

MONTHLY TELESEISMIC BULLETIN of SZGRF-ERLANGEN - January 1997

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H. Aichele, K. Klinge, R. Hohl, U. Mundl

date	distance	backazimut				
station	time	phase	comp	per[s]	ampl[nm]	magn
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SZGRF or NEIC-QED	LOCATION					

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1997-01-01	D 30.6					
GRA1	00:05:04.5	i P	d Z	T1.0	A29	mb5.1
GRA1	00:16:52.9	e L	Z	T21.1	A289	MS3.9

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1997-01-01						
GRA1	02:51:59.5	e PKP	Z			
NEIC: OT	02:32:21.2	15.5S 173.3W	dep 33km			mb4.0
TONGA ISLANDS						

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1997-01-01	D 43.4					
GRA1	05:56:45.8	e P	Z	T0.9	A11	mb4.6
GRA1	05:56:48.9	e pP	Z			
SZGRF: OT	05:48:46.9	31.4N 42.0W	dep 12km			
NORTH ATLANTIC RIDGE						

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1997-01-01						
GRA1	10:43:05.5	e P	Z			
NEIC: OT	10:38:51.0	34.8N 25.2E	dep 33km			mb4.0
CRETE						

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1997-01-01	D 29.8	AZ265				
GRA1	11:52:20.1	e P	Z	T1.3	A22	
GRA1	11:52:23.9	e pP	Z			
NEIC: OT	11:44:56.5	34.4N 37.3W	dep 10km			mb4.5
NORTHERN MID-ATLANTIC RIDGE						

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1997-01-01	D 2.5	277km				
GRB5	19:57:21.4	e Pn	Z			

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1997-01-01

GRA1 20:16:16.6 e (P) Z

NEIC: OT 19:57:07.2 23.6S 179.8E dep550km mb5.0

SOUTH OF FIJI ISLANDS

1997-01-01

GRA1 22:46:25.7 e Pdiff Z

GRA1 22:50:36.0 e PP Z

NEIC: OT 22:32:32.4 .1S 123.8E dep115km mb5.8

MINAHASSA PENINSULA, SULAWESI

1997-01-02 D 3.6 405km

GRA4 00:41:34.9 e Pn Z

GRA1 00:41:36.2 e Pn Z M13.9

1997-01-02

GRB3 03:16:52.0 e PKPbc Z

GRA1 03:16:52.1 e PKPbc Z

GRA1 03:17:06.4 e PKPab Z

NEIC: OT 02:57:51.7 23.8S 180.0W dep500km mb4.9

SOUTH OF FIJI ISLANDS

1997-01-02

GRA1 03:30:42.7 e PKP Z

1997-01-02

GRA3 10:47:59.2 e (P) Z

1997-01-02 D 3.5 391km

GRA3 10:57:57.3 e Pn Z

1997-01-02 D 79.6 AZ 89

GRA1 11:04:24.6 i P c Z T1.0 A29 mb5.2

SZGRF: OT 10:52:20.6 8.4N 94.9E dep 33km

NICOBAR ISLANDS REGION

1997-01-02 D 84.7

GRA1 11:23:28.9 e P Z

GRA1 11:24:52.0 e pP Z

SZGRF: OT 11:11:35.9 33.3N 137.8E dep362km

NEAR S. COAST OF HONSHU, JAPAN

1997-01-02 D 17.6

GRA1 15:25:48.8 e P Z T1.0 A40 mb4.5

SZGRF: OT 15:21:44.3 33.6N 21.1E dep 33km

## MEDITERRANEAN SEA

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1997-01-02

GRA1 18:39:44.6 e PKP Z  
 NEIC: OT 18:20:21.5 14.2S 166.7E dep 33km mb5.3  
 VANUATU ISLANDS

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1997-01-03 D 21.7

GRA1 00:05:29.4 e P Z mb4.2  
 GRA1 00:05:32.2 e (pP) Z  
 NEIC: OT 00:00:38.0 34.5N 32.1E dep 10km mb4.5  
 CYPRUS REGION

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1997-01-03 D 21.9 AZ326

GRA1 00:56:08.2 e P Z mb4.3  
 GRA1 00:56:15.6 e (pP) Z  
 GRA1 01:04:18.9 e L Z T22.0 A120 MS3.3  
 SZGRF: OT 00:51:18.5 65.1N 18.3W dep 32km  
 ICELAND

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1997-01-03 D 85.8 AZ287

GRA1 02:34:37.9 e P c Z mb5.0  
 GRA1 02:35:23.7 e pP Z  
 GRA1 02:38:06.7 i PP c Z  
 SZGRF: OT 02:22:19.9 14.0N 88.8W dep186km  
 EL SALVADOR

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1997-01-03 D150.2

GRA1 04:17:51.2 e PKPdf Z  
 GRA1 04:17:55.7 e PKPbc Z  
 GRA1 04:18:00.8 e PKPab Z  
 GRA1 04:18:38.6 e pPKPbc Z  
 GRA1 04:18:51.8 e pPKPab Z  
 GRA1 04:21:22.3 e PP Z  
 GRA1 05:24:24.3 e L Z T21.8 A387 MS5.2  
 NEIC: OT 03:58:22.2 19.1S 174.9W dep140km mb5.7  
 TONGA ISLANDS

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1997-01-03

GRA1 15:02:59.2 e Pn Z  
 GRA1 15:05:01.5 e (Sn) Z

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1997-01-03 D 83.3 AZ 91

GRA1 15:47:11.5 e P Z mb4.6  
 GRA1 15:47:19.5 e (pP) Z  
 SZGRF: OT 15:34:46.7 4.4N 96.1E dep 28km  
 NORTHERN SUMATERA

1997-01-03 D 55.0 AZ210  
GRA1 18:04:03.0 e P Z mb4.7  
GRA1 18:04:09.4 e pP Z  
GRA1 18:21:04.6 e L Z T18.7 A124 MS4.0  
SZGRF: OT 17:54:31.9 1.5S 12.7W dep 23km  
NORTH OF ASCENSION ISLAND

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1997-01-03 D 49.5 AZ137  
GRA1 21:09:46.7 e P Z mb4.7  
GRA1 21:09:52.5 e pP Z  
GRA1 21:34:06.4 e L Z T19.4 A96 MS3.8  
SZGRF: OT 21:00:56.5  
ETHIOPIA

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1997-01-03 D 68.8 AZ 10  
GRA1 22:02:29.9 i P c Z mb6.1  
GRA1 22:32:53.5 e L Z T19.9 A313 MS4.5  
SZGRF: OT 21:51:30.5 60.8N 172.9E dep 33km  
EASTERN SIBERIA

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1997-01-03 D 71.1 AZ 8  
GRA1 22:51:42.0 e P Z mb4.4  
GRA1 22:51:44.5 e pP Z  
SZGRF: OT 22:40:25.4 59.0N 177.1E dep 9km  
BERING SEA

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1997-01-03 D 80.6 AZ 12  
GRA1 23:51:56.2 e P Z mb4.5  
SZGRF: OT 23:39:48.7 49.0N 173.7E dep 33km  
ALEUTIAN ISLANDS REGION

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1997-01-04  
GRA1 02:31:28.3 e PKP Z  
GRA1 02:31:37.4 e pPKP Z  
NEIC: OT 02:12:23.3 6.9S 155.4E dep 33km mb4.6  
SOLOMON ISLANDS

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1997-01-04 D 91.4 AZ288  
GRA1 03:48:47.0 e P Z mb4.9  
GRA1 04:25:39.2 e L Z T18.0 A451 MS5.0  
SZGRF: OT 03:35:44.7 10.4N 93.2W dep 33km  
OFF COAST OF MEXICO

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1997-01-04  
GRA1 07:28:12.5 e Pn Z  
GRA1 07:29:59.4 e Sn Z  
NEIC: OT 07:26:07.5 42.6N 17.7E dep 10km  
ADRIATIC SEA

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1997-01-04 D 94.2 AZ 62  
GRA1 16:35:37.6 e P Z mb4.5  
SZGRF: OT 16:22:22.3 14.6N 126.1E dep 33km  
PHILIPPINE ISLANDS REGION

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1997-01-04 D149.4  
GRA1 17:09:45.3 e PKPdf Z  
GRA1 17:09:48.7 e PKPbc Z  
GRA1 17:09:53.5 e PKPab Z  
GRA1 17:12:10.3 e pPKPbc Z

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1997-01-04 D 94.2 AZ288  
GRA1 18:57:35.5 e P Z mb5.0  
GRA1 18:57:41.5 e pP Z  
GRA1 19:31:51.9 e L Z T20.5 A210 MS4.6  
SZGRF: OT 18:44:18.1 8.4N 95.4W dep 20km  
EAST CENTRAL PACIFIC OCEAN

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1997-01-05  
GRA1 00:36:23.4 e PKP Z  
NEIC: OT 00:17:47.7 17.9S 178.5W dep641km mb4.6  
FIJI ISLANDS REGION

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1997-01-05 D 45.9 AZ 82  
GRA1 08:56:55.5 i P c Z mb5.5  
GRA1 08:57:00.5 e (pP) Z  
GRA1 09:23:31.9 e L Z T20.6 A1155 MS4.8  
NEIC: OT 08:47:24.9 29.8N 80.5E dep 33km mb5.6  
NEPAL-INDIA BORDER REGION

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1997-01-05  
GRA1 09:33:08.4 e PKP Z  
GRA1 09:33:18.2 e (pPKP) Z

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1997-01-05 D 86.0 AZ 59  
GRA1 10:46:49.0 e P Z mb4.8  
GRA1 10:47:08.9 e pP Z  
GRA1 10:47:14.9 e (pX) Z  
SZGRF: OT 10:34:17.8 23.1N 123.5E dep 73km  
SOUTHWESTERN RYUKYU ISLANDS

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1997-01-05 D 23.8 AZ133  
GRA1 14:10:41.4 e P Z  
SZGRF: OT 14:05:31.4  
UNITED ARAB REPUBLIC

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1997-01-05

GRA1 14:42:37.7 e PKP Z  
GRA1 14:42:41.5 e pPKP Z

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1997-01-05 D 89.6 AZ 57  
GRA1 18:53:29.9 e P Z mb4.5  
GRA1 18:53:37.1 e pP Z  
GRA1 19:36:16.0 e L Z T20.1 A114 MS4.3  
SZGRF: OT 18:40:35.0 21.0N 126.9E dep 25km  
EAST OF PHILIPPINE ISLANDS

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1997-01-06  
GRA1 05:40:37.1 e PKPdf Z  
GRA1 05:43:21.1 e PP Z  
NEIC: OT 05:21:32.3 12.0S 166.7E dep175km mb4.7  
SANTA CRUZ ISLANDS

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1997-01-06  
GRA1 06:44:59.4 e PKPdf d Z  
NEIC: OT 06:25:16.4 19.2S 177.6E dep 33km  
SOUTH OF FIJI ISLANDS

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1997-01-06  
GRA1 09:35:28.1 e PKPdf Z  
GRA1 09:35:35.9 e PKPab Z  
NEIC: OT 09:15:40.7 20.4S 175.9W dep 33km mb4.6  
TONGA ISLANDS

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1997-01-06 D 24.0 AZ316  
GRA1 11:32:56.5 i P c Z mb4.3  
GRA1 11:33:10.7 e pP Z  
GRA1 11:42:29.1 e L Z T18.7 A914 MS4.3  
SZGRF: OT 11:27:47.7 62.3N 26.2W dep 58km  
ICELAND REGION

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1997-01-06 D 58.8 AZ 68  
GRA1 14:14:01.1 i P c Z mb5.1  
GRA1 14:41:33.8 e L Z T18.4 A199 MS4.3  
SZGRF: OT 14:04:07.1 37.4N 94.7E dep 33km  
TSINGHAI PROVINCE, CHINA

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1997-01-06  
GRA1 14:50:56.4 e PKPdf Z

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1997-01-06 D 23.6 AZ195  
GRA1 20:53:56.3 e P Z

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1997-01-06 D153.5  
GRA1 23:39:54.9 e PKPdf Z  
GRA1 23:40:03.0 e PKPbc Z  
GRA1 23:40:13.9 e PKPab Z  
GRA1 23:42:20.8 e pPKPbc Z

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1997-01-07 D 18.2 AZ143  
GRA1 02:18:28.8 e P Z  
GRA1 02:26:11.5 e L Z T18.4 A650 MS3.8  
GRA1 02:26:37.3 i ScP c Z

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1997-01-07 D 80.0 AZ 33  
GRA1 09:14:53.8 i P c Z mb5.0  
GRA1 09:15:09.6 e pP Z  
GRA1 09:51:48.0 e L Z T21.7 A100 MS4.1  
SZGRF: OT 09:02:52.3 42.0N 144.6E dep 56km  
HOKKAIDO, JAPAN REGION

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1997-01-07 D 27.9 AZ 70  
GRA1 18:20:38.0 e P Z  
SZGRF: OT 18:14:51.9 51.2N 55.4E dep 33km  
URAL MOUNTAINS REGION

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1997-01-07  
GRA1 22:01:55.5 e PKP Z

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1997-01-08 D 73.6 AZ276  
GRA1 06:54:33.9 i P d Z mb5.4  
GRA1 06:55:02.1 e pP Z  
GRA1 06:55:09.9 e sP Z  
GRA1 07:20:48.4 e L Z T22.0 A1137 MS5.1  
SZGRF: OT 06:43:12.9 16.4N 72.3W dep105km  
CARIBBEAN SEA

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1997-01-08 D 94.2 AZ295  
GRA1 23:04:33.2 e P Z mb4.9  
GRA1 23:38:55.8 e L Z T21.4 A147 MS4.4  
SZGRF: OT 22:51:18.0  
OFF COAST OF MEXICO

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1997-01-09 D 77.3 AZ357  
GRA1 08:04:07.1 i P c Z mb5.7  
GRA1 08:04:17.7 e pP Z  
GRA1 08:04:21.6 e sP Z  
GRA1 08:39:38.5 e L Z T21.9 A189 MS4.4  
SZGRF: OT 07:52:18.0 53.3N 164.0W dep 36km

## UNIMAK ISLAND REGION

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1997-01-09 D 38.4 AZ265  
GRA1 08:57:39.9 i P d Z mb5.3  
GRA1 08:57:47.1 e pP Z  
GRA1 08:57:52.9 e sP Z  
GRA1 09:10:36.9 e L Z T19.8 A1213 MS4.7  
SZGRF: OT 08:50:21.9 34.3N 37.1W dep 30km  
NORTH ATLANTIC RIDGE

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1997-01-09  
GRA1 11:59:48.9 e PKP Z  
GRA1 12:53:56.0 e L Z T20.7 A139  
NEIC: OT 11:40:52.1 5.5S 150.9E dep 33km mb5.0  
NEW BRITAIN REGION, P.N.G.

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1997-01-09  
GRA1 13:06:05.2 e PKP Z  
GRA1 13:06:16.2 e pPKP Z  
GRA1 13:06:22.8 e sPKP Z

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1997-01-09 D 44.7 AZ 75  
GRA1 13:51:39.9 i P c Z mb6.1  
GRA1 13:51:59.5 e pP Z  
GRA1 13:53:20.8 e PP Z  
GRA1 14:11:16.2 e L Z T20.9 A15708 MS5.9  
SZGRF: OT 13:43:36.6 41.5N 75.9E dep 81km  
KIRGHIZ SSR

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1997-01-09 D 60.6 AZ229  
GRA1 17:57:24.4 e P c Z mb4.8  
GRA1 17:57:30.1 e pP Z  
SZGRF: OT 17:47:14.2 .1N 29.8W dep 21km  
CENTRAL MID-ATLANTIC RIDGE

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1997-01-09 D 16.1 AZ147  
GRA1 19:12:17.3 e P Z  
SZGRF: OT 19:08:30.5 35.7N 22.0E dep 33km  
MEDITERRANEAN SEA

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1997-01-10  
GRA1 02:11:28.0 e PKP Z

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1997-01-10 D 44.0 AZ 84  
GRA1 02:32:06.8 i P c Z mb5.2  
GRA1 02:32:50.1 e pP Z  
GRA1 02:33:10.6 e sP Z



GRA1 02:33:53.2 e PP Z  
 GRA1 02:43:22.2 e L Z T20.1 A119 MS3.8  
 SZGRF: OT 02:24:20.0 36.7N 70.5E dep197km  
 HINDU KUSH REGION

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 1997-01-10 AZ140  
 GRA1 02:49:34.5 e Pn Z

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 1997-01-10 D 3.5 384km  
 GRA1 04:26:28.0 e Pn Z M13.4

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 1997-01-10 D 6.0  
 GRB1 10:26:41.5 e Pn Z  
 GRA1 10:26:45.4 e Pn Z  
 NEIC: OT 10:24:51.1 42.8N 17.9E dep 10km mb4.7  
 ADRIATIC SEA

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 1997-01-10 D 33.6 AZ 26  
 GRA1 15:45:27.1 e (P) Z

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 1997-01-10 D 91.8 AZ 86  
 GRA1 18:46:13.2 e P Z mb4.8  
 SZGRF: OT 18:33:08.6  
 SOUTH CHINA SEA

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 1997-01-10 D 80.7 AZ 31  
 GRA1 19:31:53.2 i P c Z mb5.3  
 GRA1 19:32:16.4 i pP d Z  
 GRA1 19:32:24.2 e sP Z  
 GRA1 19:34:30.9 e PP Z  
 GRA1 20:15:15.3 e L Z T18.7 A164 MS4.4  
 SZGRF: OT 19:19:51.1 42.3N 147.6E dep 85km  
 OFF COAST OF HOKKAIDO, JAPAN

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 1997-01-10 D152.2  
 GRA1 20:00:43.6 e PKPdf Z  
 GRA1 20:00:49.6 i PKPbc d Z  
 GRA1 20:00:58.5 e PKPab Z  
 NEIC: OT 19:41:57.0 20.8S 178.8W dep500km mb4.4  
 FIJI ISLANDS REGION

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 1997-01-10 D 80.0 AZ 36  
 GRA1 20:05:13.6 i P d Z mb4.7  
 GRA1 20:05:31.8 e pP Z  
 SZGRF: OT 19:53:13.2 40.7N 141.6E dep 67km  
 NEAR EAST COAST OF HONSHU, JAPAN

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 1997-01-10 D 15.0 AZ105  
 GRA1 21:50:04.3 e P Z  
 NEIC: OT 21:45:13.6 34.5N 32.2E dep 33km mb3.5  
 CYPRUS REGION  
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1997-01-11 D 21.3  
 GRA1 02:10:51.0 e P Z mb4.0  
 NEIC: OT 02:06:26.4 34.2N 26.7E dep 33km mb4.3  
 CRETE  
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1997-01-11 D 81.8 AZ 52  
 GRA1 04:22:01.7 e P Z mb4.7  
 GRA1 04:22:10.4 e pP Z  
 GRA1 04:22:13.8 e sP Z  
 NEIC: OT 04:09:29.3 29.1N 130.6E dep 45km mb4.2  
 RYUKYU ISLANDS  
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1997-01-11 D 88.9 AZ 43  
 GRA1 06:02:47.0 i P c Z mb5.3  
 GRA1 06:02:56.8 e pP Z  
 GRA1 06:03:04.1 e sP Z  
 NEIC: OT 05:50:21.6 31.6N 131.6E dep 33km mb5.0  
 KYUSHU, JAPAN  
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1997-01-11  
 GRA1 12:42:48.8 e PKP Z  
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1997-01-11 D 41.5 AZ264  
 GRA1 13:03:28.9 e P Z mb4.4  
 GRA1 13:03:34.7 e pP Z  
 GRA1 13:17:10.1 e L Z T21.6 A950 MS4.6  
 SZGRF: OT 12:55:43.5 31.9N 39.7W dep 22km  
 NORTH ATLANTIC RIDGE  
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1997-01-11 D 82.7 AZ 90  
 GRA1 14:47:12.7 e P Z mb4.8  
 GRA1 15:27:56.1 e L Z T18.6 A287 MS4.7  
 SZGRF: OT 14:34:52.0 5.7N 96.6E dep 33km  
 NORTHERN SUMATERA  
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1997-01-11  
 GRA1 19:51:15.1 e PKP Z  
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1997-01-11 D 96.2 AZ306  
 GRA1 20:41:27.9 i P c Z mb7.1  
 GRA1 20:41:46.5 e pP Z  
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GRA1 20:45:06.7 e PP Z  
GRA1 20:45:47.6 e pPP Z  
GRA1 20:58:50.8 e PKKP Z  
GRA1 21:14:23.8 e L Z T37.6 A284735 MS7.5  
NEIC: OT 20:28:26.0 18.2N 102.8W dep 33km mb6.5  
MICHOCAN, MEXICO

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1997-01-12

GRA1 03:48:22.4 e PKP Z  
NEIC: OT 03:28:50.0 16.2S 176.0E dep 33km mb4.7  
FIJI ISLANDS REGION

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1997-01-12 D 15.0 AZ138

GRA1 10:52:47.6 e P Z  
NEIC: OT 10:48:30.1 35.9N 28.7E dep 60km mb4.1  
EASTERN MEDITERRANEAN SEA

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1997-01-12 D 11.0

GRA1 12:13:22.3 e PnI Z  
GRA1 12:15:52.5 e SnI Z  
GRA1 12:18:47.8 e L Z T18.2 A8916 MS4.7

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1997-01-12 D 18.3 AZ148

GRA1 20:24:56.4 e (PnI) Z  
GRA1 20:32:50.1 e L Z T20.0 A119 MS3.2  
NEIC: OT 20:21:00.1 36.0N 25.5E dep100km mb4.1  
CRETE

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1997-01-13 AZ261

GRA1 01:13:23.5 e P Z  
GRA1 01:13:55.0 e pP Z  
GRA1 01:14:10.7 e sP Z  
GRA1 01:17:06.5 e (PP) Z  
NEIC: OT 01:00:17.0 9.1S 75.1W dep126km mb5.0  
CENTRAL PERU

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1997-01-13 D147.4

GRA1 01:58:44.9 e PKPdf Z  
GRA1 01:58:45.7 e PKPbc Z  
GRA1 01:58:48.2 e PKPab Z  
NEIC: OT 01:38:59.8 18.4S 174.7W dep 33km mb4.6  
TONGA ISLANDS

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1997-01-13 D 21.7

GRA1 10:24:16.3 e P Z T0.9 A50 mb4.9  
GRA1 10:28:15.6 e S Z  
GRA1 10:33:41.3 e L Z T21.9 A6893 MS5.0

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1997-01-13 D 84.8 AZ 38  
GRA1 11:49:55.2 i P d Z mb5.2  
SZGRF: OT 11:37:25.5 35.6N 142.6E dep 33km  
OFF EAST COAST OF HONSHU, JAPAN

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1997-01-13  
GRA1 12:59:57.9 e P Z  
GRA1 13:04:09.1 e (PP) Z  
GRA1 14:23:04.4 e L Z T18.8 A2109

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1997-01-13 D 23.5 AZ347  
GRA1 15:24:12.4 e P Z mb4.4  
GRA1 15:24:20.3 e (pP) Z  
SZGRF: OT 15:19:05.8 71.8N 5.6W dep 32km  
JAN MAYEN ISLAND REGION

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1997-01-13 D 83.5 AZ 59  
GRA1 16:16:12.8 e P Z mb4.6  
GRA1 16:16:21.3 e (pP) Z  
SZGRF: OT 16:03:48.3  
TAIWAN

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1997-01-13 D 21.8  
GRA1 18:20:50.1 e P Z  
NEIC: OT 18:15:55.0 34.4N 32.4E dep 10km mb4.0  
CYPRUS REGION

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1997-01-13 D 83.0 AZ 38  
GRA1 19:10:34.0 e P Z  
GRA1 19:10:51.3 e (pP) Z  
NEIC: OT 18:58:04.6 37.0N 143.1E dep 31km mb3.9  
OFF EAST COAST OF HONSHU, JAPAN

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1997-01-13  
GRA1 23:57:51.0 e PKP Z

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1997-01-14 D 80.8 AZ 26  
GRA1 00:09:23.5 e P Z mb4.6  
GRA1 00:09:35.9 e pP Z  
SZGRF: OT 23:57:16.2 44.6N 154.4E dep 43km  
KURIL ISLANDS REGION

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1997-01-14 D 22.8 AZ153  
GRA1 03:35:28.7 e P Z  
NEIC: OT 03:30:36.2 34.5N 32.5E dep 33km mb3.9  
CYPRUS REGION

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1997-01-14 D 85.7 AZ 40  
GRA1 06:33:34.7 i P d Z mb5.0  
GRA1 06:33:40.8 e pP Z  
SZGRF: OT 06:20:58.4 33.5N 140.4E dep 21km  
SOUTH OF HONSHU, JAPAN

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1997-01-14 D 75.8 AZ 18  
GRA1 08:24:50.1 i P c Z mb5.0  
GRA1 08:25:14.5 e pP Z  
GRA1 08:59:45.4 e L Z T21.5 A175 MS4.3  
NEIC: OT 08:13:00.0 49.3N 155.7E dep 33km mb5.1  
KURIL ISLANDS

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1997-01-14  
GRA1 09:35:10.2 e PKP Z  
GRA1 10:41:56.1 e L Z T19.6 A123  
NEIC: OT 09:15:26.4 22.4S 171.5E dep 33km mb5.0  
LOYALTY ISLANDS REGION

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1997-01-14  
GRA1 14:39:45.5 e P Z

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1997-01-14 D 66.4  
GRA1 18:14:17.4 e P Z mb4.8  
GRA1 18:37:26.9 e L Z T21.0 A253 MS4.4  
SZGRF: OT 18:03:39.9 16.9N 61.9W dep100km  
LEEWARD ISLANDS

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1997-01-14  
GRA1 21:29:55.7 e PKP Z  
GRA1 21:32:30.7 e (PP) Z  
GRA1 22:14:58.5 e L Z T19.1 A1059  
NEIC: OT 21:11:18.4 12.7N 143.8E dep 51km mb4.4  
SOUTH OF MARIANA ISLANDS

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1997-01-15  
GRA1 03:50:45.6 e PKP Z

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1997-01-15 D 20.8 AZ136  
GRA1 05:05:48.1 e P Z  
SZGRF: OT 05:01:09.7  
EASTERN MEDITERRANEAN SEA

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1997-01-15 D 3.5 389km  
GRA1 12:25:03.7 e Pn Z M13.6

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 1997-01-15 D 84.6 AZ111  
 GRA1 22:23:11.9 e P Z mb4.8  
 SZGRF: OT 22:10:40.8 9.0S 81.9E dep 33km  
 SOUTH INDIAN OCEAN  
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1997-01-16 D 84.3 AZ 58  
 GRA1 01:19:58.8 i P d Z mb5.6  
 GRA1 01:20:08.6 e pP Z  
 GRA1 01:20:12.4 e sP Z  
 GRA1 02:02:25.9 e L Z T21.3 A369 MS4.7  
 SZGRF: OT 01:07:31.2 25.1N 123.3E dep 34km  
 NORTHEAST OF TAIWAN  
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1997-01-16 D 38.9 AZ 82  
 GRA1 01:37:33.4 e P Z mb4.0  
 SZGRF: OT 01:30:11.5 40.4N 65.9E dep 33km  
 SOUTHEASTERN UZBEK SSR  
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1997-01-16 D 92.2 AZ300  
 GRA1 21:54:10.1 e P c Z mb5.5  
 GRA1 21:54:19.6 i pP d Z  
 GRA1 22:34:22.4 e L Z T21.7 A749 MS5.1  
 SZGRF: OT 21:41:04.1 17.0N 103.5W dep 32km  
 NEAR COAST OF MICHOACAN, MEXICO  
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1997-01-17  
 GRA1 01:20:58.9 i PKP d c Z  
 NEIC: OT 01:02:15.9 17.3S 178.9W dep550km mb4.7  
 FIJI ISLANDS REGION  
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1997-01-17 D 23.6 AZ334  
 GRA1 04:34:15.2 i P c Z mb4.9  
 GRA1 04:34:20.9 e pP Z  
 GRA1 04:34:23.3 e sP Z  
 GRA1 04:44:01.9 e L Z T18.0 A164 MS3.5  
 SZGRF: OT 04:29:06.6 68.7N 17.1W dep 23km  
 ICELAND REGION  
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1997-01-17 D111.1 AZ 78  
 GRA1 11:34:45.1 e Pdiff Z  
 GRA1 11:35:23.6 e pPdiff Z  
 GRA1 11:38:11.3 e PKP Z  
 GRA1 11:38:44.4 e pPKP Z  
 GRA1 11:39:14.7 e PP Z  
 GRA1 11:49:43.7 e PKKP Z  
 GRA1 11:49:53.3 e pPKP Z  
 GRA1 12:23:49.5 e L Z T22.0 A888 MS5.3  
 NEIC: OT 11:20:22.7 8.9S 123.5E dep120km mb6.2

## FLORES REGION, INDONESIA

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 1997-01-17 D 83.2 AZ 52  
 GRA1 15:49:39.9 e P c Z mb5.6  
 GRA1 15:49:48.2 e pP Z  
 GRA1 15:49:51.7 e sP Z  
 SZGRF: OT 15:37:17.2 29.5N 128.0E dep 29km  
 EAST CHINA SEA

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 1997-01-17 D 86.2 AZ 51  
 GRA1 16:05:46.3 i P c Z mb6.6  
 GRA1 16:09:02.0 e PP Z  
 GRA1 16:47:24.6 e L Z T18.5 A17633 MS6.5  
 SZGRF: OT 15:53:09.3 27.2N 130.0E dep 33km  
 RYUKYU ISLANDS

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 1997-01-17 D 58.1 AZ229  
 GRA1 21:20:41.8 e P d Z mb4.8  
 GRA1 21:20:48.7 e pP Z  
 GRA1 21:20:53.4 e sP Z  
 SZGRF: OT 21:10:49.6 2.3N 28.7W dep 27km  
 CENTRAL MID-ATLANTIC RIDGE

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 1997-01-17 D 52.9 AZ229  
 GRA1 21:24:17.1 i P d Z mb5.1  
 GRA1 21:24:23.7 e pP Z  
 GRA1 21:47:19.6 e L Z T20.0 A107 MS3.9  
 SZGRF: OT 21:15:02.2 7.1N 26.4W dep 24km  
 NORTH ATLANTIC OCEAN

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 1997-01-17 D 96.0 AZ191  
 GRA1 23:37:53.5 e P Z mb4.9  
 GRA1 23:37:58.7 e pP Z  
 GRA1 23:38:02.0 e sP Z  
 GRA1 23:42:08.7 e PP Z  
 GRA1 00:19:17.3 e L Z T20.0 A1186 MS5.4  
 NEIC: OT 23:24:08.9 47.3S 13.4W dep 10km mb5.2  
 SOUTHERN MID-ATLANTIC RIDGE

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 1997-01-18 D 15.0 AZ135  
 GRA1 04:16:05.3 e P Z  
 NEIC: OT 04:11:12.1 34.3N 32.4E dep 33km mb4.1  
 CYPRUS REGION

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 1997-01-18 D 45.0 AZ 83  
 GRA1 07:46:34.5 e P Z mb4.3  
 SZGRF: OT 07:38:23.3 36.6N 71.8E dep 33km  
 AFGHANISTAN-USSR BORDER REGION

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1997-01-18 D 94.6 AZ 66  
GRA1 08:18:06.0 e P Z mb5.0  
GRA1 09:04:34.2 e L Z T18.7 A141 MS4.5  
SZGRF: OT 08:04:48.9 11.5N 122.5E dep 33km  
PANAY, PHILIPPINE ISLANDS

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1997-01-18  
GRA1 09:43:59.3 e PKP Z  
GRA1 09:44:03.1 e (pPKP) Z

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1997-01-18  
GRA1 12:13:57.3 e PKPdf Z  
GRA1 12:14:00.4 e PKPbc Z  
GRA1 12:14:01.5 e PKPab Z

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1997-01-18 AZ147  
GRA1 13:12:49.8 e P Z

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1997-01-18 D 3.4 373km  
GRA1 16:04:30.1 e Pn Z  
GRA1 16:05:13.1 e Sn Z

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1997-01-18 D 45.7 AZ 83  
GRA1 16:35:53.9 e P Z mb4.6  
SZGRF: OT 16:27:37.2 36.0N 72.4E dep 33km  
AFGHANISTAN-USSR BORDER REGION

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1997-01-18 D 86.0 AZ 58  
GRA1 17:26:20.6 e P c Z mb5.1  
GRA1 17:26:26.0 e pP Z  
GRA1 17:26:29.0 e sP Z  
GRA1 18:08:27.3 e L Z T18.8 A543 MS5.0  
SZGRF: OT 17:13:42.3 23.2N 123.6E dep 20km  
SOUTHWESTERN RYUKYU ISLANDS

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1997-01-18 D 4.4 490km  
GRA1 18:20:54.4 e Pn Z  
GRA1 18:21:38.2 e Sn Z

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1997-01-18  
GRA1 18:39:40.0 e PKP Z

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1997-01-18 D 3.0 338km



GRA1 19:48:45.3 e Pn Z M13.2  
 GRA1 19:49:20.6 e Sn Z

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 1997-01-18 D 51.8 AZ139  
 GRA1 22:47:51.9 e P Z mb4.2  
 SZGRF: OT 22:38:45.8  
 ETHIOPIA

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 1997-01-19 D 67.6 AZ 73  
 GRA1 00:09:49.4 e P Z mb4.5  
 SZGRF: OT 23:58:56.9  
 BURMA-CHINA BORDER REGION

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 1997-01-19 D 98.5  
 GRA1 02:39:45.4 i P d Z mb5.1  
 GRA1 02:42:24.9 e pP Z  
 GRA1 02:43:48.0 e PP Z  
 NEIC: OT 02:27:11.8 5.0S 108.3E dep622km mb5.1  
 JAVA SEA

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 1997-01-19 D 86.9 AZ 63  
 GRA1 04:46:07.3 i P c Z mb5.2  
 GRA1 04:49:43.8 e PP Z  
 GRA1 05:29:35.0 e L Z T18.8 A3716 MS5.8  
 SZGRF: OT 04:33:26.5 19.5N 120.1E dep 33km  
 PHILIPPINE ISLANDS REGION

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 1997-01-19 D 79.4 AZ 3  
 GRA1 05:44:13.3 i P c Z  
 GRA1 05:44:32.6 e (pP) Z  
 GRA1 06:23:16.1 e L Z T21.4 A1146 MS5.2  
 SZGRF: OT 05:32:16.9 51.2N 173.6W dep 71km  
 ANDREANOF ISLANDS, ALEUTIAN IS.

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 1997-01-19 D 15.0 AZ193  
 GRA1 07:11:45.9 e P Z

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 1997-01-19  
 GRA1 07:17:37.4 e PKPdf Z  
 GRA1 07:17:42.8 e pPKP Z

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 1997-01-19  
 GRA1 08:44:01.3 e PKPdf Z  
 GRA1 08:44:10.6 e (pPKPdf) Z

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1997-01-19

GRA1 11:12:58.6 e PKPbc Z

GRA1 11:13:01.2 e PKPab Z

NEIC: OT 10:54:13.2 17.2S 179.0W dep500km mb4.5

FIJI ISLANDS REGION

1997-01-19 D151.5

GRA1 15:11:57.1 e PKPdf Z

GRA1 15:12:02.2 e PKPbc Z

GRA1 15:12:11.0 e PKPab Z

NEIC: OT 14:53:08.9 20.9S 178.7W dep500km mb4.6

FIJI ISLANDS REGION

1997-01-19

GRA1 17:13:43.8 e PKP Z

1997-01-19 D 11.2

GRA1 19:45:12.5 e Pn Z

GRA1 19:47:03.9 e Sn Z

GRA1 19:50:36.8 e L Z T18.5 A4555 MS4.4

1997-01-19 D 23.1 AZ349

GRA1 21:20:21.0 e P Z T1.3 A10 mb4.2

SZGRF: OT 21:15:18.3 71.8N 3.1W dep 33km

JAN MAYEN ISLAND REGION

1997-01-19

GRA1 22:08:46.2 e PKP Z

GRA1 23:10:35.0 e L Z T20.6 A329

NEIC: OT 21:49:25.3 12.0S 166.5E dep 33km mb4.8

SANTA CRUZ ISLANDS

1997-01-20

GRA1 00:00:39.8 e PKPdf Z

GRA1 01:06:00.2 e L Z T19.4 A212

NEIC: OT 23:41:15.8 11.9S 166.3E dep 33km mb4.7

SANTA CRUZ ISLANDS

1997-01-20 D 23.2 AZ360

GRA1 03:08:33.2 e P Z mb4.7

GRA1 03:16:39.6 e L Z T19.2 A148 MS3.5

SZGRF: OT 03:03:30.0 72.8N 11.1E dep 33km

NORWEGIAN SEA

1997-01-20 D 63.8 AZ 75

GRA1 03:40:39.7 e P Z mb4.7

GRA1 03:40:48.9 e (pP) Z

GRA1 03:40:53.7 e sP Z  
GRA1 04:06:47.6 e L Z T18.6 A307 MS4.5  
SZGRF: OT 03:30:11.4 29.1N 93.8E dep 34km  
TIBET

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1997-01-20

GRA1 05:57:51.0 e PKPab Z  
GRA1 05:58:03.5 e pPKPab Z  
NEIC: OT 05:38:18.6 19.3S 167.7E dep 33km mb4.3  
VANUATU ISLANDS REGION

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1997-01-20

GRA1 08:47:08.2 e P Z  
GRA1 08:47:22.7 e pP Z  
GRA1 09:34:46.6 e L Z T20.3 A296  
NEIC: OT 08:33:53.5 10.0N 126.1E dep 33km mb4.9  
PHILIPPINE ISLANDS REGION

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1997-01-20 D 73.3 AZ352

GRA1 13:28:08.4 i P c Z mb4.7  
GRA1 13:28:19.4 e pP Z  
GRA1 13:28:28.4 e sP Z  
GRA1 14:06:28.7 e L Z T18.6 A744 MS5.0  
SZGRF: OT 13:16:43.7 56.8N 154.9W dep 44km  
KODIAK ISLAND REGION

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1997-01-20 D 73.8 AZ358

GRA1 17:14:20.7 e P Z mb4.9  
GRA1 17:52:04.4 e L Z T18.1 A223 MS4.5  
NEIC: OT 17:02:46.2 56.3N 153.0W dep 33km mb4.3  
KODIAK ISLAND REGION

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1997-01-20 D 57.5 AZ 78

GRA1 18:01:51.3 e P Z  
GRA1 18:19:17.9 e L Z T18.6 A164 MS4.2  
NEIC: OT 17:53:41.1 38.1N 73.0E dep 33km mb4.6  
TAJIKISTAN

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1997-01-20

GRA1 19:23:15.9 e PKPab Z

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1997-01-20

GRA1 21:17:31.2 e P Z

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1997-01-21 D 55.4 AZ 74

GRA1 01:55:41.7 e P c Z mb4.9  
GRA1 02:18:48.3 e L Z T18.8 A8642 MS5.9

NEIC: OT 01:47:15.6 39.5N 76.9E dep 33km mb4.9  
SOUTHERN XINJIANG, CHINA

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1997-01-21 D 56.4 AZ 75  
GRA1 01:56:41.3 e P Z mb5.2  
GRA1 02:18:48.3 e L Z T18.8 A8642 MS5.9  
NEIC: OT 01:48:29.7 39.4N 77.0E dep 33km mb5.3  
SOUTHERN XINJIANG, CHINA

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1997-01-21  
GRA1 05:08:47.3 e PKPbc Z  
GRA1 05:08:55.6 e PKPab Z

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1997-01-21 D 84.3 AZ294  
GRA1 14:05:38.9 e P Z mb5.2  
SZGRF: OT 13:53:10.6 19.8N 93.7W dep 33km  
GULF OF CAMPECHE

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1997-01-21 D 53.9 AZ227  
GRA1 14:31:02.0 e P Z  
NEIC: OT 14:21:00.5 .9N 27.7W dep 10km mb4.9  
CENTRAL MID-ATLANTIC RIDGE

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1997-01-21  
GRA1 18:49:20.8 e PKPdf Z  
NEIC: OT 18:29:28.6 20.9S 174.2W dep 33km mb4.7  
TONGA ISLANDS

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1997-01-21 D 17.6  
GRA1 20:51:48.2 e Pc Z  
GRA1 20:51:51.1 i P d Z mb4.9  
GRA1 20:55:13.5 e S Z  
GRA1 20:59:27.8 e L Z T18.0 A2553 MS4.5

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1997-01-21 D 95.6 AZ302  
GRA1 21:32:55.2 e P Z mb5.2  
GRA1 21:33:06.0 e pP Z  
GRA1 21:33:14.0 e sP Z  
GRA1 22:13:22.5 e L Z T21.6 A659 MS5.1  
NEIC: OT 21:19:59.1 16.5N 97.9W dep 33km mb5.1  
OAXACA, MEXICO

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1997-01-22 D 4.5 500km  
GRA1 02:05:11.2 e Pn Z

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1997-01-22 D151.8

GRA1 04:43:49.8 e PKPdf Z  
GRA1 04:43:55.0 e PKPbc Z  
GRA1 04:44:04.4 e PKPab Z  
NEIC: OT 04:24:09.6 22.1S 175.9W dep100km mb4.8  
TONGA ISLANDS REGION

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1997-01-22 D 85.3 AZ313  
GRA1 07:29:40.8 e P Z  
GRA1 07:40:07.9 e S Z  
GRA1 08:05:31.8 e L Z T20.9 A1468 MS5.4  
SZGRF: OT 07:21:53.9  
NORTHWESTERN MEXICO

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1997-01-22 D 24.9 AZ 74  
GRA1 15:07:50.1 e P Z

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1997-01-22 D 22.3  
GRA1 18:02:18.4 e P d Z T2.1 A228 mb5.2  
GRA1 18:06:22.5 e S Z  
GRA1 18:13:36.8 e L Z T22.0 A6371 MS5.0

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1997-01-22 D 22.5  
GRA1 18:29:50.3 e P Z mb5.1  
NEIC: OT 18:24:53.7 36.2N 35.9E dep 33km mb5.2  
TURKEY

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1997-01-22 D 22.5 AZ106  
GRA1 18:32:29.8 e P Z mb4.7  
NEIC: OT 18:27:33.4 36.2N 35.9E dep 33km mb5.3  
TURKEY

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1997-01-22 D 3.6 396km  
GRB1 20:13:57.5 e Pn Z M13.8  
GRA1 20:13:57.9 e Pn Z M13.7

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1997-01-23 D 95.2 AZ246  
GRA1 02:28:30.9 i P c Z  
GRA1 02:29:37.1 e pP c Z  
GRA1 02:30:06.7 e sP Z  
GRA1 02:32:29.7 e PP Z  
GRA1 03:12:46.6 e L Z T18.8 A15552 MS6.5  
NEIC: OT 02:15:23.3 22.0S 65.6W dep275km mb6.3  
SOUTHERN BOLIVIA

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1997-01-23  
GRA1 05:59:02.2 e Pn Z

GRA1 06:00:56.0 e Sn Z

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1997-01-23 D 79.7 AZ360  
GRA1 08:02:05.2 i P c Z mb4.8  
GRA1 08:02:14.5 e (pP) Z  
GRA1 08:02:20.0 e sP Z  
SZGRF: OT 07:50:02.7 51.0N 168.0W dep 34km  
FOX ISLANDS, ALEUTIAN ISLANDS

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1997-01-23  
GRA1 10:40:22.3 e PKPdf Z

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1997-01-23 D 60.8 AZ 75  
GRA1 11:04:57.2 e P Z mb4.4  
SZGRF: OT 10:54:49.1  
TIBET

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1997-01-23  
GRA1 14:58:14.1 e (PKPab) Z

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1997-01-23 D150.8  
GRA1 15:42:54.2 e PKPdf Z  
GRA1 15:42:59.1 e PKPbc Z  
GRA1 15:43:05.6 e PKPab Z  
NEIC: OT 15:23:40.5 20.4S 176.0W dep300km mb4.7  
TONGA ISLANDS

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1997-01-23  
GRA1 16:36:51.5 e PKP Z  
GRA1 16:36:51.5 e PKP Z  
GRA1 16:38:11.8 e pPKP Z  
NEIC: OT 16:17:50.4 15.9S 175.4W dep345km mb4.6  
TONGA ISLANDS

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1997-01-24 D126.1  
GRA1 05:36:25.6 e PKPdf Z  
GRA1 05:36:37.2 e pPKPdf Z  
GRA1 06:37:43.8 e L Z T20.4 A467 MS5.1  
NEIC: OT 05:17:29.7 5.6S 153.8E dep 71km mb5.4  
NEW IRELAND REGION, P.N.G.

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1997-01-24 D 86.3 AZ292  
GRA1 06:27:47.0 e P Z mb4.8  
GRA1 07:07:33.7 e L Z T19.9 A202 MS4.5  
SZGRF: OT 06:15:08.9  
CHIAPAS, MEXICO

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1997-01-24 D155.6  
GRA1 09:34:43.1 e (PKPdf) Z  
GRA1 09:34:50.7 e PKPbc Z  
GRA1 09:35:03.3 e pPKPbc Z  
GRA1 09:35:10.8 e (PKPab) Z  
NEIC: OT 09:15:14.1 15.2S 173.7W dep 33km mb4.8  
TONGA ISLANDS

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1997-01-24  
GRA1 11:58:55.9 e PKP Z  
GRA1 13:11:47.0 e L Z T19.7 A172

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1997-01-24 D 78.9 AZ 8  
GRA1 15:41:02.9 i P d Z mb4.8  
GRA1 15:41:21.2 e pP Z  
GRA1 15:41:34.4 e (sP) Z  
GRA1 16:11:09.9 e L Z T21.9 A155 MS4.3  
NEIC: OT 15:29:26.1 54.6N 168.6E dep 33km mb4.9  
KOMANDORSKY ISLANDS REGION

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1997-01-24 D 40.3 AZ102  
GRA1 17:20:39.7 e P Z mb4.1  
NEIC: OT 17:12:56.9 28.2N 57.5E dep 33km mb4.4  
SOUTHERN IRAN

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1997-01-25 D 72.2 AZ 76  
GRA1 02:50:27.6 e P Z  
SZGRF: OT 02:39:06.4  
BURMA-CHINA BORDER REGION

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1997-01-25 D 49.3 AZ 78  
GRA1 03:17:41.5 e P d Z mb5.1  
SZGRF: OT 03:08:56.5 37.1N 79.2E dep 33km  
SOUTHERN SINKIANG PROV., CHINA

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1997-01-25 D 49.7 AZ 80  
GRA1 05:29:03.9 e P Z  
SZGRF: OT 05:20:15.7  
EASTERN KASHMIR

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1997-01-25 D141.4  
GRA1 11:23:57.4 e PKP Z  
NEIC: OT 11:04:44.4 16.0S 168.0E dep152km mb4.9  
VANUATU ISLANDS

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1997-01-25 D 3.6 398km  
GRB1 12:24:18.8 e Pn Z M14.0

GRA1 12:24:19.1 e Pn Z M13.8

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1997-01-25 D 3.6 400km  
GRA1 13:06:34.4 e Pn Z M13.6

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1997-01-25 D 65.3 AZ269  
GRA1 15:03:13.9 e P Z mb4.8  
GRA1 15:26:24.0 e L Z T18.3 A307 MS4.5  
SZGRF: OT 14:52:35.3 17.9N 61.3W dep 33km  
LEEWARD ISLANDS

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1997-01-25 D 69.2 AZ 79  
GRA1 20:18:32.2 e P Z mb4.8  
SZGRF: OT 20:07:29.3  
BURMA

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1997-01-26 D 48.7  
GRA1 07:06:40.7 e P Z  
NEIC: OT 06:58:23.3 12.1N 41.8E dep 10km mb4.6  
ETHIOPIA

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1997-01-26  
GRA1 09:08:43.6 e PKP Z  
GRA1 09:08:46.7 e PKPab Z  
NEIC: OT 08:50:04.1 17.7S 179.0W dep600km mb4.6  
FIJI ISLANDS REGION

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1997-01-26 D 88.2 AZ 61  
GRA1 14:33:01.6 e P Z  
NEIC: OT 14:19:03.9 6.1N 127.1E dep 33km mb4.8  
PHILIPPINE ISLANDS REGION

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1997-01-26  
GRA1 15:00:48.2 e PKP Z

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1997-01-26 D 36.4 AZ134  
GRA1 15:33:37.5 e P Z  
SZGRF: OT 15:26:35.5  
RED SEA

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1997-01-27 D 4.9 546km  
GRC1 00:47:32.1 e Pn Z M14.2  
GRA1 00:47:42.7 e Pn Z M14.3

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1997-01-27 D 79.2 AZ359



GRA1 12:24:03.2 e P d Z mb4.7  
GRA1 12:24:13.2 e pP Z  
SZGRF: OT 12:12:03.7 51.5N 167.4W dep 35km  
FOX ISLANDS, ALEUTIAN ISLANDS

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1997-01-27 D 93.3 AZ301  
GRA1 17:00:37.4 e P Z mb4.9  
GRA1 17:00:44.7 e pP Z  
GRA1 17:41:05.0 e L Z T21.9 A280  
SZGRF: OT 16:47:26.6 17.2N 105.6W dep 25km  
OFF COAST OF JALISCO, MEXICO

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1997-01-27  
GRA1 22:29:21.0 e PKPdf Z  
GRA1 22:29:31.9 e pPKPdf Z

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1997-01-28  
GRA1 04:40:20.7 e (PKP) Z

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1997-01-28  
GRA1 16:50:02.7 e PKP Z  
GRA1 17:44:29.5 e L Z T19.9 A111  
NEIC: OT 16:30:18.0 27.7S 136.1W dep 10km mb5.2  
SOUTH PACIFIC OCEAN

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1997-01-29 D 40.6 AZ105  
GRA1 03:58:41.4 e (P) Z

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1997-01-29  
GRA1 07:21:56.3 e PKPab Z  
NEIC: OT 07:02:22.4 15.6S 179.7E dep 33km mb4.9  
FIJI ISLANDS

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1997-01-29  
GRA1 08:00:07.2 e PKPdf Z  
GRA1 08:00:13.7 e pPKPdf Z

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1997-01-29 D 53.8 AZ 74  
GRA1 08:28:49.0 e P Z mb4.7  
GRA1 08:49:02.5 e L Z T18.5 A884 MS4.9  
NEIC: OT 08:20:22.0 39.3N 77.2E dep 33km mb4.5  
SOUTHERN XINJIANG, CHINA

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1997-01-29 D150.7  
GRA1 17:35:58.7 e PKPdf Z

GRA1 17:36:06.4 e pPKPdf Z  
GRA1 17:36:10.3 e (PKPab) Z

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1997-01-29 D154.6

GRA1 18:38:16.7 e PKPdf Z  
GRA1 18:38:24.4 e PKPbc Z  
GRA1 18:38:38.4 e PKPab Z  
GRA1 18:40:36.9 e pPKPdf Z  
GRA1 18:40:46.6 e (pPKPab)Z

NEIC: OT 18:19:33.5 24.0S 178.6E dep600km mb5.1  
SOUTH OF FIJI ISLANDS

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1997-01-29 D138.0

GRA1 23:38:45.1 e PKPdf Z  
GRA1 23:41:34.9 e PP Z  
GRA1 23:42:25.9 e SKP Z  
GRA1 00:41:42.8 e L Z T21.0 A2861 MS6.0

NEIC: OT 23:19:22.4 12.6S 166.0E dep 33km mb5.4  
SANTA CRUZ ISLANDS

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1997-01-30 D 83.6 AZ 42

GRA1 03:32:42.1 i P d Z mb5.0

SZGRF: OT 03:20:18.2 34.3N 137.2E dep 33km  
NEAR S. COAST OF HONSHU, JAPAN

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1997-01-30 D 69.1 AZ346

GRA1 05:39:31.3 i P c Z mb5.3  
GRA1 05:39:36.4 e pP d Z  
GRA1 06:09:44.6 e L Z T20.5 A127 MS4.1

SZGRF: OT 05:28:28.0 59.5N 142.9W dep 18km  
GULF OF ALASKA

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1997-01-30

GRA1 05:56:43.7 e (P) Z

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1997-01-30 D 73.2 AZ 75

GRA1 10:10:40.0 e P Z mb5.3  
GRA1 10:43:48.8 e L Z T20.2 A394 MS4.7

SZGRF: OT 09:59:12.9 22.6N 101.3E dep 33km  
BURMA-CHINA BORDER REGION

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1997-01-30

GRA1 14:13:24.2 e PKP Z

NEIC: OT 13:54:22.9 15.0S 178.6W dep300km mb4.2  
FIJI ISLANDS REGION

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1997-01-30

GRA1 21:55:34.6 e PKPab Z

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1997-01-30 D 55.9 AZ242  
GRA1 23:56:22.8 i P c Z mb5.0  
GRA1 23:56:27.3 i pP d Z  
GRA1 00:17:13.2 e L Z T18.3 A316 MS4.4  
SZGRF: OT 23:46:45.1 9.9N 36.5W dep 16km  
CENTRAL MID-ATLANTIC RIDGE

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1997-01-31  
GRA1 00:31:20.8 e P Z

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1997-01-31 D144.3  
GRA1 04:11:01.9 e PKPab Z  
GRA1 04:11:54.9 e pPKPab Z  
NEIC: OT 03:51:44.4 18.6S 169.1E dep150km mb5.0  
VANUATU ISLANDS

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1997-01-31 D 83.7 AZ281  
GRA1 10:07:43.6 i P d Z mb5.3  
GRA1 10:08:24.1 e pP Z  
SZGRF: OT 09:55:33.6 11.9N 82.9W dep163km  
NORTH OF PANAMA

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1997-01-31 D 59.6 AZ 81  
GRA1 20:12:17.7 i P c Z mb5.2  
GRA1 20:12:25.2 e pP Z  
GRA1 20:40:44.4 e L Z T18.1 A996 MS5.0  
SZGRF: OT 20:02:17.0 28.2N 86.2E dep 27km  
TIBET

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1997-01-31 D 92.5 AZ 43  
GRA1 23:30:54.5 i P d Z mb5.9  
GRA1 23:34:43.2 e PP Z  
SZGRF: OT 23:17:47.7 26.2N 141.4E dep 33km  
BONIN ISLANDS REGION

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