

SZGRF: OT 03:26:40.3

JAN MAYEN ISLAND REGION

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-----
1999-07-01      D 65.3  AZ 72
  GRA1 04:32:32.6 e P      Z      mb4.8
  BEAM 04:32:32.6          T1.5  A10
  GRA1 04:32:38.3 e pP    Z
  GRA1 04:59:25.8 e L      Z T20.4 A329  MS4.5
NEIC: OT 04:22:20.2 33N   94E  dep 33km  mb4.7
  QINGHAI, CHINA
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-----
1999-07-01      D 22.8  AZ337
  GRA1 04:55:27.5 e P      Z      mb4.2
  BEAM 04:55:27.5          T1.8  A16
SZGRF: OT 04:50:24.9
  ICELAND REGION
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-----
1999-07-01      D 8.9
  GRA1 07:43:09.0 e Pn     Z      M16.0
  GRA1 07:46:57.4 e L      Z T18.5 A3559 MS4.2
SZGRF: OT 07:41:02.5 44N   21E  dep 10km
  YUGOSLAVIA
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-----
1999-07-01      D 76.3
  GRA1 17:12:06.2 i P      c Z      mb4.8
  BEAM 17:12:06.2          T1.2  A9
  GRA1 18:16:08.8 e L      Z T19.9 A78  MS4.0
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-----
1999-07-01      D 29.0
  GRA1 17:40:59.2 e P      Z      mb4.5
  BEAM 17:40:59.2          T1.9  A16
  GRA1 17:41:11.0 e pP    Z
  GRA1 17:51:35.2 e L      Z T18.4 A437  MS4.1
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-----
1999-07-02
  GRA1 00:47:21.7 e PKP    Z
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-----
1999-07-02      D 76.7  AZ335
  GRA1 11:57:18.5 i P      c Z      mb5.6
  ALIGN 11:57:18.5          T1.5  A70
  GRA1 12:00:14.0 e PP     Z
  GRA1 12:31:30.2 e L      Z T18.1 A6046 MS6.0
SZGRF: OT 11:45:32.0 49N   131W  dep 33km
  VANCOUVER ISLAND REGION
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-----
1999-07-02      D 77.9
-----

```

GRA1 16:14:50.8 i P c Z mb4.8
 BEAM 16:14:50.8 T1.0 A9

 1999-07-02

GRA1 17:13:42.4 e PKP Z

 1999-07-03 D 43.7 AZ 83

GRA1 00:19:03.4 i P c Z mb4.4

ALIGN 00:19:03.4 T1.5 A12

SZGRF: OT 00:11:02.2 37N 71E dep 33km

AFGHANISTAN-USSR BORDER REGION

 1999-07-03 D 75.5 AZ330

GRA1 01:55:38.1 i P d Z mb5.5

ALIGN 01:55:38.1 T1.1 A46

GRA1 01:55:43.0 e Z

GRA1 01:55:52.5 e pP Z

GRA1 01:55:59.1 e sP Z

GRA1 01:56:05.4 e Z

GRA1 02:04:47.8 e (S) Z

GRA1 02:05:21.5 e SKS Z

GRA1 02:29:55.8 e L Z T20.6 A2699 MS5.5

SZGRF: OT 01:44:00.0 47N 123W dep 52km

WASHINGTON

 1999-07-03 D144.5

GRA1 02:08:04.8 e PKPdf Z

 1999-07-03 D 3.6 395km

GRA1 03:01:55.5 e Pn Z M13.2

GRA1 03:02:51.7 e Sg E

SZGRF: OT 03:00:58.7 51N 16E dep 1km

POLAND

 1999-07-03 D 71.4 AZ 15

GRA1 05:15:07.7 i P d Z mb5.4

ALIGN 05:15:07.7 T1.1 A34

GRA1 05:15:13.7 e pP Z

GRA1 05:15:18.8 e sP Z

GRA1 05:17:49.5 e PP Z

GRA1 05:17:59.5 e pPP Z

GRA1 05:48:44.9 e L Z T19.7 A701 MS4.9

SZGRF: OT 05:03:51.3 57N 164E dep 24km

KOMANDORSKY ISLANDS REGION

 1999-07-03 D 90.3 AZ 44

GRA1 05:42:32.7 i P d Z mb6.6
 ALIGN 05:42:32.7 T1.1 A402
 GRA1 05:44:21.2 e pP Z
 GRA1 05:46:17.7 e PP Z
 GRA1 05:59:47.4 e PKKpdf Z
 GRA1 06:27:52.4 e L Z T20.1 A614 MS5.0
 SZGRF: OT 05:30:25.4 28N 140E dep484km
 BONIN ISLANDS REGION

 1999-07-03 D163.0
 GRA1 11:17:42.8 i PKPab Z
 GRA1 11:17:55.6 e pPKPab Z
 GRA1 12:37:12.9 e L Z T18.3 A66 MS4.5

 1999-07-03 D 68.4 AZ351
 GRA1 15:37:01.6 i P d Z mb5.5
 ALIGN 15:37:01.6 T1.1 A38

 1999-07-03 D 57.1 AZ242
 GRA1 16:45:59.1 e P Z mb5.4
 ALIGN 16:45:59.1 T1.7 A62
 GRA1 16:46:06.0 e pP Z
 GRA1 16:54:04.4 e S Z
 GRA1 17:04:29.7 e L Z T28.6 A409
 SZGRF: OT 16:36:14.5 9N 37W dep 25km
 CENTRAL MID-ATLANTIC RIDGE

 1999-07-04 D149.3
 GRA1 02:16:09.0 e PKPbc Z
 GRA1 03:22:05.1 e L Z T21.0 A165 MS4.8

 1999-07-04 D139.5
 GRA1 03:03:28.1 e PKPpdf Z
 GRA1 04:06:12.5 e L Z T19.4 A179 MS4.8

 1999-07-04 D152.3
 GRA1 09:59:13.0 e PKPpdf Z
 GRA1 09:59:27.1 e PKPab Z

 1999-07-05 D 3.6 405km
 GRA1 00:50:06.6 e Pn Z M13.4
 GRA1 00:51:05.2 e Sg E
 NEIC: OT 00:49:12.0 51N 16E dep 5km
 POLAND

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-----
1999-07-05      D 77.4
  GRA1 01:17:04.5 i P      d Z      mb4.7
  ALIGN 01:17:04.5      T1.0  A7
```

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-----
1999-07-05      D 79.8
  GRA1 03:57:49.6 i P      c Z      mb5.5
  ALIGN 03:57:49.6      T1.1  A68
  GRA1 03:57:51.9 i      d Z
  GRA1 03:58:05.2 e pP     Z
  GRA1 03:58:11.9 e sP     Z
  GRA1 03:58:19.0 e      Z
  GRA1 04:37:44.2 e L      Z  T19.2  A210
NEIC:  OT 03:45:48.0 44N  148E  dep 60km  mb5.2
  KURIL ISLANDS
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-----
1999-07-05      D146.6
  GRA1 04:29:09.7 i PKPbc d Z
  GRA1 04:29:11.6 e PKPab  Z
NEIC:  OT 04:09:29.3 18S  176E  dep 33km  mb4.5
  FIJI ISLANDS REGION
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-----
1999-07-05      D 35.0
  GRA1 12:30:03.0 i P      d Z      mb4.7
  ALIGN 12:30:03.0      T1.0  A10
NEIC:  OT 12:23:11.9 31N  50E  dep 33km  mb4.7
  NORTHERN IRAN
```

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-----
1999-07-05
  GRA1 16:44:11.4 e PKPab  Z
  GRA1 16:44:22.7 e pPKPab Z
```

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-----
1999-07-05      D 56.8
  GRA1 18:55:13.5 e P      Z      mb4.5
  BEAM 18:55:13.5      T1.4  A7
  GRA1 19:03:05.0 e (S)   Z
  GRA1 19:14:19.1 e L      Z  T36.4  A153
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-----
1999-07-05      D 90.1
  GRA1 23:44:37.5 e P      Z      mb4.7
  BEAM 23:44:37.5      T1.5  A8
  GRA1 23:44:48.7 e (pP)  Z
  GRA1 23:44:59.1 e sP     Z
  GRA1 00:26:58.0 e L      Z  T21.0  A68      MS4.1
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1999-07-06      D147.3
  GRA1 02:12:19.2 e PKPdf  Z
  GRA1 02:12:22.2 e PKPbc  Z
  GRA1 02:12:29.7 e PKPab  Z

-----
1999-07-06      D161.3
  GRA1 05:41:32.4 e PKPab  Z
  GRA1 06:58:04.7 e L      Z  T20.8  A301      MS5.1
NEIC: OT 05:20:44.7 62S   164E  dep 10km  mb4.7
      BALLENY ISLANDS REGION

-----
1999-07-06      D147.6
  GRA1 23:57:45.7 e PKPbc  Z
  GRA1 23:58:05.8 e (pPKPbc)Z
  GRA1 01:00:02.8 e L      Z  T21.8  A75      MS4.4

-----
1999-07-07      D 23.1
  GRA1 13:35:32.3 e P      Z      mb4.0
  BEAM 13:35:32.3          Z      T1.0   A5
  GRA1 13:35:38.3 e pP     Z
  GRA1 13:43:47.8 e L      Z  T21.9  A199     MS3.5
NEIC: OT 13:30:23.4 72N   2E    dep 10km  mb4.1
      NORWEGIAN SEA

-----
1999-07-07      D 84.4
  GRA1 14:05:44.4 e P      c Z      mb5.1
  BEAM 14:05:44.4          Z      T1.2   A14
  GRA1 14:46:34.4 e L      Z  T18.5  A198     MS4.5

-----
1999-07-07      D 39.5
  GRA1 14:10:42.5 e P      Z      mb4.8
  ALIGN 14:10:42.5        Z      T1.6   A41
  GRA1 14:10:50.9 e pP     Z
  GRA1 14:24:40.2 e L      Z  T26.5  A331

-----
1999-07-07      D 5.4
  GRA1 17:17:31.3 i Pn     d Z      M15.0
  GRA1 17:19:06.8 e Sn     Z
  GRA1 17:19:34.6 e L      Z  T31.4  A1280    MS3.1

-----
1999-07-07      495km
  GRA1 17:56:24.8 e Pn     Z      M13.6
  GRA1 17:57:09.1 e Sn     Z
NEIC: OT 17:54:41.2 44N   11E   dep 10km

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NORTHERN ITALY

 1999-07-07 D 5.8
 GRA1 18:32:54.6 e Pn Z M14.5
 GRA1 18:33:52.1 e Sn Z
 GRA1 18:34:50.0 e L Z T23.0 A150
 NEIC: OT 18:31:23.2 44N 11E dep 10km

NORTHERN ITALY

 1999-07-07 D 77.2 AZ 20
 GRA1 19:04:47.2 i P c Z mb6.4
 ALIGN 19:04:47.2 T1.1 A335
 GRA1 19:05:11.9 e pP Z
 GRA1 19:43:46.6 e L Z T18.6 A8984 MS6.1

 1999-07-07 D 85.5 AZ 40
 GRA1 20:10:02.0 e P Z mb5.1
 ALIGN 20:10:02.0 T1.0 A16
 GRA1 20:10:16.1 e pP Z
 GRA1 21:17:53.9 e L Z T21.7 A263 MS4.6
 SZGRF: OT 19:57:30.7 34N 141E dep 48km
 OFF EAST COAST OF HONSHU, JAPAN

 1999-07-07 D 6.0
 GRA1 22:10:33.1 e Pn Z
 GRA1 22:11:33.2 e Sn Z
 NEIC: OT 22:09:05.6 44N 11E dep 10km
 NORTHERN ITALY

 1999-07-08
 GRA1 00:51:29.2 e Pn Z

 1999-07-08 D 70.7 AZ265
 GRA1 09:42:28.8 e P Z mb4.6
 BEAM 09:42:28.8 T1.0 A5
 SZGRF: OT 09:31:15.9 11N 62W dep 33km
 WINDWARD ISLANDS

 1999-07-08 D 24.5
 GRA1 10:20:12.1 i P d Z mb4.5
 BEAM 10:20:12.1 T1.5 A26
 GRA1 10:27:42.1 e L Z T25.1 A167 MS3.4

 1999-07-08 D159.2
 GRA1 11:25:13.8 e PKPab Z
 GRA1 11:25:52.2 e pPKPab Z

GRA1 12:33:51.0 e L Z T21.7 A110 MS4.7
NEIC: OT 11:04:49.7 30S 178W dep117km mb5.3
KERMADEC ISLANDS, NEW ZEALAND

1999-07-08 D 45.1
GRA1 16:50:25.2 e P Z mb5.1
BEAM 16:50:25.2 T1.0 A22
GRA1 16:50:38.4 e pP Z
GRA1 17:11:28.1 e L Z T20.9 A669 MS4.6
NEIC: OT 16:42:10.5 37N 73E dep 33km mb4.9
TAJIKISTAN

1999-07-08 D 5.5
GRA1 17:25:39.9 e Pn Z
GRA1 17:26:34.8 e (Sn) Z
NEIC: OT 17:24:06.0 44N 11E dep 10km
NORTHERN ITALY

1999-07-08 D143.7
GRA1 18:24:29.3 e PKPdf Z
GRA1 18:25:09.4 e pPKPdf Z
NEIC: OT 18:05:11.6 19S 169E dep163km mb4.7
VANUATU ISLANDS

1999-07-08 D 15.8
GRA1 19:26:33.3 e P Z
GRA1 19:33:53.4 e L Z T16.3 A420 MS3.7

1999-07-08 D 39.6
GRA1 19:32:41.5 e P Z mb5.0
ALIGN 19:32:41.5 T1.6 A65
GRA1 19:32:54.1 e pP Z
GRA1 19:46:42.0 e L Z T26.5 A357 MS4.1

1999-07-08
GRA1 20:04:16.9 e Pn Z
GRA1 20:04:52.9 e Sn Z
NEIC: OT 20:02:32.4 44N 11E dep 10km
NORTHERN ITALY

1999-07-08 D146.0
GRA1 20:30:07.1 e PKPbc Z
GRA1 20:30:16.4 e PKPab Z
GRA1 20:30:31.1 e pPKPab Z

1999-07-08

GRA1 20:42:19.3 e Pn Z
 GRA1 20:43:16.9 e Sn Z
 NEIC: OT 20:40:46.9 44N 11E dep 10km
 NORTHERN ITALY

 1999-07-08 D 77.9 AZ 44
 GRA1 20:50:33.2 i P d Z mb4.6
 ALIGN 20:50:33.2 T0.7 A4
 GRA1 20:50:41.5 e pP Z
 NEIC: OT 20:38:40.9 35N 137E dep331km mb4.4
 WESTERN HONSHU, JAPAN

 1999-07-09 D103.2
 GRA1 01:34:55.4 e Pdiff Z
 GRA1 01:35:14.2 e pPdiff Z
 GRA1 02:21:06.6 e L Z T21.4 A409 MS4.9

 1999-07-09 D 39.7
 GRA1 02:50:11.3 i P d Z mb4.4
 ALIGN 02:50:11.3 T1.2 A12
 GRA1 02:50:17.9 e pP Z

 1999-07-09 D 39.5
 GRA1 02:52:45.1 e P Z mb4.4
 ALIGN 02:52:45.1 T1.1 A12
 GRA1 02:52:52.3 e (pP) Z

 1999-07-09 D127.4
 GRA1 05:23:45.7 e PKPdf Z
 GRA1 05:26:10.3 e PP Z
 GRA1 06:22:45.1 e L Z T21.9 A3699 MS6.0

 1999-07-09 D101.1
 GRA1 14:54:43.1 e P Z mb5.4
 BEAM 14:54:43.1 T2.4 A29
 NEIC: OT 14:41:14.2 7N 127E dep202km mb5.4
 MINDANAO, PHILIPPINE ISLANDS

 1999-07-09 D151.1
 GRA1 18:35:03.6 e PKPdf Z
 GRA1 18:35:07.9 i PKPbc d Z
 GRA1 18:35:15.2 e PKPab Z
 GRA1 18:37:23.6 e pPKPbc Z
 GRA1 18:38:46.5 e PP Z

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1999-07-09      D 78.8  AZ 26
  GRA1 19:52:28.2 i P      c Z      mb5.3
  ALIGN 19:52:28.2                T1.0   A34
  GRA1 19:52:34.5 e (pP)    Z
  GRA1 20:30:06.0 e L      Z   T18.5  A207   MS4.5
SZGRF: OT 19:40:28.8 46N   153E   dep 22km
  KURIL ISLANDS

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-----
1999-07-10      D 5.4
  GRA1 07:58:04.4 e Pn     Z      M14.3
  GRA1 07:59:02.6 e Sn     Z
NEIC:  OT 07:56:42.0 44N    11E   dep 10km
  NORTHERN ITALY

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-----
1999-07-10      D 83.6  AZ 92
  GRA1 08:35:13.1 e P      Z      mb4.4
  BEAM 08:35:13.1                T1.1   A3
  GRA1 08:35:18.5 e (pP)    Z
NEIC:  OT 08:23:05.3 8N     94E   dep 33km  mb4.5
  NICOBAR ISLANDS, INDIA

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-----
1999-07-10      D 51.1  AZ 81
  GRA1 22:23:37.4 e P      Z      mb4.3
  BEAM 22:23:37.4                T1.1   A4
NEIC:  OT 22:15:21.3 37N    73E   dep 33km  mb4.4
  TAJIKISTAN

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-----
1999-07-11
  GRA1 02:01:40.8 i PKPdf d Z
  GRA1 02:01:46.7 e pPKPdf Z

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-----
1999-07-11      D 65.7
  GRA1 12:01:55.0 e P      Z      mb4.6
  BEAM 12:01:55.0                T1.4   A6
  GRA1 12:02:00.6 e        Z
  GRA1 12:02:11.2 e pP     Z
  GRA1 12:02:17.9 e sP     Z
  GRA1 12:24:28.7 e L      Z   T21.4  A410   MS4.6
SZGRF: OT 11:51:18.0 17N    60W   dep 62km
  LEEWARD ISLANDS

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-----
1999-07-11      D 84.2
  GRA1 14:26:49.6 i P      c Z   T1.6   A361   mb6.4
  GRA1 14:37:30.5 e S      Z
  GRA1 14:45:06.6 e PKPdf  Z
  GRA1 15:06:00.9 e L      Z   T19.6  A39794  MS6.8

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1999-07-11 D 84.2 AZ286
GRA1 14:44:35.7 e P Z mb4.8
BEAM 14:44:35.7 T1.4 A8
SZGRF: OT 14:32:07.7
HONDURAS

1999-07-11
GRA1 15:11:08.5 i PKPbc c Z
GRA1 15:11:16.9 e PKPab Z

1999-07-11 D 84.3 AZ321
GRA1 18:33:19.6 i P d Z mb4.9
ALIGN 18:33:19.6 T1.1 A8
GRA1 18:33:22.4 e pP Z

1999-07-11 D 84.4
GRA1 20:21:57.2 e P Z mb4.6
BEAM 20:21:57.2 T1.4 A5

1999-07-11 D 85.0 AZ291
GRA1 20:30:09.0 e P Z mb4.6
BEAM 20:30:09.0 T1.4 A6
GRA1 20:30:16.3 e pP Z
NEIC: OT 20:17:25.7 15N 88W dep 10km mb4.4
HONDURAS

1999-07-12 D 47.6
GRA1 03:50:49.8 i P c Z mb5.8
ALIGN 03:50:49.8 T1.1 A81
GRA1 03:51:12.9 e pP Z
GRA1 03:51:39.4 e sP Z
GRA1 03:52:19.7 e Z
GRA1 03:52:46.9 e Z
GRA1 03:57:41.1 e S Z
GRA1 04:14:49.0 e L Z T20.9 A2299 MS5.1

1999-07-12 D102.0
GRA1 06:11:51.5 e Pdiff c Z
GRA1 06:12:04.9 e (pP) Z
GRA1 07:02:02.8 e L Z T21.9 A899 MS5.2

1999-07-13 D153.8
GRA1 11:35:58.6 e PKP Z

 1999-07-13 D 87.0 AZ288
 GRA1 13:15:09.0 e P Z mb5.0
 BEAM 13:15:09.0 T1.2 A16
 GRA1 13:15:27.4 e pP Z
 GRA1 13:51:03.0 e L Z T21.8 A538

 1999-07-13 D 75.2
 GRA1 23:18:08.2 i P c Z mb5.4
 ALIGN 23:18:08.2 T0.9 A38
 GRA1 23:55:47.6 e L Z T18.1 A129 MS4.3

 1999-07-13 D 3.2 356km
 GRA1 20:48:01.2 e Pg Z M13.5
 GRA1 20:48:43.0 e Sg N
 SZGRF: OT 20:47:01.5 48N 8E dep 10km
 Weil a. Rhein/Basel, Swiss-German-French border region

 1999-07-14 D145.8
 GRA1 06:38:32.5 e PKPdf Z

 1999-07-14 D 83.8
 GRA1 23:08:44.2 i P c Z mb5.7
 ALIGN 23:08:44.2 T1.2 A53
 GRA1 23:08:51.6 e Z
 GRA1 23:08:59.9 e pP Z
 GRA1 23:48:59.4 e L Z T19.1 A118 MS4.3
 NEIC: OT 22:56:23.2 36N 140E dep 83km mb4.9
 NEAR EAST COAST OF HONSHU, JAPAN

 1999-07-15 D 73.0
 GRA1 10:46:48.8 e P Z mb5.2
 ALIGN 10:46:48.8 T1.1 A21
 GRA1 10:46:53.8 e pP Z
 GRA1 11:19:48.9 e L Z T21.5 A159 MS4.3
 NEIC: OT 10:35:20.3 21N 99E dep 33km mb4.9
 MYANMAR-CHINA BORDER REGION

 1999-07-15 D143.3
 GRA1 14:45:55.3 e PKPdf Z
 GRA1 15:52:22.3 e L Z T22.0 A322 MS5.0

 1999-07-15 D 21.8
 GRA1 14:59:25.0 e P Z mb4.0

BEAM 14:59:25.0 T1.1 A6
 GRA1 14:59:37.1 e Z
 NEIC: OT 14:54:31.0 34N 32E dep 10km mb4.4
 CYPRUS REGION

 1999-07-15 D163.0
 GRA1 15:13:22.2 e PKPab Z

 1999-07-15 D143.7
 GRA1 16:04:28.0 e PKPdf Z

 1999-07-15 D148.1
 GRA1 16:25:36.7 e PKP Z
 GRA1 17:27:38.3 e L Z T21.3 A105 MS4.6
 NEIC: OT 16:05:54.5 20S 178E dep 70km mb4.6
 SOUTH OF FIJI ISLANDS

 1999-07-15 D 44.9
 GRA1 21:55:20.8 e P Z mb4.9
 ALIGN 21:55:20.8 T1.2 A19
 GRA1 21:55:30.9 e pP Z
 GRA1 22:16:20.6 e L Z T19.6 A306 MS4.2
 NEIC: OT 21:47:05.9 37N 73E dep 33km mb4.7
 TAJIKISTAN

 1999-07-15 D 84.4
 GRA1 23:25:27.4 e P Z mb5.4
 ALIGN 23:25:27.4 T1.6 A46
 GRA1 23:25:33.7 e Z
 GRA1 23:26:05.9 e (pP) Z
 GRA1 00:02:04.3 e L Z T21.1 A41 MS3.8

 1999-07-16 D 87.4 AZ 50
 GRA1 02:31:58.7 e P Z T1.3 A16 mb5.0
 SZGRF: OT 02:19:15.8 27N 132E dep 33km
 EAST OF RYUKYU ISLANDS

 1999-07-16
 GRA1 03:44:38.0 e PKP Z
 GRA1 03:44:53.9 e Z

 1999-07-16 D 4.1 454km
 GRA1 05:26:00.1 e Pg Z M13.7
 GRA1 05:26:57.3 e Sg E
 SZGRF: OT 05:24:45.6 46N 11E dep 10km

NORTHERN ITALY

1999-07-16 D 79.0 AZ 25
GRA1 05:29:33.1 e P Z T0.7 A12 mb5.1
SZGRF: OT 05:17:34.1 47N 155E dep 33km
KURIL ISLANDS REGION

1999-07-17 D 80.0 AZ 29
GRA1 01:18:23.8 e P Z T0.7 A9 mb4.8
GRA1 01:18:44.4 e sP Z
SZGRF: OT 01:06:19.1 44N 150E dep 51km
KURIL ISLANDS REGION

1999-07-17 D 86.4 AZ 56
GRA1 20:57:58.7 e P Z T0.8 A9 mb4.9
SZGRF: OT 20:45:20.6 24N 126E dep 33km
SOUTHWESTERN RYUKYU ISLANDS

1999-07-17 D 48.3 AZ 90
GRA1 23:16:09.2 e P Z T1.0 A7 mb4.7
SZGRF: OT 23:07:31.4 30N 71E dep 33km
PAKISTAN

1999-07-18
GRA1 07:53:30.1 e PKP Z
GRA1 07:53:36.1 e Z

1999-07-18
GRA1 10:25:16.9 e P Z

1999-07-18 D153.8
GRA1 10:52:44.2 e PKPdf Z
GRA1 10:52:52.0 e PKPbc Z
GRA1 10:53:02.8 e PKPab Z
GRA1 10:55:04.6 e pPKPbc Z

1999-07-18
GRA1 10:53:42.4 e PKPbc Z
GRA1 10:53:53.8 e PKPab Z

1999-07-18 D 44.9
GRB1 22:00:01.1 e P Z T1.0 A26 mb5.1
GRA1 22:00:02.8 e P Z T0.9 A24 mb5.1
SZGRF: OT 21:51:50.6 38N 74E dep 33km
TAJIK-SINKIANG BORDER REGION

1999-07-19 D158.4
GRA1 02:36:56.5 e PKPdf Z
GRA1 02:37:30.5 e PKPab Z
GRA1 02:41:01.0 e PP Z
GRA1 03:46:25.7 e L E T22.0 A2813 MS6.1
NEIC: OT 02:17:05.1 29S 178W dep 49km mb6.3
KERMADEC ISLANDS REGION

1999-07-19 D 33.0
GRA1 22:07:37.4 e P Z T1.4 A34 mb5.1
NEIC: OT 22:00:05.7 86N 84E dep 10km mb4.7
NORTH OF SEVERNAYA ZEMLYA

1999-07-19 D162.6
GRA1 17:05:02.5 e PKPdf Z
GRA1 17:05:51.2 e PKPab Z
GRA1 17:06:01.4 e Z
NEIC: OT 16:45:03.3 33S 177W dep 33km mb5.5
SOUTH OF KERMADEC ISLANDS

1999-07-20 D 92.5 AZ 43
GRA1 01:06:24.0 e P Z T1.3 A46 mb5.7
SZGRF: OT 00:53:17.1 26N 142E dep 33km
BONIN ISLANDS REGION

1999-07-20
GRA1 04:01:36.2 e P Z

1999-07-20 D 23.8 AZ105
GRA1 04:27:48.7 e P Z T1.0 A21 mb4.6
SZGRF: OT 04:22:38.5 39N 41E dep 33km
TURKEY

1999-07-20
GRA1 06:13:35.7 e PKP Z

1999-07-20
GRA1 20:40:42.5 e (P) Z

1999-07-21
GRA1 01:34:56.9 e PKP Z
NEIC: OT 03:10:45.0 18S 178W dep561km mb5.4
FIJI ISLANDS REGION

1999-07-21 D147.7

GRA1 03:29:24.0 e PKPdf Z
GRA1 03:29:28.0 e PKPbc Z
GRA1 03:29:32.0 e PKPab Z
SZGRF: OT 03:10:44.0 18S 178W dep 33km
SOUTH OF FIJI ISLANDS

1999-07-21 D 83.6
GRA1 13:58:41.9 e P Z T1.2 A326 mb6.4
SZGRF: OT 13:46:16.7 5N 97E dep 33km
NORTHERN SUMATERA

1999-07-22
GRA1 00:02:46.8 e P Z

1999-07-22 D 66.7
GRA1 05:46:13.4 e (P) Z
GRA1 05:46:33.0 e Z
SZGRF: OT 05:35:27.7 63N 150W dep 33km
CENTRAL ALASKA

1999-07-22 D 65.9
GRA1 10:53:14.7 e P Z T0.8 A9 mb5.1
SZGRF: OT 10:42:32.4 23N 91E dep 33km
BANGLADESH

1999-07-22 D 80.1 AZ 32
GRA1 13:58:26.8 e P Z mb4.8
BEAM 13:58:26.8 T0.8 A10
SZGRF: OT 13:46:21.3 43N 146E dep 33km
OFF COAST OF HOKKAIDO, JAPAN

1999-07-23
GRA1 03:03:46.9 e PKP Z
NEIC: OT 02:45:02.4 21S 179W dep600km mb4.1
FIJI ISLANDS REGION

1999-07-23
GRB5 04:15:40.2 e PKP Z
NEIC: OT 03:56:46.0 21S 178W dep516km mb4.2
FIJI ISLANDS REGION

1999-07-23
GRB5 14:59:33.9 e (P) Z
GRA1 14:59:34.5 e (P) Z

1999-07-23
GRA1 23:11:09.1 e PKP Z

 1999-07-24 D 81.1 AZ 29
 GRA1 01:54:38.3 i P Z T1.4 A53 mb5.4
 GRA1 01:54:48.9 e pP Z
 GRA1 01:54:54.7 e sP Z
 GRA1 02:04:42.3 e S N
 GRA1 02:36:00.5 e L Z T18.2 A705 MS5.1
 SZGRF: OT 01:42:27.8 43N 151E dep 40km
 NORTH PACIFIC OCEAN

1999-07-24 D 2.6 293km
 GRA1 02:49:02.0 e Sg N M12.3
 SZGRF: OT 02:47:37.5 51N 15E dep 10km
 Zittau, German-Czech border region

1999-07-24
 GRA1 03:29:51.6 e PKP Z

1999-07-24 D 23.6
 GRA1 10:15:37.1 e P Z T1.1 A23 mb4.6
 GRA1 10:15:43.2 e pP Z
 SZGRF: OT 10:10:29.6 73N 12E dep 26km
 NORWEGIAN SEA

1999-07-24 D 14.4
 GRC3 16:09:24.1 e P Z T1.4 A13
 GRA1 16:09:32.5 e P Z
 GRA1 16:15:22.5 e L Z T23.4 A917 MS3.8

1999-07-24
 GRA1 16:39:11.8 e PKP Z

1999-07-24 D 5.0
 GRA1 22:12:24.3 e Pn Z

1999-07-25 D 15.0
 GRA1 07:00:35.5 e P Z T1.6 A59
 GRA1 07:06:30.8 e L Z T13.0 A3304

1999-07-25 D 3.8 423km
 GRA1 21:08:12.1 e Pn Z M13.7
 GRA1 21:09:12.0 e Sg E
 SZGRF: OT 21:07:11.9 46N 14E dep 1km

AUSTRIA

 1999-07-26 D124.5
 GRA1 01:48:47.6 e Pdiff Z
 GRA1 01:52:13.4 e PKPdf Z
 GRA1 01:54:00.6 e PP Z
 GRA1 02:01:18.8 e Sdiff E
 GRA1 02:10:49.3 e SS E
 GRA1 02:47:25.3 e L Z T21.5 A4476 MS6.1
 NEIC: OT 01:33:16.6 5S 152E dep 33km mb5.8
 NEW BRITAIN REGION, P.N.G.

1999-07-26 D 79.9
 GRA1 02:57:46.8 i P c Z T0.8 A36 mb5.3
 SZGRF: OT 02:45:42.7 41N 142E dep 33km
 HOKKAIDO, JAPAN REGION

1999-07-26
 GRA1 06:23:34.8 e PKP Z
 NEIC: OT 06:03:57.4 16S 172W dep 33km mb4.9
 SAMOA ISLANDS REGION

1999-07-26 D 17.2
 GRA1 20:18:28.3 e P Z T0.7 A6 mb3.8
 SZGRF: OT 20:14:28.6 38N 29E dep 33km
 TURKEY

1999-07-26 D 75.6
 GRA1 21:33:52.9 i P c Z T1.2 A61 mb5.6
 SZGRF: OT 21:22:12.6 50N 155E dep 33km
 KURIL ISLANDS

1999-07-27 D 4.9 549km
 GRA1 04:05:54.8 e Sg N
 SZGRF: OT 04:03:16.9 45N 11E dep 10km
 NORTHERN ITALY

1999-07-27 D 81.2 AZ 33
 GRA1 05:42:38.1 e P Z T1.4 A54 mb5.4
 SZGRF: OT 05:30:27.2 41N 145E dep 33km
 OFF EAST COAST OF HONSHU, JAPAN

1999-07-27 D 3.6 404km
 GRA1 14:31:43.4 e Sg E M13.7
 SZGRF: OT 14:29:47.0 51N 16E dep 1km
 POLAND

1999-07-27
 GRA1 23:49:56.3 e PKP Z

1999-07-28 D157.6
GRA1 00:36:52.1 e PKPdf Z
GRA1 00:37:25.0 e PKPab Z
GRA1 01:46:11.6 e L E T21.2 A861 MS5.6

1999-07-28
GRA1 01:35:30.4 e PKPab Z

1999-07-28 D159.8
GRA1 10:28:17.5 e PKPdf Z
GRA1 10:28:55.1 e PKPab Z
NEIC: OT 10:08:21.7 30S 178W dep 33km mb6.1
KERMADEC ISLANDS, NEW ZEALAND

1999-07-28 D 3.6 402km
GRA1 20:45:41.0 e Sg E
SZGRF: OT 20:43:46.0 51N 16E dep 1km
POLAND

1999-07-29 D 15.0
GRA1 04:54:40.2 e P Z T1.4 A

1999-07-29 D 41.8
GRA1 08:43:18.8 e P Z T0.9 A15 mb4.7
SZGRF: OT 08:35:33.1 41N 71E dep 33km
KIRGHIZ SSR

1999-07-29 D 40.3
GRA1 12:58:24.6 e P Z
GRA1 12:58:32.8 e Z
SZGRF: OT 12:50:52.0 60N 60W dep 33km
DAVIS STRAIT

1999-07-29 D 74.7
GRA1 14:46:50.3 e P Z T2.4 A103 mb5.4
SZGRF: OT 14:35:15.6 51N 154E dep 33km
NORTHWEST OF KURIL ISLANDS

1999-07-29 D 86.3
GRA1 22:03:13.4 i P c Z T1.0 A32 mb5.4
SZGRF: OT 21:50:35.3 17N 93W dep 33km
CHIAPAS, MEXICO

1999-07-30 D 37.6

GRA1 11:05:28.2 e P Z T1.1 A29 mb4.9
NEIC: OT 10:57:57.9 86N 80E dep 10km mb4.7
NORTH OF SEVERNAYA ZEMLYA

1999-07-30 D123.7
GRA1 16:06:53.1 e PKP Z

1999-07-31 D 78.6
GRA1 02:32:19.1 e P Z T1.1 A7 mb4.6
SZGRF: OT 02:20:22.2 49N 141W dep 33km
WEST OF VANCOUVER ISLAND

1999-07-31
GRA1 04:26:39.2 e PKP Z

1999-07-31 D 75.6
GRA1 11:48:29.2 e P Z T1.3 A16 mb5.0
SZGRF: OT 11:36:49.0 51N 156E dep 33km
KURIL ISLANDS

1999-07-31
GRA1 14:59:34.6 e (P) Z

1999-07-31 D 31.7
GRA1 17:34:54.5 e P Z T1.1 A14 mb4.8
NEIC: OT 17:27:22.9 86N 84E dep 10km mb4.5
NORTH OF SEVERNAYA ZEMLYA

1999-07-31 D 87.0 AZ 59
GRA1 17:49:29.9 e P Z T0.6 A4 mb4.8
GRA1 17:49:37.5 e pP Z
SZGRF: OT 17:36:46.1 22N 124E dep 26km
SOUTHEAST OF TAIWAN

1999-07-31 D 77.0
GRA1 19:09:58.1 e P Z T0.9 A16 mb5.1
SZGRF: OT 18:58:10.1 49N 157E dep 33km
KURIL ISLANDS

1999-07-31
GRA1 20:14:11.7 e PKP Z
