

MONTHLY BULLETIN of REGIONAL and TELESEISMIC EVENTS RECORDED with GRF- and GRSN-STATIONS in GERMANY

=====

(produced by SZGRF/BGR - ERLANGEN and partly by CLL - Observatory)

JANUARY 2007 UPDATED 11.DECEMBER.2007

Please note that local events recorded in Germany are part of the "LOCAL BULLETIN".

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/01	00:18:53.3	24.880S	179.260W	390.0G				SZGRF
South of Fiji Islands								
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb MS ML
BSEG	e PKPbc	Z	00:37:58.3	150.1	17.6			
	e PKPab	Z	00:38:08.1					
RUE	e PKPbc	Z	00:37:59.3	150.7	24.7			
CLL	e PKPbc	Z	00:38:02.2	152.0	24.2			
	e PKPab	Z	00:38:15.7					
CLZ	e PKPbc	Z	00:38:03.3	152.1	18.9			
	e PKPab	Z	00:38:16.6					
	e pPKPbc	Z	00:39:34.6					
BRG	e PKPbc	Z	00:38:02.4	152.1	26.3			
	e PKPab	Z	00:38:16.2					
MOX	e PKPbc	Z	00:38:04.7	152.9	22.1			
	e PKPab	Z	00:38:20.1					
TANN	e PKPbc	Z	00:38:04.7	152.9	23.9			
MANZ	e PKPbc	Z	00:38:06.1	153.4	23.5			
	e PKPab	Z	00:38:22.3					
ROTZ	e PKPab	Z	00:38:23.3	153.6	23.9			
GRA1	e PKPbc	Z	00:38:07.3	153.9	22.0			
	e PKPab	Z	00:38:24.5					
WET	e PKPab	Z	00:38:24.8	153.9	25.7			
TNS	e PKPbc	Z	00:38:07.6	154.0	16.1			
	e PKPab	Z	00:38:25.0					
	e pPKPbc	Z	00:39:46.2					
GEC2	e PKPbc	Z	00:38:07.1	154.0	27.6			
	e PKPab	Z	00:38:24.8					
STU	e PKPab	Z	00:38:30.5	155.2	18.5			
FUR	e PKPab	Z	00:38:30.3	155.3	23.4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/01	00:31:50.9	2.679N	67.786E	33.0N	5.8			SZGRF

Carlsberg Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:42:41.5	66.9	115.0	1.9	121	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02	03:12:42.9	28.750N	140.000E	33.0G	5.4			SZGRF

Bonin Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:25:26.2	87.3	45.2	1.1	15	5.2		
CLL	e P	Z 03:25:26.5	87.4	44.5	1.2	24	5.4		
FBE	e P	Z 03:25:27.3	87.5	44.8	1.3	37	5.6		
CLZ	e P	Z 03:25:30.4	88.1	42.5	1.5	40	5.5		
WERD	e P	Z 03:25:31.0	88.3	44.0	1.4	18	5.1		
GUNZ	e P	Z 03:25:31.6	88.4	44.0	1.2	23	5.3		
MANZ	e P	Z 03:25:33.6	88.7	43.8	1.4	22	5.2		
GEC2	e P	Z 03:25:33.3	88.8	45.0	1.2	24	5.3		
ROTZ	e P	Z 03:25:34.1	88.8	43.9	1.5	44	5.5		
WET	e P	Z 03:25:34.3	89.0	44.4	2.4	91	5.6		
GRA1	e P	Z 03:25:36.3	89.3	43.1	1.4	59	5.6		
FUR	e P	Z 03:25:41.3	90.4	43.2	1.1	56	5.8		
STU	e P	Z 03:25:43.0	90.9	41.6	1.3	37	5.6		
BFO	e P	Z 03:25:46.5	91.6	40.9	1.1	17	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 10:38:24.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02	12:27:50.0	20.546S	176.300W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 12:47:32.3	148.4	16.8					
BRG	e PKPbc	Z 12:47:33.2	148.6	18.6					

	e	PKPab	Z	12:47:37.1					
MOX	e	PKPbc	Z	12:47:34.8	149.3	14.6			
TANN	e	PKPbc	Z	12:47:35.2	149.3	16.2			
MANZ	e	PKPbc	Z	12:47:36.3	149.8	15.8			
	e	PKPab	Z	12:47:42.3					
ROTZ	e	PKPbc	Z	12:47:36.6	150.0	16.1			
TNS	e	PKPbc	Z	12:47:36.6	150.1	8.9			
	e	PKPab	Z	12:47:43.1					
GRA1	e	PKPbc	Z	12:47:37.7	150.2	14.3			
GEC2	e	PKPbc	Z	12:47:37.9	150.6	19.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02	13:36:47.6	47.453N	155.472E	33.0N	5.1	4.7		SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:48:43.5	78.1	23.8	1.5	23	5.1		
	e L	Z 14:33:12.7			18.7	302		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02	16:13:49.8	17.500S	174.500W	130.0				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 16:33:10.7	145.1	3.8					
CLZ	e PKPbc	Z 16:33:11.8	145.4	8.2					
CLL	e PKPbc	Z 16:33:12.1	145.7	12.8					
BRG	e PKPbc	Z 16:33:13.1	146.0	14.5					
	e pPKPbc	Z 16:33:47.8							
FBE	e PKPbc	Z 16:33:13.6	146.0	13.5					
BUG	e PKPbc	Z 16:33:13.2	146.0	3.0					
MOX	e PKPbc	Z 16:33:14.7	146.5	10.6					
WERD	e PKPbc	Z 16:33:15.3	146.6	11.9					
	e pPKPbc	Z 16:33:49.5							
TANN	e PKPbc	Z 16:33:15.4	146.6	12.1					
	e pPKPbc	Z 16:33:49.7							
GUNZ	e PKPbc	Z 16:33:15.5	146.7	11.9					
	e pPKPbc	Z 16:33:50.0							
WERN	e PKPbc	Z 16:33:15.8	146.8	12.0					
	e pPKPbc	Z 16:33:50.0							
MANZ	e PKPbc	Z 16:33:16.9	147.1	11.7					
TNS	e PKPbc	Z 16:33:16.9	147.2	5.2					
ROTZ	e PKPbc	Z 16:33:17.5	147.3	11.9					
	e pPKPbc	Z 16:33:51.7							
GRA1	e PKPbc	Z 16:33:17.9	147.5	10.2					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

4

	e pPKPbc	Z	16:33:52.8								
WET	e PKPbc	Z	16:33:18.8	147.8	13.3						
	e pPKPbc	Z	16:33:53.0								
WLF	e PKPbc	Z	16:33:19.3	147.8	1.2						
GEC2	e PKPbc	Z	16:33:19.1	148.0	14.9						
STU	e PKPbc	Z	16:33:20.8	148.6	6.8						
FUR	e PKPbc	Z	16:33:21.7	149.0	10.7						
BFO	e PKPbc	Z	16:33:21.9	149.1	5.3						
	e pPKPbc	Z	16:33:56.3								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02	19:35: 8.8	47.561N	153.424E	33.0N	4.3			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:47:01.1	77.4	25.1	0.9	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/02	20:19:12.0	47.864N	155.761E	33.0N	5.1			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:31:06.2	77.8	23.5	1.1	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/03	02:34:38.2	17.966S	177.687W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:54:06.3	143.5	12.9					
CLL	e PKPbc	Z 02:54:12.5	145.6	18.2					
BRG	e PKPbc	Z 02:54:13.2	145.8	20.0					
MOX	e PKPbc	Z 02:54:15.0	146.5	16.2					
TANN	e PKPbc	Z 02:54:15.3	146.6	17.7					
ROTZ	e PKPbc	Z 02:54:17.2	147.2	17.6					
TNS	e PKPbc	Z 02:54:17.8	147.4	10.9					
GRA1	e PKPbc	Z 02:54:18.3	147.5	15.9					
WET	e PKPbc	Z 02:54:18.5	147.7	19.0					
	e PKPab	Z 02:54:23.2							
GEC2	e PKPbc	Z 02:54:18.6	147.8	20.6					
WLF	e PKPbc	Z 02:54:20.5	148.2	6.9					
	e PKPab	Z 02:54:26.1							
STU	e PKPbc	Z 02:54:20.9	148.7	12.7					

	e PKPab	Z	02:54:26.9					
FUR	e PKPbc	Z	02:54:21.7	148.9	16.7			
	e PKPab	Z	02:54:28.1					
BFO	e PKPbc	Z	02:54:22.3	149.2	11.2			
	e PKPab	Z	02:54:29.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/03	12:47:30.3	5.136N	94.885E	45.1	5.6	4.5		SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:59:35.6	80.3	93.8	1.5	92	5.5		
GEC2	e P	Z 12:59:36.5	80.3	93.3	1.4	128	5.7		
RUE	e P	Z 12:59:36.7	80.5	93.9	1.6	231	6.0		
FBE	e P	Z 12:59:38.0	80.7	93.3	1.6	133	5.7		
WET	e P	Z 12:59:39.0	80.9	92.7	1.5	83	5.6		
CLL	e P	Z 12:59:38.9	80.9	93.1	1.3	43	5.3		
TANN	e P	Z 12:59:40.1	81.2	92.6	1.3	32	5.2		
WERN	e P	Z 12:59:41.2	81.3	92.5	1.4	27	5.1		
GUNZ	e P	Z 12:59:41.4	81.3	92.5	1.5	70	5.5		
WERD	e P	Z 12:59:41.2	81.3	92.4	1.4	36	5.2		
ROTZ	e P	Z 12:59:41.3	81.4	92.3	1.5	76	5.5		
MOX	e P	Z 12:59:43.5	81.8	91.9	1.6	62	5.5		
FUR	e P	Z 12:59:44.3	81.9	91.3	1.8	142	5.8		
GRA1	e P	Z 12:59:45.6	82.0	91.5	1.4	95	5.7		
	e pP	Z 12:59:58.6							
	e sP	Z 13:00:03.9							
	e L	Z 13:43:06.1			21.2	200		4.5	
CLZ	e P	Z 12:59:47.7	82.6	91.1	1.1	47	5.6		
BSEG	e P	Z 12:59:48.3	82.7	91.4	1.5	105	5.8		
STU	e P	Z 12:59:51.6	83.3	89.8	2.6	289	6.0		
TNS	e P	Z 12:59:54.1	83.8	89.4	1.3	49	5.6		
BFO	e P	Z 12:59:53.9	83.9	89.1	1.4	43	5.5		
IBBN	e P	Z 12:59:56.6	84.2	89.1	1.2	68	5.7		
BUG	e P	Z 12:59:57.8	84.5	88.7	1.1	44	5.6		
WLF	e P	Z 13:00:02.5	85.3	87.6	1.5	71	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 13:15:07.7							
	e Sn	E 13:15:58.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2007/01/03												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	BFO	e Pn	Z 14:20:58.8									
		e Sg	E 14:21:32.0									
2007/01/03	14:42: 5.5	38.473N	42.004E	33.0N	4.4			SZGRF				
Turkey												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 14:47:22.7	24.6	105.4	1.0	8	4.4				
2007/01/03	23:31:33.4	5.382S	100.612E	33.0N	5.0			SZGRF				
Southwest of Sumatra, Indonesia												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 23:44:47.0	93.7	94.0	1.4	12	5.0				
2007/01/03	23:48:24.3	5.786S	100.956E	33.0N	5.0			SZGRF				
Southwest of Sumatra, Indonesia												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 00:01:40.4	94.2	94.0	1.6	12	5.0				
2007/01/04	00:19:54.8	47.434N	154.434E	18.9	5.3			SZGRF				
Kuril Islands, Russia												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 00:31:49.3	77.8	24.5	1.1	26	5.3				
		e pP	Z 00:31:54.7									
2007/01/04	15:08:11.9	25.340S	171.900E	30.0				SZGRF				

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	15:27:57.7	149.4	41.8					
	e pPKPbc	Z	15:28:06.5							
TANN	e PKPbc	Z	15:28:00.3	150.4	39.9					
	e pPKPbc	Z	15:28:09.5							
WERD	e PKPbc	Z	15:28:00.3	150.4	39.6					
MOX	e PKPbc	Z	15:28:00.7	150.5	38.3					
	e pPKPbc	Z	15:28:09.5							
ROTZ	e PKPbc	Z	15:28:01.8	151.0	40.2					
GEC2	e PKPbc	Z	15:28:01.8	151.0	43.8					
	e pPKPbc	Z	15:28:11.0							
WET	e PKPbc	Z	15:28:02.4	151.1	42.1					
GRA1	e PKPbc	Z	15:28:03.2	151.4	38.7					
GRB5	e PKPbc	Z	15:28:03.5	151.7	40.1					
BFO	e PKPbc	Z	15:28:08.0	153.6	35.2					
	e pPKPbc	Z	15:28:17.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/04	19:50:59.3	24.710S	168.430E	30.1				SZGRF

New Caledonia region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	20:10:39.0	147.3	46.4					
	e pPKPbc	Z	20:10:48.7							
TANN	e PKPbc	Z	20:10:42.7	148.3	44.8					
	e pPKPbc	Z	20:10:51.3							
MOX	e PKPbc	Z	20:10:42.8	148.5	43.2					
MANZ	e PKPbc	Z	20:10:43.7	148.8	44.7					
	e pPKPbc	Z	20:10:52.5							
GEC2	e PKPbc	Z	20:10:44.0	148.8	48.5					
	e pPKPbc	Z	20:10:52.9							
ROTZ	e PKPbc	Z	20:10:43.9	148.9	45.1					
WET	e PKPbc	Z	20:10:44.0	149.0	46.9					
	e pPKPbc	Z	20:10:53.2							
GRA1	e PKPbc	Z	20:10:44.9	149.4	43.7					
TNS	e pPKPbc	Z	20:10:55.8	150.2	38.7					
WLF	e PKPbc	Z	20:10:50.7	151.5	35.4					
BFO	e PKPbc	Z	20:10:50.7	151.7	40.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/05	11:54:33.9	7.700N	97.800E	33.0N	4.8	4.8		SZGRF

Nicobar Islands, India, region

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

8

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:06:52.0			1.2	10	4.8		
	e L	Z 12:53:14.5	82.0	87.6	19.0	350		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/05	16:05:51.0	43.438N	13.096E	10.0G		3.4	3.7	SZGRF

Central Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
KBA	e Pn	Z 16:06:48.1	3.6	182.8					
WTTA	e Pn	Z 16:06:52.9	4.0	164.5					
ARSA	e Pn	Z 16:06:54.0	4.2	205.0					3.2
	e Sn	E 16:07:42.1							
DAVA	e Pn	Z 16:06:59.6	4.5	148.4					3.7
MOA	e Pn	Z 16:06:59.4	4.5	190.9					3.3
	e Sn	E 16:07:50.6							
GEC2	e Pn	Z 16:07:11.2	5.4	184.7					3.4
	e Sn	E 16:08:13.5							
WET	e Pn	Z 16:07:14.7	5.7	178.4					3.6
	e Sn	E 16:08:18.5							
ROTZ	e Pn	Z 16:07:22.3	6.4	174.2					3.7
	e Sn	N 16:08:33.0							
GRA1	e L	Z 16:29:41.5	6.4	167.7	19.7	1037		3.4	
MANZ	e Pn	Z 16:07:26.6	6.6	173.7					3.7
	e Sn	E 16:08:40.3							
WERN	e Pn	Z 16:07:30.7	6.9	175.6					3.9
GUNZ	e Pn	Z 16:07:32.4	6.9	175.4					4.0
TANN	e Pn	Z 16:07:33.1	7.0	176.2					3.9
WERD	e Pn	Z 16:07:33.5	7.0	175.3					3.9
MOX	e Pn	Z 16:07:35.3	7.3	171.5					4.0
	e Sn	N 16:08:54.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/05	16:17:21.6	30.816N	140.238E	33.0N	4.9			SZGRF

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:30:07.1	87.7	41.9	1.0	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/05	16:52:21.9	55.560N	155.670W	24.6	5.4	5.4		SZGRF

South of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 17:03:33.9	69.9	351.6	1.1	53	5.6		
	e S	T 17:12:45.9							
IBBN	e P	Z 17:03:42.6	71.3	350.2	1.3	88	5.7		
	e P	Z 17:03:44.5							
RUE	e P	Z 17:03:44.5	71.6	353.7	0.8	65	5.8		
	e S	T 17:13:05.2							
CLZ	e P	Z 17:03:46.3	72.0	351.8	1.2	56	5.6		
	e S	T 17:13:10.1							
BUG	e P	Z 17:03:46.4	72.1	350.0	1.0	55	5.6		
	e S	T 17:13:08.8							
GTTG	e P	Z 17:03:47.8	72.2	351.5	1.1	68	5.7		
	e P	Z 17:03:49.5							
CLL	e P	Z 17:03:49.5	72.7	353.3	1.1	30	5.3		
	e S	T 17:13:14.7							
UBBA	e P	Z 17:03:52.2	73.0	351.6					
	e S	R 17:13:16.7							
FBE	e P	Z 17:03:52.8	73.1	353.5	1.1	58	5.6		
	e P	Z 17:03:53.4							
BRG	e P	Z 17:03:53.4	73.2	353.9	1.1	35	5.3		
	e S	T 17:13:21.0							
MOX	e P	Z 17:03:53.6	73.3	352.5					
	e S	T 17:13:24.3							
TNS	e P	Z 17:03:54.3	73.4	350.7	1.0	39	5.4		
	e S	T 17:13:25.3							
WERD	e P	Z 17:03:55.1	73.5	352.9	1.2	23	5.1		
	e P	Z 17:03:55.1							
TANN	e P	Z 17:03:55.1	73.6	353.0	1.2	26	5.1		
	e S	T 17:13:25.9							
GUNZ	e P	Z 17:03:55.8	73.6	353.0	1.2	22	5.1		
	e P	Z 17:03:56.2							
WERN	e P	Z 17:03:56.2	73.7	353.0	1.1	30	5.2		
	e P	Z 17:03:56.5							
WLF	e P	Z 17:03:56.5	73.7	349.4	1.2	48	5.4		
	e S	T 17:13:27.7							
MANZ	e P	Z 17:03:57.6	74.0	352.8	1.4	26	5.1		
	e P	Z 17:03:59.0							
GRA1	e P	Z 17:03:59.0	74.2	352.3	1.0	37	5.4		
	e pP	Z 17:04:06.1							
	e S	T 17:13:34.7							
	e L	Z 17:43:51.9							
ROTZ	e P	Z 17:03:59.0	74.2	352.9	1.1	32	5.3		5.4
	e S	T 17:13:37.5							
WET	e P	Z 17:04:03.2	74.9	353.3	1.4	46	5.3		
	e S	T 17:13:41.0							
STU	e P	Z 17:04:03.9	74.9	351.2	1.1	36	5.3		
	e S	T 17:13:42.8							
GEC2	e P	Z 17:04:04.9	75.2	353.8	1.0	22	5.2		
	e S	T 17:13:46.2							
BFO	e P	Z 17:04:04.9	75.2	350.7	1.1	21	5.2		
	e S	T 17:13:45.7							
FUR	e P	Z 17:04:08.3	75.7	352.4	1.2	56	5.6		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

10

2007/01/05 20:58:50.9 7.409N 95.828E 33.0N 4.6 SZGRF
Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:11:02.1	80.9	89.3	1.1	7	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/06 01:23:37.6 23.678N 120.549E 24.3 4.8 SZGRF
Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:36:03.4	83.7	60.4	1.9	13	4.8		
	e pP	Z 01:36:10.4							

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/06 10:54:14.5 12.531N 124.923E 33.0N 5.2 SZGRF
Samar, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:07:34.3	95.1	63.8	1.7	16	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/06 11:10:15.1 21.800S 173.880W 33.0 SZGRF
Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 11:29:58.9	147.7	7.3					
RUE	e PKPbc	Z 11:30:02.2	148.8	13.8					
IBBN	e PKPbc	Z 11:30:03.6	149.5	3.0					
CLZ	e PKPbc	Z 11:30:04.5	149.8	7.9					
CLL	e PKPbc	Z 11:30:04.6	150.0	12.9					
GTTG	e PKPbc	Z 11:30:05.6	150.1	7.2					
BRG	e PKPbc	Z 11:30:05.9	150.3	14.8					
FBE	e PKPbc	Z 11:30:05.9	150.3	13.7					
BUG	e PKPbc	Z 11:30:05.5	150.3	2.2					
WERD	e PKPbc	Z 11:30:07.8	150.9	11.9					
TANN	e PKPbc	Z 11:30:07.4	151.0	12.2					
GUNZ	e PKPbc	Z 11:30:07.9	151.0	12.0					
WERN	e PKPbc	Z 11:30:07.6	151.1	12.1					
MANZ	e PKPbc	Z 11:30:08.5	151.4	11.7					
TNS	e PKPbc	Z 11:30:08.6	151.5	4.5					
ROTZ	e PKPbc	Z 11:30:09.3	151.6	12.0					
GRA1	e PKPbc	Z 11:30:09.9	151.8	10.1					

GRA1 e PKP Z 04:30:40.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/07	05:45:46.9	23.956N	120.358E	28.3	4.9			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:58:11.7	83.3	60.4	1.2	10	4.9		
	e (pP)	Z 05:58:19.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/07	06:23:25.3	17.880S	171.690W	33.0N				SZGRF

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z 06:43:04.5	147.1	5.8					
WERD	e PKPbc	Z 06:43:05.1	147.3	7.0					
TANN	e PKPbc	Z 06:43:05.3	147.3	7.3					
GUNZ	e PKPbc	Z 06:43:05.4	147.4	7.1					
WERN	e PKPbc	Z 06:43:05.7	147.4	7.2					
TNS	e PKPbc	Z 06:43:07.0	147.7	0.2					
MANZ	e PKPbc	Z 06:43:06.4	147.7	6.8					
ROTZ	e PKPbc	Z 06:43:07.4	148.0	7.0					
GRA1	e PKPbc	Z 06:43:08.2	148.1	5.2					
WLF	e PKPbc	Z 06:43:07.8	148.2	356.1					
WET	e PKPbc	Z 06:43:09.1	148.5	8.3					
GEC2	e PKPbc	Z 06:43:09.0	148.7	9.9					
BFO	e PKPbc	Z 06:43:10.6	149.5	0.0					
FUR	e PKPbc	Z 06:43:12.3	149.6	5.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/07	08:01:38.8	46.310N	153.660E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 08:13:20.6	75.0	25.3	1.1	23	5.1		
RUE	e P	Z 08:13:22.5	75.4	27.4	0.9	39	5.5		
CLL	e P	Z 08:13:29.2	76.7	26.7	1.0	50	5.6		
BRG	e P	Z 08:13:30.2	76.8	27.3	0.9	13	5.0		
CLZ	e P	Z 08:13:31.0	76.9	25.1	1.2	45	5.5		
FBE	e P	Z 08:13:30.8	76.9	26.9	1.1	35	5.4		
IBBN	e P	Z 08:13:32.5	77.1	23.4	0.9	20	5.3		
GTTG	e P	Z 08:13:33.6	77.3	24.8	1.2	21	5.2		

TANN	e P	Z	08:13:34.9	77.6	26.3	1.1	12	4.9
WERD	e P	Z	08:13:35.1	77.6	26.2	1.1	21	5.2
MOX	e P	Z	08:13:35.0	77.7	25.8	1.0	24	5.3
GUNZ	e P	Z	08:13:35.4	77.7	26.2	1.0	20	5.2
WERN	e P	Z	08:13:35.9	77.8	26.2	1.0	27	5.3
UBBA	e P	Z	08:13:36.6	77.9	24.7	1.7	32	5.2
BUG	e P	Z	08:13:37.6	78.1	23.0	1.2	30	5.3
MANZ	e P	Z	08:13:37.3	78.1	26.0	1.0	18	5.1
ROTZ	e P	Z	08:13:38.4	78.3	26.1	1.1	25	5.2
GRA1	e P	Z	08:13:40.4	78.6	25.4	1.0	52	5.5
WET	e P	Z	08:13:41.0	78.6	26.5	1.1	26	5.2
GEC2	e P	Z	08:13:41.0	78.7	27.0	1.2	16	4.9
TNS	e P	Z	08:13:41.8	78.9	23.7	1.2	26	5.2
FUR	e P	Z	08:13:48.8	80.0	25.3	1.2	47	5.3
STU	e P	Z	08:13:48.2	80.0	24.1	0.9	16	4.9
BFO	e P	Z	08:13:50.7	80.7	23.5	1.0	15	5.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/07 10:47: 4.4 21.470N 98.930E 33.0N 4.9
 Myanmar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 10:58:16.1	70.4	79.7	0.8	6	4.7		
FBE	e P	Z 10:58:18.8	70.8	79.3	1.0	13	5.0		
CLL	e P	Z 10:58:19.4	70.9	79.2	1.3	12	4.9		
GEC2	e P	Z 10:58:19.7	70.9	78.9	1.0	13	5.0		
WET	e P	Z 10:58:22.6	71.4	78.4	0.8	9	4.9		
WERN	e P	Z 10:58:22.6	71.5	78.4	1.7	16	4.9		
WERD	e P	Z 10:58:23.0	71.5	78.4	1.0	9	4.9		
GUNZ	e P	Z 10:58:23.3	71.5	78.4	1.0	9	4.9		
ROTZ	e P	Z 10:58:24.6	71.7	78.1	0.8	16	5.2		
MANZ	e P	Z 10:58:24.7	71.7	78.1	1.2	8	4.7		
MOX	e P	Z 10:58:25.4	71.9	78.0	1.3	8	4.7		
GRA1	e P	Z 10:58:28.7	72.4	77.4	0.9	11	4.9		
CLZ	e P	Z 10:58:28.7	72.4	77.4	0.9	10	5.0		
FUR	e P	Z 10:58:30.3	72.7	76.9					
STU	e P	Z 10:58:37.4	73.9	75.7	0.9	20	5.2		
TNS	e P	Z 10:58:37.7	74.0	75.5	1.2	16	4.9		
BFO	e P	Z 10:58:40.3	74.5	74.9	0.9	4	4.4		
WLF	e P	Z 10:58:47.3	75.5	73.7	1.2	39	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/07 15:33:46.5 54.500N 157.500W 38.9 5.1
 South of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	15:45:12.7	72.8	354.7	1.0	26	5.3		
BUG	e P	Z	15:45:15.0	73.3	350.8	1.2	25	5.1		
	e pP	Z	15:45:26.4							
GTTG	e P	Z	15:45:16.4	73.4	352.4	1.1	19	5.0		
CLL	e P	Z	15:45:18.6	73.9	354.3	1.0	13	4.9		
FBE	e P	Z	15:45:21.0	74.3	354.5	1.1	18	5.0		
BRG	e P	Z	15:45:21.3	74.4	354.9	1.1	18	5.0		
	e pP	Z	15:45:32.4							
MOX	e P	Z	15:45:21.8	74.5	353.5	1.0	21	5.1		
	e pP	Z	15:45:33.0							
TNS	e P	Z	15:45:22.9	74.6	351.6	1.6	32	5.1		
	e pP	Z	15:45:34.0							
WERD	e P	Z	15:45:22.9	74.7	353.9	2.3	49	5.1		
WERN	e P	Z	15:45:24.7	74.9	353.9	1.5	22	5.0		
WLF	e P	Z	15:45:24.5	74.9	350.3	2.0	63	5.3		
ROTZ	e P	Z	15:45:27.2	75.4	353.8	1.2	14	5.0		
GRA1	e P	Z	15:45:27.5	75.4	353.3	1.1	17	5.1		
	e pP	Z	15:45:38.1							
STU	e P	Z	15:45:31.9	76.1	352.1					
FUR	e P	Z	15:45:36.1	76.9	353.3	0.8	10	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/07 19:14: 7.0 17.800S 178.400W 555.0 NEIC
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	19:32:47.7	147.2	17.1					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/08 02:22: 8.8 9.200S 161.100E 35.0 NEIC
 Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	02:41:31.0	132.4	42.1					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/08

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	06:23:21.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/08	09:59:28.1	36.644N	141.735E	17.7	5.3			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:11:54.0	83.2	37.9	0.9	16	5.3		
	e pP	Z 10:11:59.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/08	12:48:44.3	8.290N	92.520E	33.0N	6.1	5.9		SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:00:31.0	76.4	93.6	2.1	349	6.1		
	e S	T 13:10:14.6							
GEC2	e P	Z 13:00:30.9	76.4	92.9	2.2	467	6.2		
	e S	T 13:10:14.9							
RUE	e P	Z 13:00:32.2	76.6	93.9	2.3	741	6.4		
	e S	T 13:10:18.3							
FBE	e P	Z 13:00:33.2	76.8	93.2	2.0	475	6.3		
WET	e P	Z 13:00:34.2	77.0	92.4	2.4	417	6.1		
	e S	T 13:10:20.5							
CLL	i P	+ Z 13:00:34.1	77.0	93.0	2.2	271	6.0		
	e PP	Z 13:03:32.0							
	e PPP	Z 13:05:20.6							
	e PPPP	Z 13:06:28.7							
	e S	N 13:10:15.5							
	e PS	N 13:11:04.1							
	e SS	E 13:15:34.3							
	e SSS	E 13:19:15.7							
	e SSSS	E 13:21:23.7							
	e L	Z 13:40:52.2			20.0	8204		6.0	
TANN	e P	Z 13:00:35.9	77.3	92.3	2.1	200	5.9		
WERN	e P	Z 13:00:36.5	77.3	92.2	2.1	75	5.5		
GUNZ	e P	Z 13:00:36.3	77.4	92.2	2.2	263	6.0		
WERD	e P	Z 13:00:36.5	77.4	92.2	2.2	225	5.9		
ROTZ	e P	Z 13:00:37.0	77.4	92.0	2.1	335	6.1		
	e S	T 13:10:27.3							
MANZ	e P	Z 13:00:37.4	77.5	92.0	2.1	415	6.2		
	e S	T 13:10:27.8							
MOX	e P	Z 13:00:38.8	77.8	91.7	2.1	240	6.0		
FUR	e P	Z 13:00:40.4	78.0	90.9	2.0	356	6.1		
GRA1	e P	Z 13:00:40.6	78.1	91.2	2.0	358	6.1		
	e S	T 13:10:34.7							
	e L	Z 13:41:53.6			19.1	6216		5.9	
CLZ	e P	Z 13:00:43.5	78.6	91.0	6.8	6096	6.8		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

16

BSEG	e P	Z	13:00:43.7	78.7	91.4	4.7	3903	6.7
	e S	T	13:10:40.6					
UBBA	e P	Z	13:00:45.0	78.9	90.5	2.3	234	5.8
GTTG	e P	Z	13:00:45.1	78.9	90.6	2.4	350	6.0
	e S	T	13:10:40.1					
STU	e P	Z	13:00:47.8	79.4	89.5	1.8	190	5.8
	e S	T	13:10:46.6					
TNS	e P	Z	13:00:50.2	79.9	89.2	5.0	2379	6.4
BFO	e P	Z	13:00:50.3	80.0	88.8	4.8	2440	6.4
BUG	e P	Z	13:00:54.7	80.6	88.5	2.2	293	5.9
	e S	T	13:10:58.4					
WLF	e P	Z	13:00:58.6	81.3	87.4	1.7	90	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/08	15:49:36.8	46.838N	153.066E	33.0N	4.8			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	16:01:19.9	76.0	26.9	0.9	14	5.1		
CLZ	e P	Z	16:01:22.4	76.3	25.3	0.8	10	5.0		
MOX	e P	Z	16:01:25.9	77.0	25.9	0.8	6	4.8		
UBBA	e P	Z	16:01:27.7	77.3	24.9					
MANZ	e P	Z	16:01:28.4	77.5	26.2	1.0	6	4.7		
ROTZ	e P	Z	16:01:28.9	77.6	26.2	1.0	6	4.7		
GRA1	e P	Z	16:01:32.2	78.0	25.6	0.8	16	5.2		
WET	e P	Z	16:01:31.8	78.0	26.6	1.1	8	4.7		
GEC2	e P	Z	16:01:31.6	78.0	27.1	0.8	2	4.4		
TNS	e P	Z	16:01:32.5	78.2	23.9	0.9	10	4.9		
BFO	e P	Z	16:01:42.4	80.0	23.6	1.1	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/08	17:21:47.9	39.500N	70.560E	22.7	5.7	5.9		SZGRF
Tajikistan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	17:29:24.9	40.4	85.4	1.4	418	5.9		
BRG	e P	Z	17:29:25.6	40.4	83.6	1.0	178	5.7		
FBE	e P	Z	17:29:28.9	40.8	83.3	1.0	222	5.7		
GEC2	e P	Z	17:29:29.1	40.8	81.1	1.3	236	5.7		
CLL	i P	+ Z	17:29:29.6	41.0	83.5	1.6	401	5.9		
	e PP	Z	17:31:05.3							
	e S	N	17:35:46.1							
	e SS	E	17:38:46.8							
	e SSS	Z	17:39:11.3							
	e LR	Z	17:41:45.0							

	e L	Z	17:49:39.6			18.0	22357		6.1
WET	e P	Z	17:29:33.1	41.3	80.9	1.3	192	5.7	
WERN	e P	Z	17:29:34.8	41.5	81.9	1.5	120	5.4	
GUNZ	e P	Z	17:29:34.7	41.5	81.9	1.4	194	5.6	
WERD	e P	Z	17:29:34.6	41.5	82.0	1.4	190	5.6	
ROTZ	e P	Z	17:29:35.7	41.7	81.2	1.4	151	5.5	
MANZ	e P	Z	17:29:35.7	41.7	81.4	1.5	150	5.5	
MOX	e P	Z	17:29:37.6	41.9	81.8	1.5	224	5.7	
BSEG	e P	Z	17:29:41.4	42.3	84.5	1.5	645	6.1	
GRA1	e P	Z	17:29:42.0	42.3	80.5	1.0	234	5.9	
	e S	T	17:36:03.4						
	e L	Z	17:50:41.7			18.0	12907		5.8
CLZ	e P	Z	17:29:42.8	42.5	82.2	1.2	150	5.6	
FUR	e P	Z	17:29:43.4	42.5	78.9	1.3	278	5.8	
GTTG	e P	Z	17:29:45.4	42.8	81.6	1.1	288	5.9	
UBBA	e P	Z	17:29:45.9	42.9	80.9	1.0	83	5.4	
STU	e P	Z	17:29:53.4	43.8	78.2	1.1	138	5.6	
TNS	e P	Z	17:29:54.7	44.0	79.2	0.9	75	5.4	
BFO	e P	Z	17:29:57.8	44.4	77.3	1.0	85	5.4	
	e pP	Z	17:30:03.9						
BUG	e P	Z	17:29:58.9	44.5	79.7	1.4	290	5.8	
WLF	e P	Z	17:30:07.6	45.5	77.2	1.0	175	6.0	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/08 20:12: 7.0 44.550N 144.570E 33.0N 5.2 SZGRF
 Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:23:42.3	74.1	32.1	1.5	53	5.3		
CLL	e P	Z	20:23:49.2	75.4	33.4	1.0	16	5.1		
BRG	e P	Z	20:23:49.9	75.4	34.0	1.2	10	4.8		
FBE	e P	Z	20:23:50.9	75.6	33.6	2.5	105	5.5		
CLZ	e P	Z	20:23:52.3	75.8	31.8	1.5	40	5.3		
WERD	e P	Z	20:23:54.7	76.4	32.9	1.5	17	5.0		
GUNZ	e P	Z	20:23:55.2	76.4	32.9	1.8	39	5.3		
MOX	e P	Z	20:23:55.2	76.4	32.4	1.4	23	5.1		
WERN	e P	Z	20:23:55.7	76.5	32.9	1.4	13	4.9		
MANZ	e P	Z	20:23:57.1	76.8	32.7	1.6	17	4.9		
UBBA	e P	Z	20:23:57.4	76.8	31.4					
ROTZ	e P	Z	20:23:58.5	77.0	32.7	1.4	20	5.1		
BUG	e P	Z	20:23:59.2	77.2	29.7	1.2	33	5.3		
GEC2	e P	Z	20:23:59.6	77.2	33.5	1.3	18	5.1		
WET	e P	Z	20:24:00.3	77.3	33.1	1.1	29	5.3		
GRA1	e P	Z	20:24:01.0	77.4	32.1	1.0	38	5.5		
TNS	e P	Z	20:24:03.4	77.8	30.3	1.2	22	5.2		
FUR	e P	Z	20:24:08.0	78.7	31.9	1.0	43	5.5		
STU	e P	Z	20:24:09.2	78.9	30.7					

WLF	e P	Z	20:24:11.5	79.1	28.8	1.5	47	5.3
BFO	e P	Z	20:24:12.3	79.5	30.1	1.5	47	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/08	20:52:21.3	19.460S	179.040W	426.1				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:11:07.1	144.8	15.4					
RUE	e PKPbc	Z	21:11:09.7	145.5	21.7					
CLL	i PKPbc	+ Z	21:11:13.5	146.8	21.0					
	e		21:11:18.5							
	e pPKPbc	Z	21:12:51.8							
	e SKPbc	Z	21:14:12.9							
	e PP	Z	21:14:38.6							
	e SKKSac	N	21:20:54.4							
	e SKSP	Z	21:24:18.3							
	e SKKSdf	N	21:26:40.9							
	e SS	E	21:33:06.1							
	e sSS	E	21:35:44.8							
	e SSSS	E	21:43:16.2							
CLZ	e PKPbc	Z	21:11:13.9	146.8	16.4					
BRG	e PKPbc	Z	21:11:13.8	147.0	22.9					
FBE	e PKPbc	Z	21:11:14.9	147.0	21.8					
	e pPKPbc	Z	21:12:56.9							
GTTG	e PKPbc	Z	21:11:14.5	147.1	15.8					
BUG	e pPKPbc	Z	21:12:57.5	147.6	11.2					
MOX	e PKPbc	Z	21:11:16.2	147.7	19.0					
	e pPKPbc	Z	21:12:58.0							
TANN	e PKPbc	Z	21:11:16.5	147.7	20.6					
WERD	e PKPbc	Z	21:11:16.6	147.7	20.3					
GUNZ	e PKPbc	Z	21:11:16.9	147.8	20.4					
UBBA	e PKPbc	Z	21:11:17.6	147.8	16.2					
	e pPKPbc	Z	21:12:58.7							
WERN	e PKPbc	Z	21:11:17.1	147.9	20.5					
MANZ	e PKPbc	Z	21:11:17.3	148.2	20.2					
ROTZ	e PKPbc	Z	21:11:18.0	148.4	20.5					
TNS	e PKPbc	Z	21:11:19.6	148.7	13.7					
GRA1	e PKPbc	Z	21:11:19.4	148.7	18.9					
	e pPKPbc	Z	21:13:01.5							
WET	e PKPbc	Z	21:11:19.5	148.8	22.1					
GEC2	e PKPbc	Z	21:11:19.7	148.9	23.7					
WLF	e PKPbc	Z	21:11:21.4	149.5	9.7					
	e pPKPbc	Z	21:13:03.5							
STU	e PKPbc	Z	21:11:21.6	149.9	15.6					
FUR	e PKPbc	Z	21:11:21.8	150.1	19.8					
BFO	e PKPbc	Z	21:11:22.6	150.5	14.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/09	04:40:26.3	0.103S	96.461E	33.0N	4.3			SZGRF

Southwest of Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:53:08.7	87.0	93.7	0.9	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/09	05:27:19.1	19.270N	94.530E	33.0N	5.5			SZGRF

Myanmar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 05:38:22.8	69.3	85.1	1.1	90	5.9		
BRG	e P	Z 05:38:23.1	69.3	84.6	1.1	48	5.6		
GEC2	e P	Z 05:38:25.5	69.7	83.6	1.0	45	5.5		
FBE	e P	Z 05:38:25.6	69.7	84.1	1.0	84	5.8		
CLL	e P	Z 05:38:26.0	69.8	84.0	1.1	28	5.3		
WET	e P	Z 05:38:28.5	70.2	83.1	1.0	34	5.4		
TANN	e P	Z 05:38:29.1	70.3	83.3	1.1	36	5.4		
WERN	e P	Z 05:38:29.8	70.4	83.2	1.3	37	5.4		
GUNZ	e P	Z 05:38:30.0	70.4	83.2	1.1	49	5.6		
WERD	e P	Z 05:38:29.7	70.4	83.2	1.0	35	5.4		
ROTZ	e P	Z 05:38:31.0	70.5	82.9	1.1	66	5.7		
MANZ	e P	Z 05:38:31.0	70.6	82.9	1.3	44	5.4		
MOX	e P	Z 05:38:32.2	70.8	82.7	1.1	32	5.4		
GRA1	e P	Z 05:38:35.1	71.2	82.1	1.4	62	5.6		
BSEG	e P	Z 05:38:34.7	71.2	82.9	1.2	66	5.6		
FUR	e P	Z 05:38:35.6	71.3	81.7	1.1	41	5.5		
CLZ	e P	Z 05:38:35.9	71.4	82.2	1.3	50	5.5		
GTTG	e P	Z 05:38:37.6	71.7	81.8	1.3	51	5.5		
UBBA	e P	Z 05:38:38.8	71.8	81.6					
STU	e P	Z 05:38:43.7	72.6	80.4	0.9	47	5.6		
TNS	e P	Z 05:38:44.4	72.8	80.3	1.0	26	5.3		
BFO	e P	Z 05:38:46.6	73.3	79.6	1.0	24	5.3		
BUG	e P	Z 05:38:47.7	73.4	79.8	0.8	26	5.4		
WLF	e P	Z 05:38:54.3	74.4	78.4	1.1	78	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/09	07:28:29.5	11.722N	47.927E	33.0N	4.6			SZGRF

Eastern Gulf of Aden

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
-----	-------	------	------	-----	------	-------	----	----	----

GRA1	e P	Z	07:37:09.4	48.5	128.6	0.8	3	4.6
------	-----	---	------------	------	-------	-----	---	-----

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/09	15:49:36.0	59.780N	137.520W	15.1	6.0	5.2		SZGRF
Southeastern Alaska, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	16:00:07.7	63.4	342.6	1.3	191	6.1		
BUG	e P	Z	16:00:18.7	65.2	341.4	1.1	194	6.3		
CLZ	e P	Z	16:00:20.9	65.4	342.9	1.6	452	6.5		
UBBA	e P	Z	16:00:25.9	66.3	342.8	1.0	78	5.9		
CLL	e P	Z	16:00:26.3	66.4	344.3	1.0	102	6.0		
TNS	e P	Z	16:00:28.0	66.6	342.1	1.6	128	5.9		
WLF	e P	Z	16:00:28.7	66.7	341.0	1.3	147	6.1		
MOX	e P	Z	16:00:29.0	66.8	343.7	1.1	148	6.1		
BRG	e P	Z	16:00:30.3	67.0	344.9	1.1	136	6.1		
	e PKPPKPbc	Z	16:28:49.6							
TANN	e P	Z	16:00:31.6	67.2	344.1	1.1	96	5.9		
	e PKPPKPbc	Z	16:28:49.7							
MANZ	e P	Z	16:00:33.5	67.5	344.0	1.4	74	5.7		
GRA1	e P	Z	16:00:34.8	67.6	343.6	1.1	119	6.0		
	e pP	Z	16:00:38.5							
	e L	Z	16:32:23.6			19.9	1401		5.2	
ROTZ	e P	Z	16:00:35.1	67.7	344.1	1.2	70	5.8		
STU	e P	Z	16:00:37.5	68.1	342.7	1.0	52	5.7		
BFO	e P	Z	16:00:39.1	68.4	342.3	1.2	122	6.0		
WET	e P	Z	16:00:40.0	68.5	344.5	1.2	122	6.0		
	e PKPPKPbc	Z	16:28:46.7							
GEC2	e P	Z	16:00:42.6	68.9	344.9	1.2	84	5.9		
	e PKPPKPbc	Z	16:28:43.5							
FUR	e P	Z	16:00:43.8	69.1	343.8	1.0	164	6.2		
	e pP	Z	16:00:48.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/09	20:29: 3.2	48.860N	152.170E	33.0N	5.2	4.4		SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	20:40:37.8	73.9	26.6	1.1	34	5.3		
MOX	e P	Z	20:40:43.7	74.9	25.7	1.0	17	5.1		
BUG	e P	Z	20:40:46.1	75.3	23.0	1.0	24	5.3		
MANZ	e P	Z	20:40:46.2	75.4	25.9	0.9	12	5.0		
ROTZ	e P	Z	20:40:47.4	75.5	25.9	1.0	12	5.0		
GRA1	e P	Z	20:40:49.6	75.9	25.3	1.0	35	5.5		
	e L	Z	21:21:36.5			21.9	187		4.4	

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

21

WET	e P	Z	20:40:49.6	75.9	26.3	0.8	14	5.1
GEC2	e P	Z	20:40:49.3	75.9	26.7	0.8	8	4.9
TNS	e P	Z	20:40:50.9	76.1	23.6	0.8	18	5.2
FUR	e P	Z	20:40:57.0	77.3	25.2			
STU	e P	Z	20:40:57.0	77.3	24.0	0.9	20	5.2
BFO	e P	Z	20:41:00.4	77.9	23.4	1.0	20	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/09	20:52:27.6	14.700N	56.500E	33.0	4.5			GSRC
Owen Fracture Zone region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:01:18.7	50.7	117.3	1.1	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/10	10:01:23.3	53.370N	166.166W	33.0N	4.9			SZGRF
Fox Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:13:12.8	76.9	358.4	1.1	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/10	16:35:49.9	44.578N	149.314E	33.0N	5.2			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:47:50.4	78.9	29.0	0.9	20	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/10	18:19:13.1	47.032N	154.194E	33.0N	5.3			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:31:09.3	78.1	24.8	0.9	25	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/11	03:58:49.7	41.801N	45.327E	33.0N	4.8	3.9		SZGRF
Eastern Caucasus								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:03:54.1	23.1	95.7	0.9	22	4.7		
BRG	e P	Z	04:03:55.0	23.3	100.7	1.0	33	4.8		
CLL	e P	Z	04:04:00.3	23.9	100.7	0.8	51	5.1		
TANN	e P	Z	04:04:03.0	24.1	98.1	1.0	24	4.7		
MANZ	e P	Z	04:04:05.4	24.3	96.9	1.2	18	4.5		
MOX	e P	Z	04:04:07.9	24.7	97.8	1.1	36	5.0		
FUR	e P	Z	04:04:08.2	24.7	92.1	1.0	20	4.8		
GRA1	e P	Z	04:04:09.3	24.8	95.4	1.1	14	4.6		
	e L	Z	04:15:53.0			19.1	378		3.9	
UBBA	e P	Z	04:04:17.9	25.7	96.7					
BSEG	e P	Z	04:04:18.6	26.1	103.3	0.9	27	4.9		
STU	e P	Z	04:04:21.4	26.1	91.8	1.0	31	4.9		
TNS	e P	Z	04:04:25.7	26.6	94.1	1.5	42	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/11	04:27:27.2	60.205N	164.981E	33.0N	5.3	4.6		SZGRF

Eastern Siberia, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:37:58.5	64.1	13.7	1.2	30	5.4		
CLZ	e P	Z	04:38:11.6	66.1	13.5	1.1	47	5.6		
CLL	e P	Z	04:38:11.5	66.2	14.8	1.1	39	5.5		
BRG	e P	Z	04:38:13.3	66.5	15.2	1.0	12	5.1		
BUG	e P	Z	04:38:16.4	66.9	11.8	1.0	44	5.6		
MOX	e P	Z	04:38:17.3	67.1	14.0	1.1	23	5.3		
TANN	e P	Z	04:38:18.2	67.2	14.4					
MANZ	e P	Z	04:38:20.7	67.6	14.2	1.0	13	5.1		
ROTZ	e P	Z	04:38:22.3	67.8	14.2	1.1	18	5.2		
TNS	e P	Z	04:38:22.8	68.0	12.3	0.9	12	5.1		
GRA1	e P	Z	04:38:24.0	68.1	13.7	0.9	22	5.4		
	e L	Z	05:07:22.8			19.8	345		4.6	
WET	e P	Z	04:38:25.8	68.3	14.5	1.0	21	5.3		
GEC2	e P	Z	04:38:26.3	68.5	14.9	0.9	14	5.2		
STU	e P	Z	04:38:31.2	69.3	12.6	2.0	57	5.4		
BFO	e P	Z	04:38:34.2	69.8	12.1	1.0	15	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	14:49:51.9							

RGN	e P	Z	04:34:58.3	73.1	27.5	1.3	11479	7.8
BSEG	e P	Z	04:35:06.0	74.4	25.5	2.7	28113	7.8
HLG	e P	Z	04:35:08.2	74.8	23.9	1.3	9475	7.7
RUE	e P	Z	04:35:07.9	74.8	27.6	1.2	5191	7.4
CLL	e P	Z	04:35:14.6	76.0	26.9	1.5	10685	7.8
	e PP	Z	04:38:22.4					
	e PPP	Z	04:40:07.6					
	e PPPP	Z	04:41:01.0					
	e S	N	04:45:07.6					
	e SP	Z	04:45:45.1					
	e SS	N	04:50:31.8					
	e LR	Z	04:59:26.1					
	e PKPPKPdf	Z	05:02:23.4					
	e L	Z	05:12:48.9			22.0	1224406	8.2
	e P'P'P'	Z	05:22:27.7					
BRG	e P	Z	04:35:15.7	76.2	27.5	1.2	3404	7.4
	e L	Z	05:08:39.7			27.4	3271398	8.5
CLZ	e P	Z	04:35:16.8	76.3	25.3	1.7	13368	7.8
	e L	Z	05:10:51.5			25.0	2060176	8.3
FBE	e P	Z	04:35:16.4	76.3	27.1	2.0	12589	7.7
GTTG	e P	Z	04:35:18.7	76.7	25.0	1.6	8251	7.6
TANN	e P	Z	04:35:20.7	77.0	26.5	1.3	2915	7.2
	e L	Z	05:08:17.3			29.0	2698275	8.4
WERD	e P	Z	04:35:20.8	77.0	26.4	1.8	8700	7.6
MOX	e P	Z	04:35:20.7	77.0	26.0	1.8	10448	7.7
	e L	Z	05:07:35.2			30.8	3027698	8.4
GUNZ	e P	Z	04:35:21.2	77.1	26.4	1.2	4095	7.4
WERN	e P	Z	04:35:21.4	77.1	26.4	1.7	8237	7.6
UBBA	e P	Z	04:35:22.1	77.3	24.9	1.6	8478	7.6
	e L	Z	05:11:53.2			23.4	1503227	8.2
BUG	e P	Z	04:35:22.7	77.4	23.2	1.2	5905	7.6
	e L	Z	05:11:44.8			23.5	2111787	8.4
MANZ	e P	Z	04:35:23.2	77.5	26.2	1.3	3062	7.3
	e L	Z	05:08:11.7			29.5	2711623	8.4
ROTZ	e P	Z	04:35:24.3	77.6	26.3	1.3	7374	7.6
	e L	Z	05:08:08.9			30.3	2759139	8.4
GRA1	e P	Z	04:35:26.4	78.0	25.6	1.2	10933	7.9
	e S	Z	04:45:35.1					
	e SS	Z	04:51:07.4					
	e PKPPKP	Z	05:02:15.5					
	e L	Z	05:08:03.3			30.6	2643377	8.4
WET	e P	Z	04:35:26.6	78.0	26.6	1.5	8838	7.7
	e L	Z	05:09:38.6			26.9	3093366	8.5
GEC2	e P	Z	04:35:26.4	78.0	27.1	1.5	5096	7.4
	e L	Z	05:09:49.8			27.3	2316189	8.4
TNS	e P	Z	04:35:27.7	78.3	23.9			
	e L	Z	05:11:47.6			24.1	3116000	8.6
WLF	e P	Z	04:35:33.8	79.3	22.4	1.8	12631	7.5
	e L	Z	05:10:31.9			25.3	2723796	8.5

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

25

FUR	e P	Z	04:35:33.8	79.4	25.5	1.4	12494	7.6			
	e L	Z	05:09:44.2			27.7	2533937		8.4		
STU	e P	Z	04:35:33.7	79.4	24.3	1.3	6778	7.4			
	e PKPPKP	Z	05:02:12.7								
	e L	Z	05:15:10.3			21.1	577741		7.9		
BFO	e P	Z	04:35:37.1	80.0	23.7	1.3	7524	7.5			
	e L	Z	05:14:54.4			21.0	1145537		8.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	05:27:18.6	46.915N	154.410E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:39:15.7	78.3	24.7	0.8	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	05:29:26.2	47.597N	150.972E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:41:14.4	76.7	26.6	0.7	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	05:34:53.3	47.670N	154.889E	33.0N	5.3			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:46:47.2	77.7	24.1	1.1	27	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	06:06:20.2	47.306N	156.680E	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 06:18:18.6	78.5	23.1	0.7	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	06:09:59.2	46.380N	153.366E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:21:57.4	78.5	25.6	0.8	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	06:44:40.0	48.791N	155.287E	33.0N	5.7			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:56:28.7	76.8	23.4	1.1	70	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:18:30.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	08:14:31.5	47.319N	156.204E	25.8	5.3			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:26:29.1	78.4	23.4	1.7	58	5.3		
	e pP	Z 08:26:35.9							
	e sP	Z 08:26:40.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	08:20:27.3	45.396N	154.441E	42.7	5.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:32:32.1	79.7	25.3	1.0	45	5.4		
	e sP	Z 08:32:49.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	08:29:35.6	47.243N	152.009E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
-----	-------	------	------	-----	------	-------	----	----	----

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

27

GRA1 e P Z 08:41:27.3 77.3 26.1 0.8 8 4.9

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 08:32:45.5 48.812N 156.395E 33.0N 4.9
East of Kuril Islands, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 08:44:35.7 77.0 22.7 0.7 8 4.9

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 08:44:38.9 47.765N 153.720E 22.6 5.0
Kuril Islands, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 08:56:30.5 77.3 24.8 0.8 9 5.0
e sP Z 08:56:39.7

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 08:56:2.6 47.726N 156.113E 22.4 5.4
East of Kuril Islands, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 09:07:58.0 78.0 23.3 1.3 38 5.4
e sP Z 09:08:07.1

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 09:18:39.0 45.500N 151.500E 33.0N 5.9
Kuril Islands, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
BSEG e P Z 09:30:20.0 75.2 27.0 1.9 303 6.1
CLL e P Z 09:30:28.6 76.8 28.5 1.6 260 6.1
BRG e P Z 09:30:29.2 76.9 29.1 1.6 128 5.8
CLZ e P Z 09:30:30.7 77.1 26.8 1.8 453 6.3
TANN e P Z 09:30:34.4 77.7 28.0 1.8 131 5.8
MOX e P Z 09:30:34.5 77.8 27.5 1.7 191 5.9
UBBA e P Z 09:30:35.9 78.1 26.5 1.8 229 6.0
MANZ e P Z 09:30:36.8 78.2 27.8 1.8 110 5.6
BUG e P Z 09:30:36.7 78.3 24.7 1.7 310 6.1
ROTZ e P Z 09:30:37.8 78.4 27.8 1.6 151 5.8
WET e P Z 09:30:39.5 78.7 28.2 1.8 200 5.8

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

28

GEC2	e P	Z	09:30:39.5	78.7	28.7	1.8	97	5.5
GRA1	e P	Z	09:30:40.2	78.7	27.2	1.7	246	6.0
TNS	e P	Z	09:30:41.2	79.1	25.4	1.9	279	6.0
FUR	e P	Z	09:30:47.1	80.1	27.1	1.2	120	5.7
STU	e P	Z	09:30:47.3	80.2	25.8	1.4	108	5.7
WLF	e P	Z	09:30:48.0	80.2	23.9	2.0	296	6.0
BFO	e P	Z	09:30:50.5	80.8	25.2	1.5	70	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	09:38:22.2	45.592N	154.168E	17.7	5.3			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:50:05.5	79.4	25.4	1.3	54	5.3		
	e pP	Z 09:50:10.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	10:58:44.1	47.862N	158.229E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:10:41.7	78.4	21.9	0.7	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	11:29:57.3	50.741N	159.593E	33.0N	5.0			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:41:41.6	76.0	20.0	0.8	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	12:10:10.2	45.866N	153.228E	34.7	5.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:22:10.7	78.9	25.9	1.0	38	5.4		
	e pP	Z 12:22:20.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
------	-------------	-----	------	-------	----	----	----	--------

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

29

2007/01/13 12:32:39.6 47.603N 153.667E 33.0N 5.2 SZGRF
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:44:32.1	77.4	24.9	0.9	18	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 15:39:57.5 47.207N 155.804E 33.0N 5.1 SZGRF
East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:51:55.1	78.4	23.7	1.3	23	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 17:35: 4.0 51.917N 176.073E 33.0N 4.8 SZGRF
Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:46:57.2	77.6	9.5	0.7	6	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 17:37:16.9 47.470N 154.700E 37.5 6.1 5.8 SZGRF
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 17:48:59.3			2.0	210	5.9		
	e pP	Z 17:49:11.8							
	e PP	Z 17:51:51.3							
	e (PPP)	Z 17:53:50.6							
	e S	E 17:58:50.8							
	e SS	E 18:03:49.8							
	e LR	Z 18:14:13.6							
	e L	Z 18:26:01.0			20.0	6002		5.9	
GRA1	e P	Z 17:49:11.5	77.8	24.3	2.0	337	6.1		
	e pP	Z 17:49:22.3							
	e S	N 17:59:06.6							
	e L	Z 18:27:09.3			19.9	4980		5.8	

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/13 19:37:43.6 47.405N 153.008E 19.2 5.8 SZGRF
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:49:36.0	77.4	25.4	1.4	108	5.8		
	e pP	Z 19:49:41.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	20:17:39.4	22.305S	170.061E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 20:37:14.2	145.9	41.9					
CLL	e PKPbc	Z 20:37:14.8	146.0	40.1					
CLZ	e PKPbc	Z 20:37:16.9	146.6	35.7					
TANN	e PKPbc	Z 20:37:17.6	146.9	40.2					
MOX	e PKPbc	Z 20:37:18.1	147.0	38.7					
MANZ	e PKPbc	Z 20:37:18.7	147.4	40.1					
ROTZ	e PKPbc	Z 20:37:19.4	147.5	40.5					
GEC2	e PKPbc	Z 20:37:19.5	147.5	43.7					
UBBA	e PKPbc	Z 20:37:19.3	147.5	36.0					
WET	e PKPbc	Z 20:37:19.9	147.7	42.1					
GRA1	e PKPbc	Z 20:37:20.9	147.9	39.0					
BUG	e PKPbc	Z 20:37:20.7	148.0	31.1					
TNS	e PKPbc	Z 20:37:22.5	148.6	34.0					
FUR	e PKPbc	Z 20:37:23.5	149.1	40.7					
STU	e PKPbc	Z 20:37:24.7	149.5	36.7					
WLF	e PKPbc	Z 20:37:26.3	149.8	30.7					
BFO	e PKPbc	Z 20:37:26.2	150.2	35.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	23:22:35.5	24.008N	121.919E	33.0N	4.7			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:35:03.9	84.2	59.2					
	e pP	Z 23:35:13.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/13	23:40:24.3	47.399N	153.959E	12.9	5.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:52:18.2	77.7	24.8	2.4	233	5.9		
	e pP	Z 23:52:21.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	00:23:47.1	47.394N	155.678E	33.0N	5.0			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:35:43.6	78.2	23.7	1.2	22	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	01:05:11.3	45.911N	153.561E	33.0N	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:17:12.2	79.0	25.7	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	02:27:42.0	46.570N	154.305E	33.0N	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:39:40.7	78.6	24.9	1.1	9	4.7		
	e	02:39:58.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	02:57:56.7	45.553N	154.039E	33.0G	5.1			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:10:00.1	79.4	25.5	1.2	32	5.1		
	e	03:10:18.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	05:22:56.8	46.236N	153.500E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:34:55.9	78.7	25.6	1.2	14	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	05:55:34.1	45.740N	153.624E	33.0N	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:07:35.9	79.1	25.7	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	13:16:30.0	47.578N	155.680E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:28:25.6	78.0	23.6	1.1	8	4.8		
	e	13:28:28.4							
	e	13:28:33.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	15:34:12.1	48.049N	153.970E	33.0N	5.3	4.5		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:46:02.7	77.1	24.5	1.0	28	5.3		
	e	15:46:09.1							
	e	15:46:17.0							
	e L	Z 16:28:10.5			20.5	258		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	15:44:11.9	46.033N	153.575E	25.5	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:56:12.1	78.9	25.6	1.2	30	5.2		
	e pP	Z 15:56:19.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	19:32:27.8	47.398N	154.425E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:44:22.4	77.8	24.5	1.4	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/14	21:17:0.2	47.368N	154.364E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:28:54.9	77.8	24.6	1.0	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15	01:18:27.0	46.345N	152.963E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:30:24.7	78.4	25.9	0.9	22	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15	01:40:27.5	21.457S	176.922W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:00:07.4	147.1	12.5					
CLZ	e PKPbc	Z 02:00:12.6	149.1	13.3					
CLL	e PKPbc	Z 02:00:12.8	149.2	18.2					
BRG	e PKPbc	Z 02:00:13.7	149.4	20.1					
MOX	e PKPbc	Z 02:00:15.3	150.1	16.1					
TANN	e PKPbc	Z 02:00:15.6	150.1	17.7					
UBBA	e PKPbc	Z 02:00:15.2	150.1	13.0					
ROTZ	e PKPbc	Z 02:00:16.9	150.8	17.6					
TNS	e PKPbc	Z 02:00:17.6	150.9	10.3					
GRA1	e PKPbc	Z 02:00:17.7	151.0	15.8					
WET	e PKPbc	Z 02:00:18.0	151.2	19.2					
GEC2	e PKPbc	Z 02:00:18.1	151.3	21.0					
WLF	e PKPbc	Z 02:00:19.8	151.7	6.0					
FUR	e PKPbc	Z 02:00:20.8	152.5	16.7					
BFO	e PKPbc	Z 02:00:21.5	152.8	10.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15	04:56:5.1	48.163N	156.419E	33.0N	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
-----	-------	------	------	-----	------	-------	----	----	----

GRA1	e P	Z	05:07:58.7	77.7	22.9	0.8	5	4.7
------	-----	---	------------	------	------	-----	---	-----

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15	10:11:54.0	11.481N	38.248W	33.0N	5.2	4.4		SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:21:27.4	55.7	244.4	1.8	47	5.2		
	e L	Z 10:42:11.5			19.9	333		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:43:02.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z 11:32:23.3			0.8	10			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15	18:18: 3.2	35.337N	139.409E	179.8	6.2			SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:29:54.9	80.5	39.9	1.1	293	6.2		
BRG	e P	Z 18:29:59.0	81.4	42.2	1.2	114	5.9		
CLL	e P	Z 18:29:59.2	81.4	41.6	1.3	335	6.3		
CLZ	e P	Z 18:30:03.3	82.1	39.8	1.2	264	6.4		
TANN	e P	Z 18:30:04.4	82.3	41.1	1.3	121	6.0		
MOX	e P	Z 18:30:05.2	82.5	40.6	1.2	156	6.1		
ROTZ	e P	Z 18:30:07.6	82.9	40.9	1.3	376	6.5		
GEC2	e P	Z 18:30:07.3	83.0	41.9	1.2	170	6.1		
UBBA	e P	Z 18:30:07.7	83.0	39.4	1.3	110	5.9		
WET	e P	Z 18:30:08.5	83.1	41.3	1.3	179	6.1		
	e PP	Z 18:33:20.9							
GRA1	e P	Z 18:30:10.2	83.4	40.2	1.1	520	6.7		
	e pP	Z 18:30:54.3							
	e PP	Z 18:33:24.6							

	e S	E	18:40:14.9						
	e SS	E	18:45:49.2						
BUG	e P	Z	18:30:10.6	83.6	37.5	1.2	270	6.4	
TNS	e P	Z	18:30:13.4	84.1	38.3	1.1	154	6.1	
FUR	e P	Z	18:30:15.5	84.6	40.1	1.4	479	6.5	
	e PP	Z	18:33:31.5						
STU	e P	Z	18:30:17.4	85.0	38.7	1.1	306	6.3	
WLF	e P	Z	18:30:20.3	85.5	36.6	1.2	294	6.3	
BFO	e P	Z	18:30:20.7	85.7	38.1	1.2	250	6.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/15	19:02:34.4	21.155S	172.141E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 19:22:05.5	144.4	30.0					
BRG	e PKPbc	Z 19:22:09.3	145.7	38.0					
CLL	e PKPbc	Z 19:22:09.3	145.7	36.2					
CLZ	e PKPbc	Z 19:22:11.4	146.2	31.6					
TANN	e PKPbc	Z 19:22:12.3	146.7	36.1					
MOX	e PKPbc	Z 19:22:12.3	146.8	34.6					
UBBA	e PKPbc	Z 19:22:13.8	147.2	31.9					
ROTZ	e PKPbc	Z 19:22:14.0	147.3	36.3					
GEC2	e PKPbc	Z 19:22:14.2	147.4	39.5					
WET	e PKPbc	Z 19:22:14.5	147.5	37.9					
GRA1	e PKPbc	Z 19:22:15.3	147.7	34.8					
TNS	e PKPbc	Z 19:22:16.8	148.2	29.8					
STU	e PKPbc	Z 19:22:19.2	149.2	32.3					
WLF	e PKPbc	Z 19:22:20.4	149.4	26.3					
BFO	e PKPbc	Z 19:22:20.5	149.9	31.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/16	00:08:21.2	45.550N	154.957E	33.0N	5.0			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:20:26.0	79.7	24.9	0.9	17	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 01:25:24.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2007/01/16											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e PKPbc	Z 02:12:47.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2007/01/16	03:10:38.8	24.325N	122.614E	49.6	5.5	5.1		SZGRF			
Taiwan region											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		BSEG	e P	Z 03:22:59.8	82.6	58.2	1.2	35	5.5		
		GEC2	e P	Z 03:23:02.6	83.4	60.2	1.0	28	5.4		
		CLZ	e P	Z 03:23:04.7	83.6	58.1	1.1	28	5.4		
		WET	e P	Z 03:23:04.5	83.7	59.7	1.6	32	5.3		
		GRA1	e P	Z 03:23:07.9	84.3	58.5	1.1	30	5.5		
			e pP	Z 03:23:22.3							
			e L	Z 04:05:26.5			19.2	799		5.1	
		FUR	e P	Z 03:23:11.7	85.1	58.4	1.1	81	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2007/01/16	08:00:25.3	46.836N	153.537E	33.0N	5.1			SZGRF			
Kuril Islands, Russia											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e P	Z 08:12:21.4	78.1	25.3	1.1	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2007/01/16	12:52:40.5	41.813N	143.239E	33.0N	5.3	4.6		SZGRF			
Hokkaido, Japan, region											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		BSEG	e P	Z 13:04:25.2	76.1	34.2	0.9	38	5.5		
		CLL	e P	Z 13:04:31.5	77.3	35.7	0.9	38	5.5		
		BRG	e P	Z 13:04:31.5	77.3	36.2	1.1	16	5.1		
		NRDL	e P	Z 13:04:31.9	77.4	33.9					
		CLZ	e P	Z 13:04:34.8	77.8	34.0	0.8	30	5.5		
		TANN	e P	Z 13:04:36.6	78.3	35.2					
		MOX	e P	Z 13:04:37.3	78.4	34.7	1.1	15	4.9		
		UBBA	e P	Z 13:04:39.4	78.8	33.6					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

37

ROTZ	e P	Z	13:04:40.3	78.9	35.0						
GEC2	e P	Z	13:04:41.1	79.1	35.8	1.4	20	5.0			
WET	e P	Z	13:04:42.0	79.1	35.3	1.0	25	5.2			
GRA1	e P	Z	13:04:43.2	79.3	34.3	0.9	55	5.5			
	e L	Z	13:41:34.3			21.4	293		4.6		
TNS	e P	Z	13:04:45.5	79.8	32.5	1.0	17	4.9			
FUR	e P	Z	13:04:49.4	80.5	34.2	1.0	57	5.6			
STU	e P	Z	13:04:50.8	80.8	32.9						
BFO	e P	Z	13:04:54.0	81.5	32.3	1.2	28	5.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 14:26:11.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:55:52.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/17	07:58:47.6	3.098N	90.603E	34.9	5.0			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:10:57.6	80.8	96.1	0.9	15	5.0		
	e pP	Z 08:11:07.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/17	09:45:59.3	46.754N	152.965E	14.7	5.2	4.7		SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 09:57:37.2	74.4	25.6	0.9	14	5.0		
NRDL	e P	Z 09:57:44.6	75.8	25.3	1.1	20	5.2		
CLL	e P	Z 09:57:45.8	76.1	27.0	1.0	41	5.5		
BRG	e P	Z 09:57:46.8	76.2	27.6	1.5	35	5.3		
CLZ	e P	Z 09:57:47.8	76.3	25.4	1.2	39	5.4		
TANN	e P	Z 09:57:51.5	77.0	26.6					

MOX	e P	Z	09:57:51.8	77.1	26.0	1.2	25	5.2
UBBA	e P	Z	09:57:53.1	77.3	25.0			
BUG	e P	Z	09:57:54.1	77.5	23.3	0.9	17	5.2
MANZ	e P	Z	09:57:54.2	77.5	26.3	0.8	12	5.1
ROTZ	e P	Z	09:57:54.9	77.7	26.3	1.0	20	5.1
GRA1	e P	Z	09:57:57.6	78.0	25.7	0.9	40	5.4
	e pP	Z	09:58:01.9					
	e L	Z	10:37:17.8			19.3	334	4.7
WET	e P	Z	09:57:57.3	78.0	26.7	1.3	42	5.3
GEC2	e P	Z	09:57:57.2	78.1	27.2	1.6	27	5.0
TNS	e P	Z	09:57:58.6	78.3	24.0	1.0	22	5.2
FUR	e P	Z	09:58:05.0	79.4	25.6			
STU	e P	Z	09:58:04.8	79.4	24.3			
BFO	e P	Z	09:58:07.9	80.1	23.7	1.0	22	5.1

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/17 23:18:57.3 10.040N 57.370E 33.0G 5.6 5.2
 Carlsberg Ridge SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	23:28:15.5	53.7	121.2	1.3	29	5.2		
	e PP	Z	23:30:17.0							
BRG	e P	Z	23:28:18.7	54.1	123.3	1.4	76	5.5		
FUR	e P	Z	23:28:19.4	54.2	119.0	1.1	126	5.8		
ROTZ	e P	Z	23:28:20.6	54.4	120.9	1.7	113	5.6		
	e PP	Z	23:30:23.6							
MANZ	e P	Z	23:28:22.3	54.6	120.9	1.5	44	5.3		
	e PP	Z	23:30:24.4							
TANN	e P	Z	23:28:23.1	54.6	121.5	1.5	86	5.6		
CLL	e P	Z	17:48:59.3	54.8	122.6	2.0	210	5.9		
	e pP	Z	17:49:11.8							
	e PP	Z	17:51:51.3							
	e (PPP)	Z	17:53:50.6							
	e S	E	17:58:50.8							
	e SS	E	18:03:49.8							
	e LR	Z	18:14:13.6							
	e L	Z	18:26:01.0			20.0	6002		5.9	
GRA1	e P	Z	23:28:24.7	55.0	119.8	1.2	95	5.7		
	e PP	Z	23:30:29.8							
	e L	Z	23:57:31.4			20.8	2122		5.2	
MOX	e P	Z	23:28:27.1	55.2	120.8	1.8	98	5.5		
	e PP	Z	23:30:28.6							
BFO	e P	Z	23:28:33.0	56.0	116.2	1.3	84	5.6		
CLZ	e P	Z	23:28:36.5	56.5	120.3	1.4	129	5.8		
TNS	e P	Z	23:28:38.1	56.8	117.5	1.5	90	5.6		
NRDL	e P	Z	23:28:40.0	57.0	120.4	1.5	128	5.7		
	e PP	Z	23:30:43.6							

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

39

BSEG	e P	Z	23:28:44.7	57.6	121.4	1.3	30	5.2
WLF	e P	Z	23:28:46.5	57.9	115.0	1.4	177	5.9
BUG	e P	Z	23:28:47.1	58.0	117.0	1.3	92	5.7
	e PP	Z	23:30:59.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/18	19:48:12.9	35.306N	31.265E	34.0G	4.2			kan

Cyprus region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:52:30.5	18.7	129.8	1.1	12	4.0		
WET	e P	Z 19:52:35.1	19.3	128.9	1.0	20	4.3		
MANZ	e P	Z 19:52:45.1	20.2	129.3	1.3	32	4.4		
WERN	e P	Z 19:52:46.1	20.3	130.4	1.3	20	4.2		
TANN	e P	Z 19:52:45.8	20.3	130.8	1.5	42	4.4		
GUNZ	e P	Z 19:52:47.1	20.4	130.5	1.0	14	4.2		
WERD	e P	Z 19:52:47.5	20.4	130.6	0.9	9	4.0		
MOX	e P	Z 19:52:51.7	20.9	129.7	1.1	16	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/18	19:57:51.9	35.184N	31.275E	32.0G	4.9			kan

Cyprus region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z 20:02:16.7	19.4	129.1	1.0	135	5.1		
FUR	e P	Z 20:02:19.1	19.7	123.9	1.0	85	4.9		
BRG	e P	Z 20:02:23.4	20.1	134.8	1.2	55	4.7		
MANZ	e P	Z 20:02:26.4	20.3	129.4	1.4	230	5.2		
WERN	e P	Z 20:02:27.2	20.4	130.6	1.2	80	4.8		
TANN	e P	Z 20:02:27.7	20.4	131.0	1.0	84	4.9		
GUNZ	e P	Z 20:02:28.2	20.5	130.6	1.2	111	5.0		
WERD	e P	Z 20:02:28.8	20.5	130.8	0.8	45	4.9		
GRFO	e P	Z 20:02:29.3	20.6	127.2	1.2	81	4.9		
MOX	e P	Z 20:02:34.0	21.0	129.9	1.3	102	5.0		
STU	e P	Z 20:02:35.3	21.2	121.7	0.9	53	4.9		
BFO	e P	Z 20:02:37.6	21.4	119.3	1.2	33	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/18	22:25: 9.8	33.610N	22.670E	33.0G	4.9	4.5		SZGRF

Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 22:29:06.9	16.9	145.5	1.1	373	5.4		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

40

MANZ	e P	Z	22:29:21.1	18.1	150.6	1.1	104	4.9		
GRFO	e P	Z	22:29:21.8	18.2	148.0	1.3	264	5.2		
	e L	Z	22:37:14.5			18.7	2188		4.5	
STU	e P	Z	22:29:20.5	18.2	141.5	1.0	67	4.7		
BFO	e P	Z	22:29:20.1	18.2	138.7	1.3	78	4.7		
WERN	e P	Z	22:29:23.4	18.3	151.7	1.3	71	4.6		
GUNZ	e P	Z	22:29:24.6	18.4	151.7	1.1	82	4.8		
TANN	e P	Z	22:29:24.3	18.4	152.1	1.2	76	4.7		
BRG	e P	Z	22:29:23.2	18.4	156.4	1.2	54	4.5		
WERD	e P	Z	22:29:24.2	18.5	151.8	1.5	105	4.7		
MOX	e P	Z	22:29:28.8	18.9	150.4	1.0	30	4.5		
UBBA	e P	Z	22:29:37.0	19.5	146.9	1.1	51	4.7		
TNS	e P	Z	22:29:38.1	19.6	142.5	0.9	36	4.6		
WLF	e P	Z	22:29:44.9	20.2	136.6	1.1	170	5.2		
NRDL	e P	Z	22:29:52.6	20.9	149.5	1.0	60	4.9		
BUG	e P	Z	22:29:53.6	21.0	142.0	1.1	110	5.1		
BSEG	e P	Z	22:30:03.0	22.1	151.8	1.2	175	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/19 01:43:13.9 13.497N 90.005W 53.8 5.3
 Near coast of Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e P	Z 01:55:52.1	86.8	287.5	1.9	48	5.3		
GRFO	e P	Z 01:55:52.6	86.8	287.2	1.8	47	5.3		
	e pP	Z 01:56:08.3							
GRA2	e P	Z 01:55:52.8	86.9	287.3	1.5	40	5.3		
	e pP	Z 01:56:08.5							
GRB1	e P	Z 01:55:53.0	87.2	287.5	0.9	21	5.3		
	e pP	Z 01:56:08.9							
WET	e P	Z 01:55:57.8	88.0	288.5					
	e pP	Z 01:56:12.3							

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/19 02:44:21.2 9.941S 109.641E 10.0G 5.1
 South of Jawa, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e L	Z 03:51:00.7	101.4	92.2	20.9	637		5.1	
WET	e L	Z 03:51:45.8	101.9	91.5	21.4	646		5.1	
GUNZ	e PP	Z 03:02:30.2	102.3	90.8					
MANZ	e PP	Z 03:02:30.0	102.4	90.7					
GRA2	e PP	Z 03:02:35.0	102.9	90.2					
GRFO	e L	Z 03:53:22.5	103.0	90.1	20.4	561		5.1	
CLZ	e PP	Z 03:02:40.6	103.5	88.9					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

41

BFO e L Z 03:57:43.0 104.9 88.2 21.9 457 5.0

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/19 08:42:20.1 34.807N 22.435E 10.0G 4.2 3.8
Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 08:46:06.9	15.4	152.1	1.2	17			
WET	e P	Z 08:46:12.1	16.0	150.3	1.2	24			
MANZ	e P	Z 08:46:23.4	17.0	149.7	1.6	38			
GRFO	e P	Z 08:46:23.4	17.0	146.9	1.2	42			
	e L	Z 08:54:26.0			18.8	491		3.8	
BFO	e P	Z 08:46:22.6	17.1	137.1	1.3	28	4.2		
WERN	e P	Z 08:46:25.9	17.1	150.9	1.4	18			
BRG	e P	Z 08:46:25.3	17.2	155.8	0.8	6	3.8		
GUNZ	e P	Z 08:46:27.0	17.2	150.9	1.1	20			
FBE	e P	Z 08:46:26.9	17.4	154.3	1.0	15	4.1		
BSEG	e P	Z 08:47:04.4	20.9	151.2	0.8	29	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/19 18:55: 8.1 46.394N 153.205E 33.0N 4.8
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:07:05.9	78.4	25.7	1.0	9	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/19 22:51:26.2 46.438N 27.177W 33.0N 4.4 4.2
Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:56:52.7	25.6	277.6	1.4	14	4.4		
	e L	Z 23:06:13.2			20.4	691		4.2	

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/20 02:45:49.2 5.534S 130.406E 130.0G
Banda Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKiKP	Z 03:04:06.4	110.4	71.7					
BRG	e PKiKP	Z 03:04:06.8	110.8	72.4					

	e PP	Z	03:04:47.0		
	e SKPdf	Z	03:07:27.9		
FBE	e PKiKP	Z	03:04:07.1	111.1	71.8
	e PP	Z	03:04:49.5		
	e SKPdf	Z	03:07:28.8		
CLL	e PKiKP	Z	03:04:07.5	111.2	71.4
	e PP	Z	03:04:49.9		
	e SKPdf	Z	03:07:28.8		
GEC2	e PKiKP	Z	03:04:08.0	111.5	72.9
	e SKPdf	Z	03:07:29.4		
TANN	e SKPdf	Z	03:07:30.4	111.8	71.3
BSEG	e PP	Z	03:04:56.6	111.8	68.1
	e SKPdf	Z	03:07:30.4		
WERD	e PKiKP	Z	03:04:08.6	111.9	71.1
	e SKPdf	Z	03:07:30.5		
WERN	e PKiKP	Z	03:04:08.9	111.9	71.3
	e SKPdf	Z	03:07:30.4		
GUNZ	e PKiKP	Z	03:04:09.1	111.9	71.2
	e SKPdf	Z	03:07:30.6		
WET	e PKiKP	Z	03:04:09.0	112.0	72.1
	e SKPdf	Z	03:07:30.4		
MANZ	e PKiKP	Z	03:04:09.2	112.2	71.1
	e PP	Z	03:04:57.2		
	e SKPdf	Z	03:07:31.0		
MOX	e SKPdf	Z	03:07:31.1	112.2	70.5
NRDL	e PKiKP	Z	03:04:10.2	112.5	68.4
	e PP	Z	03:05:00.7		
	e SKPdf	Z	03:07:32.2		
CLZ	e PKiKP	Z	03:04:10.6	112.6	68.9
	e PP	Z	03:05:01.0		
	e SKPdf	Z	03:07:31.8		
GRA1	e PKiKP	Z	03:04:10.0	112.8	70.5
FUR	e PP	Z	03:04:11.2	113.3	71.2
	e SKPdf	Z	03:07:32.8		
IBBN	e PKiKP	Z	03:04:12.8	113.9	66.4
TNS	e SKPdf	Z	03:07:35.1	114.3	67.9
STU	e PKiKP	Z	03:04:13.4	114.4	69.1
	e SKPdf	Z	03:07:35.0		
BUG	e PP	Z	03:04:13.9	114.5	66.3
	e SKPdf	Z	03:07:35.1		
BFO	e PP	Z	03:05:18.5	115.1	68.6
WLF	e PKiKP	Z	03:04:17.7	115.9	66.1
	e SKPdf	Z	03:07:38.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/20	03:47:27.5	45.831N	153.781E	33.0N	4.8			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:59:29.1	79.1	25.6	1.2	11	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/20	06:21:5.0	54.908S	29.090W	10.0G		6.3		NEIC

South Sandwich Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 06:40:11.0	109.9	203.3					
	e SP	R 06:49:50.4							
	e SS	R 06:55:52.7							
	e L	Z 07:23:02.0			18.9	7890		6.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/20	21:24:56.0	19.868S	177.413W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 21:44:34.2	146.9	13.0					
IBBN	e PKPbc	Z 21:44:35.8	147.3	9.0					
CLZ	e PKPbc	Z 21:44:35.8	147.5	13.7					
CLL	e PKPbc	Z 21:44:35.8	147.5	18.5					
BRG	e PKPbc	Z 21:44:36.4	147.7	20.3					
MOX	e PKPbc	Z 21:44:38.7	148.4	16.4					
TANN	e PKPbc	Z 21:44:38.5	148.5	18.0					
MANZ	e PKPbc	Z 21:44:39.8	148.9	17.6					
TNS	e PKPbc	Z 21:44:40.7	149.3	10.8					
GRA1	e PKPbc	Z 21:44:41.4	149.4	16.1					
WET	e PKPbc	Z 21:44:41.4	149.6	19.4					
GEC2	e PKPbc	Z 21:44:41.8	149.7	21.0					
WLF	e PKPbc	Z 21:44:43.1	150.1	6.7					
STU	e PKPbc	Z 21:44:44.0	150.6	12.7					
BFO	e PKPbc	Z 21:44:45.5	151.2	11.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/21	07:39:6.8	39.908N	42.249E	10.0G	5.2	4.4		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:44:03.4	22.1	103.1	1.7	72	4.8		
BRG	e P	Z 07:44:07.0	22.5	108.1	1.9	113	5.1		
WET	e P	Z 07:44:08.5	22.7	102.9	1.8	232	5.4		

FBE	e P	Z	07:44:08.6	22.9	107.5	1.8	95	5.0	
RUE	e P	Z	07:44:11.1	23.1	111.5	2.0	515	5.7	
CLL	e P	Z	07:44:11.6	23.2	107.9	2.1	190	5.3	
TANN	e P	Z	07:44:12.4	23.3	105.3	1.8	91	5.0	
WERN	e P	Z	07:44:14.3	23.3	104.9	1.4	113	5.2	
GUNZ	e P	Z	07:44:15.0	23.3	105.0	2.2	262	5.4	
WERD	e P	Z	07:44:14.6	23.4	105.2	1.6	50	4.8	
MANZ	e P	Z	07:44:15.4	23.4	103.9	2.2	217	5.3	
FUR	e P	Z	07:44:16.9	23.6	98.9	2.0	411	5.6	
MOX	e P	Z	07:44:17.7	23.8	104.8	1.7	54	4.8	
GRA1	e P	Z	07:44:19.9	23.9	102.3	1.9	534	5.7	
	e L	Z	07:57:25.0			18.7	1115		4.4
STU	e P	Z	07:44:29.4	25.0	98.3	1.1	65	5.3	
BSEG	e P	Z	07:44:37.3	25.6	110.1	1.9	256	5.5	
TNS	e P	Z	07:44:36.7	25.7	100.5	1.6	68	5.0	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/21 11:27:53.9 2.170N 127.360E 33.0N 7.7 SZGRF
 Northern Molucca Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e Pdiff	Z	11:41:39.7	101.8	68.8					
	e PP	Z	11:46:13.0							
	e SKSac	R	11:52:21.8							
	e SP	Z	11:54:49.6							
	e SS	R	12:00:35.4							
RUE	e Pdiff	Z	11:41:41.4	102.3	69.6					
	e PP	Z	11:46:16.3							
	e SKSac	R	11:52:22.1							
	e SP	Z	11:54:53.7							
	e SS	R	12:00:40.7							
BRG	e Pdiff	Z	11:41:42.9	102.8	70.1					
	e PP	Z	11:46:19.5							
	e SKSac	R	11:52:24.1							
	e SP	Z	11:54:58.8							
	e SS	R	12:00:47.2							
CLL	e Pdiff	Z	11:41:44.8	103.2	69.2	1.2	225			
	e PP	Z	11:46:08.7							
	e PPP	Z	11:48:16.6							
	e SKSac	E	11:52:23.2							
	e Sdiff	N	11:53:35.1							
	e PS	N	11:55:13.1							
	e PPS	E	11:56:01.5							
	e PKKPdf	Z	11:57:45.3							
	e PKKPab	Z	11:58:00.6							
	e SS	E	12:00:52.3							
	e SSS	N	12:04:42.6							

GRFO	e Pdiff	Z	11:41:52.4	104.8	68.1
	e PP	Z	11:46:34.6		
	e SKSac	R	11:52:36.2		
	e SP	Z	11:55:21.5		
	e SS	R	12:01:16.0		
HLG	e PP	Z	11:46:36.4	104.9	64.2
	e SKSac	R	11:52:36.2		
	e SP	Z	11:55:22.5		
	e SS	R	12:01:18.1		
FUR	e Pdiff	Z	11:41:54.1	105.4	68.6
	e PP	Z	11:46:37.7		
	e SKSac	R	11:52:36.0		
	e SP	Z	11:55:28.1		
	e SS	R	12:01:21.3		
IBBN	e Pdiff	Z	11:41:57.3	105.8	64.5
	e PP	Z	11:46:42.4		
	e SKSac	R	11:52:40.2		
	e SP	Z	11:55:34.3		
	e SS	R	12:01:28.5		
TNS	e Pdiff	Z	11:41:59.0	106.3	65.7
	e PP	Z	11:46:45.4		
	e SKSac	R	11:52:42.2		
	e SP	Z	11:55:38.3		
	e SS	R	12:01:34.2		
STU	e Pdiff	Z	11:41:59.0	106.4	66.7
	e PP	Z	11:46:45.3		
	e SKSac	R	11:52:40.3		
	e SP	Z	11:55:39.1		
	e SS	R	12:01:36.7		
BUG	e Pdiff	Z	11:42:02.0	106.4	64.3
	e PP	Z	11:46:47.1		
	e SKSac	R	11:52:42.3		
	e SP	Z	11:55:41.6		
	e SS	R	12:01:37.5		
BFO	e Pdiff	Z	11:42:01.8	107.1	66.1
	e PP	Z	11:46:50.3		
	e SKSac	R	11:52:43.2		
	e SP	Z	11:55:45.3		
	e SS	R	12:01:46.5		
WLF	e Pdiff	Z	11:42:06.4	107.8	63.9
	e SKSac	R	11:52:48.9		
	e SP	Z	11:55:52.5		
	e SS	R	12:01:57.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/21	17:32:53.9	1.100N	126.300E	10G	6.1	6.0		NEIC
Molucca Sea								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e Pdiff	Z	17:46:54.3	103.5	70.8	2.2	64			
	e PP	Z	17:51:13.3							
	e SKSac	E	17:57:36.1							
	e Sdiff	N	17:58:44.1							
	e SP	Z	18:00:12.0							
	e PPS	N	18:01:14.3							
	e SS	E	18:05:55.1							
	e SSS	N	18:09:43.2							
	e L	Z	18:36:50.1			22.0	5282		6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	01:48:2.2	6.427N	94.036E	33.0N	5.0			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:00:11.2	80.5	91.3	1.5	27	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	04:33:19.3	2.693S	136.425E	35.0N		5.9		NEIC

Irian Jaya, Indonesia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	04:52:40.1	114.1	63.4					
	e L	Z	05:43:59.6			22.0	3067		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	10:22:52.3	51.430N	174.180W	33.0N	5.0			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:34:30.6	74.6	2.9	1.2	20	5.0		
CLZ	e P	Z	10:34:42.5	76.7	2.9	0.9	10	5.0		
CLL	e P	Z	10:34:44.6	77.1	4.6					
BRG	e P	Z	10:34:46.6	77.5	5.2	1.2	18	5.1		
MOX	e P	Z	10:34:48.7	77.8	3.7	1.3	22	5.1		
TANN	e P	Z	10:34:50.0	78.0	4.2	1.9	36	5.2		
TNS	e P	Z	10:34:51.7	78.3	1.7	1.4	13	4.8		
GRA1	e P	Z	10:34:54.5	78.8	3.4	1.4	35	5.2		
WET	e P	Z	10:34:57.1	79.2	4.5	1.1	5	4.3		
GEC2	e P	Z	10:34:58.1	79.5	5.0	1.3	11	4.6		
BFO	e P	Z	10:35:01.7	80.2	1.6	2.5	72	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	11:09:14.6	22.714S	170.025E	33.0G				GSRC

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z 11:28:47.9	145.2	34.1					
BRG	e PKP	Z 11:28:51.0	146.3	42.3					
CLL	e PKP	Z 11:28:51.3	146.3	40.5					
GRA1	e PKPab	Z 11:29:00.4	148.3	39.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	16:44:37.5	2.841N	95.361E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:57:05.2	84.0	92.6	1.5	17	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	18:07:16.9	50.000N	175.670W	33.0N	4.8			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z 18:19:14.5	78.0	4.0	0.8	10	5.0		
CLL	e P	Z 18:19:16.2	78.4	5.7	0.6	7	4.8		
FBE	e P	Z 18:19:18.9	78.8	5.9	0.9	22	5.2		
BRG	e P	Z 18:19:18.3	78.8	6.3	1.3	18	5.0		
MOX	e P	Z 18:19:20.7	79.2	4.8	1.3	15	4.8		
WERD	e P	Z 18:19:21.3	79.3	5.2	1.3	10	4.6		
TANN	e P	Z 18:19:21.7	79.3	5.3	1.2	7	4.5		
GUNZ	e P	Z 18:19:22.6	79.4	5.2	2.1	56	5.1		
WERN	e P	Z 18:19:22.3	79.5	5.3	1.1	16	4.9		
TNS	e P	Z 18:19:23.2	79.7	2.7	0.8	10	4.8		
MANZ	e P	Z 18:19:23.8	79.8	5.1	0.9	5	4.4		
GRA1	e P	Z 18:19:26.3	80.1	4.5	0.8	19	5.2		
WET	e P	Z 18:19:28.7	80.6	5.6	1.3	12	4.8		
GEC2	e P	Z 18:19:29.2	80.8	6.1	0.9	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/22	19:39:25.2	46.714N	11.284E	10.0G			2.8	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pg	Z	19:39:36.2	0.6	203.7					2.1
	e Sg	N	19:39:45.4							
DAVA	e Pg	Z	19:39:43.6	1.1	120.4					
	e Sg	N	19:40:04.8							
KBA	e Pg	Z	19:39:52.5	1.5	256.2					
MOA	e Pn	Z	19:40:05.9	2.3	241.8					2.7
WET	e Pn	Z	19:40:08.3	2.7	204.3					2.7
	e Sn	N	19:40:41.9							
GEC2	e Pn	Z	19:40:09.6	2.7	218.2					2.7
	e Sn	N	19:40:43.3							
GRA1	e Sg	E	19:40:59.2	3.0	179.2					3.1
MANZ	e Pn	Z	19:40:15.7	3.3	189.8					2.9
	e Sn	N	19:40:55.3							
WERN	e Pn	Z	19:40:20.2	3.6	191.9					3.1
	e Sg	N	19:41:21.9							
GUNZ	e Pn	Z	19:40:21.3	3.7	191.2					
TANN	e Pn	Z	19:40:22.4	3.8	192.3					
WERD	e Pn	Z	19:40:22.5	3.8	190.7					
MOX	e Pn	Z	19:40:23.9	3.9	183.3					
	e Sn	N	19:41:10.0							

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/22 19:25:49.0 3.548S 146.510E 10.0G 5.7
 Bismarck Sea GSRC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SP	R	19:56:03.9	120.4	54.5					
	e SS	R	20:02:58.4							
	e L	Z	20:39:38.8			19.1	1889		5.7	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/23 03:35:49.1 16.940S 173.940W 104.5
 Tonga Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	03:55:12.4	144.9	7.2					
	e pPKPbc	Z	03:55:41.8							
CLL	e PKPbc	Z	03:55:13.2	145.2	11.7					
BRG	e PKPbc	Z	03:55:14.1	145.5	13.4					
BUG	e PKPbc	Z	03:55:14.0	145.5	2.0					
FBE	e PKPbc	Z	03:55:14.6	145.5	12.4					
UBBA	e PKPbc	Z	03:55:15.5	146.0	6.7					
MOX	e PKPbc	Z	03:55:15.9	146.0	9.5					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

50

WERD	e	PKPbc	Z	03:55:16.5	146.1	10.8
	e	pPKPbc	Z	03:55:44.4		
TANN	e	PKPbc	Z	03:55:16.5	146.1	11.0
	e	pPKPbc	Z	03:55:44.3		
GUNZ	e	PKPbc	Z	03:55:16.8	146.2	10.8
	e	pPKPbc	Z	03:55:45.1		
WERN	e	PKPbc	Z	03:55:17.2	146.3	10.9
MANZ	e	PKPbc	Z	03:55:17.9	146.6	10.5
	e	pPKPbc	Z	03:55:45.8		
TNS	e	PKPbc	Z	03:55:18.1	146.7	4.2
GRA1	e	PKPbc	Z	03:55:19.0	147.0	9.1
WLF	e	PKPbc	Z	03:55:20.3	147.3	0.2
WET	e	PKPbc	Z	03:55:20.2	147.3	12.1
GEC2	e	PKPbc	Z	03:55:20.7	147.5	13.7
	e	pPKPbc	Z	03:55:48.8		
STU	e	PKPbc	Z	03:55:22.3	148.1	5.7
FUR	e	PKPbc	Z	03:55:23.4	148.5	9.6
BFO	e	PKPbc	Z	03:55:23.4	148.6	4.2
	e	pPKPbc	Z	03:55:51.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/23	04:37:14.8	6.957S	129.882E	80.0G				GSRC

Banda Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	PKPdf	Z 04:55:41.7	112.3	74.3				
WERD	e	PKPdf	Z 04:55:42.4	112.7	72.5				
BSEG	e	PKPdf	Z 04:55:43.1	112.7	69.4				
WET	e	PKPdf	Z 04:55:42.6	112.7	73.5				
CLZ	e	PKPdf	Z 04:55:44.3	113.4	70.3				
GRA1	e	PKPdf	Z 04:55:44.0	113.6	71.9				
TNS	e	PKPdf	Z 04:55:47.6	115.1	69.3				
STU	e	PKPdf	Z 04:55:47.4	115.2	70.6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/23	05:49:47.6	21.550N	119.536E	33.0N	4.8			SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 06:02:19.0	84.8	62.5	1.0	7	4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/23	11:34:54.7	46.470N	153.772E	33.0N	5.2	5.1		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z 11:46:43.3	76.8	24.9	1.4	46	5.4		
GRA1	e P	Z 11:46:53.1	78.5	25.3	1.2	26	5.1		
	e L	Z 12:25:01.6			20.0	831		5.1	
WET	e P	Z 11:46:52.3	78.5	26.3	1.7	60	5.3		
GEC2	e P	Z 11:46:52.7	78.6	26.8	1.6	23	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/23	17:32:55.2	51.843N	2.282E	10.0G			4.0	SZGRF

North Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e Pn	Z 17:33:44.0	3.1	279.4					3.9
WLF	e Pn	Z 17:33:48.2	3.3	313.1					
IBBN	e Pn	Z 17:33:48.2	3.4	264.3					4.1
	e Sn	E 17:34:27.8							
TNS	e Pn	Z 17:33:57.9	4.2	295.1					
NRDL	e Pn	Z 17:34:08.0	4.8	265.4					
	e Sn	N 17:35:02.7							
CLZ	e Pn	Z 17:34:09.7	5.0	273.2					
BFO	e Pn	Z 17:34:10.9	5.2	314.4					
BSEG	e Pn	Z 17:34:13.3	5.3	249.9					
MOX	e Pn	Z 17:34:24.2	6.0	285.2					
WERD	e Pn	Z 17:34:30.0	6.4	286.4					
WERN	e Pn	Z 17:34:31.9	6.5	287.7					
TANN	e Pn	Z 17:34:32.3	6.5	286.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/23	17:16:26.4	12.853S	168.279E	206.2				SZGRF

Santa Cruz Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 17:35:18.0	135.4	31.4					
	e SKPbc	Z 17:38:33.2							
RUE	e PKPdf	Z 17:35:18.0	135.4	36.7					
	e SKPbc	Z 17:38:32.9							
HLG	e PKPdf	Z 17:35:19.5	135.9	28.0					
	e SKPbc	Z 17:38:35.1							
BRG	e PKPdf	Z 17:35:20.5	136.6	38.0					
	e SKPbc	Z 17:38:36.4							
CLL	e PKPdf	Z 17:35:20.2	136.7	36.4					
	e SKPbc	Z 17:38:36.4							
NRDL	e PKPdf	Z 17:35:20.7	136.7	31.9					

	e	SKPbc	Z	17:38:37.0				
FBE	e	PKPdf	Z	17:35:20.9	136.8	37.2		
	e	SKPbc	Z	17:38:37.6				
CLZ	e	PKPdf	Z	17:35:21.7	137.1	32.6		
	e	SKPbc	Z	17:38:38.6				
IBBN	e	PKPdf	Z	17:35:22.4	137.6	28.8		
	e	SKPbc	Z	17:38:39.4				
TANN	e	PKPdf	Z	17:35:22.4	137.6	36.3		
	e	SKPbc	Z	17:38:39.4				
WERD	e	PKPdf	Z	17:35:22.3	137.6	36.1		
	e	SKPbc	Z	17:38:39.6				
GUNZ	e	PKPdf	Z	17:35:22.7	137.7	36.2		
	e	SKPbc	Z	17:38:39.9				
MOX	e	PKPdf	Z	17:35:22.6	137.7	35.0		
	e	SKPbc	Z	17:38:39.6				
WERN	e	PKPdf	Z	17:35:22.7	137.7	36.3		
	e	SKPbc	Z	17:38:40.0				
MANZ	e	PKPdf	Z	17:35:23.2	138.1	36.1		
	e	SKPbc	Z	17:38:40.6				
UBBA	e	PKPdf	Z	17:35:23.3	138.1	32.7		
	e	SKPbc	Z	17:38:40.8				
GEC2	e	PKPdf	Z	17:35:23.6	138.3	39.0		
	e	SKPbc	Z	17:38:41.2				
WET	e	PKPdf	Z	17:35:24.0	138.4	37.7		
	e	SKPbc	Z	17:38:41.7				
BUG	e	PKPdf	Z	17:35:23.9	138.5	28.6		
	e	SKPbc	Z	17:38:41.8				
GRA1	e	PKPdf	Z	17:35:24.4	138.6	35.1		
	e	SKPbc	Z	17:38:42.6				
	e	SKKPbc	Z	17:47:27.6				
TNS	e	SKPbc	Z	17:38:44.0	139.2	30.9		
FUR	e	PKPdf	Z	17:35:26.2	139.8	36.2		
STU	e	PKPdf	Z	17:35:26.9	140.1	32.9		
	e	SKPbc	Z	17:38:46.2				
WLF	e	PKPdf	Z	17:35:28.0	140.4	28.0		
	e	SKPbc	Z	17:38:47.7				
BFO	e	SKPbc	Z	17:38:47.7	140.8	31.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/23	21:21:56.6	38.063N	28.762E	5.0G	4.4	3.7		KAN
Turkey								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:25:40.5	15.3	129.2	0.1	79			
WET	e P	Z 21:25:46.4	15.9	128.2	1.3	32			
BRG	e P	Z 21:25:54.1	16.5	135.0	1.9	44	4.3		
FBE	e P	Z 21:25:57.5	16.8	133.8	1.8	70	4.5		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

53

GUNZ	e P	Z	21:25:58.8	17.0	130.2					
WERD	e P	Z	21:25:59.4	17.0	130.4	1.6	25	4.1		
GRA1	e P	Z	21:25:59.6	17.1	126.2	1.9	84	4.5		
	e L	Z	21:48:34.7			21.5	540		3.7	
MOX	e P	Z	21:26:05.4	17.5	129.4	1.9	57	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/24	17:36:30.3	41.352N	69.016E	16.0	4.7			SZGRF
Kyrgyzstan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:43:50.6	38.4	82.3	0.9	16	4.7		
	e pP	Z	17:43:54.5							
FBE	e pP	Z	17:43:57.7	38.8	81.9					
GEC2	e P	Z	17:43:54.8	38.9	79.6	1.0	24	4.8		
	e pP	Z	17:43:59.3							
CLL	e pP	Z	17:43:58.7	38.9	82.2					
WET	e P	Z	17:43:58.7	39.3	79.5	1.1	16	4.6		
	e pP	Z	17:44:02.9							
TANN	e pP	Z	17:44:03.3	39.4	80.7					
GUNZ	e P	Z	17:43:59.6	39.5	80.6	0.9	19	4.7		
	e pP	Z	17:44:04.0							
WERD	e P	Z	17:43:59.3	39.5	80.7	0.9	10	4.4		
	e pP	Z	17:44:03.5							
MANZ	e pP	Z	17:44:05.6	39.7	80.0					
MOX	e pP	Z	17:44:07.1	39.9	80.5					
BSEG	e pP	Z	17:44:09.1	40.2	83.4					
GRA1	e P	Z	17:44:07.0	40.3	79.1	0.9	36	5.0		
	e pP	Z	17:44:11.3							
CLZ	e pP	Z	17:44:11.7	40.5	81.0					
NRDL	e pP	Z	17:44:12.3	40.5	81.6					
STU	e pP	Z	17:44:23.3	41.8	76.8					
WLF	e pP	Z	17:44:37.1	43.5	76.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	06:47:46.7	22.323S	178.945W	33.0G				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:07:28.2	147.6	16.1					
NRDL	e PKPbc	Z	07:07:30.9	149.0	16.4					
CLL	e PKPbc	Z	07:07:32.5	149.6	22.2					
	e PKPab	Z	07:07:39.4							
CLZ	e PKPbc	Z	07:07:33.4	149.6	17.2					
BRG	e PKPbc	Z	07:07:33.2	149.7	24.2					

	e PKPab	Z	07:07:40.7		
MOX	e PKPbc	Z	07:07:34.9	150.5	20.1
	e PKPab	Z	07:07:44.2		
TANN	e PKPbc	Z	07:07:35.4	150.5	21.8
	e PKPab	Z	07:07:43.8		
UBBA	e PKPbc	Z	07:07:34.9	150.7	17.1
	e PKPab	Z	07:07:43.8		
MANZ	e PKPbc	Z	07:07:36.4	151.0	21.5
GRA1	e PKPbc	Z	07:07:37.4	151.5	20.0
TNS	e PKPbc	Z	07:07:37.6	151.5	14.4
	e PKPab	Z	07:07:47.9		
WET	e PKPab	Z	07:07:48.7	151.6	23.5
GEC2	e PKPbc	Z	07:07:37.5	151.6	25.2

Date 2007/01/25
 Origin Time 10:59:22.6
 Lat 23.700N
 Long 121.790E
 Depth 39.8
 mb 5.7
 Ms 6.0
 ML
 Source SZGRF
 Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	11:11:37.9	81.6	61.7					
BRG	e P	Z	11:11:41.2	82.3	61.6	1.8	83	5.6		
FBE	e P	Z	11:11:43.0	82.6	61.2	1.0	43	5.6		
CLL	e P	Z	11:11:42.6	82.6	61.0	3.3	659	6.3		
	e SKSac	N	11:22:03.0							
	e S	E	11:22:06.8							
	e ScS	N	11:22:17.3							
	e SS	E	11:27:30.4							
	e LR	Z	11:39:59.6							
	e L	Z	11:48:56.0			18.0	7720		6.1	
BSEG	e P	Z	11:11:43.7	82.7	59.2	1.3	44	5.5		
TANN	e P	Z	11:11:46.6	83.3	60.5	2.0	102	5.7		
GEC2	e P	Z	11:11:47.0	83.4	61.2	1.2	35	5.5		
WERD	e P	Z	11:11:46.9	83.4	60.3	1.6	56	5.5		
GUNZ	e P	Z	11:11:47.2	83.4	60.4	1.3	48	5.6		
NRDL	e P	Z	11:11:48.3	83.5	58.9	2.6	305	6.1		
MOX	e P	Z	11:11:48.4	83.7	59.9	2.3	163	5.8		
WET	e P	Z	11:11:48.9	83.7	60.6	2.4	168	5.8		
MANZ	e P	Z	11:11:48.8	83.7	60.2	2.4	210	5.9		
CLZ	e P	Z	11:11:49.2	83.7	59.0					
GRA1	e P	Z	11:11:52.4	84.4	59.5	1.9	170	5.9		
	e pP	Z	11:12:03.9							
	e S	T	11:22:23.8							
	e L	Z	11:52:26.8			18.5	5485		6.0	
UBBA	e P	Z	11:11:52.4	84.4	58.7	2.2	168	5.9		
IBBN	e P	Z	11:11:54.4	84.8	57.1	1.6	131	5.9		
FUR	e P	Z	11:11:56.0	85.1	59.4	1.2	90	5.9		
BUG	e P	Z	11:11:57.9	85.6	56.7	1.5	67	5.5		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

55

TNS	e P	Z	11:11:58.3	85.6	57.5	2.4	258	5.9
STU	e P	Z	11:11:59.9	86.0	57.9	1.9	107	5.6
BFO	e P	Z	11:12:04.1	86.7	57.3	2.6	176	5.7
WLF	e P	Z	11:12:05.7	87.1	55.7	1.8	150	5.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 14:12:21.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	15:18:36.8	1.631N	97.075E	33.0N	5.2			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:31:05.5	84.4	94.3	1.2	13	5.0		
GEC2	e P	Z 15:31:05.8	84.4	93.9	1.2	32	5.4		
FBE	e P	Z 15:31:07.6	84.8	93.9	1.2	18	5.2		
WET	e P	Z 15:31:08.4	85.0	93.3	1.0	14	5.1		
CLL	e P	Z 15:31:08.7	85.0	93.6					
TANN	e P	Z 15:31:10.3	85.3	93.1	1.3	11	4.9		
WERD	e P	Z 15:31:10.6	85.4	93.0	1.0	7	4.9		
MANZ	e P	Z 15:31:11.4	85.5	92.8	1.1	21	5.2		
MOX	e P	Z 15:31:12.8	85.9	92.5	1.3	10	4.8		
GRA1	e P	Z 15:31:14.6	86.1	92.1	1.1	20	5.1		
CLZ	e P	Z 15:31:16.9	86.7	91.6	1.1	14	5.0		
BSEG	e P	Z 15:31:17.7	86.8	91.7	1.4	33	5.3		
NRDL	e P	Z 15:31:18.1	86.9	91.4	1.2	19	5.1		
TNS	e P	Z 15:31:23.3	87.9	90.0	1.4	20	5.2		
IBBN	e P	Z 15:31:25.5	88.3	89.5	1.2	45	5.7		
BUG	e P	Z 15:31:27.2	88.6	89.1	1.4	45	5.5		
WLF	e P	Z 15:31:30.8	89.4	88.2	1.2	30	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	16:04:31.8	48.292N	155.967E	33.0N	4.9			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:16:24.1	77.4	23.2	1.2	11	4.9		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

56

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	16:20:25.6	46.052N	153.874E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:32:26.3	78.9	25.4	0.9	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	16:32:18.2	49.391N	154.896E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 16:43:51.3	74.2	24.7	1.0	20	5.1		
CLZ	e P	Z 16:43:52.9	74.4	23.1	1.1	20	5.1		
GRA1	e P	Z 16:44:03.2	76.1	23.4	1.1	18	5.1		
WET	e P	Z 16:44:03.5	76.2	24.4	1.1	18	5.1		
GEC2	e P	Z 16:44:03.1	76.2	24.8	0.9	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	18:19:55.5	46.441N	153.454E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:31:53.5	78.4	25.5	1.0	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	21:09:46.1	35.130N	23.480E	33.0N	4.7	3.9		SZGRF

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:13:27.9	15.5	148.7	1.3	64			
FUR	e P	Z 21:13:31.0	15.9	140.8	1.1	191	5.1		
WET	e P	Z 21:13:32.7	16.0	147.0	1.1	119			
MANZ	e P	Z 21:13:43.1	17.0	146.5	2.5	384			
GRA1	e P	Z 21:13:45.2	17.1	143.8	1.1	224			
	e L	Z 21:21:37.0			18.4	669		3.9	
BRG	e P	Z 21:13:44.2	17.2	152.7	1.2	38	4.4		
STU	e P	Z 21:13:45.5	17.2	137.1	1.2	70			
TANN	e P	Z 21:13:46.6	17.3	148.2	1.1	53			
GUNZ	e P	Z 21:13:46.8	17.3	147.8	1.1	44			
BFO	e P	Z 21:13:46.0	17.3	134.1	1.4	26	4.2		
WERD	e P	Z 21:13:47.9	17.3	147.9	1.2	51			
FBE	e P	Z 21:13:47.9	17.4	151.3	1.1	66	4.7		

MOX	e P	Z	21:13:51.5	17.7	146.5	0.9	31	
CLL	e P	Z	21:13:52.5	17.8	151.0	1.0	41	4.5
UBBA	e P	Z	21:13:59.9	18.5	143.0	1.4	38	
TNS	e P	Z	21:14:02.3	18.6	138.4	1.2	83	
RUE	e P	Z	21:14:02.1	18.7	154.5	1.0	63	
CLZ	e P	Z	21:14:08.0	19.2	145.6	1.0	31	4.5
WLF	e P	Z	21:14:09.4	19.3	132.4	1.0	62	
NRDL	e P	Z	21:14:15.8	19.8	146.0	1.0	50	
BUG	e P	Z	21:14:17.7	20.0	138.2	1.0	43	4.6
BSEG	e P	Z	21:14:26.1	20.9	148.6	1.1	238	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	21:36:15.5	44.036N	13.430E	10.0G			4.2	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	21:37:22.6	4.4	159.3					4.2
WET	e Pn	Z	21:37:31.7	5.1	175.6					
	e Sn	E	21:38:29.8							
BFO	e Pn	Z	21:37:37.1	5.6	138.7					
	e Sn	N	21:38:40.0							
GRA1	e Pn	Z	21:37:40.9	5.9	164.2					
	e Sn	N	21:38:47.4							
GUNZ	e Pn	Z	21:37:48.8	6.4	172.9					
TANN	e Pn	Z	21:37:49.4	6.4	173.8					
	e Sn	N	21:39:01.3							
WERD	e Pn	Z	21:37:49.7	6.5	172.8					
MOX	e Pn	Z	21:37:52.6	6.7	168.8					
	e Sn	N	21:39:06.8							
TNS	e Pn	Z	21:37:58.9	7.1	149.4					
	e Sn	N	21:39:13.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/25	23:57:52.1	52.514N	178.753W	33.0N	5.3			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:09:20.7	73.3	5.7					
NRDL	e P	Z	00:09:28.6	74.7	5.6					
IBBN	e P	Z	00:09:30.6	75.0	4.1					
CLZ	e P	Z	00:09:32.6	75.4	5.7	0.7	18	5.3		
CLL	e P	Z	00:09:34.0	75.7	7.4	0.6	16	5.3		
BRG	e P	Z	00:09:36.3	76.1	7.9					
MOX	e P	Z	00:09:38.4	76.5	6.5					
TNS	e P	Z	00:09:41.8	77.1	4.5					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

58

GRA1	e P	Z	00:09:44.6	77.4	6.2	0.6	19	5.4
WLF	e P	Z	00:09:45.7	77.7	3.1			
GEC2	e P	Z	00:09:47.7	78.1	7.7			
STU	e P	Z	00:09:49.4	78.5	4.9			
FUR	e P	Z	00:09:52.6	79.0	6.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/26								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:27:31.7			1.5	32			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/26	02:34:22.5	20.433S	175.568W	33.0N				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:53:59.8	146.2	9.9					
NRDL	e PKPbc	Z 02:54:04.6	147.6	10.0					
IBBN	e PKPbc	Z 02:54:06.7	148.0	5.9					
CLZ	e PKPbc	Z 02:54:06.5	148.3	10.6					
CLL	e PKPbc	Z 02:54:06.5	148.4	15.5					
BUG	e PKPbc	Z 02:54:09.0	148.9	5.2					
TANN	e PKPbc	Z 02:54:10.2	149.4	14.9					
GRA1	e PKPbc	Z 02:54:11.9	150.2	12.9					
GEC2	e PKPbc	Z 02:54:12.3	150.6	17.9					
WLF	e PKPbc	Z 02:54:12.8	150.7	3.3					
STU	e PKPbc	Z 02:54:14.9	151.4	9.4					
FUR	e PKPbc	Z 02:54:14.7	151.7	13.6					
BFO	e PKPbc	Z 02:54:14.5	151.9	7.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/26	07:46: 2.0	34.183N	141.767E	33.0N	5.5			SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:58:36.4	85.4	39.1	1.3	51	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/26	20:45: 2.9	22.300S	178.845W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:04:44.3	147.6	16.0					
	e PKPab	Z	21:04:48.3							
NRDL	e PKPbc	Z	21:04:47.8	149.0	16.2					
IBBN	e PKPbc	Z	21:04:48.6	149.6	12.1					
CLL	e PKPbc	Z	21:04:49.1	149.6	22.0					
CLZ	e PKPbc	Z	21:04:49.5	149.6	17.0					
BRG	e PKPbc	Z	21:04:49.5	149.7	24.0					
	e PKPab	Z	21:04:56.7							
MOX	e PKPbc	Z	21:04:51.0	150.5	19.9					
TANN	e PKPbc	Z	21:04:51.3	150.5	21.6					
GRA1	e PKPbc	Z	21:04:53.6	151.5	19.8					
TNS	e PKPbc	Z	21:04:53.8	151.5	14.2					
	e PKPab	Z	21:05:04.8							
WET	e PKPab	Z	21:05:05.6	151.6	23.3					
GEC2	e PKPbc	Z	21:04:53.8	151.6	25.0					
WLF	e PKPbc	Z	21:04:56.3	152.4	10.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/27	18:57:15.6	22.805S	178.033W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	19:16:58.6	148.2	14.7					
NRDL	e PKPbc	Z	19:17:01.9	149.7	15.0					
IBBN	e PKPbc	Z	19:17:03.0	150.2	10.8					
CLL	e PKPbc	Z	19:17:03.6	150.2	20.8					
CLZ	e PKPbc	Z	19:17:03.9	150.2	15.8					
BRG	e PKPbc	Z	19:17:04.0	150.4	22.8					
MOX	e PKPbc	Z	19:17:05.4	151.2	18.7					
TANN	e PKPbc	Z	19:17:05.9	151.2	20.4					
UBBA	e PKPbc	Z	19:17:05.9	151.3	15.6					
TNS	e PKPbc	Z	19:17:08.1	152.1	12.9					
	e PKPab	Z	19:17:17.8							
GRA1	e PKPbc	Z	19:17:07.9	152.1	18.5					
	e PKPab	Z	19:17:17.9							
GEC2	e PKPbc	Z	19:17:08.2	152.4	23.8					
WLF	e PKPbc	Z	19:17:10.5	152.9	8.5					
	e PKPab	Z	19:17:21.7							
STU	e PKPbc	Z	19:17:11.0	153.4	15.0					
FUR	e PKPbc	Z	19:17:10.9	153.6	19.6					
	e PKPab	Z	19:17:23.9							
BFO	e PKPbc	Z	19:17:12.0	154.0	13.5					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

60

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/27	19:34: 9.7	21.352S	178.930W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 19:53:48.4	146.7	15.8					
CLL	e PKPbc	Z 19:53:53.9	148.6	21.7					
CLZ	e PKPbc	Z 19:53:54.6	148.7	16.8					
BRG	e PKPbc	Z 19:53:54.5	148.8	23.6					
	e PKPab	Z 19:54:01.2							
MOX	e PKPbc	Z 19:53:56.1	149.6	19.7					
TANN	e PKPbc	Z 19:53:56.2	149.6	21.3					
GRA1	e PKPbc	Z 19:53:58.1	150.5	19.5					
	e PKPab	Z 19:54:08.3							
TNS	e PKPbc	Z 19:53:58.7	150.5	14.1					
	e PKPab	Z 19:54:08.6							
GEC2	e PKPbc	Z 19:53:58.9	150.7	24.6					
WLF	e PKPbc	Z 19:54:01.2	151.4	9.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 06:58:54.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/28	08:11:30.5	17.814S	178.586W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 08:30:57.8	143.2	14.2					
NRDL	e PKPbc	Z 08:31:01.9	144.7	14.4					
IBBN	e PKPbc	Z 08:31:04.1	145.1	10.6					
CLZ	e PKPbc	Z 08:31:04.5	145.2	15.1					
CLL	e PKPbc	Z 08:31:04.0	145.3	19.6					
BRG	e PKPbc	Z 08:31:04.8	145.5	21.4					
MOX	e PKPbc	Z 08:31:06.7	146.2	17.6					
TANN	e PKPbc	Z 08:31:07.0	146.2	19.2					
TNS	e PKPbc	Z 08:31:09.7	147.1	12.4					
GRA1	e PKPbc	Z 08:31:09.8	147.2	17.4					
	e PKPab	Z 08:31:13.2							
WET	e PKPbc	Z 08:31:10.4	147.3	20.5					
	e PKPab	Z 08:31:13.6							
GEC2	e PKPbc	Z 08:31:10.1	147.4	22.1					
WLF	e PKPbc	Z 08:31:12.5	147.9	8.5					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

61

	e	PKPab	Z	08:31:16.5					
FUR	e	PKPbc	Z	08:31:13.4	148.6	18.2			
	e	PKPab	Z	08:31:18.9					
BFO	e	PKPbc	Z	08:31:14.2	149.0	12.8			
	e	PKPab	Z	08:31:20.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/28	10:30:53.0	57.753N	6.444E	10.0G			4.5	SZGRF

North Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e Pn	Z	10:31:50.0	3.7	347.9					4.6
	e Sn	Z	10:32:30.3							
BSEG	e Pn	Z	10:31:59.5	4.4	331.9					
	e Sn	N	10:32:47.1							
RGN	e Sn	N	10:33:03.2	5.0	312.7					4.8
IBBN	e Pn	Z	10:32:13.9	5.5	352.7					4.4
	e Sn	N	10:33:13.5							
NRDL	e Pn	Z	10:32:16.0	5.7	339.8					
	e Sn	E	10:33:17.3							
CLZ	e Pn	Z	10:32:24.9	6.3	340.6					4.6
	e Sn	N	10:33:32.5							
BUG	e Pn	Z	10:32:25.4	6.3	356.0					4.6
	e Sn	N	10:33:33.5							
UBBA	e Sn	N	10:33:53.0	7.2	344.8					4.1
CLL	e Pn	Z	10:32:41.4	7.5	332.1					4.4
	e Sn	N	10:33:59.9							
TNS	e Pn	Z	10:32:43.2	7.6	351.9					4.6
	e Sn	N	10:34:04.4							
MOX	e Pn	Z	10:32:44.4	7.7	339.0					
	e Sn	N	10:34:05.6							
FBE	e Pn	Z	10:32:47.3	7.9	332.2					4.3
WERD	e Pn	Z	10:32:48.3	8.1	337.1					
WLF	e Sn	N	10:34:15.4	8.1	1.1					
TANN	e Pn	Z	10:32:49.2	8.1	336.7					
	e Sn	N	10:34:15.5							
BRG	e Pn	Z	10:32:50.2	8.1	330.5					
	e Sn	N	10:34:16.8							
GUNZ	e Sn	E	10:34:15.4	8.2	337.3					
MANZ	e Pn	Z	10:32:53.5	8.4	339.0					
	e Sn	E	10:34:22.0							
GRA1	e Sn	E	10:34:25.5	8.5	342.6					
BFO	e Pn	Z	10:33:08.9	9.5	353.9					
	e Sn	N	10:34:48.0							

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

62

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/28	12:09: 8.3	0.010S	125.750E	33.0N		5.5		SZGRF

Southern Molucca Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	12:23:05.5	103.6	72.8					
	e PP	Z	12:27:22.3							
CLL	e Pdiff	Z	12:23:06.9	104.0	71.9					
	e PP	Z	12:27:24.3							
GEC2	e Pdiff	Z	12:23:10.8	104.3	73.0					
	e PP	Z	12:27:27.2							
TANN	e Pdiff	Z	12:23:12.6	104.6	71.7					
	e PP	Z	12:27:29.7							
BSEG	e Pdiff	Z	12:23:11.2	104.7	69.0					
	e PP	Z	12:27:30.2							
WET	e Pdiff	Z	12:23:12.6	104.7	72.3					
	e PP	Z	12:27:30.7							
MOX	e Pdiff	Z	12:23:12.6	105.0	70.9					
	e PP	Z	12:27:32.8							
	e SP	Z	12:36:44.8							
NRDL	e PP	Z	12:27:37.1	105.3	69.2					
CLZ	e PP	Z	12:27:37.1	105.4	69.6					
GRA1	e Pdiff	Z	12:23:16.0	105.6	70.8					
	e PP	Z	12:27:39.7							
	e SP	Z	12:36:43.7							
	e L	Z	13:13:15.8			21.7	1569		5.5	
UBBA	e PP	Z	12:27:41.7	105.9	69.5					
FUR	e PP	Z	12:27:42.6	106.0	71.3					
TNS	e PP	Z	12:27:48.4	107.1	68.4					
STU	e PP	Z	12:27:50.4	107.1	69.4					
BUG	e Pdiff	Z	12:23:22.6	107.3	67.0					
	e PP	Z	12:27:51.1							
BFO	e Pdiff	Z	12:23:22.6	107.8	68.8					
	e PP	Z	12:27:55.4							
WLF	e PP	Z	12:28:01.9	108.7	66.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/28	17:02:20.3	18.074S	177.837W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	17:21:53.9	145.0	13.2					
IBBN	e PKPbc	Z	17:21:55.0	145.5	9.4					
CLZ	e PKPbc	Z	17:21:55.7	145.6	13.9					
CLL	e PKPbc	Z	17:21:55.6	145.7	18.5					
BRG	e PKPbc	Z	17:21:56.3	145.9	20.2					
MOX	e PKPbc	Z	17:21:58.4	146.6	16.5					

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

63

TANN	e	PKPbc	Z	17:21:58.6	146.6	18.0
TNS	e	PKPbc	Z	17:22:00.9	147.5	11.2
GRA1	e	PKPbc	Z	17:22:00.7	147.6	16.2
WET	e	PKPbc	Z	17:22:01.6	147.7	19.3
GEC2	e	PKPbc	Z	17:22:01.7	147.8	20.9
WLF	e	PKPbc	Z	17:22:03.5	148.2	7.2
BFO	e	PKPbc	Z	17:22:05.9	149.3	11.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/29	06:03:2.0	16.006S	174.461W	152.6				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	PKPbc	Z 06:22:30.8	144.2	12.3					
BRG	e	PKPbc	Z 06:22:32.0	144.5	14.0					
MOX	e	PKPbc	Z 06:22:33.9	145.0	10.2					
TANN	e	PKPbc	Z 06:22:34.7	145.1	11.7					
TNS	e	PKPbc	Z 06:22:36.5	145.7	5.0					
GRA1	e	PKPbc	Z 06:22:37.8	146.0	9.8					
WET	e	PKPbc	Z 06:22:38.3	146.3	12.8					
WLF	e	PKPbc	Z 06:22:38.8	146.3	1.1					
GEC2	e	PKPbc	Z 06:22:38.9	146.5	14.3					
STU	e	PKPbc	Z 06:22:40.7	147.1	6.5					
FUR	e	PKPbc	Z 06:22:41.9	147.5	10.3					
BFO	e	PKPbc	Z 06:22:41.7	147.6	5.0					
	e	pPKPbc	Z 06:23:21.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/29	07:47:40.6	4.190N	72.510W	441.5	5.4			SZGRF

Colombia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e	P	Z 07:59:00.4	79.5	264.0	1.0	87	5.7		
	e	pP	Z 08:00:38.2							
BUG	e	P	Z 07:59:04.8	80.4	264.6	1.1	62	5.5		
	e	pP	Z 08:00:42.7							
IBBN	e	P	Z 07:59:06.8	80.7	264.8	1.2	77	5.5		
	e	pP	Z 08:00:45.1							
BFO	e	P	Z 07:59:06.7	80.8	265.9	1.1	24	5.1		
TNS	e	P	Z 07:59:08.4	81.0	265.7	1.2	54	5.3		
	e	pP	Z 08:00:46.7							
STU	e	P	Z 07:59:10.0	81.4	266.5	0.9	49	5.5		
	e	pP	Z 08:00:48.5							
CLZ	e	P	Z 07:59:15.3	82.3	267.0	1.1	48	5.5		
BSEG	e	P	Z 07:59:15.4	82.4	266.7	1.0	39	5.5		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

64

GRA1	e P	Z	07:59:17.5	82.8	267.9	0.8	13	5.1
	e pP	Z	08:00:56.1					
MOX	e P	Z	07:59:18.9	83.0	268.1	1.2	13	4.9
TANN	e P	Z	07:59:21.9	83.6	268.8	1.2	30	5.4
	e pP	Z	08:01:00.3					
WET	e P	Z	07:59:23.3	83.8	269.3	1.2	62	5.7
CLL	e P	Z	07:59:23.4	83.9	269.1	1.3	32	5.4
	e pP	Z	08:01:02.3					
GEC2	e P	Z	07:59:25.5	84.4	269.9	1.1	37	5.5
BRG	e P	Z	07:59:26.5	84.5	269.9	1.1	31	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/29	19:48:34.0	7.856N	93.321E	33.0N	5.2			SZGRF
Nicobar Islands, India, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:00:24.3	77.2	93.3	1.1	27	5.3		
GEC2	e P	Z	20:00:25.1	77.3	92.6	1.0	33	5.4		
RUE	e P	Z	20:00:25.5	77.4	93.5					
FBE	e P	Z	20:00:26.9	77.6	92.8					
WET	e P	Z	20:00:28.2	77.8	92.1	1.1	27	5.3		
CLL	e P	Z	20:00:27.6	77.8	92.6	1.1	21	5.2		
TANN	e P	Z	20:00:29.8	78.1	92.0					
GUNZ	e P	Z	20:00:30.4	78.2	91.9					
WERD	e P	Z	20:00:30.2	78.2	91.9					
MANZ	e P	Z	20:00:31.3	78.3	91.6					
MOX	e P	Z	20:00:32.7	78.7	91.4	1.1	17	5.0		
FUR	e P	Z	20:00:33.5	78.9	90.6					
GRA1	e P	Z	20:00:34.5	78.9	90.9	1.1	38	5.3		
CLZ	e P	Z	20:00:37.1	79.5	90.7	0.9	28	5.2		
BSEG	e P	Z	20:00:37.6	79.5	91.0	1.1	82	5.6		
NRDL	e P	Z	20:00:38.4	79.6	90.6					
TNS	e P	Z	20:00:44.0	80.7	88.9	1.0	16	5.0		
BFO	e P	Z	20:00:44.0	80.8	88.5	1.1	22	5.1		
IBBN	e P	Z	20:00:45.8	81.1	88.7					
BUG	e P	Z	20:00:47.5	81.4	88.2					
WLF	e P	Z	20:00:52.1	82.2	87.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/30	04:39:15.8	35.080N	1.040W	10.0G	4.1			SZGRF
Northern Algeria								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRFO	e P	Z	04:43:17.4	17.1	216.1					
GRA1	e P	Z	04:43:17.8	17.1	216.1	1.3	50	4.5		

WET	e P	Z	04:43:19.9	17.4	221.2	1.0	9	3.9
GEC2	e P	Z	04:43:21.6	17.5	223.7	1.4	28	4.2
MANZ	e P	Z	04:43:23.4	17.7	217.7			
MOX	e P	Z	04:43:27.9	18.1	215.3	1.5	19	4.0
TANN	e P	Z	04:43:29.0	18.2	217.7	1.3	25	4.2
FBE	e P	Z	04:43:38.0	18.9	218.8	1.2	16	4.1
NRDL	e P	Z	04:43:39.0	19.1	208.9	0.8	7	3.9
BRG	e P	Z	04:43:39.7	19.1	220.2	1.4	22	4.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/30	04:54:52.8	55.070S	145.060E	10.0		6.9		SZGRF
West of Macquarie Island								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPdf	Z	05:14:39.3	150.0	120.7					
	e PKPbc	Z	05:14:43.2							
	e L	Z	06:28:57.3			22.0	15887		6.8	
WET	e PKPdf	Z	05:14:40.3	150.6	120.1					
	e PKPbc	Z	05:14:44.6							
	e L	Z	06:37:01.7			19.4	21812		7.0	
BRG	e PKPbc	Z	05:14:45.5	150.9	117.6					
	e L	Z	06:24:00.0			21.9	19659		6.9	
FUR	e PKPbc	Z	05:14:45.7	151.1	121.3					
	e L	Z	06:27:41.6			20.4	16582		6.8	
FBE	e PKPbc	Z	05:14:46.3	151.2	117.4					
MANZ	e PKPbc	Z	05:14:46.8	151.5	118.6					
	e L	Z	06:37:52.1			19.7	20518		6.9	
TANN	e PKPbc	Z	05:14:46.9	151.5	118.0					
	e L	Z	06:40:08.7			20.2	16933		6.8	
GUNZ	e PKPbc	Z	05:14:47.2	151.5	118.0					
WERD	e PKPbc	Z	05:14:47.0	151.6	117.9					
CLL	e PKPdf	Z	05:14:41.5	151.6	116.6					
	e PKPbc	Z	05:14:46.2			1.1	182			
	e PKPab	Z	05:14:54.9							
	e PP	Z	05:18:34.2							
	e SKSdf	E	05:21:46.2							
	e SKKPdf	N	05:27:05.9							
	e PSKS	N	05:28:48.4							
	e PPS	E	05:31:26.0							
	e SS	N	05:38:02.0							
	e PSS	Z	05:38:37.8							
	e PSPS	N	05:39:13.3							
	e SSS	N	05:43:47.3							
	e SSSS	E	05:48:01.2							
	e L	Z	06:27:49.2			22.0	21511		6.9	
RUE	e PKPbc	Z	05:14:46.9	151.7	114.9					
	e L	Z	06:39:59.2			19.5	18623		6.9	

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

66

GRA1	e PKPbc	Z	05:14:47.7	151.9	118.9						
	e L	Z	06:40:34.4			20.6	16152	6.8			
GRFO	e PKPbc	Z	05:14:47.6	151.9	118.9						
	e L	Z	06:40:34.5			20.5	15566	6.8			
MOX	e PKPpdf	Z	05:14:42.2	152.1	117.4						
	e PKPbc	Z	05:14:47.9								
	e L	Z	06:26:04.1			21.7	14526	6.7			
STU	e PKPpdf	Z	05:14:43.0	152.6	120.1						
	e PKPbc	Z	05:14:48.6								
	e L	Z	06:39:14.9			21.0	15129	6.8			
RGN	e L	Z	06:28:47.3	152.7	111.1	21.7	17544	6.8			
BFO	e PKPpdf	Z	05:14:43.3	152.8	120.8						
	e L	Z	06:41:55.6			20.2	19536	6.9			
UBBA	e L	Z	06:28:33.3	153.1	116.7	21.5	18120	6.9			
CLZ	e PKPbc	Z	05:14:50.9	153.3	115.0						
	e L	Z	06:30:32.9			21.2	20845	6.9			
TNS	e PKPpdf	Z	05:14:44.7	153.7	117.5						
	e L	Z	06:29:22.2			21.9	20270	6.9			
NRDL	e PKPbc	Z	05:14:51.8	153.7	113.7						
	e L	Z	06:32:39.3			21.1	24110	7.0			
BSEG	e PKPpdf	Z	05:14:45.5	154.2	111.1						
	e PKPbc	Z	05:14:52.6								
	e L	Z	06:35:37.7			21.1	21896	6.9			
WLF	e L	Z	06:31:42.5	154.7	118.2	20.4	23713	7.0			
BUG	e L	Z	06:29:10.2	154.9	115.0	21.5	24637	7.0			
IBBN	e L	Z	06:29:27.8	155.0	113.4	21.7	24791	7.0			
HLG	e L	Z	06:33:52.0	155.6	109.7	20.7	23243	7.0			

Date
2007/01/30

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 08:29:01.1							

Date
2007/01/30

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 10:32:00.9							

Date
2007/01/30

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

67

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:06:50.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/30								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPab	Z 20:11:50.7							
GRB5	e PKPbc	Z 20:11:43.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/30	20:54:34.4	23.730S	179.190W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:14:18.9	149.0	17.1					
NRDL	e PKPbc	Z 21:14:22.4	150.4	17.4					
CLL	e PKPbc	Z 21:14:23.8	150.9	23.4					
	e PKPab	Z 21:14:30.5							
IBBN	e PKPbc	Z 21:14:23.9	150.9	13.2					
CLZ	e PKPbc	Z 21:14:24.3	150.9	18.2					
	e PKPab	Z 21:14:31.0							
BRG	e PKPbc	Z 21:14:24.4	151.0	25.4					
	e PKPab	Z 21:14:31.6							
MOX	e PKPbc	Z 21:14:25.9	151.8	21.3					
	e PKPab	Z 21:14:34.7							
TANN	e PKPbc	Z 21:14:26.2	151.8	23.0					
GRA1	e PKPbc	Z 21:14:28.3	152.8	21.2					
	e PKPab	Z 21:14:39.2							
TNS	e PKPbc	Z 21:14:28.4	152.8	15.5					
	e PKPab	Z 21:14:39.1							
WET	e PKPbc	Z 21:14:28.4	152.9	24.8					
GEC2	e PKPbc	Z 21:14:28.3	152.9	26.6					
WLF	e PKPbc	Z 21:14:30.7	153.7	11.1					
FUR	e PKPbc	Z 21:14:31.1	154.2	22.5					
	e PKPab	Z 21:14:45.4							
BFO	e PKPbc	Z 21:14:32.0	154.7	16.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/30	21:37:58.4	23.510N	143.410E	33.0N	6.4	6.8		SZGRF
Volcano Islands, Japan, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
-----	-------	------	------	-----	------	-------	----	----	----

BSEG	e P	Z	21:51:08.6	92.7	42.1	1.8	282	6.4
BRG	e P	Z	21:51:11.3	93.3	45.2	2.0	387	6.4
CLL	e P	Z	21:51:11.8	93.5	44.4	0.9	55	6.2
	e		21:51:19.5					
	e PP	Z	21:55:05.0					
	e PPP	Z	21:57:04.3					
	e SKSac	E	22:01:45.4					
	e SP	Z	22:03:45.8					
	e PPS	E	22:04:29.4					
	e PKKPdf	Z	22:07:56.7					
	e SS	N	22:09:05.9					
	e SSS	E	22:12:58.8					
	e PKPPKPdf	Z	22:16:09.9					
	e LR	Z	22:24:36.8					
	e L	Z	22:38:28.5			20.0	40543	6.9
NRDL	e P	Z	21:51:13.6	93.8	42.0			
CLZ	e P	Z	21:51:15.6	94.2	42.2	2.0	314	6.3
TANN	e P	Z	21:51:16.1	94.3	44.0	2.0	220	6.2
MOX	e P	Z	21:51:16.8	94.5	43.3	1.9	244	6.3
GEC2	e P	Z	21:51:18.2	94.9	45.1	2.0	195	6.2
IBBN	e P	Z	21:51:18.1	94.9	40.0	1.5	195	6.3
WET	e P	Z	21:51:19.2	95.1	44.4	1.9	181	6.2
UBBA	e P	Z	21:51:19.2	95.1	42.0	1.7	136	6.1
GRA1	e P	Z	21:51:21.3	95.4	43.0	1.9	450	6.7
	e PP	Z	21:55:19.2					
	e SKSac	N	22:01:56.2					
	e SP	Z	22:04:04.2					
	e PKKPdf	Z	22:07:50.8					
	e SS	E	22:09:19.7					
	e L	Z	22:40:40.4			20.4	32005	6.8
TNS	e P	Z	21:51:24.6	96.2	40.7	1.9	172	6.3
FUR	e P	Z	21:51:26.2	96.5	43.2	1.9	407	6.7
STU	e P	Z	21:51:28.2	97.0	41.5	1.7	176	6.4
WLF	e P	Z	21:51:31.0	97.6	38.9	1.8	274	6.7
BFO	e P	Z	21:51:31.5	97.7	40.8	2.0	213	6.5

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/31 01:57:43.4 35.784N 141.916E 33.0N 4.9
 Near east coast of eastern Honshu, Japan SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:10:11.1	84.0	38.2	1.1	9	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/31 02:13:52.9 19.804S 170.877E 33.0N
 SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	02:33:25.3	144.9	28.4					
TANN	e PKPbc	Z	02:33:25.0	144.9	37.1					
UBBA	e PKPbc	Z	02:33:26.7	145.5	33.0					
GEC2	e PKPbc	Z	02:33:27.3	145.7	40.3					
GRA1	e PKPbc	Z	02:33:28.8	146.0	35.8					
TNS	e PKPbc	Z	02:33:30.5	146.5	31.0					
FUR	e PKPbc	Z	02:33:32.3	147.2	37.3					
STU	e PKPbc	Z	02:33:33.6	147.5	33.4					
WLF	e PKPbc	Z	02:33:34.4	147.7	27.7					
BFO	e PKPbc	Z	02:33:34.5	148.2	32.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/01/31	03:15:48.9	30.230S	176.850W	33.0N		6.4		SZGRF

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	03:35:41.2	155.7	15.2					
	e PKPab	Z	03:36:06.2							
IBBN	e PKPdf	Z	03:35:43.5	157.7	10.5					
	e PKPab	Z	03:36:14.8							
CLL	e PKPdf	Z	03:35:43.1	157.7	22.9	1.7	76			
	e PKPdif	Z	03:35:54.6			0.9	186			
	e PKPab	Z	03:36:15.6							
	e PP	Z	03:39:49.7							
	e PPP	Z	03:43:28.6							
	e PPr	Z	03:46:15.5							
	e PPPr	Z	03:49:00.9							
	e PSKS	N	03:50:16.7							
	e PPS	Z	03:53:10.9							
	e SS	E	03:59:59.0							
	e SSS	E	04:05:48.7							
	e LR	Z	04:31:42.2							
	e L	Z	04:41:53.8			22.0	11059		6.6	
CLZ	e PKPdf	Z	03:35:43.9	157.7	16.7					
	e PKPab	Z	03:36:14.7							
BRG	e PKPdf	Z	03:35:43.5	157.8	25.4					
	e PKPab	Z	03:36:14.9							
FBE	e PKPdf	Z	03:35:43.9	158.0	24.1					
	e PKPab	Z	03:36:15.6							
BUG	e PKPdf	Z	03:35:44.3	158.6	9.8					
MOX	e PKPdf	Z	03:35:44.1	158.6	20.4					
	e PKPab	Z	03:36:17.8							
TANN	e PKPdf	Z	03:35:44.7	158.6	22.6					
	e PKPab	Z	03:36:17.8							

WERD	e PKPdf	Z	03:35:44.5	158.7	22.2				
	e PKPab	Z	03:36:18.3						
GUNZ	e PKPdf	Z	03:35:44.6	158.7	22.3				
	e PKPab	Z	03:36:18.7						
UBBA	e PKPdf	Z	03:35:44.5	158.8	16.5				
	e PKPab	Z	03:36:18.8						
MANZ	e PKPdf	Z	03:35:44.9	159.1	22.2				
	e PKPab	Z	03:36:20.9						
GRA1	e PKPdf	Z	03:35:45.4	159.6	20.4				
	e PKPab	Z	03:36:22.6						
	e PP	Z	03:40:04.4						
	e PPP	Z	03:43:43.9						
	e		03:50:19.7						
	e		03:53:19.7						
	e SS	N	04:00:12.7						
	e SSS	E	04:06:19.2						
	e L	Z	04:53:57.4			21.4	6182	6.4	
GRFO	e PKPab	Z	03:36:22.4	159.6	20.4				
TNS	e PKPdf	Z	03:35:46.2	159.6	13.2				
	e PKPab	Z	03:36:22.7						
WET	e PKPdf	Z	03:35:45.6	159.7	24.9				
	e PKPab	Z	03:36:23.3						
GEC2	e PKPdf	Z	03:35:45.3	159.7	27.2				
	e PKPab	Z	03:36:23.3						
WLF	e PKPab	Z	03:36:26.9	160.4	7.8				
STU	e PKPdf	Z	03:35:47.5	160.9	16.1				
	e PKPab	Z	03:36:27.7						
FUR	e PKPdf	Z	03:35:46.9	161.0	22.1				
	e PKPab	Z	03:36:28.7						
BFO	e PKPdf	Z	03:35:47.4	161.5	14.2				
	e PKPab	Z	03:36:30.5						

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/01/31 07:55:19.6 49.002N 153.535E 33.0N 5.0
 Kuril Islands, Russia SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 08:06:51.4	73.9	24.0					
CLL	e P	Z 08:06:52.8	74.2	25.7	0.8	20	5.2		
BRG	e P	Z 08:06:53.9	74.3	26.2					
MOX	e P	Z 08:06:58.9	75.2	24.7	1.1	13	5.0		
UBBA	e P	Z 08:07:00.2	75.4	23.8					
BUG	e P	Z 08:07:00.5	75.5	22.1					
GRA1	e P	Z 08:07:04.6	76.1	24.4	0.8	17	5.2		
WET	e P	Z 08:07:04.6	76.2	25.4	1.0	13	5.0		
GEC2	e P	Z 08:07:04.6	76.2	25.8	1.8	18	4.9		
TNS	e P	Z 08:07:05.8	76.4	22.7	0.9	12	5.0		

./2007/bul0701.txt

Thu Apr 23 08:38:25 2020

71

BFO e P Z 08:07:15.4 78.1 22.5 1.0 12 5.0

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/31 10:52:45.1 40.260N 69.050E 33.0N 5.0 4.5
Tajikistan SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
SUW	e P	Z 10:59:21.2	33.4	95.2					
KWP	e P	Z 10:59:23.9	33.5	88.2					
OJC	e P	Z 10:59:38.6	35.4	87.0					
GKP	e P	Z 10:59:51.9	36.9	89.2					
KSP	e P	Z 10:59:57.7	37.6	85.3					
BRG	e P	Z 11:00:09.7	39.0	83.7	0.8	27	4.9		
GEC2	e P	Z 11:00:13.2	39.5	81.1	1.1	23	4.7		
CLL	e P	Z 11:00:14.0	39.6	83.6	0.9	16	4.8		
	e PP	Z 11:01:48.3							
	e PcP	Z 11:02:16.1							
	e (S)	Z 11:06:39.3							
	e L	Z 11:20:11.1			20.0	780		4.6	
WET	e P	Z 11:00:17.5	39.9	80.9					
TANN	e P	Z 11:00:18.1	40.0	82.1					
MOX	e P	Z 11:00:22.2	40.5	81.8	1.5	32	4.8		
GRA1	e P	Z 11:00:25.8	40.9	80.5	1.9	111	5.3		
	e L	Z 11:20:40.8			20.3	628		4.5	
BSEG	e P	Z 11:00:26.4	40.9	84.7	0.9	50	5.3		
FUR	e P	Z 11:00:27.4	41.2	78.8					
NRDL	e P	Z 11:00:27.6	41.2	82.9	1.3	47	5.1		
UBBA	e P	Z 11:00:30.3	41.5	81.0					
TNS	e P	Z 11:00:39.8	42.6	79.3	2.0	67	5.0		
BFO	e P	Z 11:00:42.4	43.0	77.2	1.0	17	4.8		
BUG	e P	Z 11:00:43.6	43.1	79.8					
WLF	e P	Z 11:00:52.9	44.1	77.3					

Date Origin Time Lat Long Depth mb Ms ML Source
2007/01/31 20:40:16.9 24.886N 69.942E 33.0N 5.0
India-Pakistan border region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:49:05.3	49.6	97.7					
WET	e P	Z 20:49:09.6	50.1	97.3					
ROTZ	e P	Z 20:49:13.1	50.7	97.3					
GRA1	e P	Z 20:49:17.9	51.3	96.4	1.3	27	5.0		
STU	e P	Z 20:49:27.4	52.5	94.0					
BFO	e P	Z 20:49:31.2	53.1	93.0					
TNS	e P	Z 20:49:31.9	53.1	94.6					

Format description

=====

(K. Klinge Email:klinge@szgrf.bgr.de and 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 comprehensively 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, SED, MAD)

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
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