
1997-08-03 D 10.8
GRA1 06:40:07.3 e PnI Z
GRA1 06:44:45.7 e L Z T19.6 A146 MS2.9
NEIC: OT 06:37:35.5 41.4N 20.0E dep 10km mb3.5
ALBANIA

1997-08-03 D 1.9 206km
GRA1 10:57:30.1 e Pn Z M12.3
SZGRF: OT 10:56:56.4 50.5N 13.8E dep 0km
S of Teplice/CR

1997-08-03 D 86.9 AZ 64
GRA1 15:48:07.7 e P Z mb4.7
GRA1 15:48:22.8 e pP Z
GRA1 15:48:32.1 e (sP) Z
NEIC: OT 15:34:59.8 13.4N 120.6E dep 33km mb4.3
MINDORO, PHILIPPINE ISLANDS

1997-08-03
GRA1 20:49:58.4 e PKPdf Z

1997-08-04 D 93.7 AZ163
GRA1 00:53:48.7 e (P) Z mb5.0
GRA1 02:08:17.5 e L Z T21.4 A164 MS4.5
NEIC: OT 00:32:59.4 65.1S 177.2E dep 33km mb4.6
BALLENY ISLANDS REGION

1997-08-04 D 66.2
GRA1 07:26:11.0 e (P) Z
SZGRF: OT 07:15:26.9
INDIA-BANGLADESH BORDER REGION

1997-08-04 D 3.4 374km
GRA1 11:01:23.6 e Pn Z M13.0
GRA1 11:02:03.5 e Sn Z
NEIC: OT 11:00:26.7 46.3N 12.6E dep 10km
NORTHERN ITALY

1997-08-04 D 20.6 AZ219
GRA1 14:28:28.2 e P Z mb3.7
GRA1 14:39:29.8 e L Z T19.7 A21 MS2.5
SZGRF: OT 14:23:51.0
MOROCCO

1997-08-04 D 80.0 AZ 29
GRA1 17:30:29.6 e P Z mb4.4

SZGRF: OT 17:18:24.9 44.1N 150.3E dep 33km
KURIL ISLANDS REGION

1997-08-04 D152.6
GRA1 19:13:34.9 i PKPdf c Z
GRA1 19:13:40.6 i PKPbc d Z
GRA1 19:13:49.4 e pPKPbc Z
GRA1 19:13:51.5 e PKPab Z
GRA1 20:21:42.2 e L Z T19.5 A3652 MS6.2
NEIC: OT 18:53:58.9 15.1S 175.3W dep 33km mb5.5
TONGA ISLANDS

1997-08-04 D150.2
GRA1 19:41:07.3 e PKPdf Z
GRA1 19:41:11.4 e PKPbc Z
GRA1 19:41:15.4 e (pPKPbc)Z
GRA1 19:41:17.2 e PKPab Z
NEIC: OT 19:21:31.8 15.2S 175.5W dep 33km mb4.9
TONGA ISLANDS

1997-08-04
GRA1 19:58:44.8 e PKPdf Z

1997-08-04 D 15.0
GRA1 20:57:36.7 e P Z

1997-08-04
GRA1 22:19:19.1 e PKP Z

1997-08-04
GRA1 23:00:46.0 e PKP Z

1997-08-04
GRA1 23:33:05.5 e PKPdf Z
GRA1 23:33:10.2 e (pPKPdf)Z
NEIC: OT 23:12:36.5 26.4S 117.8E dep 33km mb2.7
WESTERN AUSTRALIA

1997-08-05 AZ263
GRA1 02:57:12.6 e P Z mb5.1
GRA1 02:57:22.0 e (pP) Z
GRA1 02:58:58.9 e PP Z
GRA1 03:13:22.2 e L Z T20.1 A1973 MS5.0
SZGRF: OT 02:48:24.3 28.8N 42.4W dep 33km
NORTH ATLANTIC RIDGE

1997-08-05 D150.1
GRA1 11:28:28.0 e (PKPdf) Z
GRA1 11:28:30.0 e PKPbc Z
GRA1 11:28:38.6 e PKPab Z
GRA1 11:30:49.4 e PP Z
NEIC: OT 11:09:46.8 20.7S 178.9W dep620km mb4.7
FIJI ISLANDS REGION

1997-08-05 D151.7
GRA1 21:05:14.0 e PKPdf Z
GRA1 21:05:20.0 i PKPbc d Z
GRA1 21:05:27.6 e PKPab Z
GRA1 22:14:04.2 e L Z T21.2 A230 MS5.0
NEIC: OT 20:45:27.3 21.3S 174.4W dep 33km mb4.9
TONGA ISLANDS

1997-08-05 D151.1
GRA1 21:44:45.1 e PKPbc Z
GRA1 21:44:52.4 e PKPab Z
NEIC: OT 21:25:58.5 20.2S 177.9W dep600km mb4.9
FIJI ISLANDS REGION

1997-08-06 D 67.3 AZ268
GRA1 00:53:32.2 i P d Z mb4.7
GRA1 01:18:22.8 e L Z T18.7 A95 MS4.0
SZGRF: OT 00:42:40.5 15.6N 61.8W dep 33km
LEEWARD ISLANDS

1997-08-06 D 41.3 AZ263
GRA1 01:02:31.1 e P Z mb4.0
GRA1 01:29:48.4 e L Z T20.8 A129 MS3.8
SZGRF: OT 00:54:48.9
NORTH ATLANTIC RIDGE

1997-08-06 D 46.6 AZ263
GRA1 01:14:51.9 e P Z mb4.5
GRA1 01:53:45.5 e L Z T19.7 A116 MS3.8
NEIC: OT 01:06:46.8 31.1N 41.4W dep 10km mb4.2
NORTHERN MID-ATLANTIC RIDGE

1997-08-06 D 34.1 AZ290
GRA1 01:44:32.7 i P c Z mb4.5
GRA1 01:44:41.3 e (pP) Z
NEIC: OT 01:38:58.1 52.1N 30.2W dep 10km
NORTHERN MID-ATLANTIC RIDGE

1997-08-06
GRA1 11:27:07.5 e PKPdf Z

GRA1 11:27:17.1 e pPKPdf Z
GRA1 11:27:21.1 e sPKPdf Z
NEIC: OT 11:08:03.0 7.0S 155.3E dep 33km mb5.3
SOLOMON ISLANDS

1997-08-06 D 51.7 AZ 85
GRA1 15:08:05.5 i P c Z mb5.4
GRA1 15:09:07.4 i pP c Z
GRA1 15:09:23.3 e sP Z
SZGRF: OT 14:59:26.3 31.4N 77.2E dep263km
NORTHERN INDIA

1997-08-07 D 81.3 AZ 27
GRA1 00:53:03.6 e P Z
SZGRF: OT 00:40:51.9
KURIL ISLANDS REGION

1997-08-07 D153.9
GRA1 01:22:55.6 i PKPdf d Z
GRA1 01:23:03.1 i PKPbc d Z
GRA1 01:23:15.6 e PKPab Z
GRA1 01:25:10.3 e pPKPbc Z
GRA1 01:25:16.3 e sPKPbc Z
NEIC: OT 01:04:09.2 23.4S 179.0E dep550km mb4.8
SOUTH OF FIJI ISLANDS

1997-08-07 D 84.3 AZ279
GRA1 02:03:60.0 e P Z mb4.6
GRA1 02:35:44.1 e L Z T21.5 A133 MS4.3
NEIC: OT 01:51:15.9 7.2N 82.6W dep 33km mb4.8
SOUTH OF PANAMA

1997-08-07 D 93.4 AZ 45
GRA1 04:40:24.8 e P Z mb5.3
SZGRF: OT 04:27:13.8 24.4N 140.1E dep 33km
VOLCANO ISLANDS REGION

1997-08-07 D 3.6 398km
GRA1 19:34:59.0 e Pn Z M13.7
SZGRF: OT 19:34:02.6 51.4N 16.2E dep 1km
POLAND

1997-08-07 D 82.3 AZ 91
GRA1 21:47:37.9 e P Z mb4.3
SZGRF: OT 21:35:19.2
NORTHERN SUMATERA

1997-08-08
GRA1 02:44:16.7 e P Z

GRA1 02:48:30.4 e S Z
GRA1 02:57:41.3 e L Z T20.9 A62 MS3.1

1997-08-08 D 77.6 AZ358
GRA1 03:39:38.3 i P d Z mb5.0
SZGRF: OT 03:27:47.3 53.1N 165.7W dep 33km
FOX ISLANDS, ALEUTIAN ISLANDS

1997-08-08 D 3.6 398km
GRA1 04:02:15.1 e Pn Z M13.4
SZGRF: OT 04:01:16.9 51.4N 16.2E dep 1km
POLAND

1997-08-08 D 22.2 AZ177
GRA1 09:21:17.6 e P Z
SZGRF: OT 09:16:22.9
LIBYA

1997-08-08 D 2.3 257km
GRC1 10:55:22.0 e Pn Z M12.9

1997-08-08 D 86.3 AZ 39
GRA1 20:47:08.7 i P d Z mb5.2
GRA1 20:50:17.5 e PP Z
GRA1 21:26:00.8 e L Z T19.3 A63 MS4.0
SZGRF: OT 20:34:31.1 33.6N 142.1E dep 33km
OFF EAST COAST OF HONSHU, JAPAN

1997-08-08
GRA1 21:57:45.4 e PKPdf Z

1997-08-08 D144.9
GRA1 22:46:57.8 e PKPdf Z
GRA1 23:57:34.5 e L Z T20.5 A9637 MS6.6

1997-08-08 AZ142
GRA1 23:18:52.0 e P Z

1997-08-09
GRA1 01:17:31.5 e PKPdf Z

1997-08-09 D 65.5 AZ 71
GRA1 04:58:40.4 i P c Z mb5.1

GRA1 04:58:49.5 e (pP) Z
GRA1 05:30:59.4 e L Z T21.1 A384 MS4.6
SZGRF: OT 04:48:01.0 30.6N 98.2E dep 32km
TIBET

1997-08-09 D 20.0
GRA1 06:51:16.4 e PnI Z
SZGRF: OT 06:46:44.1
EASTERN MEDITERRANEAN SEA

1997-08-09 D 79.8 AZ 24
GRA1 12:16:13.9 e P Z mb4.5
SZGRF: OT 12:04:10.4 46.0N 155.8E dep 33km
KURIL ISLANDS REGION

1997-08-09 D 95.1 AZ 65
GRA1 14:38:39.9 e Pdiff Z
GRA1 14:39:18.1 e pP Z
GRA1 15:18:45.8 e L Z T20.1 A31

1997-08-09 D 20.0 AZ147
GRA1 17:08:00.6 e PnI Z
NEIC: OT 17:05:26.8 36.5N 60.4E dep 41km mb4.3
TURKMENISTAN-IRAN BORDER REGION

1997-08-09 D149.1
GRA1 18:21:19.0 e PKPbc Z
GRA1 18:21:23.5 e PKPab Z
GRA1 18:21:34.3 e pPKPbc Z
GRA1 19:18:34.3 e L Z T22.0 A55 MS4.3

1997-08-10 AZ111
GRA1 05:28:20.2 e P Z

1997-08-10 D116.8
GRA1 09:39:17.7 i PKPdf d Z
GRA1 09:40:22.3 e PP Z
GRA1 10:35:56.6 e L Z T21.5 A2418 MS5.8

1997-08-10 D 4.1 452km
GRA1 10:49:37.5 e Pn Z M13.8

1997-08-10 D 91.9 AZ 65
GRA1 14:26:55.0 e P Z mb4.8

NEIC: OT 14:13:04.8 6.3N 126.4E dep 33km mb5.3
MINDANAO, PHILIPPINE ISLANDS

1997-08-10 D 79.1 AZ 22
GRA1 14:27:33.8 e P Z mb5.2
GRA1 14:27:46.9 i pP d Z
SZGRF: OT 14:15:35.9 47.7N 159.0E dep 46km
KURIL ISLANDS REGION

1997-08-10 D 78.2 AZ 22
GRA1 14:29:41.9 i P d Z mb5.0
SZGRF: OT 14:17:47.3 48.4N 158.1E dep 33km
KURIL ISLANDS REGION

1997-08-10 D 78.5 AZ 22
GRA1 14:42:48.1 i P d Z mb4.9
SZGRF: OT 14:30:52.0 48.0N 157.5E dep 33km
KURIL ISLANDS REGION

1997-08-10
GRA1 18:26:59.6 i PKPdf Z

1997-08-11 D 4.7 519km
GRA1 01:01:55.8 e Pn Z M13.5
SZGRF: OT 01:00:45.3 49.9N 18.4E
CZECHOSLOVAKIA

1997-08-11 D 5.0 556km
GRA1 06:41:32.5 e Pn Z
GRA1 06:42:33.6 e Sn N

1997-08-11 D147.6
GRA1 10:56:54.4 e PKPbc Z
NEIC: OT 10:37:11.6 18.1S 174.4W dep 96km mb4.4
TONGA ISLANDS

1997-08-11
GRA1 23:10:00.8 e PKPab Z

1997-08-12
GRA1 04:43:46.5 e PKPdf Z
GRA1 04:43:59.2 e pPKPdf Z
NEIC: OT 04:24:48.4 5.4S 151.5E dep 33km mb5.0
NEW BRITAIN REGION, P.N.G.

1997-08-12 D 97.1 AZ253

GRA1 11:45:04.3 e P c Z mb5.6
 GRA1 12:27:47.5 e L Z T20.9 A82 MS4.2
 SZGRF: OT 11:31:37.4 16.5S 70.5W dep 54km
 SOUTHERN PERU

 1997-08-13 D 42.9 AZ 84
 GRA1 00:09:10.7 i P c Z mb5.1
 GRA1 00:09:28.4 e pP Z
 GRA1 00:09:36.6 e (sP) Z
 GRA1 00:11:15.8 e PP Z
 GRA1 00:15:39.7 e S Z
 GRA1 00:31:19.6 e L Z T18.2 A256 MS4.2
 SZGRF: OT 00:01:20.5 37.6N 69.5E dep 72km
 AFGHANISTAN-USSR BORDER REGION

 1997-08-13
 GRA1 01:08:20.1 e PKP Z

 1997-08-13 D 85.8 AZ 55
 GRA1 04:57:39.7 i P c Z mb6.9
 GRA1 04:58:00.2 e pP Z
 GRA1 04:58:08.8 e sP Z
 GRA1 05:00:50.7 e PP Z
 GRA1 05:15:42.8 e PKKP Z
 GRA1 05:15:59.0 e pPKKP Z
 GRA1 05:38:30.3 e L Z T20.5 A3948 MS5.8
 SZGRF: OT 04:45:09.9 25.2N 126.1E dep 76km
 RYUKYU ISLANDS

 1997-08-13
 GRA1 07:27:54.3 e PKP Z
 GRA1 07:28:07.9 e pPKPdf Z
 NEIC: OT 07:08:14.7 15.8S 173.8W dep 33km mb4.8
 TONGA ISLANDS

 1997-08-13 D 29.8 AZ266
 GRA1 07:35:49.2 i P d Z mb4.6
 GRA1 07:35:59.0 e pP Z
 GRA1 07:36:02.9 e sP Z
 GRA1 07:46:47.4 e L Z T20.0 A625 MS4.2
 SZGRF: OT 07:29:46.4 39.9N 28.9W dep 37km
 AZORES ISLANDS

 1997-08-13 D 82.2 AZ 64
 GRA1 08:24:49.2 i P c Z mb5.1
 GRA1 08:25:08.1 e (pP) Z
 GRA1 08:57:22.5 e L Z T21.3 A310 MS4.6
 NEIC: OT 08:13:43.6 31.5N 105.2E dep 33km mb5.1

SICHUAN, CHINA

 1997-08-13 D 59.5 AZ 70
 GRA1 14:38:40.6 i P c Z mb5.3
 GRA1 14:38:47.5 i pP d Z
 GRA1 14:38:52.5 e sP Z
 GRA1 14:40:29.4 e PP Z
 GRA1 14:59:17.4 e L Z T18.8 A931 MS4.9
 NEIC: OT 14:30:11.0 41.9N 79.7E dep 33km mb5.1
 KYRGYZSTAN-XINJIANG BORDER REG.

1997-08-14 D 58.2 AZ 60
 GRA1 03:09:51.8 e P Z mb4.4

1997-08-14 D 3.6 396km
 GRA1 03:38:51.3 e Pn Z M13.5

1997-08-14 D 85.4 AZ129
 GRA1 08:02:28.7 e P Z mb5.0
 GRA1 08:02:36.2 e pP Z
 GRA1 08:02:41.4 e sP Z
 SZGRF: OT 07:49:52.3 20.2S 67.3E dep 28km
 MID-INDIAN RISE

1997-08-14
 GRA1 13:44:53.1 e (P) Z

1997-08-14
 GRA1 14:21:23.4 e PKPdf Z
 GRA1 15:21:12.4 e L Z T21.7 A507
 NEIC: OT 14:02:01.3 10.6S 164.7E dep 33km mb4.9
 SANTA CRUZ ISLANDS REGION

1997-08-14 D 38.4 AZ106
 GRA1 19:45:33.0 i P d Z mb4.1
 GRA1 19:47:57.7 e (PP) Z
 GRA1 20:04:50.1 e L Z T18.3 A185 MS3.9
 SZGRF: OT 19:38:15.0 29.0N 54.1E dep 33km
 SOUTHERN IRAN

1997-08-14 D 45.7 AZ 78
 GRA1 22:05:50.4 e P Z
 GRA1 22:54:48.0 e L Z T20.5 A483 MS4.4
 SZGRF: OT 21:57:33.7 39.2N 75.4E dep 33km
 SOUTHERN SINKIANG PROV., CHINA

1997-08-15 D 3.0 337km
GRA1 00:38:39.6 e Pn Z M12.7

1997-08-15 D 41.3 AZ103
GRA1 05:45:33.8 i P c Z mb4.2
GRA1 06:06:28.1 e L Z T19.9 A160 MS3.9
SZGRF: OT 05:37:51.6 28.4N 58.1E dep 33km
SOUTHERN IRAN

1997-08-15 D 79.8 AZ 31
GRA1 06:24:04.0 i P c Z mb5.0
GRA1 06:24:31.4 e pP Z
GRA1 06:24:38.8 e sP Z
SZGRF: OT 06:12:08.8 43.4N 147.7E dep100km
KURIL ISLANDS

1997-08-15 D 85.5 AZ281
GRA1 07:48:10.4 i P d Z mb5.1
GRA1 08:43:06.3 e L Z T19.1 A2167 MS5.6
SZGRF: OT 07:35:36.0 10.3N 83.8W dep 33km
COSTA RICA

1997-08-15 D110.6
GRA1 07:56:55.9 e PP Z
GRA1 07:57:14.3 e pPP Z
NEIC: OT 07:37:49.3 4.4S 105.7W dep 10km mb5.3
CENTRAL EAST PACIFIC RISE

1997-08-15 D 80.7 AZ 38
GRA1 16:20:39.1 i P c Z mb4.6
SZGRF: OT 16:08:30.5 39.0N 139.8E dep 33km
NEAR WEST COAST OF HONSHU, JAPAN

1997-08-15 D 79.5 AZ128
GRA1 18:35:48.5 e P Z mb4.4
SZGRF: OT 18:23:43.8 15.1S 64.1E dep 33km
MID-INDIAN RISE

1997-08-15 D 22.5 AZ351
GRA1 19:02:11.0 e P Z mb3.8
GRA1 19:10:09.1 e L Z T21.7 A107 MS3.2
SZGRF: OT 18:57:14.7
JAN MAYEN ISLAND REGION

1997-08-15
GRA1 20:17:00.2 e PKPdf Z

1997-08-15 D 95.8
GRA1 23:06:55.9 e Pdiff Z
GRA1 23:10:47.6 e PP Z
GRA1 23:47:16.0 e L Z T20.6 A764 MS5.2
NEIC: OT 22:53:31.1 5.9S 80.9W dep 33km mb4.8
NEAR COAST OF NORTHERN PERU

1997-08-16 D 49.2 AZ 78
GRA1 01:12:36.9 i P c Z mb4.9
GRA1 01:33:12.3 e L Z T20.2 A223 MS4.2
SZGRF: OT 01:03:52.9 37.2N 79.0E dep 33km
SOUTHERN SINKIANG PROV., CHINA

1997-08-16 D 67.6 AZ350
GRA1 05:23:36.8 e P Z mb4.5

1997-08-16
GRA1 10:21:18.6 e PKPab Z

1997-08-16
GRA1 14:09:04.9 e PKPdf Z

1997-08-17 D108.9
GRA1 05:12:07.1 e PKPdf Z
NEIC: OT 04:53:49.0 8.6S 120.6E dep124km mb5.3
FLORES REGION, INDONESIA

1997-08-17 D 96.9
GRC4 06:12:40.9 e P Z
GRA1 06:12:59.1 e P c Z mb5.2
GRA1 06:13:19.0 e pP Z
GRA1 07:00:50.8 e L Z T20.4 A94 MS4.3
NEIC: OT 05:58:57.9 2.5N 126.3E dep 33km mb5.1
NORTHERN MOLUCCA SEA

1997-08-17 D 39.8 AZ106
GRA1 06:50:13.2 e P Z mb3.8
GRA1 07:10:38.6 e L Z T18.1 A204 MS4.0
NEIC: OT 06:42:40.9 27.8N 54.7E dep 33km mb4.5
SOUTHERN IRAN

1997-08-17 D 39.0 AZ106
GRA1 07:16:01.7 e P Z mb4.0
GRA1 07:16:34.9 e pP Z
SZGRF: OT 07:08:50.4

SOUTHERN IRAN

1997-08-17 D149.5
GRA1 11:01:45.7 e PKPdf Z
GRA1 11:01:48.2 e PKPbc Z
GRA1 11:01:54.3 e (PKPab) Z

1997-08-17 D 19.0
GRA1 11:06:54.2 e PnI Z
GRA1 11:10:27.5 e SnI Z
GRA1 11:14:12.4 e L Z T19.7 A160 MS3.3

1997-08-17
GRA1 18:03:20.9 e PKPdf Z
GRA1 18:05:30.2 e (pPKPdf) Z

1997-08-17 D 79.5 AZ356
GRA1 19:03:05.0 e P Z mb4.3
GRA1 19:03:15.8 e pP Z
SZGRF: OT 18:51:03.8 51.0N 163.1W dep 38km
SOUTH OF ALASKA

1997-08-17 D139.0
GRA1 20:30:38.2 e PKPdf Z
GRA1 20:33:19.6 e PP Z
GRA1 21:37:17.3 e L Z T20.8 A2162 MS5.9
NEIC: OT 20:11:11.5 13.7S 167.4E dep 33km mb5.5
VANUATU ISLANDS

1997-08-17 D 85.9 AZ 52
GRA1 23:16:16.2 e P Z mb4.4
GRA1 23:16:28.3 e pP Z
GRA1 23:58:01.6 e L Z T21.3 A128 MS4.3
SZGRF: OT 23:03:41.9 27.0N 129.1E dep 42km
RYUKYU ISLANDS

1997-08-18
GRA1 11:16:07.6 e PKPdf Z
GRA1 12:20:27.0 e L Z T20.4 A272
NEIC: OT 10:56:38.5 13.6S 167.3E dep 33km mb5.2
VANUATU ISLANDS

1997-08-18
GRA1 14:57:32.6 e PKPdf Z
GRA1 14:57:46.4 e (pPKPdf) Z
GRA1 16:06:40.9 e L Z T21.1 A479

NEIC: OT 14:37:49.4 16.6S 173.2W dep 33km mb4.8
TONGA ISLANDS

1997-08-18 D 78.1 AZ200
GRA1 19:25:37.9 e P Z mb4.6
GRA1 19:56:09.2 e L Z T21.0 A82 MS4.0
SZGRF: OT 19:13:40.2 26.2S 10.6W dep 33km
SOUTH ATLANTIC RIDGE

1997-08-19 D 83.6 AZ 53
GRA1 04:39:02.6 e (P) Z
NEIC: OT 04:26:29.8 24.9N 123.2E dep 33km mb4.7
SOUTHWESTERN RYUKYU ISLANDS

1997-08-19
GRA1 08:44:39.5 e PKP Z

1997-08-19 D149.7
GRA1 09:54:16.1 i PKPbc c Z
GRA1 09:54:21.2 e (PKPab) Z
GRA1 09:54:40.3 e pPKPbc Z
NEIC: OT 09:34:38.2 15.6S 173.7W dep 33km mb4.8
TONGA ISLANDS

1997-08-19 D151.0
GRA1 17:16:40.9 e PKPdf Z
GRA1 17:16:46.4 i PKPbc d Z
GRA1 17:16:52.7 e PKPab Z
NEIC: OT 16:57:51.3 20.1S 177.6W dep500km mb4.7
FIJI ISLANDS REGION

1997-08-19 D 79.9 AZ 35
GRA1 18:50:03.6 e P Z mb4.4
GRA1 18:50:09.3 e pP Z
SZGRF: OT 18:37:57.4 41.3N 142.9E dep 20km
HOKKAIDO, JAPAN REGION

1997-08-19 D 3.7 410km
GRA1 19:26:38.0 e Pn Z M13.6
GRA1 19:27:22.1 e Sn E
SZGRF: OT 19:25:40.1 51.6N 16.1E dep 1km
POLAND

1997-08-19 D 88.1 AZ292
GRA1 20:03:15.4 e P Z mb4.6

1997-08-20 D 17.5 AZ226

GRA1 02:48:00.9 e P Z mb3.4
 GRA1 02:48:21.1 e pP Z

 1997-08-20

GRA1 04:44:34.8 e PKPdf Z
 GRA1 04:44:41.1 e pPKPdf Z

 1997-08-20 D 78.7 AZ 32

GRA1 05:23:35.8 i P c Z mb4.8

 1997-08-20 D 83.3 AZ 91

GRA1 07:27:42.2 e P c Z mb5.2
 GRA1 07:28:08.2 e pX1 Z
 GRA1 08:11:10.5 e L Z T19.4 A6696 MS6.0
 SZGRF: OT 07:15:18.3 4.6N 96.3E dep 33km

NORTHERN SUMATERA

 1997-08-20 D108.8

GRA1 15:05:16.6 e L Z T19.6 A4456 MS6.0
 NEIC: OT 13:51:15.8 41.6S 80.0E dep 10km mb5.6

MID-INDIAN RIDGE

 1997-08-20 D 79.9 AZ 26

GRA1 16:38:37.7 e P Z mb4.5
 SZGRF: OT 16:26:33.4

KURIL ISLANDS REGION

 1997-08-20 D 30.3 AZ278

GRA1 22:22:20.9 i P d Z mb4.4
 GRA1 22:22:25.8 e pP Z
 GRA1 22:32:10.5 e L Z T18.4 A272 MS3.9
 SZGRF: OT 22:16:11.5 44.6N 33.2W dep 19km

NORTH ATLANTIC RIDGE

 1997-08-20 D 83.5 AZ282

GRA1 23:06:28.2 e P Z mb4.5
 GRA1 23:06:35.4 e pP Z
 GRA1 23:06:43.5 e (sP) Z
 GRA1 23:40:01.1 e L Z T21.2 A84 MS4.1
 NEIC: OT 22:53:50.0 10.3N 86.6W dep 33km mb4.6

OFF COAST OF COSTA RICA

 1997-08-21 AZ145

GRA1 20:33:37.3 e P Z
 GRA1 20:33:42.0 e pP Z

1997-08-21

GRA1 20:41:07.4 e P Z

GRA1 20:41:22.7 e pP Z

GRA1 21:29:36.5 e L Z T21.4 A190

NEIC: OT 20:27:21.6 7.1N 126.9E dep 33km mb5.0

MINDANAO, PHILIPPINE ISLANDS

1997-08-21 D 4.5 497km

GRA1 22:07:11.6 e Pn Z M13.4

SZGRF: OT 22:06:04.8 49.7N 18.1E dep 10km

CZECHOSLOVAKIA

1997-08-22 AZ148

GRA1 03:20:42.3 e P Z

GRA1 03:25:59.0 e L Z T16.4 A468

1997-08-22 D 3.6 403km

GRA1 16:42:13.0 e Pn Z M13.6

SZGRF: OT 16:41:16.2 51.5N 16.2E dep 1km

POLAND

1997-08-22 D 76.4 AZ173

GRA1 19:13:37.3 e (P) Z

1997-08-22 D 18.7 AZ150

GRA1 23:00:15.4 e P Z mb3.5

SZGRF: OT 22:55:58.8

NEAR COAST OF LIBYA

1997-08-23 D 3.5 392km

GRA1 01:17:14.4 e Pn Z M12.8

SZGRF: OT 01:16:18.3 51.5N 16.0E dep 1km

POLAND

1997-08-23

GRA1 06:40:45.8 e PKP Z

NEIC: OT 06:22:06.3 17.7S 178.5W dep600km mb4.4

FIJI ISLANDS REGION

1997-08-23 AZ137

GRA1 16:55:32.2 e P Z

NEIC: OT 16:52:05.4 38.6N 22.8E dep 10km

GREECE

1997-08-23

GRA1 17:50:23.7 e PKPdf Z

GRA1 17:50:52.4 e (pPKPdf)Z
NEIC: OT 17:30:39.9 41.6S 146.4E dep 33km mb4.3
TASMANIA REGION, AUSTRALIA

1997-08-23 D 97.0 AZ 68
GRA1 18:47:43.4 e P Z mb4.9
GRA1 19:37:32.5 e L Z T20.3 A169 MS4.5
NEIC: OT 18:33:42.2 5.4N 126.4E dep 33km mb4.8
MINDANAO, PHILIPPINE ISLANDS

1997-08-23 D 3.6 404km
GRA1 19:48:13.6 e Pn Z M13.4
SZGRF: OT 19:47:16.7 51.4N 16.2E dep 1km
POLAND

1997-08-23
GRA1 23:59:52.1 e PKP Z

1997-08-24
GRA1 00:18:26.9 e PKP Z

1997-08-24 D 87.1 AZ286
GRA1 01:12:21.4 i P c Z mb5.7
GRA1 01:15:43.3 e PP Z
SZGRF: OT 00:59:39.1 12.9N 89.6W dep 33km
OFF COAST OF CENTRAL AMERICA

1997-08-24 D 22.4 AZ324
GRA1 03:09:23.1 i P c Z mb4.5
GRA1 03:09:31.3 i pP d Z
GRA1 03:17:42.2 e L Z T20.9 A372 MS3.8
SZGRF: OT 03:04:28.3 64.7N 20.3W dep 35km
ICELAND

1997-08-24 D 22.8 AZ325
GRA1 03:25:02.7 e P Z
NEIC: OT 03:20:03.1 62.6N 22.4W dep 10km mb3.8
ICELAND REGION

1997-08-24 D 23.6 AZ 89
GRA1 11:54:16.7 e P Z
NEIC: OT 11:48:11.4 37.7N 48.9E dep 10km mb4.4
NORTHWESTERN IRAN

1997-08-24 D 85.7 AZ 58
GRA1 12:30:18.2 e P d Z mb5.4
GRA1 12:30:26.5 e pP Z

GRA1 13:16:11.1 e L Z T18.3 A556 MS5.0
SZGRF: OT 12:17:42.5 24.0N 124.3E dep 29km
SOUTHWESTERN RYUKYU ISLANDS

1997-08-24 D 42.8 AZ 93
GRA1 13:23:49.7 i P c Z mb4.9
GRA1 13:25:48.4 e PP Z
GRA1 13:46:34.4 e L Z T19.3 A1251 MS4.8
SZGRF: OT 13:15:55.6 32.3N 64.5E dep 33km
SOUTHWESTERN AFGHANISTAN

1997-08-24 D 3.6 404km
GRA1 14:05:35.7 e Pn Z M13.1
SZGRF: OT 14:04:37.8 51.6N 16.1E dep 1km
POLAND

1997-08-24 D 48.0 AZ 96
GRA1 15:20:27.7 e P Z mb4.5
SZGRF: OT 15:11:52.0
PAKISTAN

1997-08-24 D 88.2 AZ 62
GRA1 16:00:36.3 e P Z mb4.9
GRA1 16:00:45.6 e pP Z
GRA1 16:47:17.3 e L Z T18.0 A252 MS4.7
SZGRF: OT 15:47:49.1 19.2N 121.9E dep 32km
PHILIPPINE ISLANDS REGION

1997-08-24 D 85.6 AZ 64
GRA1 19:11:14.2 i P d Z mb5.5
GRA1 19:11:24.2 e pP Z
GRA1 19:11:28.5 e sP Z
GRA1 19:56:58.2 e L Z T18.3 A1146 MS5.3
SZGRF: OT 18:58:40.1 20.4N 119.0E dep 35km
PHILIPPINE ISLANDS REGION

1997-08-24
GRA1 20:12:19.8 e PKPdf Z

1997-08-24 D 36.1 AZ108
GRA1 21:18:38.6 i P d Z mb5.1
GRA1 21:37:05.6 e L Z T19.3 A230 MS4.0
SZGRF: OT 21:11:40.1 29.8N 51.3E dep 33km
SOUTHERN IRAN

1997-08-25 D 88.0 AZ 65
GRA1 01:24:18.5 e P Z mb4.8
GRA1 01:24:53.1 e pP Z

GRA1 02:13:42.0 e L Z T21.1 A99 MS4.2
NEIC: OT 01:10:39.5 5.7N 126.3E dep133km mb5.2
MINDANAO, PHILIPPINE ISLANDS

1997-08-25 D 25.4 AZ104
GRA1 02:53:34.3 e P c Z mb4.7
GRA1 02:53:38.6 e pP Z
GRA1 02:53:41.6 e sP Z
GRA1 03:05:59.2 e L Z T20.8 A92 MS3.3
SZGRF: OT 02:48:08.2 38.6N 43.3E dep 18km
TURKEY

1997-08-25 D 86.3 AZ 63
GRA1 06:50:29.1 e P d Z mb4.9
GRA1 06:50:39.0 e pP Z
GRA1 06:50:43.2 e sP Z
SZGRF: OT 06:37:51.2 20.0N 119.7E dep 34km
PHILIPPINE ISLANDS REGION

1997-08-25 D 86.1 AZ 64
GRA1 07:10:21.5 e P d Z mb5.3
GRA1 07:10:30.0 e pP Z
GRA1 07:10:33.3 e sP Z
GRA1 07:55:56.7 e L Z T18.2 A148 MS4.4
SZGRF: OT 06:57:43.9 20.0N 119.4E dep 29km
PHILIPPINE ISLANDS REGION

1997-08-25 D151.9
GRA1 12:18:01.0 e PKPdf Z
GRA1 12:18:07.4 i PKPbc d Z
GRA1 12:18:14.8 e PKPab Z
GRA1 12:19:43.7 e pPKPbc Z
NEIC: OT 11:59:00.8 20.8S 177.8W dep394km mb5.3
FIJI ISLANDS REGION

1997-08-25 D151.5
GRA1 20:10:49.4 e PKPbc Z
GRA1 20:10:57.6 e PKPab Z
GRA1 20:11:09.6 e pPKPbc Z
GRA1 21:23:51.1 e L Z T19.6 A85 MS4.6
NEIC: OT 19:50:56.8 21.6S 174.7W dep 33km mb4.6
TONGA ISLANDS

1997-08-25 D 87.1 AZ 89
GRA1 21:37:09.7 i P c Z mb5.2
GRA1 21:37:19.5 e pP Z
GRA1 21:37:26.3 e sP Z
GRA1 22:25:48.0 e L Z T20.1 A344 MS4.8
SZGRF: OT 21:24:27.6 2.6N 99.8E dep 37km

NORTHERN SUMATERA

1997-08-26 D 46.2 AZ 95
GRA1 00:51:23.5 e P Z mb4.2
NEIC: OT 00:44:49.9 36.5N 53.0E dep 33km mb4.5
NORTHERN IRAN

1997-08-26
GRA1 02:27:08.2 e PKPdf Z
NEIC: OT 02:08:16.4 15.3S 178.7W dep400km mb3.6
FIJI ISLANDS REGION

1997-08-26 D 79.3 AZ 12
GRA1 03:05:09.8 i P c Z mb5.2
GRA1 03:40:33.0 e L Z T22.0 A38 MS3.7
NEIC: OT 02:53:34.2 53.0N 159.9E dep 33km mb5.1
OFF EAST COAST OF KAMCHATKA

1997-08-26 D 38.9
GRA1 03:46:57.4 e P Z
GRA1 03:52:54.8 e S Z
GRA1 04:27:43.9 e L Z T22.0 A727 MS4.5

1997-08-26 D 73.9 AZ208
GRA1 08:37:44.6 e P d Z mb4.8
NEIC: OT 08:27:11.8 7.2S 21.9W dep 10km mb4.7
SOUTH ATLANTIC OCEAN

1997-08-26 D 62.4 AZ217
GRA1 08:53:58.6 e P Z mb5.8
GRA1 08:56:16.6 e PP Z
GRA1 09:22:53.6 e L Z T19.2 A409 MS4.6
NEIC: OT 21:42:08.2 17.3S 167.8E dep 33km mb4.9
VANUATU ISLANDS

1997-08-26 D155.8
GRA1 15:40:52.9 e PKPdf Z
GRA1 15:41:01.9 e PKPbc Z
GRA1 15:41:18.3 e PKPab Z
GRA1 15:43:14.9 e pPKPdf Z
NEIC: OT 15:22:09.4 25.4S 178.3E dep610km mb5.4
SOUTH OF FIJI ISLANDS

1997-08-26 D 92.9 AZ 48
GRA1 21:44:57.6 e P Z mb5.1
GRA1 21:45:09.6 e pP Z
GRA1 22:28:01.1 e L Z T18.2 A174 MS4.5
SZGRF: OT 21:31:50.2 23.3N 137.0E dep 41km

PHILIPPINE SEA

 1997-08-27 D 20.0 AZ178
 GRA1 03:54:34.0 e PnI Z
 GRA1 04:03:20.9 e L Z T19.3 A137 MS3.3

1997-08-27 D 18.9 AZ144
 GRA1 07:00:44.9 e PnI Z
 GRA1 07:09:06.1 e L Z T20.2 A130 MS3.2
 SZGRF: OT 06:56:26.1 33.6N 24.5E dep 33km
 MEDITERRANEAN SEA

1997-08-27
 GRA1 11:16:38.5 e PKPdf Z
 GRA1 11:16:51.8 e (pPKPdf) Z

1997-08-27 D123.5
 GRA1 14:02:01.1 e PKPdf Z
 GRA1 14:11:50.7 e (SKKS) Z
 GRA1 14:56:37.6 e L Z T21.9 A1767 MS5.7
 NEIC: OT 13:42:52.8 6.0S 148.6E dep 33km mb5.8
 NEW BRITAIN REGION, P.N.G.

1997-08-27 D 28.0 AZ261
 GRA1 18:56:15.8 i P d Z mb5.1
 GRA1 18:56:21.5 e pP Z
 GRA1 18:56:25.6 e sP Z
 GRA1 19:06:16.0 e L Z T19.7 A511 MS4.1
 SZGRF: OT 18:50:26.7 38.8N 25.2W dep 24km
 AZORES ISLANDS

1997-08-28 D 3.6 397km
 GRA1 05:25:16.9 e Pn Z M13.7
 SZGRF: OT 05:24:21.3 51.4N 16.1E dep 1km
 POLAND

1997-08-28 D 27.1
 GRA1 11:15:56.0 i P c Z mb5.2
 GRA1 11:16:01.5 e (pP) Z
 GRA1 11:20:33.8 e (S) Z
 GRA1 11:25:26.1 e L Z T21.4 A2188 MS4.7
 SZGRF: OT 11:09:52.7 56.3N 33.2W dep 22km
 NORTH ATLANTIC OCEAN

1997-08-28
 GRA1 11:19:14.2 e PKPdf Z

1997-08-28

GRA1 18:14:47.9 e PKPdf Z
GRA1 18:14:53.1 e PKPbc Z
GRA1 18:15:02.7 e PKPab Z

1997-08-28 D 3.6 399km

GRA1 20:38:54.3 e Pn Z M13.6
SZGRF: OT 20:37:58.3 51.4N 16.2E dep 1km
POLAND

1997-08-28

GRA1 22:01:34.8 e PKPdf Z
GRA1 23:04:49.7 e L Z T21.0 A310

1997-08-29

AZ137
GRA1 02:29:40.1 e P Z

1997-08-29 D145.6

GRA1 07:13:31.9 e PKPdf d Z
GRA1 07:15:06.7 e pPKPdf Z
GRA1 07:15:43.9 e sPKPdf Z
GRA1 07:16:49.2 e PP Z
GRA1 07:18:03.4 e pPP Z
GRA1 07:18:25.7 e sPP Z
GRA1 08:14:46.2 e L Z T21.3 A5651 MS6.3
NEIC: OT 06:53:59.6 15.2S 175.7W dep 33km mb5.6
TONGA ISLANDS

1997-08-29

GRA1 07:40:10.2 e PKPdf Z

1997-08-29 D119.3

GRA1 08:33:01.2 e PKPdf Z
GRA1 08:34:21.7 e PP Z
NEIC: OT 08:14:10.9 3.5S 144.2E dep 33km mb5.9
NEAR N COAST OF NEW GUINEA, PNG.

1997-08-29

GRA1 10:58:09.4 i PKPdf d Z
GRA1 10:59:14.9 e (PP) Z
NEIC: OT 10:38:57.5 15.9S 175.0W dep256km mb4.6
TONGA ISLANDS

1997-08-29 D 23.6 AZ104

GRA1 14:51:23.0 e P Z
GRA1 15:09:39.7 e L Z T21.9 A264 MS3.7
SZGRF: OT 14:46:15.0
TURKEY

1997-08-29

GRA1 17:53:28.9 e PKPdf Z

1997-08-29

GRA1 19:35:47.4 e P Z
GRA1 20:25:56.6 e L Z T20.9 A488

1997-08-30 D 82.0 AZ 34

GRA1 03:48:27.6 i P c Z mb5.1
GRA1 03:48:37.9 e pP Z

SZGRF: OT 03:36:12.8 39.8N 144.7E dep 36km
OFF EAST COAST OF HONSHU, JAPAN

1997-08-30 D104.1

GRA1 03:46:50.2 e PP Z
NEIC: OT 03:28:34.2 14.7N 144.7E dep 33km mb5.0
MARIANA ISLANDS

1997-08-30 D 77.4 AZ 37

GRA1 05:05:55.7 e P Z mb5.9
GRA1 05:07:15.0 e pP Z
GRA1 05:08:40.7 e PP Z
SZGRF: OT 04:54:40.4 42.4N 138.7E dep349km
EASTERN SEA OF JAPAN

1997-08-30 D 15.0 AZ154

GRA1 05:55:38.2 e P Z
GRA1 06:27:17.9 e L Z T22.0 A118 MS3.0

1997-08-30 D 80.3 AZ 27

GRA1 07:24:48.4 i P c Z mb4.9
SZGRF: OT 07:12:42.2 44.6N 152.7E dep 33km
KURIL ISLANDS REGION

1997-08-30 D 3.6 403km

GRA1 14:43:51.0 e Pn Z M13.7
SZGRF: OT 14:42:53.5 51.4N 16.2E dep 1km
POLAND

1997-08-30

GRA1 16:12:21.2 e PKPdf Z
NEIC: OT 15:53:27.7 4.1S 154.3E dep 33km mb4.7
SOLOMON ISLANDS

1997-08-30 D 80.4 AZ 26
GRA1 21:28:06.5 i P c Z mb4.9
SZGRF: OT 21:15:59.6 44.7N 153.4E dep 33km
KURIL ISLANDS REGION

1997-08-30 D 80.6 AZ 27
GRA1 21:50:31.3 i P d Z mb4.6
GRA1 22:59:35.0 e L Z T18.5 A425 MS4.8
SZGRF: OT 21:38:23.7 44.2N 152.5E dep 33km
KURIL ISLANDS REGION

1997-08-31 D 80.0 AZ 29
GRA1 10:38:35.1 e P Z T0.8 A5 mb4.5
GRA1 10:38:48.1 e pP Z
GRA1 11:16:56.7 e L Z T20.6 A119 MS4.2
SZGRF: OT 10:26:32.3 44.1N 150.2E dep 45km
KURIL ISLANDS REGION

1997-08-31 D159.5
GRA1 11:20:29.1 i PKPab d Z
GRA1 11:20:33.9 e pPKPab Z
NEIC: OT 10:59:54.9 30.3S 178.0W dep 33km mb5.1
KERMADEC ISLANDS, NEW ZEALAND

1997-08-31 D104.0
GRA1 13:19:40.6 e PP Z
GRA1 13:19:52.0 e pPP Z
GRA1 14:05:50.5 e L Z T18.8 A264 MS4.8
NEIC: OT 13:01:21.9 14.7N 144.6E dep 33km mb5.0
MARIANA ISLANDS

1997-08-31 D 88.0 AZ288
GRA1 14:26:24.4 e P Z mb4.9
GRA1 14:26:40.8 e (pP) Z
GRA1 14:29:51.1 e PP Z
GRA1 14:30:19.0 e (pPP) Z
GRA1 15:00:19.1 e L Z T21.8 A1243 MS5.3
SZGRF: OT 14:13:41.1 12.8N 91.0W dep 58km
OFF COAST OF CENTRAL AMERICA

1997-08-31 D148.8
GRA1 22:05:26.6 e PKPdf Z
GRA1 22:05:29.6 e PKPbc Z
GRA1 22:05:32.9 e PKPab Z
GRA1 22:05:36.8 e pPKPbc Z

1997-08-31

GRA1 22:18:59.7 e PKPdf Z
