

MONTHLY TELESEISMIC BULLETIN of SZGRF-ERLANGEN - May 1997

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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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1997-05-01

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GRA1 03:30:15.7 e PKPdf Z
NEIC: OT 03:10:54.5 13.6S 166.1E dep 80km mb4.6
VANUATU ISLANDS
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1997-05-01

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GRA1 03:33:47.3 e PKP Z
GRA1 03:34:02.5 e pPKPdf Z
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1997-05-01 D152.1

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GRA1 03:45:21.6 e PKPdf Z
GRA1 03:45:27.4 i PKPbc d Z
GRA1 03:45:36.3 e PKPab Z
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1997-05-01 D 54.5 AZ219

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GRA1 05:06:11.4 e P Z mb4.5
GRA1 05:06:23.3 e (pP) Z
GRA1 05:06:30.0 e (sP) Z
GRA1 05:30:01.1 e L Z T18.5 A198 MS4.2
SZGRF: OT 04:56:46.9 1.9N 20.0W dep 45km
CENTRAL MID-ATLANTIC RIDGE
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1997-05-01 D 77.2 AZ 8

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GRA1 05:57:33.9 i P d Z mb4.4
SZGRF: OT 05:45:44.9 52.9N 178.7E dep 33km
RAT ISLANDS, ALEUTIAN ISLANDS
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1997-05-01

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GRA1 07:20:40.7 e PKPdf Z
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1997-05-01 D 78.8 AZ 8
GRA1 09:28:25.6 i P c Z mb4.9
SZGRF: OT 09:16:27.8 51.3N 178.0E dep 33km
RAT ISLANDS, ALEUTIAN ISLANDS

1997-05-01
GRA1 11:26:51.9 e PKPdf Z

1997-05-01 D 93.0
GRA1 11:50:47.0 i P d Z mb6.5
GRA1 11:54:34.3 e PP Z
GRA1 12:08:01.2 e PKKP Z
GRA1 12:34:37.5 e L Z T19.1 A61258 MS7.1

1997-05-01 D 15.0 AZ238
GRA1 14:03:55.3 e P Z

1997-05-01 D 51.7 AZ222
GRA1 19:38:07.1 e P Z mb4.1
SZGRF: OT 19:29:02.0
NORTH ATLANTIC OCEAN

1997-05-01 D 85.9 AZ 49
GRA1 19:47:38.6 e P Z mb4.8
GRA1 20:29:22.3 e L Z T18.1 A439 MS4.9
SZGRF: OT 19:35:02.9 28.5N 131.7E dep 33km
RYUKYU ISLANDS REGION

1997-05-01 D150.8
GRA1 20:19:05.4 e PKPdf Z
GRA1 20:19:10.3 e PKPbc Z
GRA1 20:19:16.6 e PKPab Z
NEIC: OT 20:00:24.6 20.0S 178.4W dep600km mb4.4
FIJI ISLANDS REGION

1997-05-01 D 89.0 AZ 64
GRA1 23:20:54.3 e P c Z mb4.8
GRA1 23:21:01.3 e pP Z
GRA1 00:02:45.0 e L Z T19.5 A85 MS4.2
SZGRF: OT 23:08:03.1 17.7N 121.3E dep 33km
LUZON, PHILIPPINE ISLANDS

1997-05-02 D 72.1
GRA1 00:52:50.2 e P Z mb4.2

1997-05-02

GRA1 02:16:49.6 e PKP Z

1997-05-02 D 87.9 AZ286

GRA1 11:20:39.6 e P Z mb5.3

GRA1 11:55:02.5 e L Z T20.1 A162 MS4.4

SZGRF: OT 11:07:53.3 11.7N 89.4W dep 33km

OFF COAST OF CENTRAL AMERICA

1997-05-03 D 7.5

GRA1 00:30:38.9 e Pn Z

GRA1 00:31:49.0 e (Sn) N

1997-05-03 D 87.3 AZ 59

GRA1 02:58:51.5 e P Z T1.6 A30 mb5.2

GRA1 03:41:59.0 e L Z T18.0 A543 MS5.0

SZGRF: OT 02:46:08.6 21.7N 123.9E dep 33km

SOUTHEAST OF TAIWAN

1997-05-03 D 7.4

GRA1 03:21:35.9 e Pn Z

1997-05-03 D147.3

GRA1 07:08:31.1 e (PKPdf) Z

GRA1 07:08:34.0 e (PKPab) Z

1997-05-03 D157.7

GRA1 11:01:57.4 e PKPdf Z

GRA1 11:02:28.5 e PKPab Z

GRA1 11:02:35.6 e pPKPab Z

GRA1 12:16:18.7 e L Z T20.0 A275 MS5.1

NEIC: OT 10:42:06.0 27.2S 176.5W dep 33km mb5.2

KERMADEC ISLANDS REGION

1997-05-03 D161.3

GRA1 17:05:48.6 i PKPdf d Z

GRA1 17:06:17.9 e pPKPdf Z

GRA1 17:06:31.0 i PKPab d Z

GRA1 17:10:11.5 e PP Z

GRA1 17:10:41.6 e SKP Z

GRA1 17:10:56.0 e pPP Z

GRA1 18:29:01.2 e L Z T20.6 A9725 MS6.6

NEIC: OT 16:46:02.8 31.6S 179.4W dep107km mb6.5

KERMADEC ISLANDS REGION

1997-05-03

GRA1 20:37:30.1 e PKPab Z

1997-05-03 D 69.1 AZ265

GRA1 22:50:31.7 e P Z T1.6 A17 mb5.0

GRA1 22:50:36.9 e (pP) Z

SZGRF: OT 22:39:26.5 12.5N 61.1W dep 18km

WINDWARD ISLANDS

1997-05-03 D 76.7 AZ200

GRA1 23:33:50.6 e P d Z mb4.6

SZGRF: OT 23:22:00.4 24.9S 10.7W dep 33km

SOUTH ATLANTIC RIDGE

1997-05-03 D 76.9 AZ200

GRA1 23:44:11.8 i P c Z mb5.3

SZGRF: OT 23:32:20.8 25.1S 10.3W dep 33km

SOUTH ATLANTIC RIDGE

1997-05-04 D 70.1

GRA1 01:56:05.9 i P d Z mb5.5

GRA1 02:23:48.2 e L Z T21.2 A607 MS4.8

1997-05-04 D 79.5 AZ 36

GRA1 03:37:32.4 i P d Z mb4.5

GRA1 03:38:55.1 e pP Z

SZGRF: OT 03:26:06.8 41.1N 141.2E dep363km

HOKKAIDO, JAPAN REGION

1997-05-04 D 76.5 AZ 24

GRA1 04:12:38.1 i P d Z mb4.5

SZGRF: OT 04:00:53.1 49.0N 153.5E dep 33km

KURIL ISLANDS

1997-05-04 D152.1

GRA1 04:18:08.4 e PKPdf Z

GRA1 04:18:14.5 e PKPbc Z

GRA1 04:18:23.1 e PKPab Z

GRA1 05:23:04.3 e L Z T21.2 A88 MS4.5

NEIC: OT 03:58:21.3 22.1S 175.8W dep 33km mb5.2

TONGA ISLANDS REGION

1997-05-04 D161.2

GRA1 09:57:37.7 e PKPdf Z

GRA1 09:58:19.8 e PKPab Z

NEIC: OT 09:38:11.8 32.0S 179.7W dep300km mb4.7

KERMADEC ISLANDS REGION

1997-05-04

GRA1 15:27:20.3 e PKP Z

1997-05-04

GRA1 16:30:47.1 e PKPdf Z

GRA1 16:31:15.8 e (pPKPdf)Z

NEIC: OT 16:11:07.2 16.4S 174.0W dep 33km mb4.3

TONGA ISLANDS

1997-05-04

GRA1 19:39:33.1 e PKP Z

1997-05-04 D 78.5 AZ 26

GRA1 22:28:31.7 e P Z mb4.9

GRA1 22:28:43.9 e pP Z

NEIC: OT 22:16:29.5 46.1N 153.3E dep 33km mb4.7

KURIL ISLANDS

1997-05-04 D 26.1 AZ305

GRA1 22:59:08.4 i P c Z mb4.6

GRA1 22:59:12.5 e pP Z

GRA1 23:08:33.3 e L Z T20.0 A694 MS4.2

SZGRF: OT 22:53:35.9 58.0N 31.5W dep 16km

NORTH ATLANTIC OCEAN

1997-05-04 D 27.1

GRA1 23:03:11.4 i P d Z mb5.0

GRA1 23:13:21.7 e L Z T18.2 A2381 MS4.8

1997-05-05 D 79.1 AZ 34

GRA1 02:00:43.5 i P c Z mb5.1

GRA1 02:00:51.8 e pP Z

GRA1 02:34:40.0 e L Z T21.2 A46 MS3.8

1997-05-05 D 91.3 AZ 62

GRA1 05:57:18.2 e P Z mb5.5

GRA1 05:57:32.0 e (pP) Z

GRA1 06:40:13.3 e L Z T18.5 A1632 MS5.5

NEIC: OT 05:44:17.2 14.9N 119.9E dep 33km mb5.3

LUZON, PHILIPPINE ISLANDS

1997-05-05 D 39.8 AZ107

GRA1 15:19:24.7 i P c Z mb4.5

GRA1 15:37:35.0 e L Z T19.3 A217 MS4.0

1997-05-05

GRA1 22:49:18.1 e PKP Z

1997-05-06

GRA1 01:35:29.8 e PKPab Z

GRA1 01:35:33.3 e (pPKPab) Z

1997-05-06 D 68.2

GRA1 01:42:17.3 i P d Z mb4.9

GRA1 01:42:29.8 e (pP) Z

GRA1 02:08:11.4 e L Z T21.5 A35 MS3.6

1997-05-06 D 82.2 AZ 88

GRA1 22:30:01.5 e P Z T1.7 A57

SZGRF: OT 22:17:43.5

NICOBAR ISLANDS REGION

1997-05-07 D 95.6

GRA1 02:29:08.8 e Pdiff Z

NEIC: OT 02:15:43.2 10.6S 75.4W dep 33km mb5.0

CENTRAL PERU

1997-05-07 D 29.8 AZ 95

GRA1 16:22:50.8 i P d Z mb5.2

GRA1 16:23:04.0 e pP Z

GRA1 16:36:42.2 e L Z T20.8 A495 MS4.1

SZGRF: OT 16:16:49.9 39.5N 51.0E dep 52km

CASPIAN SEA

1997-05-08 D 23.2 AZ279

GRA1 01:53:19.3 e (P) Z

1997-05-08 D 71.5 AZ 82

GRA1 03:03:58.9 i P c Z mb5.8

GRA1 03:04:10.0 i pP d Z

GRA1 03:06:21.3 e (PP) Z

GRA1 03:34:20.4 e L Z T20.4 A4872 MS5.8

SZGRF: OT 02:52:42.4 19.1N 94.7E dep 39km

BURMA

1997-05-08 D154.0

GRA1 06:15:30.4 e PKPdf Z

GRA1 06:15:35.3 e PKPbc Z

GRA1 06:15:40.4 e PKPab Z
GRA1 06:16:32.2 e (pPKPbc)Z
NEIC: OT 05:56:10.5 19.3S 175.9W dep218km mb4.9
TONGA ISLANDS

1997-05-08 D 76.2 AZ 18
GRA1 06:18:52.8 i P c Z mb5.4
GRA1 06:19:05.6 e pP Z
GRA1 06:56:08.0 e L Z T18.2 A844 MS5.1
SZGRF: OT 06:07:09.3 51.4N 161.7E dep 45km
OFF EAST COAST OF KAMCHATKA

1997-05-08
GRA1 08:25:12.2 e PKP Z

1997-05-08
GRA1 11:30:44.6 e (PKPdf) Z
GRA1 11:30:58.9 e PKPab Z

1997-05-08 D 79.1 AZ360
GRA1 13:41:26.2 i P c Z mb6.1
GRA1 14:19:22.0 e L Z T19.9 A3565 MS5.7
SZGRF: OT 13:29:26.5 51.6N 168.7W dep 33km
FOX ISLANDS, ALEUTIAN ISLANDS

1997-05-08 D 87.3 AZ283
GRA1 14:13:45.8 i P c Z mb5.0
GRA1 14:14:04.4 e pP Z
GRA1 14:47:53.7 e L Z T19.1 A2920 MS5.7
SZGRF: OT 14:01:06.9 10.6N 87.1W dep 67km
OFF COAST OF COSTA RICA

1997-05-08 D 90.1 AZ295
GRA1 16:11:41.5 i P c Z mb5.0
GRA1 16:11:46.0 e pP Z
GRA1 16:45:07.7 e L Z T19.5 A146 MS4.4

1997-05-08 D 45.0 AZ 78
GRA1 20:11:07.8 i P d Z mb4.7
SZGRF: OT 20:02:56.7 39.5N 74.5E dep 33km
SOUTHERN SINKIANG PROV., CHINA

1997-05-09 D 88.2 AZ 49
GRA1 05:02:15.2 e P d Z mb5.0
GRA1 05:02:27.7 e pP Z
GRA1 05:45:16.7 e L Z T20.9 A108 MS4.2

SZGRF: OT 04:49:29.6
EAST OF RYUKYU ISLANDS

1997-05-09

GRA1 06:50:19.0 e PKPdf Z
GRA1 06:50:23.0 e pPKPdf Z
GRA1 07:57:28.4 e L Z T18.2 A199
NEIC: OT 06:31:04.6 44.7S 117.8E dep 10km mb5.2
SOUTH OF AUSTRALIA

1997-05-09 D 91.0 AZ300

GRA1 08:46:16.5 e P Z
GRA1 09:26:33.2 e L Z T19.2 A500 MS5.0
NEIC: OT 08:33:22.7 14.0N 92.4W dep 33km mb4.8
OFF COAST OF CHIAPAS, MEXICO

1997-05-09 D105.3

GRA1 09:25:17.4 e PP Z
GRA1 10:12:58.8 e L Z T19.7 A5170 MS6.1
NEIC: OT 09:06:37.3 13.2N 144.7E dep 29km mb6.0
MARIANA ISLANDS

1997-05-09 D 79.5 AZ 2

GRA1 10:37:45.4 i P c Z mb5.2

1997-05-09 D 80.2 AZ 27

GRA1 17:18:16.5 e P Z mb4.9
GRA1 17:18:30.6 e pP Z
GRA1 17:18:39.3 e sP Z
SZGRF: OT 17:06:13.6 44.6N 152.5E dep 53km
KURIL ISLANDS REGION

1997-05-09 D 84.0

GRA1 17:35:26.8 e P Z mb5.0
GRA1 18:17:02.9 e L Z T19.5 A131 MS4.3

1997-05-09

GRA1 18:45:16.9 e Pn Z
GRA1 18:52:36.2 e L Z T20.2 A579 MS3.8

1997-05-10 D 79.8 AZ 28

GRA1 04:51:38.2 e P Z mb4.6
GRA1 05:30:33.3 e L Z T20.1 A85 MS4.1

1997-05-10 D 79.9

GRA1 04:56:53.3 e P Z mb4.4

1997-05-10 D 79.3 AZ 28
GRA1 06:32:26.0 e P Z mb4.7
GRA1 07:07:06.4 e L Z T19.3 A133 MS4.3
SZGRF: OT 06:20:25.4 45.0N 150.6E dep 33km
KURIL ISLANDS

1997-05-10 D 38.6 AZ 96
GRA1 08:04:57.2 i P c Z mb6.6
GRA1 08:06:34.4 e PP Z
GRA1 08:23:41.9 e L Z T21.2 A118658 MS6.7
SZGRF: OT 07:57:37.4 33.9N 59.5E dep 33km
IRAN

1997-05-10 AZ 97
GRA1 08:44:51.2 e P Z

1997-05-10 D 35.9 AZ 95
GRA1 09:27:01.3 e P Z mb4.4
SZGRF: OT 09:20:04.8 35.9N 57.2E dep 33km
IRAN

1997-05-10 D 39.5 AZ 94
GRA1 10:27:26.4 e P Z
SZGRF: OT 10:19:59.3
IRAN

1997-05-10 D 39.2
GRA1 10:34:50.2 e P Z mb4.7
NEIC: OT 10:27:24.1 33.7N 59.9E dep 33km mb4.6
NORTHERN IRAN

1997-05-10 D 28.2 AZ 98
GRA1 12:30:41.6 e P Z mb4.3
SZGRF: OT 12:24:52.4 38.9N 48.0E dep 33km
N.W. IRAN-USSR BORDER REGION

1997-05-10 D 39.2 AZ 97
GRA1 13:34:10.0 e P Z mb4.1
SZGRF: OT 13:26:45.5
IRAN

1997-05-10 D 39.5 AZ 96
GRA1 14:12:10.3 e P Z mb4.1
SZGRF: OT 14:04:43.1
IRAN

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1997-05-10      D155.2
  GRA1 18:53:52.6 e PKPdf  Z
  GRA1 18:54:01.7 e PKPbc  Z
  GRA1 18:54:16.2 e PKPab  Z
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1997-05-10      D 92.6  AZ 91
  GRA1 19:07:03.5 e P      Z      mb5.7
  GRA1 19:07:19.3 e pP     Z
  GRA1 19:10:43.3 e PP     Z
  GRA1 19:58:18.1 e L      Z T21.4 A273 MS4.7
NEIC: OT 18:53:52.9 3.2S 101.5E dep 33km mb5.5
  SOUTHERN SUMATERA, INDONESIA
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1997-05-10      D 30.3  AZ 98
  GRA1 19:59:14.1 e P      Z      mb4.2
SZGRF: OT 19:53:06.2
  CASPIAN SEA
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1997-05-10      D 33.9  AZ 98
  GRA1 22:21:24.4 e P      Z      mb4.2
SZGRF: OT 22:14:45.3
  IRAN
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1997-05-10      D 32.2  AZ 98
  GRA1 22:32:05.7 e P      Z      mb4.0
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1997-05-10      D 27.8  AZ134
  GRA1 23:07:38.7 e P      d Z      mb4.5
  GRA1 23:07:42.1 e (pP)   Z
  GRA1 23:20:51.3 e L      Z T21.4 A78 MS3.3
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1997-05-10      D 40.0  AZ 96
  GRA1 23:43:09.8 e P      Z      mb4.0
SZGRF: OT 23:35:38.5
  IRAN
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1997-05-11      D 26.2  AZ 98
  GRA1 01:37:04.5 e P      Z      mb4.2
SZGRF: OT 01:31:33.5 40.0N 45.8E dep 33km
  EASTERN CAUCASUS
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1997-05-11      D150.1
  GRA1 02:47:42.6 e PKPdf  Z
  GRA1 02:47:50.7 e PKPbc  Z
  GRA1 02:47:52.4 e PKPab  Z

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 1997-05-11 D159.9
 GRA1 07:16:29.9 e PKPab Z
 GRA1 07:16:39.6 e pPKPab Z
 GRA1 08:21:55.5 e L Z T21.0 A76 MS4.5

1997-05-11 D 45.9 AZ 97
 GRA1 08:31:55.7 e P Z mb4.3
 SZGRF: OT 08:23:36.7
 PAKISTAN

1997-05-11 D 81.9 AZ272
 GRA1 13:33:07.3 e P Z mb4.4
 GRA1 13:33:20.2 e pP Z

1997-05-11 D 81.9
 GRA1 18:28:57.9 e P Z mb4.4
 NEIC: OT 18:16:59.7 6.7N 73.0W dep170km mb4.8
 NORTHERN COLOMBIA

1997-05-11
 GRA1 18:29:21.6 e PKPdf Z
 GRA1 18:29:35.5 e pPKPdf Z
 GRA1 19:37:47.3 e L Z T21.0 A106

1997-05-11 D128.0
 GRA1 22:35:24.2 e PKPdf Z
 GRA1 23:28:01.1 e L Z T21.4 A1922 MS5.8
 NEIC: OT 22:16:15.4 36.1S 97.3W dep 10km mb5.6
 WEST CHILE RISE

1997-05-11
 GRA1 22:56:52.5 e PKPab Z
 GRA1 22:57:04.4 e pPKPab Z

1997-05-11 D 82.4 AZ 38
 GRA1 23:11:59.7 i P c Z mb6.1
 GRA1 23:12:08.9 e (pP) Z
 GRA1 23:15:03.6 e (PP) Z
 SZGRF: OT 22:59:41.8 37.8N 141.4E dep 32km
 NEAR EAST COAST OF HONSHU, JAPAN

1997-05-12
 GRA1 02:15:52.6 e PKP Z

1997-05-12 D 34.2 AZ100
GRA1 03:57:00.5 e P Z mb4.5
GRA1 04:12:48.7 e L Z T19.8 A190 MS3.8
NEIC: OT 03:51:00.1 38.0N 48.0E dep 10km mb4.4
NORTHWESTERN IRAN

1997-05-12 D 6.0
GRC1 13:51:49.3 e Pn Z
GRA1 13:51:59.5 e Pn Z
GRA1 13:53:16.3 e Sn N
GRA1 13:55:26.3 e L Z T14.2 A2127 MS3.8
SZGRF: OT 13:51:41.1 43.2N 13.4E dep 33km
CENTRAL ITALY

1997-05-12 D 95.1
GRA1 13:58:49.0 e P Z mb5.8
GRA1 14:02:40.5 e PP Z
GRA1 14:45:22.9 e L Z T18.2 A4780 MS6.0

1997-05-12 D 93.1
GRA1 15:16:19.3 e P Z mb5.3
GRA1 15:59:11.8 e L Z T19.5 A634 MS5.1

1997-05-12 D147.4
GRA1 19:20:07.8 e PKPab Z
GRA1 20:29:35.9 e L Z T21.1 A319 MS5.1

1997-05-12 D 4.8 539km
GRA1 22:15:06.0 e Pn Z M13.9
SZGRF: OT 22:13:53.7 44.9N 10.4E dep 10km
NORTHERN ITALY

1997-05-12 D 5.0 556km
GRA1 22:23:22.0 e Pn Z M13.8
GRA1 22:24:16.2 e Sn N
SZGRF: OT 22:22:06.7 44.7N 10.6E dep 10km
NORTHERN ITALY

1997-05-12 D 87.5 AZ 92
GRA1 23:30:34.0 e P Z mb4.6
NEIC: OT 23:17:53.5 2.1N 97.6E dep 33km mb4.4
NORTHERN SUMATERA, INDONESIA

1997-05-12 D 4.9 549km

GRA1 22:48:57.7 e Pn Z M13.6
 GRA1 22:49:52.9 e Sn N
 SZGRF: OT 22:47:43.5 44.8N 10.8E dep 10km
 NORTHERN ITALY

 1997-05-12 D 3.6 395km

GRA1 23:20:31.5 e Pn Z

 1997-05-13 D 3.1 341km

GRA1 02:59:29.3 e Pn Z M13.3

GRA1 03:00:06.5 e Sn E

 1997-05-13 AZ 48

GRA1 05:50:50.9 e P Z mb6.1

GRA1 05:51:06.1 e pP Z

GRA1 05:54:03.4 e PP Z

GRA1 06:29:45.2 e L Z T19.9 A14047 MS6.3

SZGRF: OT 05:38:25.5 30.5N 132.0E dep 53km

SOUTHEAST OF SHIKOKU, JAPAN

 1997-05-13 D 75.9

GRA1 07:13:32.2 i P d Z mb5.3

 1997-05-13 D 15.0 AZ255

GRA1 10:39:49.6 e P Z

 1997-05-13 D 38.9 AZ 99

GRA1 11:49:53.4 e P Z mb4.0

GRA1 12:08:28.7 e L Z T21.7 A127 MS3.7

SZGRF: OT 11:43:01.4 32.2N 58.3E dep 10km

IRAN

 1997-05-13

GRA1 12:01:15.5 e PKP Z

 1997-05-13 D 44.1 AZ 84

GRA1 14:21:40.3 i P c Z mb6.8

GRA1 14:22:22.6 e pP Z

GRA1 14:22:44.0 e sP Z

GRA1 14:42:13.8 e L Z T21.1 A5953 MS5.5

SZGRF: OT 14:13:52.7 36.5N 70.4E dep194km

HINDU KUSH REGION

 1997-05-13

GRA1 16:53:24.0 e PKPab Z

1997-05-13 D 27.2 AZ266
GRA1 18:01:57.5 e P Z mb4.1
SZGRF: OT 17:56:17.4
AZORES ISLANDS REGION

1997-05-13 D 3.6 398km
GRA1 18:38:01.2 e Pn Z M14.3

1997-05-13 D 33.4 AZ266
GRA1 21:37:11.6 i P c Z mb4.7
SZGRF: OT 21:30:37.0 37.9N 32.7W dep 33km
AZORES ISLANDS REGION

1997-05-13 D 68.7 AZ349
GRA1 23:22:20.1 i P c Z mb5.0
GRA1 23:22:28.2 e pP Z
SZGRF: OT 23:11:20.9 60.6N 147.6W dep 29km
SOUTHERN ALASKA

1997-05-13 D 76.6 AZ 50
GRA1 23:44:34.2 e P Z mb4.5
GRA1 23:44:48.0 e (pP) Z
GRA1 00:24:36.3 e L Z T20.4 A301 MS4.6
SZGRF: OT 23:32:50.2
YELLOW SEA

1997-05-14 D 70.1 AZ276
GRA1 03:11:59.3 e P Z mb4.6
GRA1 03:38:07.8 e L Z T20.0 A458 MS4.7

1997-05-14 D 3.7 407km
GRA1 03:50:27.6 e Pn Z M14.2

1997-05-14 D 40.5 AZ 97
GRA1 14:21:51.4 i P c Z mb4.8
SZGRF: OT 14:14:15.9 32.1N 60.7E dep 33km
IRAN

1997-05-14 D 85.4 AZ289
GRA1 16:01:32.1 e P Z mb4.9
NEIC: OT 15:48:40.5 14.5N 93.5W dep 33km mb4.4
NEAR COAST OF CHIAPAS, MEXICO

1997-05-14 D 59.6 AZ160
GRA1 21:24:17.1 e P Z mb4.5
SZGRF: OT 21:14:14.8
ZAIRE REPUBLIC

1997-05-15 D 5.5
GRB1 00:25:25.0 e Pn Z M14.1
GRA1 00:25:25.2 e Pn Z M14.1

1997-05-15 D 58.0 AZ 71
GRA1 04:08:24.5 i P d Z mb5.1
GRA1 04:34:45.4 e L Z T19.5 A157 MS4.1
NEIC: OT 03:58:32.9 34.2N 89.8E dep 33km mb4.9
XIZANG

1997-05-15 AZ288
GRA1 04:51:33.4 i P c Z mb5.6
GRA1 04:52:41.1 e pP Z
GRA1 04:53:06.6 e sP Z
GRA1 04:54:56.2 e PP Z
GRA1 05:25:09.6 e L Z T20.0 A204 MS4.5
SZGRF: OT 04:39:19.3 13.7N 90.6W dep277km
NEAR COAST OF GUATEMALA

1997-05-15 D 18.5
GRA1 10:09:30.4 e P Z mb3.8
GRA1 10:16:19.7 e L Z T24.4 A118 MS3.1

1997-05-15 D 7.0
GRA1 11:42:49.0 e (Pn) Z M14.3
GRA1 11:43:46.7 e Sn N
GRA1 11:45:51.2 e L Z T18.7 A108 MS2.5

1997-05-15 D 45.3 AZ 95
GRA1 12:44:20.2 e P Z mb4.3
GRA1 13:14:18.9 e L Z T20.2 A191 MS4.0
SZGRF: OT 12:36:05.8
PAKISTAN

1997-05-15
GRA1 13:25:29.0 e PKP Z

1997-05-15
GRA1 14:32:34.4 e PKPdf Z

1997-05-15 D147.1
GRA1 16:14:29.2 e PKPdf Z
GRA1 16:14:32.4 i PKPbc c Z
GRA1 16:14:46.0 e PKPab Z
GRA1 17:23:28.0 e L Z T20.7 A311 MS5.1

1997-05-15 D148.4
GRA1 18:21:11.8 e PKPdf Z
GRA1 18:21:15.3 i PKPbc c Z
GRA1 18:21:17.3 e PKPab Z
GRA1 19:30:29.6 e L Z T20.5 A1118 MS5.6

1997-05-15 D 43.5 AZ 83
GRA1 18:38:20.0 i P d Z
GRA1 18:39:00.3 i pP c Z
GRA1 18:39:20.0 e sP Z
GRA1 18:40:06.4 e PP Z
GRA1 18:40:38.4 e pPP Z
GRA1 18:43:30.5 e ScP Z
SZGRF: OT 18:30:35.6 37.3N 70.4E dep183km
AFGHANISTAN-USSR BORDER REGION

1997-05-16
GRA1 01:59:54.5 e Pn Z
GRA1 02:01:20.1 e (Sn) E

1997-05-16
GRA1 02:03:48.7 e PKP Z

1997-05-16
GRA1 02:11:56.4 e PKPdf Z
GRA1 03:22:00.9 e L Z T19.7 A64

1997-05-16 D 10.4
GRA1 07:03:22.3 e Pn Z
GRA1 07:06:00.2 e Sn Z
GRA1 07:08:44.5 e L Z T18.9 A16123 MS4.9

1997-05-16
GRA1 07:45:01.5 e (PKP) Z

1997-05-16 D 66.0 AZ 72
GRA1 11:28:47.2 i P c Z mb5.3
GRA1 11:59:20.8 e L Z T18.6 A409 MS4.7
SZGRF: OT 11:18:04.7 29.5N 97.8E dep 33km
TIBET

1997-05-16 D 23.3 AZ344
GRA1 14:36:28.4 e P Z mb4.9
GRA1 14:40:08.8 e S Z
GRA1 14:45:02.0 e L Z T20.4 A319 MS3.8
SZGRF: OT 14:31:24.0 71.1N 7.9W dep 33km
JAN MAYEN ISLAND REGION

1997-05-16 D147.3
GRA1 14:36:39.8 i PKP c Z
GRA1 15:47:52.2 e L Z T21.7 A411 MS5.2

1997-05-16 D 55.2 AZ212
GRA1 17:59:43.1 e P Z mb5.3
GRA1 17:59:52.6 e pP Z
GRA1 17:59:56.9 e sP Z
GRA1 18:23:40.0 e L Z T19.1 A677 MS4.7
SZGRF: OT 17:50:12.4 1.1S 14.2W dep 35km
NORTH OF ASCENSION ISLAND

1997-05-16 D148.2
GRA1 18:57:41.1 e (PKPbc) Z
GRA1 18:57:44.2 e PKPab Z
NEIC: OT 18:38:22.0 21.4S 177.4W dep294km mb4.7
FIJI ISLANDS REGION

1997-05-16 D 70.2 AZ265
GRA1 21:29:10.9 e P Z mb4.6
GRA1 21:29:14.3 e pP Z
SZGRF: OT 21:17:58.1 11.7N 61.9W dep 12km
WINDWARD ISLANDS

1997-05-16 D 73.2 AZ 16
GRA1 22:52:28.4 i P c Z mb5.7
GRA1 22:52:37.1 e pP Z
GRA1 23:27:20.8 e L Z T21.9 A902 MS5.0
SZGRF: OT 22:41:01.9 54.8N 163.2E dep 30km
OFF EAST COAST OF KAMCHATKA

1997-05-16 D 79.2 AZ117
GRA1 23:53:05.8 e P Z mb4.4
SZGRF: OT 23:41:02.9
CHAGOS ARCHIPELAGO REGION

1997-05-17 D 55.8 AZ119
GRA1 00:36:00.6 i P d Z mb5.0
GRA1 00:36:07.0 e (pP) Z
GRA1 01:03:34.2 e L Z T20.6 A212 MS4.2
SZGRF: OT 00:26:24.5 9.7N 58.5E dep 23km
CARLSBERG RIDGE

1997-05-17 D104.1
GRA1 02:24:14.3 i P d Z mb5.6
GRA1 02:24:44.5 e pP Z
GRA1 02:28:28.8 e PP Z
GRA1 02:29:07.1 e pPP Z
GRA1 03:06:13.4 e L Z T21.9 A82 MS4.2
NEIC: OT 02:10:18.5 27.2S 69.5W dep106km mb5.5
NORTHERN CHILE

1997-05-17
GRA1 03:13:23.3 i PKPab d Z

1997-05-17 D 51.5 AZ 96
GRA1 03:16:02.4 e P Z mb4.5
GRA1 03:41:38.2 e L Z T21.8 A444 MS4.5
SZGRF: OT 03:07:00.3
INDIA-PAKISTAN BORDER REGION

1997-05-17 D 46.7
GRA1 04:06:51.4 i P d Z mb5.2
GRA1 04:27:13.2 e L Z T18.1 A802 MS4.7
NEIC: OT 03:58:23.9 39.5N 77.0E dep 33km mb4.9
SOUTHERN XINJIANG, CHINA

1997-05-17
GRA1 05:06:20.4 e PKPdf Z

1997-05-17 D 24.9 AZ 96
GRA1 13:31:36.4 e (P) Z

1997-05-17
GRA1 19:30:12.1 e PKPdf Z
GRA1 19:30:22.3 e pPKPdf Z
GRA1 20:29:43.1 e L Z T21.9 A100

1997-05-17 D 87.4 AZ288
GRA1 19:40:23.1 e P Z mb4.1

GRA1 19:40:26.9 e pP Z
 SZGRF: OT 19:27:36.5
 NEAR COAST OF GUATEMALA

 1997-05-17 D 89.2 AZ288
 GRA1 20:04:50.3 e P Z mb4.4
 SZGRF: OT 19:51:58.3
 OFF COAST OF CENTRAL AMERICA

 1997-05-18
 GRA1 01:30:14.3 e PKPdf Z
 GRA1 01:30:19.9 e pPKPdf Z
 GRA1 02:32:53.4 e L Z T21.3 A37
 NEIC: OT 01:10:38.4 19.5S 169.8E dep 33km mb4.4
 VANUATU ISLANDS

 1997-05-18 D 41.6 AZ102
 GRA1 02:40:49.2 i P c Z mb4.0
 SZGRF: OT 02:33:04.7 29.0N 59.2E dep 33km
 SOUTHERN IRAN

 1997-05-18 D 4.4 489km
 GRA1 03:04:44.4 e Pn Z M13.5
 GRA1 03:07:18.3 e Sn Z
 GRA1 03:09:40.0 e L Z T19.5 A182 MS2.3

 1997-05-18
 GRA1 03:16:57.3 e PKPdf Z
 GRA1 03:17:19.8 e pPKPdf Z
 NEIC: OT 02:57:56.8 17.3S 175.5W dep400km
 TONGA ISLANDS

 1997-05-18 D160.8
 GRA1 05:18:28.5 e PKPdf Z
 GRA1 05:18:44.0 e PKP Z
 GRA1 05:19:09.4 e PKPab Z
 GRA1 05:19:25.0 e pPKPab Z
 GRA1 06:52:35.6 e L Z T19.1 A1038 MS5.7

 1997-05-18 D154.1
 GRA1 07:28:19.2 i PKPdf c Z
 GRA1 07:28:26.5 e pPKPdf Z
 GRA1 07:28:39.9 e PKPab Z
 GRA1 07:28:46.8 e pPKPab Z
 NEIC: OT 07:08:32.5 20.6S 174.6W dep 62km mb5.1
 TONGA ISLANDS

1997-05-18 D 77.5 AZ358
GRA1 10:13:14.0 i P d Z mb4.9
GRA1 10:13:15.9 e (pP) Z
GRA1 10:44:37.3 e L Z T21.1 A36 MS3.7
SZGRF: OT 10:01:19.6 53.2N 165.7W dep 7km
FOX ISLANDS, ALEUTIAN ISLANDS

1997-05-18 D 79.6 AZ358
GRA1 13:52:46.0 e P Z mb4.3
SZGRF: OT 13:40:44.0 51.1N 166.1W dep 33km
ALEUTIAN ISLANDS REGION

1997-05-18
GRA1 14:01:04.0 e PKP Z
NEIC: OT 13:41:29.5 19.6S 169.5E dep 33km mb4.2
VANUATU ISLANDS

1997-05-18 D108.2
GRA1 16:22:47.5 e Pdiff Z
GRA1 16:26:17.0 e PP Z
GRA1 16:43:31.5 e L Z T21.5 A161 MS4.6
NEIC: OT 16:08:48.2 8.0S 120.2E dep217km mb5.2
FLORES SEA

1997-05-18
GRA1 18:10:54.2 e PKP Z
GRA1 18:11:03.4 e pPKP Z
GRA1 19:05:17.0 e L Z T20.0 A102
NEIC: OT 17:51:55.7 5.8S 151.2E dep 33km mb4.7
NEW BRITAIN REGION, P.N.G.

1997-05-18
GRA1 22:27:18.2 i PKPab c Z
GRA1 22:27:33.0 e pPKPab Z
GRA1 23:15:41.9 e L Z T20.4 A376

1997-05-18
GRA1 23:14:13.2 e PKPab Z
GRA1 00:23:59.4 e L Z T19.0 A74

1997-05-19 D 83.9 AZ 39
GRA1 02:22:02.2 i P c Z mb5.1
GRA1 02:22:45.9 e pP Z
GRA1 02:22:58.6 e sP Z
SZGRF: OT 02:09:37.0 35.6N 140.3E dep168km
NEAR EAST COAST OF HONSHU, JAPAN

1997-05-19 D 87.4 AZ276
 GRA1 02:38:39.4 e P Z mb5.1
 GRA1 03:11:01.8 e L Z T21.8 A1530 MS5.4

 1997-05-19 D 2.8 317km
 GRC1 03:22:36.4 e Pn Z
 GRA1 03:22:44.8 e Pn Z M13.0

 1997-05-19 D 77.8 AZ358
 GRA1 09:27:21.0 i P d Z mb4.7
 GRA1 09:27:32.3 e pP Z
 GRA1 09:53:06.2 e L Z T24.6 A143 MS4.2
 SZGRF: OT 09:15:29.5 52.8N 164.9W dep 39km
 SOUTH OF ALASKA

 1997-05-19
 GRA1 13:42:29.2 e PKP Z
 GRA1 14:35:46.5 e L Z T21.2 A56
 NEIC: OT 13:23:49.9 5.9S 146.9E dep150km mb5.2
 EASTERN NEW GUINEA REG., P.N.G.

 1997-05-19
 GRA1 16:42:31.4 e (PKPab) Z

 1997-05-19 D 55.2
 GRA1 20:15:10.8 e P Z mb4.7
 GRA1 20:39:08.8 e L Z T19.3 A540 MS4.6

 1997-05-19 D 10.7
 GRA1 20:18:53.7 e Pn Z
 GRA1 20:20:32.4 e (Sn) N
 GRA1 20:23:45.5 e L Z T18.7 A130 MS2.9

 1997-05-19 D 40.5 AZ264
 GRA1 21:36:38.4 e P Z mb4.1
 SZGRF: OT 21:29:03.5 32.3N 38.4W dep 33km
 NORTH ATLANTIC RIDGE

 1997-05-19
 GRA1 23:48:02.9 e PKPdf Z

 1997-05-20 D 86.3 AZ 40
 GRA1 04:33:16.9 i P d Z mb5.2
 GRA1 05:15:09.5 e L Z T19.1 A111 MS4.3

SZGRF: OT 04:20:39.2 33.1N 141.0E dep 33km
OFF EAST COAST OF HONSHU, JAPAN

1997-05-20 D 49.5 AZ 78
GRA1 04:53:27.3 e P Z mb4.5
NEIC: OT 04:45:18.7 39.6N 73.3E dep 33km mb4.1
TAJIKISTAN-XINJIANG BORDER REG.

1997-05-20
GRA1 07:36:46.6 e P Z
GRA1 07:50:47.7 e L Z T21.7 A88

1997-05-20
GRA1 18:47:07.3 e PKPdf Z
GRA1 20:10:35.7 e L Z T21.6 A964
NEIC: OT 18:27:06.3 59.8S 150.4E dep 10km mb4.8
WEST OF MACQUARIE ISLAND

1997-05-21
GRA1 00:28:26.4 e PKP Z
GRA1 00:28:32.5 i PKPbc c Z
GRA1 00:28:38.8 e PKPab Z
GRA1 00:28:51.7 e pPKPbc Z
GRA1 00:28:58.8 e pPKPab Z
GRA1 01:34:18.3 e L Z T21.3 A118 MS4.7
NEIC: OT 00:08:46.2 20.8S 175.5W dep 69km mb5.4
TONGA ISLANDS

1997-05-21 D 24.4 AZ255
GRA1 04:08:28.0 e (P) Z

1997-05-21 D145.6
GRA1 08:04:25.6 e PKPbc Z
GRA1 08:04:34.5 e (PKP) Z
GRA1 09:12:52.3 e L Z T21.3 A248 MS5.0

1997-05-21
GRA1 08:32:16.6 e PKP Z

1997-05-21 D 31.9 AZ 72
GRA1 13:51:36.3 e (P) Z

1997-05-21 D147.6
GRA1 14:30:01.5 e PKPdf Z

GRA1 14:30:03.8 e PKPbc Z
 GRA1 14:30:05.5 e PKPab Z
 GRA1 14:30:19.5 e pPKPbc Z
 GRA1 14:33:36.3 e PP Z
 GRA1 15:36:19.9 e L Z T21.4 A7615 MS6.5
 NEIC: OT 14:10:26.3 20.4S 169.3E dep 57km mb5.9
 VANUATU ISLANDS

 1997-05-21 D146.9
 GRA1 16:46:05.5 i PKPbc d Z
 GRA1 16:46:10.1 e pPKPbc Z
 NEIC: OT 16:26:24.7 18.9S 175.9E dep 33km mb5.3
 FIJI ISLANDS REGION

 1997-05-21
 GRA1 17:14:08.3 e PKPab Z
 NEIC: OT 16:53:58.9 24.3S 176.1W dep 41km mb4.9
 SOUTH OF FIJI ISLANDS

 1997-05-21 D 56.1 AZ216
 GRA1 20:32:34.2 e P Z mb5.0
 GRA1 20:32:49.9 e (pP) Z
 GRA1 20:34:34.7 e PP Z
 GRA1 20:54:08.8 e L Z T21.9 A779 MS4.8
 SZGRF: OT 20:22:60.0 .8S 17.8W dep 59km
 NORTH OF ASCENSION ISLAND

 1997-05-21 AZ 90
 GRA1 23:01:29.5 i P c Z T1.0 A197 mb6.1
 GRA1 23:01:44.9 i pP d Z
 GRA1 23:03:39.3 e PP Z
 GRA1 23:03:55.3 e pPP Z
 GRA1 23:05:01.9 e PPP Z
 GRA1 23:05:16.7 e pPPP Z
 GRA1 23:31:52.7 e L Z T18.5 A4919 MS5.7
 SZGRF: OT 22:51:34.2 23.3N 79.8E dep 58km
 INDIA

 1997-05-21 D 83.1 AZ 40
 GRA1 23:23:59.7 i P d Z mb5.4
 GRA1 00:09:56.0 e L Z T18.2 A617 MS5.0
 SZGRF: OT 23:11:38.6 36.0N 139.2E dep 33km
 NEAR S. COAST OF HONSHU, JAPAN

 1997-05-21
 GRA1 23:31:09.0 e PKP Z
 GRA1 23:31:17.6 e (pPKPdf) Z

1997-05-21 D 14.5
GRA1 23:53:06.7 e P Z
NEIC: OT 23:49:43.7 42.9N 7.2W dep 19km mb4.8
SPAIN

1997-05-21 D 14.5
GRA1 23:54:08.1 e P Z
GRA1 00:00:37.1 e L Z T14.1 A4110 MS4.7
NEIC: OT 23:50:43.3 42.8N 7.2W dep 19km mb5.2
SPAIN

1997-05-21 D 14.4
GRA1 23:53:09.4 e Pn1 Z
GRA1 23:54:07.1 e Pn Z
GRA1 23:56:38.0 e Sn Z
SZGRF: OT 23:50:43.1 43.0N 7.3W dep 10km
SPAIN

1997-05-22
GRA1 00:06:15.4 e P Z

1997-05-22 D 14.5
GRA1 00:20:41.1 e P Z
GRA1 00:25:53.9 e L Z T20.7 A465 MS3.6
NEIC: OT 00:17:17.8 42.8N 7.2W dep 17km mb5.0
SPAIN

1997-05-22 D 14.5
GRA1 05:10:15.0 e P Z
GRA1 05:15:56.2 e L Z T20.2 A55 MS2.7

1997-05-22 D 89.8 AZ299
GRA1 08:03:47.0 i P Z T2.0 A579 mb6.5
GRA1 08:03:57.3 e (pP) Z
GRA1 08:21:18.1 e PKKP Z
GRA1 08:44:54.8 e L Z T20.7 A6439 MS6.0
SZGRF: OT 07:50:52.5 18.8N 101.8W dep 35km
GUERRERO, MEXICO

1997-05-22 D143.8
GRA1 12:26:39.3 e PKPab Z
GRA1 12:26:51.4 e pPKPab Z
NEIC: OT 12:06:58.6 15.4S 172.8W dep 33km mb4.6
SAMOA ISLANDS REGION

1997-05-22 D 88.3 AZ 61
GRA1 13:34:25.0 i P c Z mb6.2

GRA1 13:34:35.0 e pP Z
GRA1 13:34:40.6 e sP Z
GRA1 13:37:59.8 e PP Z
GRA1 14:17:12.8 e L Z T19.7 A3602 MS5.8
SZGRF: OT 13:21:37.7 19.7N 122.9E dep 36km
PHILIPPINE ISLANDS REGION

1997-05-22 D 78.2 AZ 22
GRA1 14:53:14.0 i P c Z mb5.9
GRA1 14:53:28.2 e pP Z
GRA1 14:53:34.7 e sP Z
GRA1 15:31:00.6 e L Z T19.3 A784 MS5.1
SZGRF: OT 14:41:22.1 48.2N 157.2E dep 50km
KURIL ISLANDS REGION

1997-05-22
GRA1 20:56:38.2 e PKPab Z
GRA1 22:08:14.7 e L Z T20.2 A51

1997-05-23 D 56.5 AZ210
GRA1 03:31:25.4 e (P) Z mb4.7

1997-05-23
GRA1 04:29:54.2 e PKPab Z
GRA1 05:45:19.8 e L Z T20.1 A88
NEIC: OT 04:10:11.3 16.4S 172.8W dep 33km mb4.7
SAMOA ISLANDS REGION

1997-05-23 D 79.5
GRA1 07:25:05.9 e P Z mb4.6
GRA1 08:10:51.3 e L Z T18.5 A61 MS4.0

1997-05-23 D 78.9 AZ 27
GRA1 07:47:31.3 i P c Z mb5.0
GRA1 08:26:21.7 e L Z T20.4 A71 MS4.0
SZGRF: OT 07:35:33.0 45.6N 151.1E dep 33km
KURIL ISLANDS

1997-05-23
GRA1 08:35:36.8 e PKP Z
GRA1 08:36:30.5 e pPKP Z
GRA1 08:36:52.0 e sPKP Z
GRA1 09:40:14.1 e L Z T18.5 A68
NEIC: OT 08:15:57.7 15.0S 173.7W dep 33km mb4.5
SAMOA ISLANDS REGION

1997-05-23

GRA1 09:46:18.4 i P d Z mb4.6
GRA1 09:46:23.7 e pP Z
GRA1 09:55:33.8 e L Z T21.9 A518 MS4.1
NEIC: OT 09:40:31.3 44.3N 28.4W dep 10km mb4.9
NORTHERN MID-ATLANTIC RIDGE

1997-05-23 D 38.3 AZ 67

GRA1 13:11:02.9 e (P) Z

1997-05-23

GRA1 13:19:54.2 e PKPdf Z

1997-05-23 D 83.7 AZ 40

GRA1 18:03:06.3 i P d Z mb5.7
GRA1 18:03:14.5 e pP Z
GRA1 18:06:24.7 e PP Z
GRA1 18:06:43.1 e pPP Z
GRA1 18:43:58.2 e L Z T21.6 A1658 MS5.4
SZGRF: OT 17:50:41.0 35.4N 139.6E dep 28km
NEAR S. COAST OF HONSHU, JAPAN

1997-05-23 D 14.3

GRA1 18:18:02.8 e P Z
GRA1 18:20:30.7 e L Z T31.1 A397 MS3.3

1997-05-23 D 87.5

GRA1 19:26:08.7 e P Z mb4.8
GRA1 20:02:34.5 e L Z T20.1 A359 MS4.8

1997-05-23 D 38.8

GRA1 20:05:04.3 i P d Z mb4.7
GRA1 20:05:20.3 e pP Z
GRA1 20:05:26.3 e sP Z
GRA1 20:19:50.4 e L Z T18.2 A240 MS4.1
NEIC: OT 19:57:37.6 33.9N 37.3W dep 10km mb4.9
NORTHERN MID-ATLANTIC RIDGE

1997-05-23 AZ 50

GRA1 20:33:18.5 e P Z mb5.6
GRA1 20:33:57.1 e pP Z
GRA1 20:37:06.9 e PP Z
GRA1 21:16:27.9 e L Z T18.9 A185 MS4.5
SZGRF: OT 20:20:56.3 27.8N 130.9E dep154km
RYUKYU ISLANDS

1997-05-23 D 81.3 AZ 59
GRA1 21:29:54.7 e P Z mb4.7
GRA1 21:30:11.9 e pP Z
GRA1 22:12:09.2 e L Z T20.3 A54 MS3.9
SZGRF: OT 21:17:46.0
NEAR SOUTHEASTERN COAST OF CHINA

1997-05-23 D 15.1 AZ287
GRA1 23:15:02.0 e (P) Z

1997-05-24
GRA1 02:07:01.0 e PKPbc Z
GRA1 02:07:04.3 e PKPab Z

1997-05-24 D 24.1 AZ102
GRA1 03:04:38.0 e P Z mb4.4
SZGRF: OT 02:59:25.6
TURKEY

1997-05-24 AZ 39
GRA1 05:28:20.2 i P d Z mb6.0
GRA1 05:28:34.9 e pP Z
GRA1 05:31:38.3 e PP Z
GRA1 06:13:25.6 e L Z T19.2 A468 MS4.9
SZGRF: OT 05:15:45.3 33.6N 142.1E dep 51km
OFF EAST COAST OF HONSHU, JAPAN

1997-05-24 D155.5
GRA1 13:38:08.9 e PP Z
GRA1 13:38:26.4 e pPP Z
GRA1 14:43:54.6 e L Z T18.3 A362 MS5.2
SZGRF: OT 13:14:15.7 28.7S 174.6E dep 33km
NORTH OF NEW ZEALAND

1997-05-24 D 71.8 AZ 68
GRA1 17:20:00.1 i P c Z mb4.5
GRA1 17:20:10.5 e (pP) Z
SZGRF: OT 17:08:42.0 28.3N 105.9E dep 36km
SZECHWAN PROVINCE, CHINA

1997-05-25
GRA1 02:29:31.3 e PKPab Z
GRA1 02:29:44.4 e pPKPab Z

1997-05-25

GRA1 09:35:12.0 i PKP d Z
GRA1 09:35:21.3 e pPKP Z
GRA1 10:34:25.0 e L Z T21.5 A94 MS4.5

1997-05-25 D 55.1 AZ234
GRA1 10:29:24.8 e P Z mb4.8
GRA1 10:50:47.9 e L Z T21.4 A144 MS4.0
NEIC: OT 10:19:23.9 3.1N 31.2W dep 10km mb4.7
CENTRAL MID-ATLANTIC RIDGE

1997-05-25 D 41.0 AZ 95
GRA1 15:15:16.2 e P Z mb4.0
SZGRF: OT 15:07:36.3
SOUTHWESTERN AFGHANISTAN

1997-05-25
GRA1 15:59:45.6 e PKP Z

1997-05-25
GRA1 18:56:44.7 e PKPab Z
GRA1 18:56:58.4 e pPKPab Z

1997-05-25 D101.8
GRA1 19:11:25.6 e P Z
GRA1 19:15:27.9 e PP Z
GRA1 19:58:13.8 e L Z T18.0 A514 MS5.1
NEIC: OT 18:57:30.2 22.9S 70.5W dep 36km mb5.1
NEAR COAST OF NORTHERN CHILE

1997-05-25 D160.2
GRA1 23:41:50.9 e PKP Z
GRA1 23:42:37.4 e PKPab Z
GRA1 23:43:19.6 e pPKP Z
GRA1 23:44:03.5 e pPKPab Z
GRA1 00:48:32.7 e L Z T20.7 A4081 MS6.3

1997-05-26 D 23.9 AZ106
GRA1 01:24:13.6 i P c Z mb4.5
GRA1 01:24:18.1 e pP Z
SZGRF: OT 01:19:01.4 38.6N 40.9E dep 18km
TURKEY

1997-05-26
GRA1 01:27:07.1 e PKP Z

1997-05-26 D 83.2 AZ 86
GRA1 11:11:01.9 e P Z
GRA1 11:53:13.9 e L Z T21.5 A92 MS4.1
SZGRF: OT 10:58:38.6 7.5N 99.5E dep 33km
MALAY PENINSULA

1997-05-26 D 46.8 AZ129
GRA1 11:24:49.2 e P Z mb4.9
GRA1 11:50:08.4 e L Z T20.9 A
SZGRF: OT 11:16:22.1
WESTERN GULF OF ADEN

1997-05-26 D 83.2 AZ 38
GRA1 16:21:53.0 i P c Z mb5.3
GRA1 16:22:05.3 e pP Z
GRA1 17:03:10.8 e L Z T19.1 A132 MS4.3
SZGRF: OT 16:09:32.6 37.0N 141.8E dep 42km
NEAR EAST COAST OF HONSHU, JAPAN

1997-05-26 D 8.3
GRA1 23:40:52.1 e Pn Z M14.4
GRA1 23:42:26.1 e (Sn) N
GRA1 23:44:06.9 e L Z T14.3 A126 MS2.8

1997-05-27 D 57.4 AZ 80
GRA1 01:36:14.8 e P Z mb4.6
GRA1 01:36:18.9 e pP Z
NEIC: OT 01:27:17.4 34.0N 77.7E dep 33km mb4.6
EASTERN KASHMIR

1997-05-27 D 50.3 AZ 65
GRA1 02:05:24.5 e P Z mb4.3
GRA1 02:27:27.4 e L Z T19.8 A73 MS3.7
NEIC: OT 01:56:24.7 42.6N 86.2E dep 22km mb4.3
NORTHERN XINJIANG, CHINA

1997-05-27 D159.0
GRA1 06:30:33.6 e PKPdf Z
GRA1 06:34:53.6 e PP Z
GRA1 07:51:09.2 e L Z T19.3 A2825 MS6.1
NEIC: OT 06:10:31.8 54.9S 136.3W dep 10km mb5.3
PACIFIC-ANTARCTIC RIDGE

1997-05-27
GRA1 06:51:02.5 e Sn Z
NEIC: OT 06:47:30.5 42.9N 17.5E dep 33km
ADRIATIC SEA

1997-05-27

GRA1 07:05:55.7 e PKPdf Z
NEIC: OT 08:00:28.7 15.2S 173.4W dep 14km mb5.5
TONGA ISLANDS

1997-05-27 D145.4

GRA1 08:20:08.5 i PKPdf c Z
GRA1 08:20:19.4 e pPKPdf Z
GRA1 08:23:32.3 e PP Z
GRA1 09:28:37.7 e L Z T20.3 A5963 MS6.4

1997-05-27

GRA1 08:37:40.3 e PKPdf Z
GRA1 08:37:50.5 e pPKPdf Z

1997-05-27 D145.6

GRA1 09:46:50.6 i PKPdf c Z
GRA1 09:46:56.2 e pPKPdf Z
NEIC: OT 09:27:12.6 15.4S 173.1W dep 33km mb4.6
TONGA ISLANDS

1997-05-27

GRA1 09:47:04.0 e PKPdf Z
GRA1 09:47:10.8 e pPKPdf Z

1997-05-27 D 57.1

GRA1 11:59:06.6 e P Z mb4.8

1997-05-27 D102.9

GRA1 15:26:27.9 e PP Z
GRA1 16:09:05.8 e L Z T21.0 A120 MS4.4
NEIC: OT 15:09:04.0 16.3N 145.5E dep536km mb5.5
MARIANA ISLANDS

1997-05-27

GRA1 16:22:43.8 e PKPdf Z

1997-05-27 D 50.1 AZ150

GRA1 16:50:01.2 e P Z mb4.5
GRA1 16:50:12.8 e pP Z
GRA1 17:12:53.8 e L Z T22.0 A230 MS4.1
NEIC: OT 16:41:02.4 2.4N 31.5E dep 10km mb4.5
UGANDA

1997-05-27 D 41.7 AZ 12
GRA1 23:48:27.0 e P Z
GRA1 23:48:35.1 e pP Z
GRA1 23:48:41.9 e sP Z
NEIC: OT 23:40:22.7 82.0N 119.4E dep 26km mb4.0
NORTH OF SEVERNAYA Z EMLYA

1997-05-28 D 78.7 AZ 26
GRA1 09:21:40.7 i P d Z mb5.2
SZGRF: OT 09:09:43.1 46.3N 152.9E dep 33km
KURIL ISLANDS

1997-05-28
GRA1 17:23:06.9 e PKPdf Z
NEIC: OT 17:04:13.7 20.2S 177.7W dep500km
FIJI ISLANDS REGION

1997-05-28 D 44.4 AZ 83
GRA1 18:21:45.1 i P c Z mb5.1
GRA1 18:22:17.5 e pP Z
GRA1 18:22:34.6 e sP Z
GRA1 18:43:41.7 e L Z T22.0 A125 MS3.8
SZGRF: OT 18:13:49.9 37.0N 71.5E dep146km
AFGHANISTAN-USSR BORDER REGION

1997-05-28 D 21.5 AZ129
GRA1 18:40:04.9 e P Z mb3.9
NEIC: OT 18:35:17.1 34.9N 32.4E dep 33km mb3.9
CYPRUS REGION

1997-05-28 D 3.4 382km
GRA1 19:46:15.1 e Pn Z M13.0

1997-05-28 D 70.0
GRA1 21:42:39.7 e (P) Z
NEIC: OT 21:31:44.1 60.2N 152.6W dep 97km mb4.3
SOUTHERN ALASKA

1997-05-29 D 70.4 AZ208
GRA1 06:44:53.1 e P Z mb4.7
GRA1 06:45:01.6 e pP Z
GRA1 07:14:52.6 e L Z T18.6 A120 MS4.2
SZGRF: OT 06:33:39.6
SOUTH ATLANTIC RIDGE

1997-05-29
GRA1 07:25:17.8 e PKPdf Z

 1997-05-29 D 79.7 AZ 29
 GRA1 12:07:43.7 i P d Z mb4.3
 GRA1 12:07:55.5 e pP Z
 GRA1 12:08:00.0 e sP Z
 SZGRF: OT 11:55:41.8 44.3N 150.0E dep 42km
 KURIL ISLANDS

1997-05-29
 GRA1 14:06:24.6 e PKPdf Z
 NEIC: OT 13:46:47.9 15.3S 173.4W dep 33km mb4.7
 TONGA ISLANDS

1997-05-29 D 19.8 AZ133
 GRA1 16:57:31.2 e P Z mb3.5
 SZGRF: OT 16:53:03.2
 EASTERN MEDITERRANEAN SEA

1997-05-29 D130.8
 GRA1 17:21:53.7 e PKPdf Z
 GRA1 17:25:20.0 e PP Z
 GRA1 18:15:20.1 e L Z T20.5 A4440 MS6.1

1997-05-29 D153.2
 GRA1 21:45:55.6 e PKPdf Z
 GRA1 21:46:13.8 e PKPab Z

1997-05-30 D 45.5 AZ 10
 GRA1 01:08:36.2 e P Z mb4.3
 SZGRF: OT 01:00:21.7
 EAST OF SEVERNAYA ZEMLYA

1997-05-30 D 84.4 AZ 57
 GRA1 01:38:26.5 i P d Z mb4.9
 SZGRF: OT 01:25:58.3 25.2N 123.6E dep 33km
 NORTHEAST OF TAIWAN

1997-05-30 D 52.6 AZ 78
 GRA1 18:03:36.5 i P c Z mb5.2
 GRA1 18:03:41.5 i pP d Z
 GRA1 18:26:21.3 e L Z T18.2 A883 MS4.8
 SZGRF: OT 17:54:24.8 34.7N 82.0E dep 19km
 TIBET

1997-05-30 D 93.4 AZ 44
 GRA1 19:56:02.3 e P Z mb4.7
 NEIC: OT 19:43:36.4 26.6N 140.9E dep355km mb4.5

BONIN ISLANDS REGION

1997-05-30 D 87.0
GRA1 20:32:38.9 i P c Z mb5.2
GRA1 20:32:52.4 e pP Z
NEIC: OT 20:20:33.9 44.4N 149.6E dep 33km mb4.6

KURIL ISLANDS

1997-05-31
GRA1 13:19:08.2 e PKPdf Z

1997-05-31
GRA1 17:51:31.2 e Pn Z

1997-05-31 D 47.6 AZ 96
GRA1 18:27:58.2 e P Z mb4.5
SZGRF: OT 18:19:25.6

PAKISTAN

1997-05-31 D150.0
GRA1 19:13:59.8 i PKPdf d Z
GRA1 19:14:05.3 i PKPbc d Z
GRA1 19:14:08.8 e (PKPab) Z
GRA1 19:14:20.0 e (pPKPab) Z
GRA1 20:10:58.0 e L Z T21.3 A91 MS4.5

1997-05-31 D 92.8 AZ144
GRA1 21:04:28.3 e P c Z mb4.9
GRA1 21:04:34.5 e pP d Z
SZGRF: OT 20:51:15.5

SOUTH INDIAN OCEAN

1997-05-31 D 50.8 AZ 96
GRA1 21:34:52.7 e P Z
GRA1 21:34:59.8 e pP Z
GRA1 21:35:37.7 e (PcP) Z
SZGRF: OT 21:25:54.7 25.6N 69.9E dep 26km
PAKISTAN
