

	e PP	Z	12:12:38.3									
	e S	N	12:19:54.6									
	e PS	Z	12:20:52.4									
	e SS	N	12:25:41.0									
	e SSS	N	12:29:07.9									
	e SSSS	N	12:32:05.6									
	e L	Z	12:55:38.9			20.0	4174		5.8			
MOX	e P	Z	12:09:29.4	85.7	93.0	1.5	61		5.5			
FUR	e P	Z	12:09:29.9	85.8	92.5							
GRA1	e P	Z	12:09:29.8	85.9	92.6	1.1	71		5.7			
	e pP	Z	12:09:41.0									
	e sP	Z	12:09:45.2									
	e S	N	12:20:05.2									
	e SS	N	12:25:59.1									
	e L	Z	12:54:05.2			19.6	3519		5.8			
CLZ	e P	Z	12:09:34.0	86.5	92.1	1.3	73		5.6			
BSEG	e P	Z	12:09:33.8	86.6	92.1	1.4	123		5.8			
STU	e P	Z	12:09:37.3	87.2	91.0							
BFO	e P	Z	12:09:39.1	87.8	90.3							
IBBN	e P	Z	12:09:40.8	88.1	90.0	1.3	132		6.0			
BUG	e P	Z	12:09:42.4	88.4	89.6							
WLF	e P	Z	12:09:46.1	89.2	88.7							

Date Origin Time Lat Long Depth mb Ms ML Source
 2000/09/01

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e PKP Z 12:44:01.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2000/09/02

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e PKP Z 00:44:27.5

Date Origin Time Lat Long Depth mb Ms ML Source
 2000/09/02 01:43:37.3 10.960N 83.950W 33.0N 5.2 4.2 SZGRF
 2000/09/02 01:43:33.6 9.760N 83.850W 33N 4.5 NEIC
 Costa Rica

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 01:56:09.6 85.8 280.2 1.1 16 5.2
 e L Z 02:29:19.0 21.1 108 4.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/02	05:17:4.2	43.570N	12.930E	10.0G			4.5	SZGRF
2000/09/02	05:16:58.6	43.333N	13.179E	10G	4.8			NEIC

Central Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z 05:18:17.4	5.0	163.9					
GEC2	e Pn	Z 05:18:22.5	5.5	184.0					4.6
	e Sn	N 05:19:24.3							
WET	e Pn	Z 05:18:25.8	5.8	177.8					4.7
	e Sn	N 05:19:27.8							
BFO	e Pn	Z 05:18:28.1	6.0	144.2					4.4
	e Sn	N 05:19:30.7							
GRA1	e Pn	Z 05:18:34.0	6.5	167.3					4.7
	e Sn	N 05:19:43.4							
MOX	e Pn	Z 05:18:46.4	7.4	171.1					4.7
	e Sn	N 05:20:06.0							
BRG	e Pn	Z 05:18:50.8	7.6	184.2					4.5
	e Sn	N 05:20:09.3							
WLF	e Pn	Z 05:18:55.7	8.0	140.0					4.2
	e Sn	N 05:20:20.3							
CLL	e Pn	Z 05:18:56.1	8.0	179.1					4.4
	e Sn	N 05:20:20.8							
CLZ	e Pn	Z 05:19:06.1	8.7	166.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/02	06:58:14.2	73.270N	4.140E	33.0N	4.7	3.9		SZGRF
2000/09/02	06:58:13.6	72.651N	3.955E	10G	4.8	3.8		NEIC

Greenland Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:03:24.4	23.2	354.5	1.5	41	4.7		
	e L	Z 07:13:19.4			19.3	360		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/02	10:19:16.2	17.660S	176.870W	607.1				GRSN
2000/09/02	10:19:13.5	17.814S	178.394W	588D	5.1			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 10:37:47.6	145.5	16.7					
	e pPKPbc	Z 10:40:00.6							

./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

4

GRA1 e PKP Z 10:37:53.1 147.2 17.1
e 10:40:11.1

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/02 11:11:43.1 21.901S 174.650W 33N 4.9 4.6 ML NEIC
Tonga Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 11:31:38.1 151.8 11.6

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/02 11:44:29.1 44.790N 8.370E 10.0G 3.1 SZGRF
Northern Italy

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
BFO e Pn Z 11:45:24.2 3.5 179.5 3.1
e Sn N 11:46:04.8
WET e Pn Z 11:45:48.1 5.3 216.9
e Sn N 11:46:48.5
GEC2 e Pn Z 11:45:49.9 5.5 224.0
e Sn N 11:46:50.1
MOX e Sn N 11:47:09.8 6.2 201.7

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/02 17:02: 9.5 21.170S 177.930W 687.7 GRSN
2000/09/02 17:02:20.0 19.846S 179.193W 684D 5.5 NEIC
Fiji Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
CLL e PKPdf Z 17:20:46.2 148.7 19.9 1.3 74
e PKPbc Z 17:20:50.1 0.9 705
e PKPab Z 17:20:54.2 0.9 300
e pPKPbc Z 17:23:23.2
e PP Z 17:24:18.4
e sPP Z 17:27:42.4
e SKKP Z 17:31:10.1 1.1 10
e SS E 17:42:34.1
GRA1 e PKPdf Z 17:20:49.3 149.0 19.3
e PKPbc Z 17:20:55.6
e PKPab Z 17:21:02.7
e 17:23:29.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/02	20:06:45.7	4.880S	67.870E	33.0N	5.3			SZGRF
2000/09/02	20:06:36.4	5.454S	68.607E	10G	4.9	4.8		NEIC

Carlsberg Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:18:13.5	74.1	119.3	1.0	26	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/03	08:21:24.6	21.430S	176.620W	384.3				GRSN
2000/09/03	08:21:23.7	20.490S	177.842W	364D	5.2			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 08:40:24.5	149.2	17.7					
	i PKPbc	+ Z 08:40:28.4			1.0	149			
	e PKPab	Z 08:40:31.8			1.2	106			
	e pPKPdf	Z 08:41:56.4							
	e pPKPbc	Z 08:42:04.4							
	i SKP	Z 08:43:32.7			1.3	65			
GRA1	e PKPdf	Z 08:40:28.3	149.9	17.1					
	e PKPbc	Z 08:40:33.2							
	e PKPab	Z 08:40:40.0							
	e pPKP	Z 08:42:05.5							
	e PP	Z 08:44:06.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/03	08:36:47.5	39.910N	122.090W	33.0N	5.2	4.8		SZGRF
2000/09/03	08:36:30.0	38.377N	122.413W	9	4.8	4.9		NEIC

Northern California, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:49:01.6	82.9	325.1	1.7	35	5.2		
	e L	Z 09:25:02.4			19.4	424		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/03	11:01:35.0	43.300N	145.490E	49.0	5.7	4.9		SZGRF
2000/09/03	11:01:28.8	43.031N	146.777E	33N	5.3	4.7		NEIC

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

6

GRA1	e P	Z	11:13:33.8	79.5	31.4	1.1	79	5.7			
	e pP	Z	11:13:49.0								
	e L	Z	11:51:15.6			21.6	585	4.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/04	17:25:37.8	2.240N	100.240E	33.0N	5.3			SZGRF
2000/09/04	17:25:59.7	4.152N	94.932E	33N	4.9	4.7		NEIC

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:38:23.3	82.8	92.1	1.1	16	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05	00:32:50.5	15.970N	71.410E	33.0N	5.5			SZGRF

Arabian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 00:42:34.3	57.0	104.2					
BRG	e P	Z 00:42:37.0	57.3	105.7	0.8	36	5.4		
WET	e P	Z 00:42:37.6	57.6	103.7					
RUE	e P	Z 00:42:38.9	57.9	106.5	1.1	57	5.5		
CLL	e P	Z 00:42:41.1	58.0	105.1	1.2	55	5.5		
FUR	e P	Z 00:42:43.1	58.4	101.7	1.9	83	5.4		
MOX	e P	Z 00:42:46.1	58.7	103.5	0.8	28	5.4		
GRA1	e P	Z 00:42:45.5	58.7	102.6	1.9	170	5.8		
	e PcP	Z 00:43:34.1							
	e PP	Z 00:45:06.6							
CLZ	e P	Z 00:42:52.6	59.7	103.1	0.6	28	5.5		
STU	e P	Z 00:42:53.8	59.8	100.4	1.4	52	5.4		
BSEG	e P	Z 00:42:56.2	60.3	104.2	1.2	47	5.4		
BFO	e P	Z 00:42:56.7	60.3	99.4					
IBBN	e P	Z 00:43:04.6	61.4	101.1	1.4	96	5.4		
WLF	e P	Z 00:43:09.0	62.0	98.4	1.5	30	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05	08:42:59.5	22.011S	174.543W	33N	5.2	5.0		NEIC

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:02:53.8	151.9	11.4					
	e PKPbc	Z 09:03:02.9							
	e PKPab	Z 09:03:15.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05	15:43:32.8	21.893S	174.482W	33N	5.0	4.7		NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 16:03:27.2	151.8	11.3					
	e PKPbc	Z 16:03:34.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:18:51.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05	17:06:32.1	21.822S	179.512W	597D	4.5			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 17:25:11.6	150.9	20.8					
	e PKPbc	Z 17:25:18.8							
	e PKPab	Z 17:25:29.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05	17:48:20.1	49.970N	178.170W	33.0N	5.4	4.6		SZGRF
2000/09/05	17:48:26.1	51.487N	178.435W	33N	5.4	4.6		NEIC

South of Aleutian Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:00:26.6	78.5	6.1	0.9	47	5.4		
	e L	Z 18:39:28.9			20.7	318		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:47:09.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/05	23:54:48.7	48.130N	16.150E	10.0G				SZGRF
2000/09/05	23:54:42.5	47.897N	16.536E	10G				NEIC

Austria

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 23:55:19.3	2.1	115.7					
	e Sg	E 23:55:44.7							
WET	e Pn	Z 23:55:28.2	2.7	115.9					
	e Sg	N 23:56:04.0							
BRG	e Sg	N 23:56:26.6	3.4	149.4					
FUR	e Sg	E 23:56:32.6	3.5	92.4					
GRA1	e Sg	E 23:56:43.8	3.9	115.1					
CLL	e Sg	N 23:56:49.2	4.1	144.8					
MOX	e Sg	E 23:56:53.0	4.2	128.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/06	01:37:15.5			N				SZGRF

Lomonosov Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:44:25.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/06	07:20:39.8	4.456S	101.946E	33N	5.1	4.7		NEIC

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:33:56.0	93.9	92.3					
	e L	Z 08:21:54.2			21.9	96		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/06	17:19: 2.0	46.150N	151.490E	17.4	5.3			SZGRF
2000/09/06	17:19:21.6	47.350N	151.548E	153*	4.8			NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:31:00.7	77.1	26.3	1.1	29	5.3		
	e pP	Z 17:31:05.7							

./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

11

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/09	10:00:33.5	22.744S	175.360W	33N	5.1	5.3		NEIC

North Pacific Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 10:20:23.6			0.9	18			
	e PKPab	Z 10:20:31.1			0.8	29			
GRA1	e PKP	Z 10:20:39.1	152.6	13.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/09	11:48:38.4	36.540N	142.620E	33.0N	5.2			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:01:04.1	83.7	37.3	0.8	13	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/09	12:18:10.1	35.8S	102.8W			5.2		NEIC

Southeast of Easter Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z 12:37:26.2			2.3	46			
	e PP	Z 12:39:51.3							
	e	12:41:05.9							
	e PS	Z 12:50:11.0							
	e PPS	Z 12:51:46.3							
	e SS	E 12:57:41.4							
	e SSS	E 13:02:26.1							
	e L	Z 13:25:32.8			22.0	1364		5.6	
GRA1	e PKP	Z 12:37:28.9							
	e	12:40:52.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/09	20:47:21.5	36.540N	85.940E	33.0N	4.9			SZGRF

Southern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:56:41.0	53.8	73.9	1.0	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

12

2000/09/10	03:16:32.1	17.900N	119.540E	33.0N	4.9	5.2		SZGRF
2000/09/10	03:16:12.6	13.623N	119.942E	33N	5.2	5.1		NEIC

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:29:17.6	91.3	67.0	1.2	7	4.9		
	e S	N	03:40:16.7							
	e SS	N	03:46:22.4							
	e L	Z	04:12:30.4			20.1	871		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/10	04:06:34.9	44.730N	9.520E	10.0G			3.3	SZGRF
2000/09/10	04:06:31.1	44.427N	9.713E	10G				NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	04:07:31.8	3.9	196.7					
BFO	e Pn	Z	04:07:32.3	4.0	165.8					3.2
	e Sn	N	04:08:14.5							
STU	e Pn	Z	04:07:37.0	4.4	175.1					3.5
	e Sn	N	04:08:22.3							
WET	e Pn	Z	04:07:48.6	5.2	205.8					3.3
	e Sn	N	04:08:44.6							
GEC2	e Pn	Z	04:07:48.7	5.2	213.3					3.3
	e Sn	N	04:08:46.9							
MOX	e Pn	Z	04:08:04.6	6.3	192.4					
	e Sn	N	04:09:12.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/10	08:26:12.3	22.870S	177.320W					GRSN

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc	- Z	08:46:00.6	150.5	19.6	0.8	25			
	e PKPab	Z	08:46:05.5			0.7	12			
GRA3	e PKP	Z	08:46:05.1							
	e		08:46:13.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/10	08:54:44.0	23.450N	121.820E	61.3	5.7	6.2		GRSN
2000/09/10	08:54:38.7	21.740N	122.840E	60.3	5.7	6.1		SZGRF

2000/09/10 08:54:45.8
Taiwan region

23.958N 121.436E 33N 5.7 5.6 NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	09:07:00.8	81.2	61.8					
BRG	e P	Z	09:07:04.0	81.9	61.7	2.1	98	5.7		
CLL	i P	+ Z	09:07:05.4	82.8	61.1	2.0	101	5.7		
	e pP	Z	09:07:22.4							
	e PP	Z	09:10:18.3							
	e S	E	09:17:16.5							
	e PS	Z	09:18:11.0							
	e SS	E	09:22:44.7							
	e L	Z	09:47:34.2			18.0	16951		6.5	
BSEG	e P	Z	09:07:06.9	82.3	59.3					
GEC2	e P	Z	09:07:09.8	83.0	61.3	2.1	76	5.5		
MOX	e P	Z	09:07:11.3	83.3	60.0	2.0	82	5.5		
WET	e P	Z	09:07:11.3	83.3	60.7	2.0	103	5.6		
CLZ	e P	Z	09:07:11.8	83.3	59.2	2.1	161	5.8		
GRA1	i P	Z	09:07:14.9	84.0	59.6	1.9	135	5.7		
	e pP	Z	09:07:32.1							
	e sP	Z	09:07:38.4							
	e PP	Z	09:10:28.8							
	e S	N	09:18:21.8							
	e SS	N	09:23:29.1							
	e L	Z	09:48:56.6			20.1	7804		6.1	
IBBN	e P	Z	09:07:17.1	84.4	57.2	2.2	192	5.8		
FUR	e P	Z	09:07:18.8	84.7	59.5	1.9	189	6.1		
BUG	e P	Z	09:07:20.5	85.2	56.8	1.9	116	5.9		
TNS	e P	Z	09:07:20.8	85.2	57.6	1.9	74	5.7		
STU	e P	Z	09:07:22.6	85.6	58.0					
BFO	e P	Z	09:07:25.3	86.3	57.4					
WLF	e P	Z	09:07:28.4	86.7	55.9	1.1	31	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/10 17:17:40.4 N SZGRF
Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:27:13.8							

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/10 19:06:15.5 1.116S 129.374E 33N 5.9 6.0 NEIC
Halmahera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLL	e Pdiff	Z	19:20:30.4				1.6	18			
	i PKPdf	Z	19:24:37.7				1.0	12			
	e PP	Z	19:24:56.1								
	e PPP	Z	19:27:18.8								
	e PPPP	Z	19:28:59.0								
	e SKSac	E	19:31:11.1								
	e Sdiff	N	19:32:33.9								
	e PS	Z	19:34:12.9								
	e PPS	Z	19:35:12.1								
	e SS	E	19:40:16.5								
	e SSS	E	19:44:16.1								
	e L	Z	20:12:11.6				22.0	4516		6.0	
GRA1	e PKP	Z	19:20:37.3	108.7	68.5						
	e PP	Z	19:25:07.0								
	e L	Z	20:14:32.0				20.8	4615		6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2000/09/10											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e PKP	Z 20:03:56.6								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2000/09/10											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e PKP	Z 21:02:47.4								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2000/09/10	21:37:46.9	1.710S	13.160W	29.5	5.2	4.8		SZGRF			
2000/09/10	21:37:42.9	1.936S	12.958W	10G	5.2	5.0		NEIC			
North of Ascension Island											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e P	Z 21:47:19.6	55.7	209.7	1.6	37	5.2			
		e pP	Z 21:47:27.5								
		e sP	Z 21:47:31.5								
		e PP	Z 21:49:20.8								
		e S	N 21:55:03.8								
		e L	Z 22:11:16.8				20.5	776		4.8	

./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

15

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/10	22:49:42.8	33.240N	140.760E	33.0N	5.4	5.2		SZGRF
2000/09/10	22:49:45.7	34.577N	139.168E	10G	5.1	4.9		NEIC

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:02:19.1	84.0	40.8	1.4	42	5.4		
	e PP	Z 23:05:35.8							
	e L	Z 23:44:15.1			19.2	965		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/10	23:09:08.2	20.114S	174.011W	33N	4.8			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:28:55.0	150.1	9.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/10	23:57: 3.5	12.450N	85.610W	82.3	4.9	4.9		SZGRF
2000/09/10	23:56:58.8	11.452N	86.327W	77D	5.3			NEIC

Nicaragua

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:09:29.2	86.1	283.1	1.3	9	4.9		
	e pP	Z 00:09:52.1							
	e sP	Z 00:09:59.1							
	e L	Z 00:43:34.2			20.8	515		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/11	12:24:08.6	20.574S	169.508E	33N	4.7	4.3		NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:43:47.2	146.2	38.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/11	16:54:56.5	35.770N	44.920E	33.0N				SZGRF
2000/09/11	16:54:57.1	35.710N	45.170E	81	4.6			NEIC

Iraq

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 17:00:45.3 28.3 106.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/11	17:17:53.5	15.804S	173.733W	116D	6.0			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPdf	- Z 17:37:14.5			0.7	82			
	e PP	Z 17:40:29.2							
	e SKP	Z 17:40:39.2							
	e SS	E 17:58:57.0							
	e SSS	E 18:04:33.1							
	e L	Z 18:30:56.5			22.0	639		5.3	
GRA1	i PKPdf	Z 17:37:20.5	145.9	8.5					
	e pPKPdf	Z 17:37:51.7							
	e PP	Z 17:40:46.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	00:27:44.1	34.400N	99.610E		5.9	6.6		GRSN
2000/09/12	00:27:58.0	33.650N	99.210E	33.0N	5.6	6.7		SZGRF
2000/09/12	00:28:02.0	35.373N	99.343E	33N	5.7	6.3		NEIC

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 00:38:08.3	59.7	70.4	0.9	79	5.5		
RUE	e P	Z 00:38:10.9	60.2	69.6	0.9	40	5.6		
BRG	e P	Z 00:38:13.2	60.6	68.8	0.8	38	5.7		
CLL	i P	+ Z 00:38:14.9	61.9	69	1.1	75	5.8		
	e PP	Z 00:40:31.0							
	e PPP	Z 00:42:01.3							
	e S	E 00:46:29.1							
	e SS	E 00:50:51.8							
	e SSS	N 00:53:18.2							
	e L	Z 01:05:42.9			22.0	35149		6.5	
GEC2	e P	Z 00:38:19.4	61.5	67.6	1.0	25	5.3		
BSEG	e P	Z 00:38:19.8	61.6	68.0	0.8	74	5.8		
WET	e P	Z 00:38:21.9	61.9	67.3	0.9	22	5.3		
MOX	e P	Z 00:38:23.0	62.1	67.2	1.0	27	5.3		
CLZ	e P	Z 00:38:24.6	62.3	67.0	0.9	87	6.0		
GRA1	e P	Z 00:38:27.3	62.7	66.5	0.9	72	5.9		
	e S	E 00:46:45.5							
	e SS	E 00:51:10.5							

	e L	Z	01:07:03.6				21.0	53276		6.7
FUR	e P	Z	00:38:31.9	63.3	65.8	0.9		92	6.0	
IBBN	e P	Z	00:38:34.4	63.6	65.5	0.9		39	5.6	
TNS	e P	Z	00:38:36.8	64.1	65.0	0.9		18	5.3	
BUG	e P	Z	00:38:37.9	64.3	64.8	1.0		50	5.7	
STU	e P	Z	00:38:38.0	64.3	64.8	0.9		49	5.8	
BFO	e P	Z	00:38:42.1	65.0	64.1	1.0		37	5.6	
WLF	e P	Z	00:38:47.3	65.7	63.3	0.9		62	5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	01:19: 1.7	33.210N	103.150E	33.0N				SZGRF
2000/09/12	01:19:22.4	35.615N	99.415E	33N	4.8			NEIC

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:29:48.3	62.6	66.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	01:55: 7.1	35.520N	100.870E	33.0N	5.5			SZGRF
2000/09/12	01:55:09.6	35.296N	99.197E	33N	4.9	5.1		NEIC

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:05:34.4	62.7	66.7	1.8	59	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	02:08:53.7	35.110N	99.490E	33.0N	4.8			SZGRF
2000/09/12	02:08:53.0	35.531N	99.388E	33N	4.7			NEIC

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:19:17.4	62.6	66.4	1.1	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	09:50:43.2	23.090S	179.060W	545.0G				GRSN
2000/09/12	09:50:50.7	22.654S	179.922W	545?	4.6			NEIC

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc	+ Z 10:09:40.0	150.3	22.8	0.6	29			

	e PKPab	Z	10:09:47.6				0.7	14	
GRA1	e PKPbc	Z	10:09:44.4	151.6	22.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	10:51:34.7	44.780N	10.850E	10.0G			3.8	SZGRF
2000/09/12	10:51:32.0	44.680N	10.864E	10G				NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	10:52:35.6	4.0	153.5					3.7
	e Sn	N	10:53:20.9							
GEC2	e Pn	Z	10:52:42.1	4.6	206.1					3.7
	e Sn	N	10:53:35.2							
WET	e Pn	Z	10:52:43.5	4.7	197.9					3.9
	e Sn	N	10:53:34.9							
MOX	e Pn	Z	10:53:01.2	6.0	185.1					3.8
	e Sn	N	10:54:06.5							
BRG	e Pn	Z	10:53:09.4	6.5	199.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	14:11:13.4	22.960S	176.840W					GRSN

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	14:31:09.5	150.6	18.7	0.9	30			
	i PKPab	+ Z	14:31:14.7			0.8	12			
GRA1	e PKPbc	Z	14:31:14.3							
	e PKPab	Z	14:31:23.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	16:27:24.6	5.463S	101.850E	33N	5.8	6.1		NEIC

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:40:34.7	92.9	95.0	1.8	52	5.7		
BRG	e P	Z	16:40:34.8	92.9	95.1	2.0	89	5.8		
RUE	e P	Z	16:40:36.0	93.2	94.9					
WET	e P	Z	16:40:37.3	93.5	94.4	2.5	107	5.8		
CLL	i P	- Z	16:40:37.9	93.5	94.3	1.1	14	5.3		
	e		16:40:50.6							
	e PP	Z	16:44:32.8							
	e SKSac	E	16:51:12.3							
	e S	N	16:51:51.8							

	e PS	Z	16:52:59.8								
	e L	Z	17:34:30.6			18.0	4275		5.9		
MOX	e P	Z	16:40:42.2	94.4	93.3	1.6	34		5.4		
GRA1	e P	Z	16:40:42.5	94.6	93.1	1.6	52		5.6		
	e S	N	16:51:50.6								
	e L	Z	17:33:03.1			19.9	6021		6.1		
CLZ	e P	Z	16:40:46.6	95.2	92.2	1.7	55		5.7		
BSEG	e P	Z	16:40:47.1	95.3	92.0	1.6	43		5.6		
BUG	e P	Z	16:40:54.8	97.1	89.8						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/12	16:50:47.8	7.030S	29.310E	33.0N	4.8			SZGRF
2000/09/12	16:51:18.1	2.280S	28.403E	10G	4.6			NEIC

Lake Tanganyika region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:00:43.7	54.0	158.6			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:45:34.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13	04:17: 3.4	27.830N	51.830E	33.0N	4.7			SZGRF
2000/09/13	04:17:04.1	27.769N	51.753E	33N	4.8	4.2		NEIC

Persian Gulf

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:24:16.8	37.8	110.2	0.9	15	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13	10:07:56.3			N				SZGRF
2000/09/13	10:08:01.0	42.687N	145.111E	33N	4.4			NEIC

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:20:05.8	79.2	32.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13	13:09:51.1	29.660N	53.330E	33.0N	5.0			SZGRF
2000/09/13	13:09:46.2	27.823N	51.702E	33N	5.1	4.4		NEIC

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:17:01.2	37.7	110.2	0.8	27	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13	15:11:58.9			N				SZGRF
2000/09/13	15:11:19.9	34.242N	95.137E	33N	4.7			NEIC

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:21:39.3	60.9	70.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13	17:23:32.0	39.540N	146.340E	35.8	5.3	4.7		SZGRF
2000/09/13	17:23:38.5	40.430N	143.213E	33N	4.7			NEIC

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:35:50.8	80.5	35.0			5.3		
	e pP	Z 17:36:01.1							
	e sP	Z 17:36:05.5							
	e L	Z 18:17:32.8			20.4	347		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/13								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:17:28.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/14	14:59:57.5	15.684S	179.782E	33N	5.7	6.2		NEIC

Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPdf	Z 15:19:28.6			1.7	47			
	e	15:19:34.5			2.0	181			

e PP	Z	15:22:34.6										
e PKS	Z	15:23:15.9										
e SKSac	Z	15:26:46.2										
e SS	E	15:41:08.9										
e SSS	E	15:46:19.5										
e L	Z	16:19:12.9						22.0	5277		6.3	
GRA1 e PKPdf	Z	15:19:32.3	144.7	19.3								
e PP	Z	15:22:48.3										
e L	Z	16:19:05.4						21.9	3272		6.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/14	17:33:27.9	22.422S	176.334W	104D	5.4			NEIC
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 17:53:05.7	152.1	15.1					
	e PKPbc	Z 17:53:12.9							
	e PKPab	Z 17:53:22.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/14								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 21:45:02.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/14	22:18:32.8	31.480S	61.660E	24.2	5.4	4.6		SZGRF
2000/09/14	22:18:31.6	33.923S	56.114E	10G	5.4	4.9		NEIC
South Indian Ocean								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:31:43.0	92.6	144.1	1.4	30	5.4		
	e pP	Z 22:31:50.1							
	e L	Z 23:18:38.2			18.4	179		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/15	02:41:32.5	45.040N	157.910E	33.0N	4.9			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:53:44.0	80.9	23.1	1.4	19	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/15	05:11:10.3	45.370N	150.770E	33.0N	5.1			SZGRF
2000/09/15	05:11:23.9	45.410N	147.897E	128D	4.7			NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:23:09.4	77.7	29.5	0.8	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/15	06:29:18.2	17.954S	174.539W	33N	4.7			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 06:48:59.9	147.9	10.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/15	21:53: 9.6			N				SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:05:25.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 11:16:57.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16	11:10:30.6			N				SZGRF

Myanmar-India border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:21:15.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2000/09/16

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 11:32:52.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16	17:26:24.8	30.180S	178.075W	63D	5.7			NEIC

Kermadec Islands, New Zealand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 17:46:15.2	159.3	23.2					
	e PKPab	Z 17:46:53.0							
	e L	Z 19:07:20.6			21.4	450		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16	17:45:14.7	78.710N	131.520E	33.0N	4.8			SZGRF
2000/09/16	17:45:17.6	78.999N	125.036E	10G	4.7			NEIC

East of Severnaya Zemlya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:53:41.8	45.7	14.1			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z 21:05:00.7							
	e PKPbc	Z 21:05:06.9							
	e PKPab	Z 21:05:15.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16	21:01:13.3			N				SZGRF

Hawaiian Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:14:50.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/16	23:04: 9.5	22.780N	122.800E	33.0N	5.2	5.1		SZGRF

./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

24

2000/09/16 23:04:13.3
Taiwan region

24.005N 122.415E 33N 5.2 4.8 NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:16:45.2	84.5	58.8	1.0	20	5.2		
	e L	Z 23:59:04.4			19.3	709		5.1	

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/17

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:52:19.0	87.8	203.7					

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/17 04:48:10.5 30.900S 14.620W 33.0N 4.7 SZGRF
Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:00:36.9	83.8	202.1					
	e L	Z 05:27:42.2			21.2	338		4.7	

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/17

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:49:25.0							

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/17

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:09:05.2							
	e	18:09:14.5							

Date Origin Time Lat Long Depth mb Ms ML Source
2000/09/17

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 21:11:57.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/17	21:19: 6.1	17.230N	93.650W	33.0N	5.0			SZGRF
2000/09/17	21:18:51.2	15.389N	94.952W	33N	4.3			NEIC

Chiapas, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:31:44.3	88.4	292.1	1.2	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/17	22:49:51.4	53.590N	176.330W	240.0				SZGRF
2000/09/17	22:50:03.9	52.637N	178.290W	205D	5.3			NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:01:39.7	77.4	5.9					
	e pP	Z 23:02:35.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/19	15:17:36.1			N				SZGRF
2000/09/19	15:19:12.0	38.317N	57.547E	33N	4.9	4.7		NEIC

Pakistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:26:04.4	34.6	91.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/19	20:20: 0.5	56.080N	155.070W	10.0G				SZGRF
2000/09/19	20:19:57.6	57.166N	154.304W	29	5.2	4.4		NEIC

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:31:34.3	72.5	351.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/19	22:23:01.9	29.289S	176.342W	33N	5.5	5.1		NEIC

Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:42:39.4	158.8	18.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/20	02:26:09.8	20.582S	178.045W	500G	4.5			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:45:04.5	150.0	17.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/20	05:30:15.1	47.400N	152.500E		5.6	5.3		GRSN
2000/09/20	05:30:33.4	47.730N	153.110E	33.0N	5.7	5.3		SZGRF
2000/09/20	05:30:23.9	46.478N	153.175E	33N	5.5	5.0		NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 05:42:05.7	75.1	27.6	1.2	125	5.8		
CLL	i P	+ Z 05:42:12.8	76.4	27.0	0.7	78	6.0		
	e	05:42:21.4							
	e S	E 05:51:55.7							
	e PS	Z 05:52:36.3							
	e SS	N 05:56:42.0							
	e SSS	N 06:00:41.4							
	e L	Z 06:19:13.2			18.0	1443		5.3	
BRG	e P	Z 05:42:13.7	76.5	27.5					
CLZ	e P	Z 05:42:14.7	76.6	25.3	1.7	181	5.9		
IBBN	e P	Z 05:42:15.4	76.9	23.7					
MOX	e P	Z 05:42:18.5	77.4	26.0					
GRA1	e P	Z 05:42:24.3	78.3	25.7	0.9	81	5.8		
	e L	Z 06:20:27.7			18.8	1377		5.3	
WET	e P	Z 05:42:24.6	78.4	26.7	1.1	46	5.5		
GEC2	e P	Z 05:42:24.2	78.4	27.2					
TNS	e P	Z 05:42:25.6	78.6	23.9					
FUR	e P	Z 05:42:31.4	79.7	25.6	0.9	57	5.6		
STU	e P	Z 05:42:31.9	79.7	24.3					
BFO	e P	Z 05:42:35.1	80.4	23.7	1.0	47	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/20	08:37:26.1	0.540S	79.360W	33.0N		4.9		SZGRF
2000/09/20	08:37:16.0	1.908S	80.472W	33N	5.5	4.8		NEIC

Ecuador

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e PKPdf Z 13:41:06.8 158.7 23.4
 e PKPab Z 13:41:43.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/22	18:22: 0.3	3.910S	101.330E	32.7	5.5	5.9		GRSN
2000/09/22	18:22: 8.1	4.410S	101.560E	33.0N	5.6	5.9		SZGRF
2000/09/22	18:22:02.8	4.997S	102.185E	33N	5.7	5.9		NEIC

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 18:35:13.2	92.8	94.4	1.7	59	5.6		
BRG	e P	Z 18:35:13.3	92.8	94.5	1.6	61	5.7		
RUE	e P	Z 18:35:14.3	93.0	94.3	1.5	88	5.9		
WET	e P	Z 18:35:15.5	93.3	93.8	1.5	40	5.5		
CLL	i P	- Z 18:35:15.8	92.0	93.7	1.6	38	5.5		
	e pP	Z 18:35:26.0							
	e PP	Z 18:38:51.2							
	e PPP	Z 18:40:56.7							
	e SKSac	E 18:45:41.6							
	e S	N 18:46:15.3							
	e PS	Z 18:47:25.9							
	e SS	E 18:52:33.8							
	e L	Z 19:22:06.6			22.0	4349		5.9	
MOX	e P	Z 18:35:19.5	94.2	92.7	1.4	25	5.5		
GRA1	e P	Z 18:35:21.2	94.4	92.5	1.5	53	5.6		
	e PP	Z 18:39:09.2							
	e S	N 18:46:27.6							
	e SS	E 18:52:46.9							
	e L	Z 19:25:09.2			20.5	4397		5.9	
CLZ	e P	Z 18:35:23.7	95.0	91.7	1.3	23	5.4		
BSEG	e P	Z 18:35:24.0	95.1	91.4	1.3	29	5.4		
TNS	e P	Z 18:35:28.9	96.2	90.3	1.5	34	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23	02:13:24.1	2.770N	33.670W	33.0N	5.4			SZGRF
2000/09/23	02:13:34.1	4.738N	32.665W	10G	5.1	5.1		NEIC

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:23:30.2	58.2	234.4	2.0	76	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

29

2000/09/23	02:17:45.2	3.680N	32.300W	33.0N	5.5	5.3		SZGRF
2000/09/23	02:17:44.1	4.287N	32.636W	10G	5.5	5.5		NEIC

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	02:27:25.3	56.2	231.9	1.9	92	5.5		
TNS	e P	Z	02:27:33.8	57.4	231.0	1.4	56	5.4		
FUR	e P	Z	02:27:35.3	57.7	234.9	1.6	202	5.9		
IBBN	e P	Z	02:27:40.8	58.4	229.3	1.2	76	5.6		
GRA1	i P	- Z	02:27:41.1	58.5	234.1	1.3	110	5.7		
	e S	E	02:35:51.9							
	e L	Z	02:51:15.4			19.2	2481		5.3	
WET	e P	Z	02:27:45.0	59.1	236.0	1.1	40	5.4		
MOX	e P	Z	02:27:46.8	59.3	234.0	1.7	118	5.6		
GEC2	e P	Z	02:27:47.4	59.4	237.0	1.3	61	5.5		
CLZ	e P	Z	02:27:47.5	59.4	232.2	1.6	64	5.4		
CLL	e P	Z	02:27:54.2	60.4	235.1					
BRG	e P	Z	02:27:56.1	60.6	236.2	1.4	61	5.2		
BSEG	e P	Z	02:27:55.8	60.7	231.2	1.1	81	5.5		
RUE	e P	Z	02:28:02.1	61.4	235.3	1.3	106	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23	03:47:20.8			N				SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:58:06.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23	04:05:33.8	14.960S	13.410W	33.0N	4.9			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:16:31.5	68.2	205.7	1.1	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23	04:23:47.0	52.190N	1.310W	10.0G			4.3	SZGRF
2000/09/23	04:23:45.7	52.280N	1.610W	13				NEIC

United Kingdom

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pn	Z	04:25:07.4	5.5	301.1					4.1
	e Sn	E	04:26:07.0							

./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

30

BUG	e Pn	Z	04:25:06.8	5.5	282.2							4.2
	e Sn	E	04:26:08.2									
IBBN	e Pn	Z	04:25:09.0	5.7	273.4							4.3
	e Sn	E	04:26:11.7									
TNS	e Pn	Z	04:25:21.0	6.6	292.0							4.3
	e Sn	N	04:26:32.6									
BSEG	e Pn	Z	04:25:30.9	7.3	261.8							4.5
	e Sn	N	04:26:49.2									
CLZ	e Pn	Z	04:25:32.0	7.4	278.1							4.3
	e Sn	E	04:26:51.1									
BFO	e Pn	Z	04:25:32.5	7.5	305.7							4.2
	e Sn	E	04:26:50.4									
STU	e Sn	E	04:26:56.1	7.7	301.2							4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:01:17.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:00:13.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/23	17:15: 7.6	48.190N	151.350E	33.0N	5.4			SZGRF
2000/09/23	17:15:17.8	48.657N	142.702E	10G	4.9	4.4		NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z 17:26:53.3	73.2	31.1	1.0	29	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/24	06:35: 2.9	43.490N	44.970E	33.0N	4.6			SZGRF
2000/09/24	06:34:38.9	42.339N	47.522E	33N	4.6			NEIC

Western Caucasus

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:40:13.1	26.0	92.4			4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/24	07:11:59.4			N				SZGRF
2000/09/24	07:12:12.5	39.403N	43.672E	10G	4.3			NEIC

Iran-Armenia-Azerbaijan border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:17:39.5	25.1	101.8					
	e L	Z 07:29:35.0			18.3	170			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/25	03:21: 6.2	71.390N	14.890W	33.0N	4.6			SZGRF
2000/09/25	03:21:07.2	71.581N	11.021W	10G	4.8	4.1		NEIC

Jan Mayen Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:26:25.2	24.1	343.0	1.0	14	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/25	04:00:39.7	46.647S	37.388E	10G	5.8	5.6		NEIC

Prince Edward Islands, South Africa, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:14:19.4	99.0	162.2					
	e PP	Z 04:18:20.3							
	e S	N 04:24:56.9							
	e SS	E 04:32:09.6							
	e L	Z 05:01:27.5			19.6	2559		5.7	
CLL	e Pdiff	Z 04:14:34.3			1.2	10			
	e PP	Z 04:18:30.6							
	e SKSac	N 04:24:58.7							
	e Sdiff	E 04:25:59.4							
	e PS	N 04:27:36.4							
	e SS	N 04:32:51.2							
	e L	Z 05:01:11.6			20.0	2522		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/25	04:18:35.6			N				SZGRF

North Pacific Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:31:18.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/25	11:55:10.4	58.880N	153.990W	33.0N	5.4			SZGRF
2000/09/25	11:55:03.9	57.913N	153.825W	53D	4.9			NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:06:23.8	71.7	351.7	0.9	30	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/26	06:17:45.3	17.470S	173.100W			6.2		GRSN
2000/09/26	06:17:49.4	17.204S	173.864W	33N	6.1	6.1		NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc	+ Z 06:37:25.8	145.8	10.4	1.4	1163			
	e PP	Z 06:40:40.2							
	e PKS	N 06:40:56.8							
	e PPP	Z 06:43:58.6							
	e SKKPdf	Z 06:48:57.3							
	e SKSP	Z 06:51:01.0							
	e PPS	Z 06:53:15.5							
	e SS	E 06:59:35.5							
	e SSS	E 07:05:04.7							
	e SSSS	N 07:09:12.6							
	e L	Z 07:39:11.2			22.0	4937		6.2	
GRA1	e PKP	Z 06:37:29.0	147.3	9.0					
	e L	Z 07:46:54.7			21.9	5510		6.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/26								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 07:45:42.3							
	e	07:45:52.3							

./2000/bul0009.txt

Thu Apr 23 08:38:25 2020

33

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/26	16:49:33.7	1.151N	127.489E	144D	5.8			NEIC

Halmahera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	i P	Z	17:03:16.0	102.8	69.3	1.2	91	6.4		
RUE	i P	Z	17:03:18.6	103.2	70.1	0.9	66	6.4		
BRG	i P	Z	17:03:20.1	103.7	70.6	0.9	30	6.1		
CLL	i P	+ Z	17:03:21.8			1.1	16	5.8		
	e PP	Z	17:07:43.3			1.4	34			
	e pPP	Z	17:08:19.1							
	e pPPP	Z	17:10:22.9							
	e SKSac	E	17:13:47.7							
	e SP	Z	17:16:18.1							
	e pSP	Z	17:17:25.3							
	e SS	N	17:22:21.4							
	e L	Z	17:55:09.7			18.0	609		5.2	
GEC2	i P	Z	17:03:23.9	104.5	70.9	1.3	11	5.6		
BSEG	i P	Z	17:03:24.7	104.6	66.8	1.0	23	6.1		
WET	i P	Z	17:03:25.7	104.9	70.2	1.1	8	5.6		
MOX	i P	Z	17:03:26.8	105.1	68.7	1.1	14	5.8		
CLZ	i P	Z	17:03:28.7	105.4	67.4	1.1	27	6.2		
GRA1	e P	Z	17:03:27.3	105.7	68.7					
	e PP	Z	17:07:53.6							
IBBN	i P	Z	17:03:34.1	106.7	65.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/26	21:14: 6.8	44.120N	145.200E	33.0N	5.1			SZGRF
2000/09/26	21:13:57.7	43.036N	146.000E	33N	4.7	4.2		NEIC

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:26:02.2	79.2	31.9	0.9	14	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/27	03:07:59.8	35.620N	5.380W	33.0N	4.7			SZGRF
2000/09/27	03:07:46.6	34.373N	5.367W	10G	4.8			NEIC

Strait of Gibraltar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	03:12:14.3	19.6	224.7	1.0	57	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:51:49.3							
	e	17:52:00.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:16:06.5							
	e	18:16:16.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 08:25:03.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 11:48:09.4							
	e	11:48:22.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:14:52.7							
	e	17:15:01.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:20:37.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/29	22:48:36.1	13.750N	117.910E	33.0N	5.4	5.2		SZGRF

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 23:01:19.0	87.0	70.3	1.0	70	5.7		
RUE	e P	Z 23:01:20.8	87.5	70.5					
BRG	e P	Z 23:01:22.4	87.9	70.6	1.6	34	5.4		
CLL	e P	Z 23:01:24.3	88.3	69.9	2.0	75	5.7		
GEC2	e P	Z 23:01:26.8	88.7	70.4	1.9	34	5.2		
BSEG	e P	Z 23:01:27.1	88.9	67.8	1.2	19	5.2		
WET	e P	Z 23:01:28.2	89.1	69.8	1.8	36	5.3		
MOX	e P	Z 23:01:28.6	89.4	68.8					
CLZ	e P	Z 23:01:30.3	89.7	67.9					
GRA1	e P	Z 23:01:32.4	90.0	68.5	1.6	38	5.4		
	e L	Z 23:48:47.8			21.2	944		5.2	
FUR	e P	Z 23:01:34.4	90.5	68.5					
TNS	e P	Z 23:01:38.7	91.4	66.4	1.5	24	5.3		
STU	e P	Z 23:01:39.9	91.5	67.0					
WLF	e P	Z 23:01:46.5	93.0	64.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/29	22:54:31.8			N				SZGRF

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:07:16.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/09/30	09:52:45.7	27.190S	61.400E	33.0N	5.1			SZGRF
2000/09/30	09:52:33.3	27.623S	65.686E	10G	4.9			NEIC

Southwest Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:05:36.9	91.2	133.9			5.1		

Format description

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(K. Klinge, A. Schick)

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded

with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Additionally, some selected events are analysed more comprehensive at CLL-station and included in the bulletin (ISOP-analysis).
 Each event is reported by several EPICENTER LINES with possible COMMENT LINES, a REGION LINE and a block of PHASE LINES.

EPICENTER LINES:

The epicenter locations of several authorities can be reported. The epicenter location with the highest priority (i.e. the most reliable one) is written in the undermost EPICENTER LINE. The REGION LINE and all origin related parameter in the PHASE LINES (i.e. Def, Dist, EvAz) are determined regarding this epicenter location with the highest priority.

Date	Date of the event
Origin Time	Origin time of the event
Lat	Geographic latitude (N/S) of epicenter in degree
Long	Geographic longitude (E/W) of epicenter in degree
Depth	Depth of the hypocenter beneath the surface in kilometer
	Appended flag indicates the method by which the depth was determined:
	BLANK - free
	N - preset depth of 33 kilometer
	G - geophysicist preset depth
mb, Ms, ML	Magnitudes of the event and magnitude type
Source	Abbreviations for the authority (e.g. SZGRF, NEIC, PIDC, SED)

COMMENT LINE:

Each EPICENTER LINE can be followed by a COMMENT LINE about interesting topics submitted by the preceding authority.

REGION LINE:

The region name of the epicenter location with the highest priority (undermost EPICENTER LINE).

PHASE LINE:

Sta	Station code of the reported phase
Phase	Preceded flag for the sharpness of the onset of the phase
	e - emergent
	i - impulsive
	w - weak
	ISC phase code
	Flag for the direction of the first motion
	'+' - compression
	'-' - dilatation
	Component where the phase was picked
Time	Arrival time of the reported phase
Dist	Distance from the epicenter location with the highest priority to the station in kilometer
BAZ	Backazimuth from the epicenter location with the highest priority to the station in degree
T[s]	Phase Period
A[nm]	Phase Amplitude

mb	Body wave magnitude
MS	Surface wave magnitude
ML	Local Richter magnitude