,3 (C.G.S.) Δ = 140,6º				
12	-	19:31:35,3	iCPZN;iz		d,NS
	LR	19:42:00	LPZN	30	
14	LR	05:59:00	LPZN	24	
	U.S.C.G.S.: Epicentre: 38,3 73,7 E (Région Tadzhik-Sinkiang) h = 102 km H = 05:08:30,8 Mag: 5,1 (C.G.S.) Δ = 77,4º				
15	P	02:27:22,5	iCPZ;iz,iZ		c
	LR	02:57:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 28,7 N 78,9 E (Nord de l'Inde) h = 50 km H = 02:15:33,8 Mag: 5,8 (C.G.S.) Δ = 76,8º				
15	PKP	02:31:25,0	iCPZ(0,02)N;iz	0,8	d,SN
	U.S.C.G.S.: Epicentre: 28,7 N 78,9 E (Région des Iles Fidji) h = 556 km H = 02:12:47,1 Mag: 4,8 (C.G.S.) Δ = 145,4º				
15	LQ	03:32:00	LPN	40	
	LR	03:40:00	LPZNE; Z	34	
	U.S.C.G.S.: Epicentre: 13,3 N 121,3 E (Iles Phillippines) h = 14 km H = 02:45:32,3 Mag: 5,7 (C.G.S.) Δ = 110,3º				
15	P	10:30:02,1	iCPZ(0,015)E eLPZ;iz,iZ	1	c,EW
	(sS)	10:37:46,4	eLPZN;eZ		d,NS
	LR	10:46:00	LPZNE; Z	40	
	U.S.C.G.S.: Epicentre: 3,8 N 64,0 E (Carlsburg Ridge) h = 37 km H = 10:20:42,2 Mag: 5,6 (C.G.S.) Δ = 53,4º				
15	-	19:43:56,2	iCPNE		NS,EW
16	P	02:27:37,8	iCPZ(0,1)NE; iz,iZ	1,2	c,NS,EW
	U.S.C.G.S.: Epicentre: 36,4 N 70,8 E (Région de Hindu Kush) h = 199 km H = 02:16:19,7 Mag: 5,7 (C.G.S.) Δ = 74,4º				
16	LR	20:50:00	LPZNE;Z	46	
	U.S.C.G.S.: Epicentre: 21,4 S 171,3 E (Région des Iles Loyaute) h = 36 km H = 19:45:38,7 Mag: 5,6 - 6,0 (BRK) 5,3 (C.G.S.) Δ = 137,6º				
17	LR	22:13:00	LPZNE	30	
18	LQ	11:18:00	LPN	52	
	LR	11:24:00	LPZNE;Z	30	
18	LR	15:26:00	LPZNE;Z	40	
	U.S.C.G.S.: Epicentre: 0,2 S 125,1 E (M. des Moluques) h = 56 km H = 14:33:59,8 Mag: 6,3 (C.G.S.) Δ = 110,8º				
19	P	12:32:15,9	iCPZ(0,06)NE; eLPZN;iz,iZ	1	c,SN,WE
	S	12:32:15,9	eLPZNE		
	(LR)	12:51:00	Z	30	
	F	16:40	LPZ		
	U.S.C.G.S.: Epicentre: 32,2 N 41,7 E (Turquie) h = 26 km H = 12:22:09,6 Mag: 6,1 (C.G.S.) Δ = 60,2º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Août 19	P	14:04:28,9	iCPZ; iz		
	U.S.C.G.S.: Epicentre: 38,9 N 41,7 E (Turquie) h = 33 km H = 13:54:24,9 Mag: 5,3 (C.G.S.) △ = 59,9º				
20	P	07:56:16,0	iCPZ;iz		
	U.S.C.G.S.: Epicentre: 3,2 S 77,2 W (Région frontière Perou-Equateur) h = 116 km H = 07:43:27,6 Mag: 5,6 (C.G.S.) △ = 90,2º				
20	P	12:09:15,0	iCPZ(0,025)NE iz,iZ	1	d,NS,EW
	S	12:17:31,0	eLPZNE		c,SN,EW
	SSS	12:23:55,0	eLPZNE		
	(LR)	12:30:35,0	CPZNE	18	
	LR_1	12:26:00	LPZNE;Z	50	
	U.S.C.G.S.: Epicentre: 42,3 N 18,6 E (Yougoslawie) h = 22 km H = 12:05:19,0 Mag: 5,5 (C.G.S.) △ = 57,4º				
20	P	12:15:04,4	iCPZ(0,025)N iz,iZ	1	d,SN
	U.S.C.G.S.: Epicentre: 42,3 N 18,6 E (Yougoslawie) h = 22 km H = 12:05:19,0 Mag: 5,5 (C.G.S.) △ = 57,4º				
20	P	23:14:27,5	iCPZ		
	PP	23:17:29,4	iCPZ		
	(LQ)	23:54:00	LPE	60	
	LR	00:02:00	LPZNE	36	
	U.S.C.G.S.: Epicentre: 23,4 S 176,0 W (Sud des Iles Fidji) h = 57 km H = 22:55:03,0 Mag: 5,6 (C.G.S.) 5 3/4 (PAS) 5,6 - 5,8 (BRK) △ = 140,6º				
21	PKP	05:19:02,5	iCPZ(0,008)iz	0,6	d
	LR	05:55:00	LPZNE	40	
	U.S.C.G.S.: Epicentre: 8,5 N 126,7 E (Iles Phillippines, Mindanao) h = 67 km H = 05:00:26,8 Mag: 6,6 - 6,9 (BRK) 6,0 (C.G.S.) △ = 114,5º				
22	LR	03:43:00	LPZNE	20	
22	-	14:41:34,1	iCPZN;iz,iZ		c, NS
22	P	17:12:55,3	iCPZ		d
	U.S.C.G.S.: Epicentre: 22,5 S 70,4 W. (Près de la côte nord du Chili) h = 59 km H = 17:00:57,2 Mag: 4,9 (C.G.S.) △ = 78,8º				
22	P	18:01:30,0	iCPZ;eLPZ iz,iZ		c
	SPP	18:16:18,0	eLPZN		
	SS	18:22:00,0	eLPZNE		
	LR	18:46:00	LPZNE;Z	40	
	F	20:50	LPZ		
	U.S.C.G.S.: Epicentre: 22,4 S 170,6 E (Région des Iles Loyauté) h = 39 km H = 17:42:10,6 Mag: 6,7 - 7,1 (BRK) 5,5 (C.G.S.) △ = 136,5º				
23	PKP	22:54:48,0	iCPZ(0,02); iz	1	d
	U.S.C.G.S.: Epicentre: 16,3 S 173,2 W (Iles Tonga) h = 33 km H = 22:35:02 Mag: 5,0 (C.G.S.) △ = 148,2º				
24	PKP	02:39:35,6	iCPZ(0,02)NE	0,9	d,NS
	U.S.C.G.S.: Epicentre: 19,0 S 177,7 W (Région des Iles Fidji) h = 442 km H = 02:20:49 Mag: 4,4 (C.G.S.) △ = 144,3º				
25	P	23:30:35,4	iCPZ(0,024)NE iz,iZ	0,7	e,SN,WE
	U.S.C.G.S.: Epicentre: 22,4 S 68,6 W (Nord du Chili) h = 112 km H = 23:18:50,8 Mag: 5,3 (C.G.S.) △ = 77,1º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Août 26	PKP	01:11:09,7	iCPZ;iz		d
	PP	01:13:54,0	iCPZ		d
	LR	01:58:00	LPZN	40	
	U.S.C.G.S.: Epicentre: 27,5 S 177,3 W (Iles Kermadec) h = 59 km H = 00:51:51,3 Mag: 5,7 - 6,1 (BRK) 5,7 (C.G.S.) △ = 136,3º				
26	LR	10:10:00	LPZNE; Z	40	
	U.S.C.G.S.: Epicentre: 22,1 S 170,0 E (Région des Iles Loyauté) h = 33 km H = 09:06:50,4 Mag: 5,4 - 5,8 (BRK) 5,6 (C.G.S.) △ = 136,4º				
29	LR	13:57:00	LPZN	40	
	U.S.C.G.S.: Epicentre: 65,2 S 176,9 E (Région des Iles Balleny) h = 33 km H = 13:10:27 Mag: 5,5 (C.G.S.) △ = 98,9º				
30	LR	21:29:00	LPZNE	36	
	U.S.C.G.S.: Epicentre: 61,3 N 147,5 W (Sud du Alaska) h = 36 km H = 20:20:54,0 Mag: 5 3/4 6 (PAS) 4,9 - 5,3 (BRK) 5 3/4 (PAL) 5,0 (C.G.S.) △ = 131,7º				
31	-	04:05:30,5	iCPZ		
31	P	19:51:08,7	iCPZ		c
	pP	19:51:18,6	iCPZ		c
	U.S.C.G.S.: Epicentre: 37,6 S 73,0 W (Chili central) h = 33 km H = 19:39:09,5 Mag: 5,0 (C.G.S.) △ = 78,2º				

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4 MAR 1968

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda
C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 9 SEPTEMBRE 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	T_o (s)	T_g (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date		Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Sept.	1	P	14:32:12,8	iCPZ(0,04)NE;iz,iZ	1	c,NS,EW
		LR	14:51:00	LPZNE	30	
		U.S.C.G.S.: Epicentre: 37,5 N 22,1 E (Grèce) h = 17 km H = 14:22:57,0 Mag: 5,3 (C.G.S.) Δ = 53,0º				
	1	PKP	15:44:31,0	iCPZ(0,04)NE;iz,iZ	0,6	c,SN,EW
		U.S.C.G.S.: Epicentre: 20,6 S 175,4 W (Iles Tonga) h = 33 km H = 15:24:59,2 Mag: 5,2 (C.G.S.) Δ = 143,4º				
	2	P	00:14:18,5	iCPZ(0,04)NE;iz,iZ	1	c,NS,WE
		(S)	00:19:23,3	iCPZNE;iz		c,SN,EW
		Lg	00:21:03,0	iCPZNE;iz		c,SN,EW
		LR	00:22:44	LPZNE;Z	10	
		U.S.C.G.S.: Epicentre: 1,0 N 30,2 E (Ouganda) h = 19 km H = 00:09:16 Δ = 23,0º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Sept. 2	LQ	08:49:00	LPZNE	44	
	LR	08:59:00	LPZNE;Z	26	
U.S.C.G.S.: Epicentre: 4,5 S 105,9 W (Iles Cordillera) h = 33 km H = 07:59:05,7 Mag: 5,1 (C.G.S.) Δ = 116,9º					
2	(Pn)	11:50:41,5	iCPZNE;iz,iZ		d,NS,WE
	(Sn)	11:51:01,5	iCPZNE;iz,iZ		c,SN,WE
	(Lg)	11:51:46,4	iCPZNE;iz,iZ		c,NS,EW
3	-	12:17:43,0	iCPZNE		d,NS,EW
3	LR	12:33:00	LPZN	20	
3	LR	17:27:00	LPZE	20	
U.S.C.G.S.: Epicentre: 10,2 N 104,2 W (Côte du Mexique) h = 47 km H = 16:24:20,7 Mag: 5,3 (C.G.S.) Δ = 119,2º					
4	LR	10:50:00	LPZNE	20	
4	LR	22:58:00	LPZNE	30	
5	P	09:10:58,0	iCPZNE;iz,iZ		d,NS,EW
	S	09:13:09,5	iCPZNE;iz,iZ		d,NS,EW
	Lg	09:14:10,5	iCPZNE;LPZNE; iz,iZ		c,SN,EW
	LR	09:15:00,0	LPZNE	6	
Δ = 11,5º					
6	Pn	22:40:03,4	iCPZN		
	Sn	22:41:28,4	iCPZNE;iz		
= 7,4º					
9	P	04:31:22,0	iCPZNE;iz		
	S	04:31:59,7	iCPZNE;iz		c,NS,WE
	Lg	04:32:08,0	iCPZNE;iz		d,NS,EW
Δ = 3,0º					
8	P	08:40:14,0	iCPZ(0,06)NE iz,iZ	0,5	c,SN,WE
U.S.C.G.S.: Epicentre: 23,5 S 66,6 W (Province de Jujuy - Argentine) h = 204 km H = 08:28:52,1 Mag: 5,4 (C.G.S.) Δ = 75,2º					
8	P	12:13:05,0	iCPZ(0,04)NE iz,iZ	1	c,SN,WE
	LR	12:18:00	LPZNE	20	
U.S.C.G.S.: Epicentre: 22,5 S 10,7 W (Atlantique Sud) h = 33 km H = 12:07:50 Mag: 5,4 (C.G.S.) Δ = 24,1º					
8	P	12:29:28,0	iCPZ(0,03)NE	1	c,NS,WE
U.S.C.G.S.: Epicentre: 36,4 N 70,2 E (Hindu Kush) h = 223 km H = 12:18:14,8 Mag: 4,9 (C.G.S.) Δ = 74,1º					
8	PKP	16:56:37,0	iCPZ(0,05)NE	1	c,SN,EW
U.S.C.G.S.: Epicentre: 19,8 S 175,8 W (Iles Tonga) h = 183 km H = 16:37:22 Mag: 4,0 (C.G.S.) Δ = 144,1º					
8	PKP	21:34:25,5	iCPZNE;iz,iZ		d,NS,WE
	PP	21:35:22,0	iCPZNE;LPZNE;iz,iZ		d,SN,EW
	PS	21:45:11,5	iCPZE;eLPZNE		c,EW
	LR	22:23:00	LPZNE;Z	20	
U.S.C.G.S.: Epicentre: 2,4 N 128,4 E (Halmahera) h = 96 km H = 21:15:52,8 Mag: 6,9 (C.G.S.) Δ = 114,7º					
9	-	12:17:23,0	iCPZE;iz		d,WE
	-	12:17:38,8	iCPZE;iz		d,EW
9	P	18:52:44,5	iCPZE;iz		d,EW
	LR	19:22:00	LPZE	20	
U.S.C.G.S.: Epicentre: 10,8 N 69,5 W (Venezuela) h = 12 km H = 18:39:58,2 Mag: 5,0 (C.G.S.) Δ = 86,1º					

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Sept. 9	LR	21:09:00	LPZNE	20	
10	P	14:24:47,0	iCPZ(0,05)NE iz,iZ	1	c,NS,EW
	LR	14:54:00	LPZ	20	
	U.S.C.G.S.: Epicentre: 31,7 S 72,0 W (Côte Central du Chili) h = 20 km H = 14:12:46,2 Mag: 4,9 (C.G.S.) △ = 78,5º				
11	-	01:41:08,8	iCPZNE		c,SN,WE
11	P	03:58:26,6	iCPZN;iz,iZ		d,SN
	LR	04:13:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 58,9 S 25,7 W (Iles Sandwich) h = 33 km H = 03:49:13 Mag: 5,4 (C.G.S.) △ = 52,6º				
11	P	17:50:39,4	iCPZE;iz,iZ		d,EW
	U.S.C.G.S.: Epicentre: 6,8 N 72,9 W (Colombie) h = 167 km H = 17:38:04,2 Mag: 5,9 (C.G.S.) △ = 88,3º				
12	(PKIKP)	11:48:47,9	iCPZ;iz		d
	PKP	11:49:00,0	iCPZ(0,09)NE; LPZ;iz,iZ	1	d,SN,WE
	PP	11:51:38,0	iCPZNE;LPZNE; iz,iZ		d,SN,WE
12	PS	12:00:00,9	LPZNE;eZ		
	PPS	12:03:46,0	LPZNE;eZ		c,SN,EW
	LQ	12:32:00	LPZNE;Z	50	
	LR	12:45:00	LPZNE;Z	18	
	F	14:30:00	LPZ		
	U.S.C.G.S.: 23,1 S 170,6 E (Iles Loyauté) h = 49 km H = 11:29:40,3 Mag: 6,1 (C.G.S.) △ = 135,9º				
12	LR	17:44:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 39,4 N 120,1 W (Nord de Californie) h = 8 km H = 16:41:01,7 Mag: 5,4 (C.G.S.) △ = 132,7º				
13	LR	16:37:00	LPZN	24	
13	LR	20:53:00	LPNE	30	
14	LR	00:13:00	LPZN	20	
14	LR	01:16:00	LPZNE	20	
14	LR	04:18:00	LPZE	24	
14	P	23:28:04,5	iCPZNE;eLPZNE; iz,iZ		c,SN,WE
	pP	23:28:13,0	iCPZNE;iz,iZ		c,SN,WE
	S	23:35:35,5	iCPZNE;eLPZNE iz,iZ		c,SN,EW
	LR	23:44:00	CPZNE;LPZNE;iz	24	
	F	03:38:00	LPZ		
	U.S.C.G.S.: Epicentre: 60,1 S 27,0 W (Sud des Iles Sandwich) h = 33 km H = 23:18:41,6 Mag: 6,2 (C.G.S.) △ = 53,9º				
15	P	01:55:52,3	iz,iZ		c
	U.S.C.G.S.: Epicentre: 60,3 S 26,8 W (Sud des Iles Sandwich) h = 33 km H = 01:46:28,7 Mag: 5,2 (C.G.S.) △ = 53,9º				
15	P	02:34:14,3	iz,iZ		d
	U.S.C.G.S.: Epicentre: 60,2 S 26,6 W (Sud des Iles Sandwich) h = 33 km H = 02:24:51,4 Mag: 5,5 (C.G.S.) △ = 53,9º				

International Seismological Centre From the ISC collection scanned by SISMOS

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Sept. 15	P	03:03:01,7	iz,iZ		c
	U.S.C.G.S.: Epicentre: 60,4 S 26,6 W (Sud des Iles Sandwich) h = 33 km H = 02:53:38 Mag: 5,5 (C.G.S.) Δ = 53,9º				
15	LR	05:19:00	LPZNE	24	
15	P	06:17:17,2	iz,iZ		d
	U.S.C.G.S.: Epicentre: 60,2 S 26,8 W (Sud des Iles Sandwich) h = 31 km H = 06:08:56 Mag: 5,3 (C.G.S.) Δ = 53,9º				
15	P	06:31:29,8	iz,iZ		
	U.S.C.G.S.: Epicentre: 60,2 S 26,8 W (Sud des Iles Sandwich) h = 33 km H = 06:22:07 Mag: 5,4 (C.G.S.) Δ = 53,9º				
15	P	12:01:18,5	iCPZ(0,07)NE; iLPZNE;iz,iZ	1	d,NS,EW
	S	12:08:51,0	iCPZNE;eLPZNE; iz,iZ		d,SN,EW
	LR	12:17:00	LPZNE;Z	24	
	U.S.C.G.S.: Epicentre: 60,3 S, 26,7 W (Sud des Iles Sandwich) h = 33 km H = 11:51:55,7 Mag: 5,7 (C.G.S.) Δ = 53,9º				
15	LR	18:13:00	LPZNE	20	
17	-	17:05:38,9	iCPZNE;iz,iZ		d,SN,EW
17	PKP	21:24:36,0	iCPZ(0,02)NE; iz,iZ	0,6	c,SN,EW
	U.S.C.G.S.: Epicentre: 20,7 S 176,3 W (Iles Fidji) h = 220 km H = 21:05:26,8 Mag: 4,6 (C G S) Δ = 143,2º				
17	LR	21:32:00	LPZNE	20	
18	Pn	04:30:07,5	iCPZNE;iz,iZ		d,NS,EW
	Sn	04:39:28,3	iCPZNE;iz,iZ		c,SN,WE
	Δ = 7,0º				
18	P	15:23:48,3	iCPZNE;eLPZN; iz,iZ		c,SN,EW
	pP	15:23:58,6	iCPZNE;iz,iZ		c,SN,EW
	(S)	15:23:28,0	eLPZNE		c,NS,EW
	LR	15:40:00	LPZNE;Z	22	
	U.S.C.G.S.: Epicentre: 60,4 S 27,0 W (Sud des Iles Sandwich) h = 33 km H = 15:14:24,9 Mag: 5,4 (C.G.S.) Δ = 53,9º				
18	P	18:07:44,2	iCPZNE;iz,iZ		c,SN,WE
	LQ	18:23:00	LPZN	30	
	LR	18:30:00	LPZN	14	
	U.S.C.G.S.: Epicentre: 60,4 S 27,1 W (Sud des Iles Sandwich) h = 38 km H = 17:58:20,1 Mag: 5,5 (C.G.S.) Δ = 53,9º				
18	P	20:53:48,5	iCPZNE;iLPZNE; iz,iZ		c,NS,EW
	LR	21:15:00	LPZNE; Z	20	
	U.S.C.G.S.: Epicentre: 27,8 N 54,3 E (Iran) h = 16 km H = 20:43:53,3 Mag: 6,2 (C.G.S.) Δ = 58,2º				
19	P	18:56:24,3	iCPZ(0,06)NE; iz	1	c,SN,WE
	U.S.C.G.S.: Epicentre: 60,5 S 27,2 W (Sud des Iles Sandwich) h = 33 km H = 18:46:59,8 Mag: 4,9 (C.G.S.) Δ = 53,9º				
20	P	09:33:26,0	iCPZ(0,04)NE;iz	1	d,NS,WE
	pP	09:33:36,0	iCPZNE;iz,iZ		d,NS,WE
	LR	09:50:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 60,6 S 26,2 W (Sud des Iles Sandwich) h = 33 km H = 09:24:02,8 Mag; 5,5 (C.G.S.) Δ = 53,9º				

International Seismological Centre From the ISC collection scanned by SISMOS

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Sept. 20	LR	18:46:00	LPZNE	20	
22	LR	19:04:00	LPZNE	24	
22	LR	22:56:00	LPZN	20	
23	LR	02:52:00	LPZN	20	
23	P	18:35:11,5	iCPZ(0,075)NE; iz,iZ	1	d,NS,EW
	LR	18:50:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 59,5 S, 26,3 W (Sud des Iles Sandwich) h = 33 km H = 18:25:53,0 Mag: 5,6 (C.G.S.) △ = 53,2º				
24	PKP	09:16:46,3	iz,iZ		
	pPKP	09:16:56,3	iz,iZ		
	U.S.C.G.S.: Epicentre: 12,0 N, 130,8 W (Nord de l'Océan Pacifique) h = 33 km H = 08:57:10,2 Mag: 5,3 (C.G.S.) △ = 145,2º				
24	P	10:10:37,4	iz,iZ		d
	U.S.C.G.S.: Epicentre: 27,4 N, 54,5 E (Iran) h = 33 km H = 10:00:46,4 Mag: 5,4 (C.G.S.) △ = 58,2º				
24	-	13:43:38,6	ez, eZ		c
26	-	04:41:39,0	iCPZNE;eLPZNE; iz,iZ		d,NS,WE
26	P	05:23:45,5	iCPZ;iz		d
	pP	05:23:50,5	iCPZE;iz		c
	LR	06:01:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 27,5 N, 92,6 E (Inde - Chine) h = 33 km H = 05:10:58,1 Mag: 5,6 (C.G.S.) △ = 87,5º				
28	P	14:13:39,0	iCPZNE;eLPZ; iz,iZ		c,SN,WE
	PP	14:17:29,0	iCPZE;eLPZ;iz		c,EW
	(S)	14:24:24,0	eLPZNE		c,SN,WE
	SS	14:31:05,0	eLPZE		
	LR	14:48:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 27,4 N, 100,1 E (Hunan) h = 33 km H = 14:00:22,9 Mag: 6,2 (C.G.S.) △ = 93,9º				
29	PKP	03:03:26,8	iCPZ(0,04)NE;iz	0,6	d,NS,EW
	U.S.C.G.S.: Epicentre: 19,9 S, 176,2 W (Iles Fidji) h = 246 km H = 02:44:19,0 Mag: 5,5 (C.G.S.) △ = 143,2º				
29	P*	23:55:52,2	iz		c
	Sg	23:56:05,8	iz,iZ		c
	△ = 1,0º				
30	P	09:41:04,8	iz,iZ		c
	U.S.C.G.S.: Epicentre: 18,3 S, 69,7 W (Nord du Chili) h = 122 km H = 09:29:11,6 Mag: 5,2 (C.G.S.) △ = 79,1º				

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda

C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - Nº 10 OCTOBRE 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: $\bar{\Phi}$ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	T_o (s)	T_g (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,9	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Oct. 1	-	17:51:02,0	iCPZNE		c,NS,WE
2	P	11:31:47,6	iCPZ(0,037)N;iz,iZ	1	d,SN
	U.S.C.G.S.: Epicentre: 45,7 N, 26,5 E (Roumanie) h = 140 km H = 11:21:44,9 Mag: 5,3 (C.G.S.) Δ = 61,7º				
2	LR	20:31:00	LPZN	20	
	U.S.C.G.S.: Epicentre: 53,7 S, 140,1 E (Macquarie) h = 57 km H = 19:42:10 Mag: 5,2 (C.G.S.) Δ = 97,7º				
4	LR	09:38:00	LPZN	30	
4	-	09:43:15,0	iCPZN		d,NS
4	LR	16:46:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 53,7 S; 140,5 E (Macquarie) h = 43 km H = 15:59:23 Δ = 97,7º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Oct. 5	P	08:39:34,0	iCPZNE;iLPZNE		d,NS,EW
	(S)	08:42:51,0	iCPZNE;iz,iZ		c,SN,WE
	SS	08:44:06,0	eLPZ		
	Lg	08:46:02,0	iCPZNE;iLPZNE; iz,iZ		c,SN,WE
	LR	08:47:00	LPZNE;Z	14	
	U.S.C.G.S.: Epicentre: 0,1 N, 30,0 E (République du Congo) h = 33 km H = 08:34:40,6 Mag: 5,4 (C.G.S.) Δ = 22,2º				
5	PKP	10:25:20,6	iCPZN		c,NS
	U.S.C.G.S.: Epicentre: 20,2 S 175,6 W (Iles Tonga) h = 196 km H = 10:06:08 Mag: 4,5 (C.G.S.) Δ = 143,4º				
6	-	11:32:10,4	iCPZ		d
	-	11:33:26,9	iCPZNE		d,NS,EW
7	PKIKP	15:14:08,5	iCPZN;iz,iZ		d,NS
	PKP	15:14:14,0	iCPZNE;iz,iZ		d,SN,WE
	PP	16:17:03,6	iCPZNE;eLPZNE; iz,iZ		d,NS,EW
	LR	17:02:00	LPZNE;Z	24	
	U.S.C.G.S.: Epicentre: 21,6 S 170,5 E (Iles Loyauté) h = 161 km H = 15:55:10,8 Mag: 6,4 (C.G.S.) Δ = 137,1º				
7	PKP	00:32:00,4	iCPZ;iz,iZ		c
	LQ	01:21:00	LPZNE	50	
	LR	01:25:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 16,4 S, 177,6 W (Iles Fidji) h = 33 km H = 00:12:18,1 Mag: 5,7 (C.G.S.) Δ = 146,8º				
8	PKP	02:41:07,7	iCPZ(0,06)NE iz,iZ	0,8	d,SN,WE
	U.S.C.G.S.: Epicentre: 19,4 S 175,4 W (Iles Tonga) h = 241 km H = 02:21:56,4 Mag: 5,0 (C.G.S.) Δ = 144,4º				
8	PKP	02:43:58,0	iCPZN;iz,iZ		d,SN
	LQ	03:43:00	LPZNE	40	
	LR	03:47:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 16,5 S 177,5 W (Iles Fidji) h = 57 km H = 02:34:16,1 Mag: 4,9 (C.G.S.) Δ = 146,8º				
8	PKP	15:02:52,8	iCPZ		c
	U.S.C.G.S.: Epicentre: 15,6 S 177,8 W (Iles Fidji) h = 420 km H = 14:43:53,9 Mag: 4,8 (C.G.S.) Δ = 147,5º				
8	PKP	18:03:24,6	iCPZN		c,SN
	U.S.C.G.S.: Epicentre: 51,6 N, 173,5 W (Iles Aléoutiennes) h = 35 km H = 17:43:56,1 Mag: 5,5 (C.G.S.) Δ = 142,8º				
9	Pn	01:25:18,8	iCPZNE;iz		
	Sn	01:26:44,5	iCPZNE;iz,iZ		d,SN,EW
	Δ = 7,4º				
9	-	02:24:23,8	iCPZ;iz		c
	-	02:25:06,5	iCPZNE;iz		c,SN,WE
	-	02:25:58,8	iCPZ;iz		c
9	-	05:31:16,2	iCPN;iz		SN
	-	05:32:50,5	iCPZNE;iz		c,SN,EW
9	LR	06:22:00	LPZNE	12	
9	-	06:22:14,0	iCPZE;iz		c,EW
	-	06:22:48,0	iCPN		NS
9	P	06:55:12,8	iCPZNE;iz,iZ		d,SN,WE
	-	07:00:38,0	eLPZNE		d,SN,WE
	(S)	07:02:49,6	iCPZNE;iz,iZ		d,NS,EW
	Lg	07:05:48,4	iz,iZ		c
	LR	07:08:00	Z	10	
	F	08:45:00	LPZ		
	U.S.C.G.S.: Epicentre: 12,6 N, 30,8 E (Soudan) h = 11 km H = 06:48:40,3 Mag. 5,1 (C.G.S.) Δ = 32,4º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Oct. 9	PKP	08:42:52,0	iCPZ(0,035)NE;iz	0,6	c,SN,WE
	U.S.C.G.S.: Epicentre: 19,5 S, 176,1 W (Iles Fidji) h = 220 km H = 08:23:41 Mag: 4,3 (C.G.S.) Δ = 144,3º				
9	-	10:43:23,0	iCPZNE;iz		d,SN,WE
	-	10:44:00	eLPZNE;eZ		
	-	10:45:34,2	iCPZNE;iz		d,SN,EW
	LR	10:47:00	LPZNE;Z	12	
9	Pn	19:31:06,5	iCPZNE;iz		
	Sn	19:31:33,5	iCPZNE;iz		c,SN,WE
	Δ ≃ 2,1º				
9	LR	21:18:00	LPZN	20	
9	LR	21:55:00	LPZN	20	
11	(P)	05:51:10,2	iCPZNE;iz,iZ		c,SN,WE
11	P	06:35:17,5	iCPZNE;eLPZN; iz,iZ		d,NS,WE
	pP	06:35:27,5	iCPZNE;iz,iZ		c,SN,EW
	S	06:42:54,0	eLPZNE		d,NS,EW
	LR	06:48:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 60,3 S, 26,0 W (Iles Sandwich) h = 37 km H = 06:25:55,1 Mag: 5,9 (C.G.S.) Δ = 53,9º				
11	P	08:09:03,9	iCPZN;iz,iZ		c,SN
	pP	08:09:15,0	iCPZNE;iz,iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 60,4 S, 26,1 W (Iles Sandwich) h = 35 km H = 07:59:41,8 Mag: 5,3 (C.G.S.) Δ = 53,9º				
11	Pn	09:11:41,5	iCPZ;iz		
	Sn	09:15:12,5	iCPZNE;iz		d,SN,WE
	Δ ≃ 19,0º				
11	LR	21:46:00	LPZN	26	
11	LR	21:57:00	LPZNE	16	
12	LR	00:54:00	LPZNE	24	
12	LR	05:30:00	LPZNE	26	
12	LR	09:10:00	LPZNE	24	
12	P	15:58:31,3	iCPZ(0,045)N;iz	1	c,SN
	pP	15:58:39,5	iCPZNE;iz,iZ		c,NS,WE
	LR	16:14:00	LPZNE	24	
	LR_1	16:22:00	LPZN	16	
	U.S.C.G.S.: Epicentre: 60,4 S, 26,5 W (Iles Sandwich) h = 33 km H = 15:49:08 Mag: 5,1 (C.G.S.) Δ = 53,9º				
12	LR	21:13:00	LPZE	24	
13	LR	13:02:00	LPZNE	30	
13	P	15:57:37,0	iCPZE;iz		d,EW
	pP	15:58:17,4	iCPZE;iz,iZ		d,WE
	U.S.C.G.S.: Epicentre: 8,8 S, 74,3 W (Pérou - Brésil) h = 155 km H = 15:45:15,6 Mag: 5,3 (C.G.S.) Δ = 85,6º				
13	LR	20:23:00	LPZNE	20	
	U.S.C.G.S.: Epicentre: 29,7 S, 178,1 W (Iles Kermadec) h = 155 km H = 19:17:48 Δ = 141,8º				
14	LQ	01:12:00	LPNE	60	
	LQ_1	01:17:00	LPZ	50	
	LR	01:19:00	LPNE	30	
	LR_1	01:22:00	LPZ	30	

International Seismological Centre

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Oct. 14	Pn	06:10:25,5	iCPZNE;iz		d,NS,EW
	Sn	06:11:44,5	iCPZNE;iz,iZ		c,SN,WE
			$\Delta \simeq 6,8°$		
15	-	07:19:00	eLPZNE		
16	P	13:04:28,3	iCPZ(0,06)NE; iz,iZ	1	c,SN,WE
	pP	13:04:52,5	iCPZNE;iz,iZ		c,SN,WE
	LR	13:19:00	LPZNE	26	
	U.S.C.G.S.: Epicentre: 56,1 S, 27,1 W (Iles Sandwich) h = 101 km H = 12:55:30,8 Mag: 5,6 (C.G.S.) $\Delta = 51,5°$				
17	LR	05:13:00	LPZNE	22	
17	P	21:54:51,6	iCPZ(0,066)NE iLPZNE;iz,iZ	1	c,SN,WE
	PP	21:58:24,1	eLPZNE;eZ		d,NS,EW
	SSS	22:15:10,5	eLPZNE		c,SN,WE
	LR	22:25:00	LPZNE;Z	38	
	F	07:50			
	U.S.C.G.S.: Epicentre: 10,7 S 78,7 W (Côte du Pérou) h = 38 km H = 21:41:56,3 Mag: 7,5 (B R K) $\Delta = 89,3°$				
18	-	02:42:56,0	iCPNE		
	-	02:43:11,6	iCPZ;iz		
	-	02:44:42,0	iCPNE		
	-	02:44:47,5	iCPZ;iz		
18	LR	22:01:00	LPZE	30	
18	PKP	22:47:14,5	iCPZN;iz		
	U.S.C.G.S.: Epicentre: 15,2 S 174,0 W. (Iles Tonga) h = 62 km H = 22:27:29,0 Mag: 5,5 (C.G.S.) $\Delta = 149,0°$				
19	LR	01:34:00	LPZNE	30	
19	LR	03:06:00	LPZE	20	
19	P	04:10:40,5	iCPZ(0,04)NE iz,iZ	0,7	c,SN,WE
	U.S.C.G.S.: Epicentre: 49,7 N 78,0 E (Kazakh-R.S.S.) h = 0 km H = 03:57:57,7 Mag: 5,6 (C.G.S.) $\Delta = 85,8°$				
19	P	08:07:55,7	iz,iZ		d
	LR	08:16:00	Z	22	
	U.S.C.G.S.: Epicentre: 1,6 S 15,5 W (Ile Ascensión) h = 33 km H = 08:01:33,8 Mag: 6 3/4 (C.G.S.) $\Delta = 31,6°$				
19	LR	11:02:00	LPZNE	22	
	F	12:12:00			
19	PKP	11:41:18,5	iCPZ;iz		d
	U.S.C.G.S.: Epicentre: 12,6 S 167,2 E (Iles de Sainte Croix) h = 218 km H = 11:22:14,7 Mag: 5,1 (C.G.S.) $\Delta = 142,1°$				
19	LR	18:23:00	LPZNE	22	
20	PKP	13:54:59,6	iz,iZ		
	U.S.C.G.S.: Epicentre: 15,5 S 167,7 E (Nouvelles Hébrides) h = 139 km H = 13:35:50,5 Mag: 4,8 (C.G.S.) $\Delta = 140,3°$				
22	P	03:16:08,2	iz,iZ		d
	U.S.C.G.S.: Epicentre: 23,1 N 94,4 E (Burma-Inde) h = 68 km H = 03:03:23,5 Mag: 5,3 (C.G.S.) $\Delta = 87,6°$				
22	-	13:18:11,5	iCPZNE		
	-	13:22:37,5	iCPZNE;iz		NS,EW
	-	13:22:41,0	iCPZ;iz		c
23	LR	[illegible],00	LPZE	20	

International Seismological Centre

Date	Phases	Heures T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Oct. 23	P*	17:59:29,5	iCPZNE;iz		
	S*	17:59:49,0	iCPZNE;iz		
			Δ≃1,5º		
24	-	05:59:34,5	iCPZNE;iz		c,SN,WE
25	-	12:18:10,4	iCPZNE		d,SN,WE
26	-	04:31:31,6	iCPZN;iz		d,NS
27	P	06:11:10,2	iz,iZ		c
	U.S.C.G.S.: Epicentre: 73,4 N, 54,8 E (Nouvelle Zemble) h = 0 km H = 05:57:58,0 Mag: 6,3 (C.G.S.) Δ = 92,3º				
27	PKP	14:40:24,0	iz,iZ		d
	PP	14:42:58,1	iz,iZ		d
	U.S.C.G.S.: Epicentre: 22,2 N, 145,9 E (Nord de l'Océan Pacifique) h = 29 km H = 14:21:04,8 Mag: 6,0 (C.G.S.) Δ = 134,5º				
28	LR	23:19:00	LPZNE	20	
29	LR	01:33:00	LPZNE	30	
29	P	02:48:51,5	iCPZ(0,127) iz	1	c,NS,WE
	LR	03:07:00	LPZNE	30	
	U.S.C.G.S.: Epicentre: 39,2 N, 21,2 E (Grèce) h = 20 km H = 02:39:29,4 Mag: 5,7 (C.G.S.) Δ = 54,6º				
29	-	05:14:00,5	iCPZNE;iz		c,SN,WE
	-	05:20:52,0	iCPZNE;iz,iZ		c,SN,EW
29	LR	16:15:00	LPZNE;Z	30	
	U.S.C.G.S.: Epicentre: 10,7 S, 79,0 W (Côte du Pérou) h = 22 km H = 15:32:19 Mag: 5,0 (C.G.S.) Δ = 89,6º				
29	P	20:19:17,5	iCPZNE;iz		c,SN,WE
	S	20:21:51,5	iCPZNE;iz		d,SN,EW
	Lg	20:22:51,5	iCPZNE;iz,iZ		d,NS,EW
	U.S.C.G.S.: Epicentre: 14,2 S, 26,0 E (Zambie) h = 33 km H = 20:16:25 Mag: 3,9 (C.G.S.) Δ = 12,2º				
30	P	05:10:05,0	iCPZNE;iz,iZ		d,SN,WE
	S	05:13:40,8	iCPZNE;iz,iZ		c,NS,WE
	Lg	05:15:45,6	iCPZNE;iLPZNE; iz,iZ		d,NS,EW
	LR	05:16:00	LPZNE	12	
			Δ≃19,5º		
30	(Lg)	05:19:20,4	iCPZNE;iLPZNE; iz,iZ		c,SN,WE
	LR	05:19:36,0	LPZNE;Z	11	

S E R V I Ç O M E T E O R O L Ó G I C O D E A N G O L A

Centro de Geofísica de Luanda
C.P. 1228 C L u a n d a

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - № 11 NOVEMBRE 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	T_o (s)	T_g (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Nov 3	P	16:37:17,0	eiCPZNE;eLPZ; eiz,eZ	-	c
	pP	16:37:26,5	iCPZ	-	c
	-	16:37:30,2	iCPE	-	WE
	SKS	16:47(30)	eLPZE	-	-
	S	16:47:54	eCPNE;iLPN;eZ	-	EW,NS
	SP	16:48:(52)	eLPZE	-	-
	SS	16:53,8	eLPZNE	-	-
	SSS	16:57,4	eLPZE	-	-
	LQ	17:00,(8)	eLPNE	-	-
	LR	17:05,8	LPZNE;eZ	-	-
	M_1	17:09,0	LPZ;eZ	22	-
	M_2	17:13,5	LPZ	19	-
	M_3	17:32,5	LPZ	17	-

U.S.C.G.S.: Epicentre: 19,2 N; 67,9 W (Port Rich)
h = 22 km H = 16:24:31,0 Mag: 5,6 (C.G.S.)

Δ = 88º

3	LR	22:07,5	LPZN		

U.S.C.G.S.: Epicentre: 6,5 N; 60,5 E (Carlsberg Ridge)
h = 33 km H = 21:43:10,7 Mag: 4,8 (C.G.S.)

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Nov 5	P	02:24:17	eICPZNE	-	d
	pP	02:24:28,5	iCPZ	-	c
	SP	02:32,5	eLPZ	-	-
	PS	02:32,8	eLPNE	-	-
	SS	02:36,5	eLPZN	-	-
	LQ	02:41,(0)	eLPNE	-	-
	LR	02:42,5	eLPZNE	-	-
	M1	02:48,0	LPZ	19	-
	M2	02:52,3	LPZ	16	-
	U.S.C.G.S.: Epicentre: 41,8 S; 80,1 E; (Mid Indian Ris) h = 33 R km H = 02:13:51,2 Mag: 6,5 (C.G.S.) Δ= 61º				
7	P	13:01:44,0	iCPZ;iz	-	d
	U.S.C.G.S.: Epicentre: 22,3 S 68,5 W (Nordest du Chili) h = 126 km H = 12:50:01,1 Mag: 4,5 (C.G.S.) Δ= 76º				
7	LR	13:49,0	LPZNE;Z	-	-
	M1	13:52,5	LPZ	25	-
	M2	13:54,5	LPZ	18	-
	U.S.C.G.S.: Epicentre: 41,8 S 88,3 E (Océan Indien) h = 33 km M = 13:16:40 Mag: 5,1 (C.G.S.) Δ= 65º				
7	PKP	17:57:28,5	eICPZ;ez;eZ	-	d
	-	17:57:33,5	iCPZNE;eZ	-	c,SN
	LR	18:49,0	LPZNE		
	M	18:55,0	LPZ	23	-
	U.S.C.G.S.: Epicentre: 15,1 S; 173,6 W (Iles Tonga) h = 45 km H = 17:37:41,2 Mag: 5,0 (C.G.S.) Δ= 146º				
9	PKP	14:29:10	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 51,9 N; 173,7 W (Iles Aléoutiennes) h = 47 km H = 14:09:44,4 Mag: 4,8 Δ= 140º				
10	P	03:14:07,0	iCPZNE;eiz;eZ	-	d,SN,WE
	PcP	03:14:18,0	iCPZ	-	c
	pP	03:14:32,2	iCPZNE;eLPZ;iz		c,NS,WE
	-	03:14:38,6	iz;eZ	-	-
10	S	03:23:40,0	iCPZNE;eLPZNE	-	d,WE,NS
	SP	03:24:09	eLPE	-	-
	PS ou SPP	03:24:25,0	iCPZNE;eLPZE	-	d,WE
	SS	03:28,4	eLPZNE	-	-
	SSS	03:32,1	eLPZE	-	-
	LQ	03:34,2	e LPNE	-	-
	LR	03:37,7	eLPZNE	-	-
	M	03:39,0	LPZ	33	-
	U.S.C.G.S.: Epicentre: 31,9 S; 68,4 W (Argentine) h = 113 km H = 03:02:32,5 Mag: 6,0 (C.G.S.) Δ= 75º				
11	PKP	15:50:38	eCPZ	-	-
	PP	15:53(44)	eCPZ;	-	-
	R		eLPZ		
	M	16:58,0	LPZ	19	-
	U.S.C.G.S.: Epicentre: 52,3 N 169,1 W (Iles Fox, Aléoutiennes) h = 38 km H = 15:31:04,2 Mag: 5,4 (C.G.S.) Δ= 141º				
11	PKP	18:16:41,2	eICPZ	-	d
	-	18:18:09	eCPZ	-	-
	U.S.C.G.S.: Epicentre: 17,5 S; 172,2 W (Iles Fidji) h = 390 km H = 17:57:43,4 Mag: 4,7 (C.G.S.) Δ= 142º				
11	P	22:45:33,4	iCPZNE;eiz	-	c
	-	22:45:37,5	iCPZ	-	o
	U.S.C.G.S.: Epicentre: 31,6 S 71,5 W (Côte Central du Chili) h = 33 km H = 22:33:33,7 Mag: 4,6 (C.G.S.) Δ= 78º				

International Seismological Centre

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Nov 12	P	12:02:08,2	iCPZNE	-	d,NS,EW
	(PcP)	12:02:19,8	iCPZ	-	d
	-	12:02:23,0	iz	-	-
	pP	12:02:42,5	iCPZ	-	d
	S	12:11:40	eCPZNE	-	-
	SP	12:12:21,0	iCPZ	-	d
	U.S.C.G.S.: Epicentre: 23,8 S; 67,6 W (Chili-Argentine) h = 126 km H = 11:50:31,6 Mag: 5,6 (C.G.S.) Δ = 76,5º				
12	PKP	13:08:52,8	eiCPZ	-	c
	PKS ou SKP	13:12:13,2	iCPZ;eLPZN	-	c
	SP	13:21,2	eLPZN	-	-
	SPP	13:23,2	eLPZ	-	-
	PSS	13:29,0	eLPN	-	-
	LR	13:49,0	eLPZNE	-	-
	M_1	14:09,5	LPZ	22	-
	M_2	14:12,3	LPZ	18	-
	U.S.C.G.S.: Epicentre: 41,8 N; 144,1 E (Okkaido, Japon) h = 33 km H = 12:49:48,0 Mag: 5,8 (C.G.S.) Δ = 127º				
12	PKP	19:04:21	eCPZ;eLPZNE;ez	-	-
	-	19:04:24,5	iCPZ	-	-
	-	19:04:28,7	iCPZE	-	c,EW
	-	19:04:31,3	iCPZN	-	d,SN
	(pP)	19:04:34,0	iCPZ;ez	-	c
	-	19:04:54,5	iCPZE	-	c,EW
	(PP)	19:07:26	eLPZNE	-	-
	SKP ou PKS	19:08:09,0	iCPZNE;eLPNE ez;eZ	-	c,SN,WE
	-	19:08:18,0	iCPZ	-	c
	-	19:08:30,0	iCPZN	-	c,SN
	SKKS	19:14:24	eLPNE	-	-
	PS	19:17:36	eLPNE	-	-
	SPP	19:19:34	eLPZNE	-	-
	SS	19:26:00	eLPNE	-	-
	SSP	19:26:22	eLPZ	-	-
	SSS	19:31:00	eLPNE	-	-
	-	19:35:00	eLPZNE	-	-
	LQ	19:40,2	eLPNE	-	-
	LR	19:49,2	eLPZNE	-	-
	M_1	19:57,4	LPZ	23	-
	M_2	20,01,3	LPZ	20	-
	M_3	20:11,3	LPZ	18	-
	U.S.C.G.S.: Epicentre: 15,6 S; 167,3 E (Iles Nouvelles Hébrides) h = 40 km H = 18:45:01,0 Mag: 5,2 (C.G.S.) Δ = 137º				
13	LR	12:20,0	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 17,3 N; 61,3 W (Iles Leeward) h = 65 km H = 11:42:25,9 Mag: 4,7 (C.G.S.)				
13	P	14:37:01,3	eiCPZ	-	-
	U.S.C.G.S.: Epicentre: 8,3 S 74,2 W (Perou/Brésil) h = 176 km H = 14:24:40,1 Mag: 4,8 (C.G.S.) Δ = 85º				
13	P	18:05:56	eiCPZ	-	c
	-	18:06:05,5	iCPZ	-	c
	P	18:16:37,5	eCPZ	-	-
	-	18:16:40,5	iCPZ	-	c
	-	18:16:46,3	iCPZ	-	c
	-	18:16:56,0	iCPZ	-	d
	P	03:04:00,5	iCPZNE;ez	-	c,EW
	PcP	03:04:07,2	iCPZNE;ez	-	c,NS,EW
	pP	03:04:20,8	iCPZE	-	d,WE
	U.S.C.G.S.: Epicentre: 17,1 N 61,9 W (Iles Leeward) h = 65 km H = 02:51:50,6 Mag: 5,5 (C.G.S.) Δ = 80º				
13	P	05:22:02,3	iCPZ;ez	-	d

International Seismological Centre

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Nov 14	P	13:10:27,5	eICPZE;eZ	-	d
	PcP	13:10:30,5	iCPZ	-	c
	-	13:10:34,0	iCPZ;iz	-	c
	pP	13:11:03,3	iLPZE	-	c,WE
	U.S.C.G.S.: Epicentre: 18,3 S; 69,2 W (Nordest du Chili) h = 123 km H = 12:58:36,2 Mag: 5,4 (C.G.S.) Δ = 78º				
15	PKP	16:38:34,0	eICPZN	-	c
	U.S.C.G.S.: Epicentre: 51,2 N; 176,6 W (Iles Aléoutiennes) h = 48 km H = 16:19:07,4 Mag: 5,0 (C.G.S.) Δ = 140,5º				
16	PKP	08:27:36	eCPZE	-	c
	-	08:27:42,0	iCPZ	-	d
	-	08:27:44,3	iCPZ	-	d
	L	09:18,5	LPZ	-	-
	U.S.C.G.S.: Epicentre: 13,1 S; 166,5 E (Iles Nouvelles Hébrides) h = 50 km H = 08:08:14,0 Mag: 5,1 (C.G.S.) Δ = 138º				
16	PKP	06:18:(00,2)	eCPZ	-	-
	-	06:18:08,0	iCPZN	-	d
	U.S.C.G.S.: Epicentre: 19,5 S; 176,3 W (Région des Iles Fidji) h = 48 km H = 05:58:30 Mag: 5,0 (C.G.S.) Δ = 141,5º				
17	Lg	18:38:54	eCPZNE	-	WE
	U.S.C.G.S.: Epicentre: 07,5 S; 32,0 E (Tanganica) h = km H = 18:28:56 Mag: 4,6 (LWI); 4,2 (BUL)				
17	P	20:30:57,6	iCPZE;ez	-	d
	-	20:30:03,0	iCPZ	-	d
	pP	20:03:08,3	iCPZ	-	c
	S	20:35:(21)	eCPNE	-	-
	Lg	20:37:39,0	iCPZNE;ez	1,5	c,SN,WE
	U.S.C.G.S.: Epicentre: 1,0 N; 29,9 E (Republique du Congo) h = 41 km H = 20:25:55 Mag: 5,1 (C.G.S.); 4,4 (BUL); 4,4 (LWI) Δ = 230º				
18	LQ	09:53,5	eLPZNE	-	-
	LR	09:57,8	eLPZNE	-	-
	M	10:04,5	LPZ	20	-
	U.S.C.G.S.: Epicentre: 36,3 N; 100,7 W (Pacifique Sud) h = 33 Rkm H = 09:12:09,9 Mag: Δ = 98º				
18	R	19:31,8	LPZ	-	-
	U.S.C.G.S.: Epicentre: 3,4 N 06,8 E (Mer Groeland) h = 33 Rkm H = 18:48:43,9 Mag: 4,9 (C.G.S.) Δ = 88º				
18	P	19:54:47,3	iCPZ	-	c
	pP	19:54:57,8	iCPZ	-	d
	SP	20:04:22	eLPZ	-	-
	PS	20:04:38	eLPE	-	-
	LR	20:15:32	eLPZNE	-	-
	U.S.C.G.S.: Epicentre: 24,0 N; 46,3 W (Atlantique Nord) h = 33 Rkm H = 19:43:35 Mag: 4,7 (C.G.S.) Δ = 70º				
19	P	07:21:35,5	eICPZN	-	d
	R	07:45,5	eLPZNE	-	-
	M	07:46,6	LPZ	10	-
	U.S.C.G.S.: Epicentre: 35,0 N; 23,5 E (Crète) h = 33 km H = 07:12:39,7 Mag: 5,3 (C.G.S.) Δ = 50º				
19	P	18:33,5	eLPZ	-	-
	PS	18:45,6	eLPZ	-	-
	R	19:03,4	eLPZNE	-	-
	M_1	19:09,5	LPZ	20	-
	M_2	19:16,0	LPZ	17	-
	M_3	19:21,0	LPZ	16	-
	U.S.C.G.S.: Epicentre: 10,7 S; 79,1 W (Côte du Pérou) h = 34 km H = 18:20:30 Mag: 4,8 (C.G.S.) Δ = 89º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Nov 20	PKP	09:49:24,2	eICPZ	-	c
	-	09:49:28,8	ICPZ	-	c
	-	09:49:45,0	ICPZ	-	d
	U.S.C.G.S.: Epicentre: 51,4 N; 176,6 W (Iles Aléoutiennes) h = 54 km H = 09:29:59,1 Mag: 5,1 (C.G.S.) △ = 140,5º				
20	SP ou PS	17:15,0	eLPZN	-	-
	SSP ou PSS	17:20,5	eLPZNE	-	-
	SSS	17:24,2	eLPZN	-	-
	LQ	17:30,2	eLPZNE	-	-
	LR	17:35,3	eLPZNE	-	-
	M_1	17:39,5	LPZ	22	-
	M_2	17:43,0	LPZ	20	-
	M_3	17:50,3	LPZ	16	-
	U.S.C.G.S.: Epicentre: 55,1 S; 129,4 W (Pacifique Sud) h = 33 Rkm H = 16:47:33 Mag: 4,9 (C.G.S.) △ = 101,5º				
20	R	19:41,3	eLPZNE	-	-
	M_1	19:45,5	LPZ	22	-
	M_2	19:50,0	LPZ	20	-
	M_3	19,56,5	LPZ	16	-
	U.S.C.G.S.: Epicentre: 55,3 S; 128,7 W (Pacifique Sud) h = 33 Rkm H = 18:53:32 Mag: 4,7 (C.G.S.) △ = 101,5º				
21	L	13:36,0	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 46,7 N; 152,5 E (Iles Kourilles) h = 40 Rkm H = 12:19:27,3 Mag: 5,6 (C.G.S.)				
22	PKP	06:48:02,5	eCPZ	-	-
	-	06:48:10,5	iCPZ	-	d
	PP	06:50:02,0	eCPZ	-	-
	SKP	06:50:48,7	eLPZ	-	c,SN,WE
	SP	06:59:24	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 48,2 N; 146,7 E (Mer de Okhotsk) h = 453 Rkm H = 06:29:53,5 Mag: 5,6 (C.G.S.) △ = 127º				
22	P	07:10:18,0	eiCPZNE;eLPZ	-	c
	-	07:10:26,5	iCPZNE	-	d,NS
	PcP	07:11:31,0	iCPZ	-	c
	S	07:17:36	eCPNE;eLPZNE	-	SN
	(ScS)	07:20:11,2	iCPNE;eLPE	-	NS
	SS	07:21,3	eLPZNE	-	-
	LQ	07:22,6	eLPZN	-	-
	LR	07:25,0	eLPZNE	-	-
	M_1	07:26,6	LPZ	22	-
	M_2	07:32,5	LPZ	15	-
	U.S.C.G.S.: Epicentre: 57,9 S; 25,3 W (Iles Sandwich) h = 38 km H = 07:01:11,1 Mag: 5,6 (C.G.S.) △ = 51 º				
23	PKP	02:38:30	eCPZ	-	-
	-	02:38:32,8	iCPZ	-	c
	(pP)	02:38:41,0	iCPZ	-	d
23	-	02:39:16,4	iCPZ	-	c
	SKP	02:42:12,5	eCPZNE;eLPZ	-	-
	SPP	02:54,2	eLPZ	-	-
	SSP ou PSS	03:00,7	eLPZNE		
	LQ	03:16,2	eLPZN	-	-
	LR	03:25,1	eLPZNE	-	-
	M_1	03:27,0	eLPZ	38	-
	M_2	03:32,3	eLPZ	24	-
	M_3	03:41,5	eLPZ	20	-
	M_4	03:45,5	eLPZ	18	-
	U.S.C.G.S.: Epicentre: 14,9 S; 166,9 E (Iles Nouvelles Hébrides) h = 48 km H = 02:19:13,8 Mag: 5,6 (C.G.S.) △ = 138 º				
23	Lg	04:30:46	eCPZE	-	-
	M	04:31:15	eCPZN	1,5	-
	U.S.C.G.S.: Epicentre: 03 N; 30 E (Kivu - Uganda) h = — H = 04:18-(00) Mag: 4,3 (BUL); 4½ - 5 (LWI)				

International Seismological Centre

Date	Phases	Heure T.M.G	Composantes, nature du mouvement et amplitudes (½)	Périodes (s)	Sens du mouvement
1966 Nov 23	Pn	11:43:19,5	eCPZN	-	-
	P*	11:43:23,0	iCPZ	-	d
23	Sn	11:43:40,7	iLPZNE	-	c,SN,EW
	S*	11:43:42,7	iCPZN(2,0) E	0,5	d
	PKP	18:36:34	eiCPZ	-	c
	U.S.C.G.S.: Epicentre: 20,1 S; 177,7 W (Région des Iles Fidji) h = 465 km H = 18:17:59 Mag: 4,2 (C.G.S.)				
24	PKP	07:51:(10)	iCPZ	-	-
	-	07:51:11,3	iCPZ	-	c
	SKP	07:54:36	eCPZ	-	-
	U.S.C.G.S.: Epicentre: 30,6 S; 177,9 W (Région des Iles Kermadec) h = 11 km H = 07:31:51,8 Mag: 5,0 (C.G.S.) △ = 129,5º				
24	LQ	17:25,0	eLPZNE	-	-
	LR	17:29,2	eLPZNE	-	-
	M1	17:31,5	LPZ	25	-
	M2	17:38,5	LPZ	18	-
	U.S.C.G.S.: Epicentre: 38,3 S; 92,1 W (Ouest du Chili) h = 33 km H = 16:45:47 Mag: 4,7 (C.G.S.) △ = 91º				
24	P	23:52:(41)	eLPZ	-	-
	S*	23:55:52,5	iCPZNE	-	c,SN,WE
	Lg	23:56:10,5	iCPZN(9,0) E	1,2	c
	U.S.C.G.S.: Epicentre: 13,9 S; 25,6 E (Zambie) H = 23:49:40 Mag: 3,7 (BUL)				
25	PKP	03:38:37,5	eCPZ	-	-
	-	03:58:38,0	iCPZ	-	d
	R	04:27,1	eLPZ	-	-
	M	04:33,3	LPZ	24	-
	U.S.C.G.S.: Epicentre: 15,6 S; 179,1 E (Iles Fidji) h = 67 km H = 03:18:54,7 Mag: 4,9 (C.G.S.)				
25	P	21:34:(01)	eCPZN	-	-
	-	21:40:14,5	iCPN	-	SN
	Lg	21:40:(45)	eCPZN(7,0)	1,4	SN,EW
	R	21:42,1	eLPZ		
	U.S.C.G.S.: Epicentre: 0,8 N; 30,0 E (République du Congo) h = 38 km H = 21:28:59 Mag: 43 (BUL) △ = 22º				
26	P	08:12:49,5	iCPZ	-	d
	U.S.C.G.S.: Epicentre: 23,8 S; 70,4 W (Nordest du Chili) h = 77 km H = 08:00:52 Mag: 4,4 (C.G.S.) △ = 78º				
26	P	02:30:15,7	iCPZNE	-	c,NS,EW
	pP	02:30:29,5	iCPZ	-	d
	R	02:55,5	eLPZ	-	-
	M	03:00,5	LPZ	24	-
	U.S.C.G.S.: Epicentre: 25,6 S; 70,6 W (Nord est du Chili) h = 54 R km H = 02:18:17,0 Mag: 5,5 (C.G.S.) △ = 78º				
27	P	01:31:06	eCPZNE	-	-
	R	01:42,5	eLPZNE	-	-
	M1	01:43,5	LPN	15	-
	M	01:48,2	LPZ	8	-
	Prof: ca 12º S; 08 W = 22º				
27	Pn	02:01(36)	eCPZNE	-	-
	Lg	10:58:55	eCPZN	-	-
	-	14,1 S; 26,1 E (Zambie) H = 10:52:36 Mag: 3,0 (BUL)			
27	Lg	13:25:09	eCPZNE	-	-
	-	13,9 S; 26,0 E (Zambie) H = 13:18:44 Mag: 3,1 (BUL)			

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Nov 27	PKP	14:00:14	eCPZ	-	-
	SKP	14:03:20,5	eCPZ	-	-
	U.S.C.G.S.: Epicentre: 17,5 N; 145,4 E (Iles Mariannes) h = 214 km H = 13:41:19,0 Mag: 5,5 (C.G.S.) Δ = 130,5º				
27	P	20:26:14,5	eCPZ	-	-
	SP	20:38,8	eLPZ	-	-
	SS ou PSS	20:43,7	eLPN	-	-
	R	20:57,5	eLPNE	-	-
	M	21:01,0	eLPZ	34	-
	U.S.C.G.S.: Epicentre: 78,5 N; 06,4 E (Région de Svalbard) h = 33 R km H = 20:13:01,5 Mag: 5,6 (C.G.S.) Δ = 93º				
28	P*	00:59:40	eCPZ	-	-
	{S*}	01:00:05	eCPE	-	-
	{Sn}	01:00:12,5	iCPZN	-	-
	Séisme local faible		H = 00:59(18) Δ = (150) km		
28	P	07:46:(30)	eCPZ	-	-
	-	07:46:38,8	iCPZ	-	d
	SSS ou SSP	08:04,4	eLPZE	-	-
	LQ	08:13,2	eLPZNE	-	-
	LR	08:18,5	eLPZE	-	-
	M_1	08:25,0	LPZ	21	-
	M_2	08:59,5	LPZ	18	-
	U.S.C.G.S.: Epicentre: 6,6 N; 82,7 W (Sud du Panama) h = 33 R km H = 07:32:53,4 Mag = 5,5 Δ = 96,5º				
28	Pn	09:47:32,5	eCPZ	-	-
	Sn	09:48:33	eCPE	-	-
	Lg	09:48:59,0	iCPZN(1,3) E	0,6	c,WE
		H = 09:46:11	650 km		
28	PKP	10:27:41,5	iCPZ	-	d
	U.S.C.G.S.: Epicentre: 16,9 S; 174,3 W (Iles Tonga) h = 118 km H = 10:08:08,7 Mag: 4,5 (C.G.S.) Δ = 147º				
29	PKP	08:19:13,7	eiCPZ	-	-
	U.S.C.G.S.: Epicentre: 15,9 S; 176,8 W (Région des Iles Fidji) h = 370 km H = 08:00:10 Mag: 4,6 (C.G.S.) Δ = 142º				
	P	09:33:03,5	eCPZN	-	-
	LR	09:59,6	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 9,8 S; 90,6 E (Océan Indien) h = 33 R km H = 09:21:23 Mag: - Δ = 72,5º				
	R	15:47:54	eLPZE	-	-
	Séisme distant				
	PKP	22:36:36,5	iCPZNE;eLPZ	-	d
	-	22:36:40,2	iCPZ	-	c
	-	22:36:46,0	iCPZ	-	d
	-	22:37:30,0	iCPZ	-	c
	SKP	22:39:47	eLPZN	-	
	-	22:40:08,7	iCPZ	-	c
	-	22:41:25,0	iCPZ;eLPNE	-	c
	(P'P')	22:53:08	eiLPZNE	-	-
	(PSS)	22:58,1	eLPNE	-	-
	SSS	23:08,2	eCPE	-	-
	LQ	23:15,1	eLPZNE	-	-
	LR	23:24,0	eLPZE	-	-
	M_1	23:59,6	LPZ	22	-
	M_2	00:03,5	LPZ	19	
	U.S.C.G.S.: Epicentre: 14,7 S; 167,4 E (Iles Nouvelles Hébrides) h = 161 R km H = 22:17:29,9 Mag: 5,2 (C.G.S.) Δ = 137º				

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Nov 30	P	15:11:06,0	iCPZ	-	c
	pP	15:11:30,2	iCPZ	-	c

U.S.C.G.S.: Epicentre: 23,5 S; 69,0 W (Nord-est du Chili)
h = 90 R km H = 14:59:17,5 Mag: 4,8 (C.G.S.)
Δ = 77°

International Seismological Centre

SERVIÇO METEOROLÓGICO DE ANGOLA

Centro de Geofísica de Luanda
C.P. 1228 C Luanda

BULLETIN SÉISMIQUE D'ANGOLA (PORTUGAL)

ANNÉE 2 - Nº 12 DÉCEMBRE 1966

Station seismographique de Sá da Bandeira

Coordonnées de la station:

Latitude géographique: φ = 14º 54' 08" S Longitude: λ = 13º 28' 39" E

Latitude géocentrique: Φ = 14º 48' 23" S Altitude: h = 1761 m

Nature du sous-sol:

Granite

Constantes des séismographes

Séismographes	T_o (s)	T_g (s)	Amplification			
			Ts=0,2 s	Ts=0,6 s	Ts=1,0 s	Ts=15,0 s
Benioff vertical (z)	1,0	0,2	76750	33000	15300	-
Benioff vertical (Z)	1,0	21,3	400	1100	1650	120
Benioff vertical (CPZ)	1,0	0,75	38000	150000	100000	-
Benioff N/S (CPN)	1,0	0,85	38000	150000	100000	-
Benioff EW (CPE)	1,0	0,82	38000	150000	100000	-
Sprengnether vertical (LPZ)	15,0	100,0	-	-	-	1500
Sprengnether NS (LPN)	15,0	100,0	-	-	-	1500
Sprengnether EW (LPE)	15,0	100,0	-	-	-	1500

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Dez. 1	P	00:30:08,3	iCPZ	-	d
	pP	00:30:23,7	iCPZ	-	c
	U.S.C.G.S.: Epicentre: 15,2 S; 73,1 W (Sud du Pérou) h = 58 km H = 00:17:48* Mag: 4,3 (C.G.S.) Δ = 82,5º				
1	R	01:25,6	eLPZNE	-	-
	M	01:33,0	eLPZ	23	
	U.S.C.G.S.: Epicentre: 0,1 N; 125,6 E (Étroit des Moluques) h = 123 km H = 00:32:32* Mag: 5,6 (C.G.S.) Δ=108º				

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Dez. 1	PKIKP	05:16:05	eLPZ		
	PKP	05:16:09,5	iCPZNE;eLPZ	-	d, c
	PKIKP	05:16:12,0	iLPZNE;eLPZ	-	c,NS,EW
	-	05:16:24,0	iLPE	-	WE
	-	05:16:37,5	iLPNE	-	NS,EW
	-	05:16:52,5	iLPNE	-	SN,WE
	PP	05:19:18,5	iLPZN;eLPZ	-	d,NS
	PKS1	05:19:44,8	iLPZN	-	c,SN
	PKS3	05:20:00	eLPNE	-	-
	(SKKS)	05:26:01,0	iCPN;eLPNE	-	SN
	-	05:28:12,0	iLPZ;eLPZ	-	d
	SP	05:29:23	eLPZNE	-	-
	SPP	05:31:16	iLPZ	-	-
	PSS	05:38,2	eLPZNE	-	-
	SSS	05:43,0	eLPZNE	-	-
	LQ	05:56,0	eLPNE	-	-
	LR	06:04,0	eLPZNE	-	-
1	M1	06:05,5	eLPZ	38	-
	M2	06:08,0	eLPZ	23	-
	M3	06:14,8	eLPZ	20	-
	M4	06:17,3	eLPZ	18	-
	M5	06:22,9	eLPZ	16	-
U.S.C.G.S.: Epicentre: 14,0 S; 167,1 E (Iles Nouvelles Hébrides) h = 132 km H = 04:56:58,2 Mag: 6,1 (C.G.S.) Δ = 141º					
1	L	15:18,2	eLPZ	-	-
	L	15:33,0	eLPZ	-	-
	L	16:18,5	eLPZ	-	-
	R	16:19,6	eLPZ	-	-
	M	16:24,0	eLPZ	19	-
U.S.C.G.S.: Epicentre: 40,7 N; 142,0 E (Honshu, Japon) h = 33 R km H = 15:21:04 Mag: 3,9 (C.G.S.) Δ = 125º					
2	P	03:17:44	eCPZN	-	-
	R	03:33,2	eLPZNE	-	-
U.S.C.G.S.: Epicentre: 28,2 N; 53,2 E (Sud du Iran) h = 40 km H = 03:07:54,0 Mag: 5,2 (C.G.S.) Δ = 55,5º					
2	L	05:52,2	eLPZNE	-	-
	PKP	09:49:51,7	iLPZNE	-	d,EW
	(SP)	10:00,4	eLPZ	-	-
	R	10:27,4	eLPZ	-	-
U.S.C.G.S.: Epicentre: 3,2 N; 128,1 E (Nord Halmahera) h = 92 km H = 09:51:17,6 Mag: 5,8 (C.G.S.) Δ = 109,5º					
4	L	12:38,5	eLPZ	-	-
	PKP	18:21:(58)	iLPZ	-	-
	-	18:22:03(2)	iCPZN	-	d
	R	19:08,8	eLPZ	-	-
U.S.C.G.S.: Epicentre: 15,3 S; 173,2 W (Iles Tonga) h = 21 km H = 18:02:08* Mag: 4,9 (C.G.S.) Δ = 144º					
8	P	11:41:04,5	iCPZN	-	c
	(pP)	11:41:08,0	iCPZ	-	d
U.S.C.G.S.: Epicentre: 42,2 N; 18,9 E (Yougoslavie) h = 24 km H = 11:31:18,0 Mag: 5,0 (C.G.S.) Δ = 56º					
8	R	13:26,5	eLPZNE	-	-
	M	13:33,5	eLPZ	22	-
U.S.C.G.S.: Epicentre: 0,2 S; 125,3 E (Mer des Moluques) h = 71 km H = 12:33:09,5 Mag: 5,4 (C.G.S.) Δ = 106º					
10	R	08:46,2	eLPZNE	-	-
	M	08:48,5	LPZ	19	-

Séisme distant.

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Dez. 10	P	10:50:16,8	eCPZN	-	-
	-	10:49:17,5	ICPZNE	-	d,SN,EW
	pP	10:49:46,0	iLPZ	-	c
	S	10:59:49,5	eCPE	-	-
	U.S.C.G.S.: Epicentre: 24,2 S; 67,9 W (Chili - Argentine) h = 91 km H = 10:38:35,6 Mag: 5,4 (C.G.S.) Δ=76º				
10	PKP	13:24:(5,6)	eCPZ	-	-
	PP	13:25:22	eLPZ	-	-
	SKS1	13:31:(16)	eLPN	-	-
	PS	13:34:45	eLPZE	-	-
	SS	13:40,2	eLPNE	-	-
	SSP	13:41,1	eLPZE	-	-
	SSS	13:45,0	eLPZNE	-	-
	LQ	13:51,5	eLPNE	-	-
	M	13:55,5	LPN	34	-
	LR	13:57,8	eLPZNE	-	-
	M1	13:59,0	LPZ	30	-
	M2	14:00,0	LPZ	28	-
	M3	14:05,5	LPZ	22	-
	M4	14:13,5	LPZ	18	
	U.S.C.G.S.: Epicentre: 14,3 N; 92,0 W (Guatemala) h = 70 km H = 13:06:32,6 Mag: 5,6 (C.G.S.) Δ=106º				
10	P	17:18:(41)	eCPN	-	-
	R	17:38,0	eLPZNE	-	-
	M	17:47,0	LPZ	17	-
	U.S.C.G.S.: Epicentre: 41,0 N; 33,5 E (Turquie) h = 13 km H = 17:08:32,2 Mag: 4,9 (C.G.S.) Δ=57º				
10	LQ	19:01,5	eLPN	-	-
	LQ	19:04,5	eLPZNE	-	-
	M	19:37,0	LPZ	19	-
	U.S.C.G.S.: Epicentre: 3,6 S; 145,4 E (Nouvelle Guinée) h = 33 R km H = 18:08:14,4 Mag: 5,7 (C.G.S.) Δ=124º				
11	(Pn)	03:49:05	eCPZ	-	-
	(Sn)	03:51:08	eCPZNE	-	-
	Lg	03:52:36,0	iCPZNE	-	d
	Prof. ca 13,8 S; 26,0 E (Zambie) H = 03:46:06 Mag: 3,7 (BUL) Δ=1350 km				
12	P*	04:18:27,0	iCPZNE	-	c,NS,EW
	P	04:18:34,5	iCPZ	-	d
	Sn	04:18:47,0	iCPZNE	-	d,SN,WE
	(Sg)	04:18:48,0	iCPN(11)E	0,6	EW
	H = 04:17:55 Δ=200 km				
13	(Pn)	23:34:10	ez	-	-
	-	23:34:12,0	iz	-	d
	(Lg)	23:37:49	ez	-	-
	Epicentre: 0,3 S; 25,9 E (Congo) H = 23:29:26 Mag: 4,4 (BUL) Δ=1520 km				
14	P	15:00:23,5	iCPZ	-	c
	U.S.C.G.S.: Epicentre: 45,6 N; 26,4 E (Romenay) h = 158 km H = 14:49:59,8 Mag: 4,8 (C.G.S.) Δ=61º				
14	(PKP)	21:27:15,5	iz,iZ	-	d;c
	-	21:29:17	eiz;iZ	-	d
	SKP	21:30:38	ez;eZ	-	-
	LR	22:08,3	eZ	-	-
	M	22:57,5	Z	17	-
	U.S.C.G.S.: Epicentre: 4,8 S; 143,9 E (Nouvelle Guinée) h = 74 km H = 21:07:52,1 Mag: 6,0 (C.G.S.) Δ=123º				

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
15 Dez. 15	(pP)	02:21:06,5	iz; eZ	-	d
	U.S.C.G.S.: Epicentre: 21,7 N; 94,5 E (Burma)				
	h = 81 km	H = 02:08:03,0	Mag: 5,7 (C.G.S.)		
		Δ=83º			
16	P	21:04:19,0	iCPZE	-	-
	-	21:04:20,0	iCPZN;eLPZ	0,9	d
	(PcP)	21:04:31,0	iCPZ	-	c
	PP	21:07(22)	eLPZ	-	-
	(S)	21:14:20	eLPZNE	-	-
	LR	21:28,3	eLPZNE	-	-
	M1	21:34,5	LPZ	24	-
	M2	21:39,0	LPZ	19	-
	M3	21:44,5	LPZ	16	-
	U.S.C.G.S.: Epicentre: 29,6 N; 81,0 E (Nepal)				
	h = 9 km	H = 20:52:13,5	Mag: 5,9 (C.G.S.)		
		Δ=77,5º			
17	P	15:21:42	ez	-	-
	S	15:23:51,(5)	ez	-	-
	Lg	15:24:40	ez;eZ	0,8	-
	Epicentre: 7,2 S; 24,0 E (Congo)				
	H = 15:18:45	Mag: 4,1 (BUL)	Δ=1300 km		
17	P	17:53:30,0	iCPZ	-	d
	PcP	17:53:37,5	iCPZ	-	c
	(pP)	17:53:57,5	iCPZ	-	d
	U.S.C.G.S.: Epicentre: 22,8 S; 68,9 W (Nord du Chili)				
	h = 105 R km	H = 17:41:20,4	Mag: 5,1 (C.G.S.)		
		Δ=78º			
18	P	00:36:13	ez;eZ	-	-
	LQ	00:41,7	eZ	-	-
	LR	00:43,7	eZ	-	-
	M	00:46,3	Z	1	-
		Δ= 27º			
18	P	05:11:03,5	iCPZ(6,0)	0,8	-
	U.S.C.G.S.: Epicentre: 49,9 N; 77,7 E (Kazakh - U.R.S.S.)				
		H = 04:57:57,8	Mag: 5,9 (C.G.S.)		
		Δ = 85º			
20	P	12:37:44,0	iz(44)iZ	0,8	d
	(PcP)	12:37:54,0	iz	-	c
	pP	12:39:45,5	iz;iZ	-	c
	PP	12:40:32,0	iz;iZ	-	d
	S	12:46:17	ez;eZ	-	-
	U.S.C.G.S.: Epicentre: 26,1 S; 63,2 W (Argentine)				
	h = 589 R km	H = 12:26:55,0	Mag: 5,7 (C.G.S.)		
		Δ=73º			
20	PKP	15:49:36	ez;eZ	-	-
	PP	15:51:50,5	ez;eZ	-	-
	Nevada U.S.A. Explosion nucléaire H = 15:30(00)				
21	PKP	09:11:11,5	iz	-	-
	(SKP)	09:14:33,0 ?	eiz;iZ	-	c, d
	R				
	M1	10:02,0	LPZ	22	-
	M2	10:12,5	LPZ	18	-
	M3	10:17,5	LPZ	16	-
	U.S.C.G.S.: Epicentre: 20,0 S; 169,7 E (Iles Nouvelles Hébrides)				
	h = 245 km	H = 08:52:00,2	Mag: 5,6 (C.G.S.)		
		Δ= 136º			
21	L	12:26,5	LPZN	-	-
21	P	13:05:28,0	eiCPZN	-	-
	pP	13:05:35,2	iCPZ	-	d
	(PPP)	13:07,2	eLPZ	-	-
	sS	13:11:24	LPN	-	-
	LQ	13:13,6	LPE	-	-
	LR	13:15,4	LPZN	-	-
	M	13:17,0	LPZ	22	-
	U.S.C.G.S.: Epicentre: 52,1 S; 14,9 E (Sud - ouest Afrique)				
	h = 33 R km	H = 12:58:19,1	Mag: 4,8 (C.G.S.)	Δ=37º	

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Dez. 21	Lg	16:16(20)	C PNE	-	-
	Epicentre: 7,4 S; 30,9 E (Tanzanie) H = 16:06:48 Mag: 3,9 (BUL)				
21	L	22:13,8	LPZ	-	-
	Séismedistant				
21	P	22:22:02,0	eiCPZ	-	d
	-	22:22:06,2	iCPZ	-	c
	U.S.C.G.S.: Epicentre: 29,4 N; 81,0 (Nepal - Inde) h = 31 km H = 22:10:58,8 Mag: 5,4 (C.G.S.) △=77º				
22	P	11:20:45,0	iCPZ	-	d
	Séisme distant				
22	S*	11:31:26	eCPN	-	-
	Lg	11:32:30	iCPZ(5,0)N	1,0	-
	Epicentre ca 13 S; 26 E (Zambie) H = 11:26:22 Mag: 3,7 (BUL) △=0,0				
23	(PKIKP)	01:29:52,0	iCPZNE	-	-
	(PKP1)	01:29:54,0	iCPZ	-	-
	U.S.C.G.S.: Epicentre: 17,9 S; 178,6 W (Iles Fidji) h = 575 R km H = 01:11:15,6 Mag: 5,0 (C.G.S.) △= 145º				
23	(PKIKP)	16:09:19	eCPZ	-	-
	PKIKP	16:09:29,7	iCPZ(19) NE iLPZ	0,9	d
	-	16:09:40,2	iCPZ	-	d
	-	16:09:50,7	iCPZ	-	d
	pP	16:11:42,2	iCPZE;eiLPZNE	-	d,WE
	SKP	16:12:51,5	iCPZE;iLPNE	-	d
	PKS2	16:13:00,5	iCPN;iLPZ	-	NS
	PKS1	16:13:20,5	iCPN	-	NS
	SKS2	16:17,0	eLPE	-	-
	(SKKS)	16:19,0	eLPE	-	-
	SP	16:21,6	eLPZ	-	-
	SPP	16:23,4	eLPZ	-	-
	-	16:24:48	iLPN		SN
	(SS)	16:29:43	iLPZE	-	c,EW
	-	16:32:00	eLPNE	-	NS,EW
	(SSS)	16:34,4	eLPNE	-	-
	LQ	16:44:26	LPNE	20	-
	M	16:47,0	LPN	-	-
	-	16:49:30	iLPE	28	WE
	LR	16:51(52)	eLPZ	-	-
	M1	17:02,5	LPZ	22	-
	M2	17:05,5	LPZ	19	-
	M3	17:09,5	LPZ	18	-
	LWR	17:38,0	LPZ	-	-
23	M1	17:40,5	LPZ	27	-
	M2	17:43,0	LPZ	24	-
	M3	17:45,5	LPZ	22	-
	M4	17:55,5	LPZ	20	-
	U.S.C.G.S.: Epicentre: 7,1 S; 148,3 E (Région Nouvelle Guinée) h = 49 km H = 15:50:20,4 Mag: 6,4 (C.G.S.) △= 129,5º				
24	PKIKP	22:48:05	eCPZ	-	-
	SKP	22:51:22,8	iCPZNE	-	c,SN
	R	23:34,7	eLPZN	-	-
	U.S.C.G.S.: Epicentre: 59,9 N; 153,4 W (Sud Alaska) h = 113 R km H = 22:28:59,6 Mag: 5,1 (C.G.S.) △= 134º				
25	(PS)	05:58:45	eLPE	-	-
	LR	06:06,4	eLPZNE	-	-
	U.S.C.G.S.: Epicentre: 14,1 N; 53,8 E (Mer Arabique) h = 33 R km H = 05:42:45 Mag: 5,2 (C.G.S.) △= 48º				

Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes(μ)	Périodes (s)	Sens du mouvement
1966 Dez. 25	PKP	13:01:05,5	eICPZ	-	d
	-	13:01:47,2	ICPZ	-	d
	U.S.C.G.S.: Epicentre: 18,7 S; 174,8 W (Iles Tonga) h = 175 km H = 12:41:44* Mag: 4,1 (C.G.S.) △ = 145º				
26	L	00:18,4	eLPZN	-	-
	U.S.C.G.S.: Epicentre: 51,8 N; 176,1 E (Iles Aléoutiennes) h = 47 km H = 23:03:22,8 Mag: 4,8 (C.G.S.) △ = 142º				
26	LR	04:52,0	eLPZNE	-	-
	U.S.C.G.S.: Epicentre: 38,7 N; 40,9 E (Turquie) h = 55 km H = 04:21:02 Mag: 4,8 (C.G.S.) △ = 59º				
26	L	21:15,0	eLPZE	-	-
	U.S.C.G.S.: Epicentre: 10,8 S; 79,0 W (Prochain du Pérou) h = 39 km H = 20:29:45 Mag: 4,6 (C.G.S.) △ = 90º				
27	PKIKP	01:41:20,4	eICPZN	-	d
	U.S.C.G.S.: Epicentre: 37,1 N; 141,0 E (Honshu - Japon) h = 60 km H = 01:22:17,9 Mag: 5,5 (C.G.S.) △ = 128,5º				
27	LR	22:12,2	eLPZN	-	-
	M	22:40,0	LPZ	24	-
	U.S.C.G.S.: Epicentre: 13,2 N; 88,8 W (S. Salvador) h = 66 R H = 21:22:14,8 Mag: 5,5 (C.G.S.) △ = 105,5º				
29	P	11:38:50,5	eICPZNE	-	c
	-	11:39:03,5	iCPZN	-	c
	R	12:04,3	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 28,9 S; 71,0 W (Chili) h = 24 km H = 11:26:49,8 Mag: 5,0 (C.G.S.) △ = 79º				
29	SP ou PS	12:24,8	eLPZNE	-	-
	SS	12:30,8	eLPN	-	-
	SSP ou PSS	12:31,4	eLPZE	-	-
	LQ	12:42,6	eLPNE	-	-
	LR	12:47,0	eLPZNE	-	-
	M_1	12:48,0	LPZ	26	-
	M_2	12:50,6	LPZ	22	-
	M_3	12:58,2	LPZ	17	-
	U.S.C.G.S.: Epicentre: 32,6 S; 111,8 W (Ile Ester) h = 33 R km H = 11:56:23,0 Mag: 4,9 (C.G.S.) △ = 109,5º				
29	P	13:04:30,0	iCPZNE	-	c
	(PcP)	13:04:46,3	eICPZ	-	d
	pP	13:04:54,2	eCPZ	-	-
	U.S.C.G.S.: Epicentre: 32,2 S; 71,6 W (Chili) h = 69 km H = 12:52:36* Mag: 4,6 (C.G.S.) △ = 80º				
29	(S)	16:58:10	eCPZN	-	-
	Lg	16:59:51,0	eCPZNE	-	-
	Epicentre Ca 00º; 26º E (République du Congo) H = 16:48:(10) Mag: 4,1 (BUL)				
29	PP	22:35:29	eCPZ	-	-
	SP	22:44:50	eLPZNE	-	-
29	SS	22:50,7	eLPNE	-	-
	SSP	22:51,3	eLPZ	-	-
	LQ	23:02,5	eLPNE	-	-
	LR	23:08,0	eLPZNE	-	-
	M_1	23:10,0	LPZ	26	-
	M_2	23:20,5	LPZ	19	-
	U.S.C.G.S.: Epicentre: 32,8 S; 111,7 W (Ile Ester) h = 33 R km H = 22:16:22,7 Mag: 5,4 (C.G.S.) △ = 109,5º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Dez. 29	PKP	23:26:54,3	eICPZE	-	c
	U.S.C.G.S.: Epicentre: 38,4 S; 175,6 E (Nouvelle Zelândie) h = 171 km H = 23:08:47,4 Mag: 5,0 (C.G.S.) △ = 113º				
30	PKIKP	01:18:51,6	ICPZ(6)NE	1,0	d
	U.S.C.G.S.: Epicentre: 17,8 S; 178,9 E (Iles Fidji) h = 658 R km H = 01:00:25,4 Mag: 5,0 (C.G.S.) △ = 145º				
30	P	10:05:35,5	eICPZNE	-	d,EW
	R	09:31,0	eLPZ	-	-
	M_1	09:36,3	LPZ	21	-
	M_2	09:40,2	LPZ	18	-
	Séisme distant (Chili) H = 09:53:(20)				
30	P	12:07:53,3	ICPZNE	-	c
	(pP)	12:07:56,8	iCPZ	-	c
	PcP	12:08:03,1	iCPZ	-	c
	R	?	eLPZ	-	-
	M	12:38,0	LPZ	-	-
	U.S.C.G.S.: Epicentre: 25,6 S; 70,7 W (Chili) h = 19 km H = 11:55:50 Mag: 4,9 (C.G.S.) △ = 79º				
30	P	12:42:27,1	iCPZNE	-	d
	pP	12:42:36	eCPZ	-	-
	R	?	LPZ	-	-
	M	13:13,0	LPZ	-	-
	U.S.C.G.S.: Epicentre: 25,3 S; 70,7 W (Chili) h = 33 R km H = 12:30:24,2 Mag: 4,4 (C.G.S.) △ = 79º				
30	PKIKP	13:33:15,3	eICPZNE	-	d
	U.S.C.G.S.: Epicentre: 17,9 S; 178,9 E (Iles Fidji) h = 670 R H = 13:14:51* Mag: 4,2 (C.G.S.) △ = 145º				
31	LQ	15:47,7	eLPN	-	-
	LR	15:49,6	eLPZ	-	-
	U.S.C.G.S.: Epicentre: 0,5 N; 25,0 W (Atlantique - Central) h = 33 R H = 15:30:30* Mag: 4,7 (C.G.S.) △ = 42º				
31	P. dif.	18:40:11	eLPZ	-	-
	PKJKP	18:42:24	eLPZ	-	-
	PKIKP	18:42:31	eCPZNE	-	-
	(PP')	18:42:51,0	iLPZNE	-	d
	SKP	18:45:59,9	iCPZ	-	c
	-	18:43:22,0	iz	-	d
	-	18:43:25,0	iz	-	c
	(pP)	18:45:42,5	iZ	12	c
	(SKS)	18:50:07,5	eZ	-	-
	(PPS)	18:59:(00)	Z	-	-
	LR	?			
	M_1	19:05,5	Z	27	-
	M_2	19:09,5	Z	22	-
	M_3	19:15,5	Z	19	-
	M_4	19:27,3	Z	16	-
	U.S.C.G.S.: Epicentre: 11,8 S; 166,5 E (Iles Sainte Croix) h = 33 R H = 18:23:03,9 Mag: 7,5 (PAS); 7,4 - 7,8 (BRK); 7,7 (C.G.S. Surf. Wave) △ = 142º 13'				
31	PKIKP	19:12:39,(5)	eCPZNE	-	-
	-	19:12:46,7	iCPZ	-	d
	PP	19:15:57	eCPZ	-	-
	SKP	19:15:25,2	iCPZ	-	d
	U.S.C.G.S.: Epicentre: 11,6 S; 165,9 E (Iles Sainte Croix) h = 33 R H = 18:53:13* Mag: 5,0 (C.G.S.) △ = 142º				

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Date	Phases	Heure T.M.G.	Composantes, nature du mouvement et amplitudes (μ)	Périodes (s)	Sens du mouvement
1966 Dez. 31	PKIKP	19:57:58,7	ICPZ	-	c
	-	19:58:03,0	ICPZ	-	d
	(SKP)	20:01:41,0	ICPZ	-	d

U.S.C.G.S.: Epicentre: 11,6 S; 166,0 E (Iles Sainte Croix)

h = 33 R km H = 19:38:29,9 Mag: 5,1 (C.G.S.)

Δ = 142º

31.	PKIKP	22:34:40	eCPZN	-	-
	-	22:34:49,4	ICPZE	-	d
	PP	22:37:45,5	ICPZ	-	c
	SKP	22:38:12,0	ICPZ	-	c
	SP	22:48,5	ICPZ	-	-
	SPP	22:50,9	eCPZ	-	-
	LR	22:22,5	eCPZ	-	-
	M_1	22:28,0	CPZ	28	-
	M_2	22:32,7	CPZ	20	-
	M_3	22:42,5	CPZ	16	-

U.S.C.G.S.: Epicentre: 11,3 S; 164,8 E (Iles Sainte Croix)

h = 33 R H = 22:15:14,0 Mag: $7\frac{1}{4}$ - $7\frac{1}{2}$ (PAS) - 7 - 7,6 (BRK); 7,3 (C.G.S. Surf Wave)

Δ = 141,5º

IMPRESSOS