

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

16 JAN 1969

THE SEISMOLOGICAL BULLITIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

Geographical coordinates, Geocentric direction cosines a, b, c
and the height of the Station are given as below :

Lat.	38°04.0' N.	a = + 0.54 501
Long.	46°19.6' E.	b = + 0.57 088
Height.	1 430-m.	c = + 0.61 400

Local Geology:

The Station is constructed on hard formation about three meters in thickness. Below the hardpan is unconsolidated coarse grain sand. Sediment thickness below the Station is not known but believed to be sevral hundred meters.

Instruments:

Two complete sets of WWSS types:

- | | |
|--------------------------------|---|
| a- Short-period Seismographs: | North-South, East-West and
Up-Down components. |
| Natural period of Pendulum | 1.0 Sec in all components |
| Natural period of Galvanometer | 0.75 Sec in all components |
| Magnification | 12 500 in all components |
| b- Long-period Seismographs: | North-South, East-West and
Up-Down components. |
| Natural period of Pendulum | 15.0 Sec in all components |
| Natural period of Galvanometer | 100 Sec in all components |
| Magnification. | 1 500 in all components |

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1 e PKPZ 00 39 59 SP;
D=121°

USCGS:

H: 00 21 06.6; 12.1 S; 166.2 E;
SANTA CRUZ ISLANDS.
h: 33 Km.
Mag: 4.9(CGS).

1 e PZ 01 18 04 SP;
D=82°

USCGS:

H: 01 05 46 ; 0.1 S; 125.8 E;
MOLUCCA SEA.
h: 33 Km.
Mag: 4.7(CGS)

1 e PKPZ 07 25 12 LP;
e Z 25 28 LP;
e N 26 03 SP;
e PPZ 28 12 LP;
e SKPZ 28 42 SP;LP;
D=138.5°

USGGS:

H: 07 05 48.6; 15.3 S; 173.6 W;
TONGA ISLANDS.
h: 33 Km.
Mag: 6.0(CGS), 6½-6¾(PAS), 6.4 (BRK).

1 e PKPZ 22 17 48 SP;
D=119.7°

USCGS:

H: 21 58 57.8; 11.1 S; 165.5 E;
SANTA CRUZ ISLANDS.
h: 33 Km.
Mag: 5.4(CGS), 6(PAS).

2 e PZ 08 24 09 SP;
eiSN 27 57 LP;
D=20.3°

USCGS:

H: 08 19 32.8; 32.2 N; 22.7 E;
NEAR COAST OF LIBYA.
h: 20 Km.
Mag: 4.5(CGS).

2 e PZ 13 52(12) SP;
e SE 53 49 SP;
D=8.3°

USCGS:

H: 13 50 06.2; 30.6N; 50.4 E;
IRAN.
h: 40 Km.
Mag; 5.2(CGS).

2 eiPZ 15 09 57.8 SP;
i(S)NE 10 29.4 SP;

2 e PKPZ 20 18 50 SP;LP;
ei Z 18 57.4 SP;
e Z 20 13 LP;
D=121°

USCGS:

H: 19 59 58.2; 12.3 S; 166.4 E;
SANTA CRUZ ISLANDS.
h: 33 Km.
Mag: 5.2(CGS), 5.9-6.1(BRK).

3 e PKPZ 05 54(35) SP;
e Z 55 50 LP;
e Z 58 48 LP;
e E 06 12 46 LP;
e Z 13 14 SP;LP;
D=120°

USCGS:

H: 05 35 46.6 ; 10.9 S; 165.5 E;
SANTA CRUZ ISLANDS.
h: 33 Km.
Mag: 5.2(CGS), 6.1-6.3(BRK).

3 eiPKPZ 21 42 14.5 (C) SP;LP;
i Z 42 21.8 SP;
e Z 46 16 SP;
D=120°

USCGS:

H: 21 23 22 ; 12.4 S; 166.4 E;
SANTA CRUZ ISLANDS.
h: 33 Km.
Mag: 5.0(CGS), 5.4-5.8(BRK).

4 i PZ 02 20 25.6 D SP;
i SNE 20 58.4 SP;
4 eiPZ 03 52 18.2 D SP;LP;
eipPZ 52 26.8 SP;

D=65.3°

USCGS:

H: 03 41 36.4; 20.3 N; 120.0 E;
PHILIPPINE ISLANDS REGION.
h: 33 Km.
Mag: 5.6(CGS).

4 eiPZ 06 03 20.0 D SP;LP;
e Z 03 47 SP;LP;
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(cont.)

eiSN 06 56 LP;
D=15°

USCGS:

H: 05 58 54.1; 38.6N; 22.1 E;
GREECE.
h: 7 Km.
Mag: 5.2(CGS):

5 eiPZ 00 22 29.8 D SP;LP;
i PPZE 24 10.0 LP;
i SNE 28 47.0 SP;LP;
D=42°

USCGS:

H: 00 14 40.4; 48.1 N; 102.8E;
MONGOLIA.
h: 33 Km.
Mag; 6.4(CGS), 7/4(PAS), 7.4-7.6
(BRK), 7/4(PAL), 7/4-7/2(CGS
Surface Wave).

5 i PZ 00 50 02.2 D SP;
D=42°

USCGS:

H: 00 42 13.3; 48.4 N; 103.1 E;
MONGOLIA.
h: 33 Km.
Mag: 5.6(CGS).

5 eiPZ 06 24 23.6 C SP;
i PcPZ 24 46.2 SP;
e pPZ 25 10 SP;
D=70°

USCGS:

H: 06 13 31.6; 13.8 N; 120.7 E;
PHILIPPINE ISLAND MINDORO.
h: 166 Km.
Mag: 5.4(CGS).

5 e PZ 09 24 34 SP;
5 e PZ 10 12 41 (C) LP;
ei Z 16 26 SP;LP;
eiSNE 16 31 LP;
D=21°

USCGS:

H: 10 07 58.3; 39.4 N; 72.9 E;
KIRGIZ SSR.
h: 11 Km.
Mag; 5.3(CGS).

6 eiPZ 00 06 10.4 C SP;LP;
ei(PP)Z 07 44 SP;LP;
D=42°

USCGS:

5 H: 23 58 21.4; 48.1 N; 102.9 E;
MONGOLIA.
h: 33 Km.
Mag: 5.4(CGS).

6 i PZ 00 15 16.0 C SP;LP;
e pPZ 15 26 LP;
e PPZ 17(46) LP;
D=70.5°

USCGS:

H: 00 04 02.7; 41.8 N; 143.3 E;
Hokkaido, JAPAN REGION.
h: 35 Km.
Mag: 5.5(CGS).

6 e PZ 04 19 49 SP;
eipPZ 19 58.3 SP;
D=83°

USCGS:

H: 04 07 24.6; 1.7 S; 126.3 E;
MOLUCCA SEA.
h: 39 Km.
Mag: 5.0(CGS).

6 e PZ 10 15 28 SP;
eipPZ 15 37.8 SP;
e SE 25 49 LP;
D=83°

USCGS:

H: 10 03 05.8; 1.5 S; 126.6E;
MOLUCCA SEA.
h: 57 Km.
Mag: 5.4(CGS).

7 e PZ 02 03 02 SP;
7 e PZ 13 47 35 SP;
e(pP)Z 47 50 SP;
D=87.7°

USCGS:

H: 13 34 48.3; 11.8 N; 142.7 E;
SOUTH OF MARIANA ISLANDS.
h: 36 Km.
Mag: 5.6(CGS).

7 e PKPZ 16 59(56) SP;
D=121°

USCGS:

H: 16 41 03 ; 11.9 S; 166.1 E;
SANTA CRUZ ISLANDS.
h: 33 Km.
Mag: 5.1(CGS).

8 e PZ 01 46 56 SP;

8 eiPZ 05 14 14.4 C LP;
e PPPZ 18 37 LP;
D=72°

USCGS:

H: 05 02 52.1; 56.0 N; 162.9 E;
NEAR COAST OF KAMCHATKA.
h: 33 Km.
Mag: 5.1(CGS).

8 e PZ 08 43 19 LP;
D=71.5°

USCGS:

H: 08 31 59.7; 56.2 N; 162.7 E;
NEAR EAST COAST OF KAMCHATKA.
h: 24 Km.
Mag: 4.9(CGS).

9 eiPZ 01 58 11.8 (C) SP;
i NE 02 02 18 LP;
D=12.3°

USCGS:

H: 01 55 13.6; 27.7 N; 54.5 E;
SOUTHERN IRAN.
h: 17 Km.
Mag: 5.3(CGS).

9 e PZ 16 49 28 SP;

9 e PZ 20 33 41 SP;

11 eiPZ 06 05 55.3 C SP; LP;
e pPZ 06 04 SP;
e PPZ 09 00 LP;
D=77°

USCGS:

H: 05 54 00; 0.1 S; 129.1 E;
NORTHERN CELEBES.
h: 23 Km.
Mag: 5.6(CGS).

11 i PZ 11 21 49.6 C LP;
D=4.2°

USCGS:

H: 11 20 45.7; 34.1 N; 45.7 E;
IRAN-IRAG BORDER REGION.
h: 34 Km.
Mag: 5.6(CGS).

11 e PZ 13 10 01 SP;

12 e PZ 18 17(24) SP;
D=13°

USCGS:

H: 18 14 20 ; 28.0 N; 54.5 E;
SOUTHERN IRAN;
h: 33 Km.
Mag: 4.9(CGS).

12 e PZ 21 32 49 SP;

13 e PPZ 14 08 05 LP;
D=116.1°

USCGS:

H: 13 48 11.7; 10.6 S; 161.4 E;
SOLOMON ISLANDS.
h: 32 Km.
Mag: 5.7(CGS), 6.4(PAS), 5.7-6.1
(BRK), 6(CGS SURFACE WAVE).

14 e PZ 12 16 58 SP; LP;
c sPZ 17 12 SP; LP;
D=80°

USCGS:

H: 12 04 50.7; 52.1 N; 175.4 E;
RAT ISLANDS, ALEUTION ISLANDS.
h: 41 Km.
Mag: 5.1(CGS).

14 e PZ 14 18(56) LP;
e SE 29 21 LP;
D=81.3°

USCGS:

H: 14 06 48 ; 43.4 S; 39.1 E;
PRINCE EDWARD ISLANDS REGION.
h: 33 Km.
Mag: 5.3(CGS).

14 e PZ 15 34 58 SP;
D=26.8°

USCGS:

H: 15 29 15.0; 44.6 N; 81.5 E;
NORTHERN SINKIANG PROVINCE; CHINA.
h: 33 Km.
Mag: 5.0(CGS).

14 e PZ 17 08 40 SP;

14 e PZ 21 34(05) SP;

15 e PZ 00 05 30 SP;
i SE 07 20.0 SP;
e PcPZ 11 50 SP;

D=9.6°

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USCGS:

H: 00 03 14.3; 29.7 N; 51.3 E;
SOUTHERN IRAN.
h: 33 Km.
Mag: 4.7(CGS).

15 eiPZ 01 38 42.8 C SP;
D=76.3°

USCGS:

H: 01 26 55 ; 8.5 S; 111.6 E;
JAVA.
h: 33 Km.
Mag: 5.0(CGS).

15 eiPZ 20 07 06 SP; LP;
e pPZ 07 16 SP;
e PcPZ 08 45 SP;
e SE 13 51 LP;
D=45.8°

USCGS:

H: 19 58 45.6; 55.7 N; 110.7 E;
LAKE BAIKAL REGION.
h: 32 Km.
Mag: 5.1(CGS).

15 e PZ 22 23 06 SP;
16 e PZ 06 15(18) SP;
16 e PZ 07 45 13 SP;
16 e PKPZ 14 45(41) SP;
D=110.9°

USCGS:

H: 14 26 22.9; 11.2 S; 165.7 E;
SANTA CRUZ ISLANDS.
h: 6 Km.
Mag: 5.3(CGS), 5.8-6.2(BRK).

16 eiPZ 14 50 57.7 SP;
eipPZ 51 11.2 SP;
eisPZ 51 18.9 SP;
D=76.4°

USCGS:

H: 14 39 09.0; 5.8 N; 123.5 E;
MINDANAO, PHILIPPINE ISLANDS.
h: 42 Km.
Mag: 5.2(CGS).

16 e PZ 16 25(52) SP;
16 e PZ 16 31(20) SP;
16 e PZ 18 38(28) SP;
17 eiPZ 00 58 52.1 SP;

17 eiPKPZ 01 25 41.8 D SP; LP;
eiPPZ 27 20 SP; LP;
eipPKPZ 28 05 LP;
ei Z 28 23.0 SP;
ei Z 29 17.7 SP; LP;
ei Z 29 22.0 SP;
eiPPPZ 30 17 LP;
eiSKSE 31 49 LP;

D=121.2°

USCGS:

H: 01 07 54.3; 27.4 S; 63.3 W;
SANTIAGO DEL ESTRO PROV, ARG.
h: 590 Km.
Mag: 5.5(CGS), 6¼(PAS), 4.8-5.2
(BRK).

17 e PZ 04 53 40 SP;
17 i PZ 08 26 39.4 SP;
i SNE 26 52.0 SP;
17 e PZ 09 24 23 SP;
17 i PZ 12 10 50.6 C SP; LP;
eiPPZ 13 32 LP;
eiPPPZ 15 13 LP;
e SE 20 05 LP;

D=71.6°

USCGS:

H: 11 59 31.5; 38.3 N; 142.1 E;
NEAR EAST COAST OF HONSHU, JAPAN.
h: 44 Km.
Mag: 5.9(CGS), 6½(PAS), 6.5(BRK)
5.9(CGS SURFACE WAVE).

18 i PZ 05 43 39.2 D SP; LP;
i PPZ 45 37.4 LP;
ei(PPP)Z 46 17 LP;
i SE 51 03.4 LP;
i E 51 37 LP;
i SSE 55 15 LP;
D=51.5°

USCGS:

H: 05 34 32.6; 56.6 N; 120.8 E;
EASTERN RUSSIA.
h: 11 Km.
Mag: 6.1(CGS), 6½-6¾(PAS), 6.5(BRK).

18 i PZ 08 30 57.2 C SP; LP;
i (S)N 41 22 LP;
D=84.6°

USCGS:

H: 08 18 22.0; 52.5 N; 168.3 W;



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FOX ISLANDS, ALEUTIAN ISLANDS.

h: 37 Km.

Mag: 5.7(CGS), 6(PAS), 5.5-5.7(BRK).

- 18 e PZ 21 57 14 SP;
 - 19 e PZ 04 34 41 SP;
 - 19 e PZ 10 41 26 SP;
 - 19 e PKPZ 12 57 07 (C) SP;LP;
- D=120.7°

USCGS:

H: 12 38 31.3; 11.8 S; 166.4 E;
SANTA CRUZ ISLANDS.
h: 156 Km.
Mag: 5.5(CGS).

- 19 e PKPZ 12 59 35 SP;
 - eiPKSNE 13 03 10 SP;
- D=132.5°

USCGS:

H: 12 40 12.6; 14.8 S; 178.8 W;
FIJI ISLANDS REGION.
h: 18 Km.
Mag: 6.6(CGS), 6¼(PAS), 6.8(CGS
SURFACE WAVE.).

- 20 i PZ 02 05 12.5 C LP;
 - i PPZ 06 49.3 SP;LP;
 - i SNE 11 36 LP;
 - i SSNE 14 36 LP;
- D=42.0°

USCGS:

H: 01 57 23.1; 48.0 N; 102.9 E;
MONGOLIA.
h: 33 Km.
Mag: 6.1(CGS), 6¼(PAS), 6.8-7.2
(BRK).

- 20 e PZ 03 35 04 SP;
- D=42°

USCGS:

H: 03 27 13.9; 48.0 N; 103.0 E;
MONGOLIA.
h: 33 Km.
Mag: 5.0(CGS).

- 20 i PZ 03 36 38.4 C SP;
- D=42°

USCGS:

H: 03 28 45 ; 47.8 N; 102.8 E;

MONGOLIA.

h: 33 Km.

Mag: 5.1(CGS).

- 21 e PKPZ 03 14 06 SP;
- D=162.8°

USCGS:

H: 02 54 00.8; 49.8 S; 114.8 W;
EASTER ISLANDS, CORDILLERA.
h: 33 Km.
Mag: 5.3(CGS).

- 22 eiPZ 12 09 37.6 SP;
- D=42°

USCGS:

H: 12 01 49.0; 48.1 N; 102.9 E;
MONGOLIA.
h: 33 Km.
Mag: 5.1(CGS).

- 23 eiPZ 09 31 25.1 (C) SP;LP;
 - eipPZ 32 01.7 SP;
- D=78.6°

USCGS:

H: 09 19 38.4; 0.7 N; 122.5 E;
NORTHERN CELEBES.
h: 166 Km.
Mag: 5.2(CGS).

- 23 e PZ 12 45 41 SP;
 - 23 e PZ 20 59(10) SP;
- D=69.3°

USCGS:

H: 20 47 56.7; 1.6 S; 15.6 W;
NORTH OF ASCENSION ISLANDS.
h: 33 Km.
Mag: 5.1(CGS).

- 24 e PZ 00 59 43 SP;
 - 24 i PZ 03 16 44.8 C SP;LP;
- D=70°

USCGS:

H: 03 05 39.0; 41.4 N; 141.9 E;
HOKKAIDO, JAPAN REGION.
h: 69 Km.
Mag: 5.7(CGS), 5¼(PAL).

- 24 e PZ 09 40 37 SP;
- eisPZ 40 51.0 SP;LP;
- ei Z 42 28 LP;
- eiPPZ 43 20 LP;

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ei Z 45 18 LP;
eiPPPPZ 46 03 SP;

D=72.6°

USCGS:

H: 09 29 12.3; 0.6 S; 21.0 W;
CENTRAL MID-ATLANTIC RIDGE.
h: 33 Km.
Mag: 4.9(CGS).

25 i PZ 01 54 35.4 C SP;LP;
i Z 54 50.7 SP;
i Z 55 51.4 SP;LP;
iSNE 58 08.0 LP;
iScPZ 02 01 45.4 SP;
eiScSN 05 29.0 SP;

D=20.4°

USCGS:

H: 01 50 19.4; 36.6 N; 71.6 E;
AFGHANISTAN-USSR BORDER REGION.
h: 281 Km.
Mag: 5.7(CGS).

25 e PZ 03 15 13 SP;
26 e PE 16 23 27 SP;
26 e PZ 19 11(32) SP;
27 e PZ 02 09 23 SP;
28 eiPZ 14 05 29.0 (C) SP;
i Z 05 31.4 SP;
e N 12 24 LP;
i N 15 56.2 LP;

D=84.7°

USCGS:

H: 13 52 58.3; 52.4 N; 169.5 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 47 Km.
Mag: 6¼-6½(PAS), 6.3-6.7(BRK)
6.7(CGS SURFACE WAVE).

23 e PZ 14 18 29 SP;

D=84.7°

USCGS:

H: 14 05 58.1; 52.3 N; 169.5 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 54 Km.
Mag: 5.0(CGS).

28 e PZ 14 35 58 SP;

D=84.7°

USCGS:

H: 14 23 26.7; 52.4 N; 169.4 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 47 Km.
Mag: 5.2(CGS).

28 e PZ 16 43 54 SP;
i E 44 16.1 SP;

D=85°

USCGS:

H: 16 31 21.1; 52.3 N; 169.3 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 32 Km.
Mag: 5.6(CGS).

28 e PZ 17 32 06 SP;

D=84.7°

USCGS:

H: 17 19 32.7; 52.3 N; 169.5 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 41 Km.
Mag: 4.7(CGS).

28 eiPZ 17 54 32.9 SP;

D=84.7°

USCGS:

H: 17 42 01.5; 52.4 N; 169.4 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 50 Km.
Mag: 5.6(CGS), 6(PAS).

28 e PZ 22 39 12 SP;

29 e PZ 00 17 39 SP;

29 e PZ 03 57 18 SP;

D=14.2°

USCGS:

H: 03 53 58.8; 26.5 N; 55.3 E;
SOUTHERN IRAN.
h: 42 Km.
Mag: 5.1(CGS).

29 e PZ 07 09 24 SP;

D=14.2°

USCGS:

H: 07 06 00 ; 26.7 N; 55.3 E;
SOUTHERN IRAN.
h: 58 Km.
Mag: 4.9(CGS).

29 e PZ 07 15(30) SP;
D=14.2°

USCGS:

H: 07 12 05 ; 26.5 N; 55.3 E;
SOUTHERN IRAN.
h: 33 Km.
Mag: 4.7(CGS).

29 e PZ 07 59 54 SP;
i Z 08 02 29.0 LP;
D=14°

USCGS:

H: 07 56 39.2; 26.5 N; 55.2 E;
SOUTHERN IRAN.
h: 38 Km.
Mag: 5.2(CGS).

29 e PZ 09 35 25 SP;

29 i PZ 17 20 11.6 SP;

30 e PZ 01 21 23.8 C SP;LP;
i Z 21 27.8 SP;
D=3.4°

USCGS:

H: 01 20 31.7; 41.0 N; 44.2 E;
WESTERN CAUCASUS.
h: 33 Km.
Mag: 5.0(CGS).

30 e PZ 01 35 33 SP;

30 e PZ 12 26 05.2 SP;
i SN 26 56.2 SP;

D=4.3°

USCGS:

H: 12 25 00.6; 39.3 N; 41.3 E;
TURKEY.
h: 33 Km.
Mag: 4.8(CGS).

30 i PZ 21 13 33.0 C SP;
e PPZ 15 20 SP;LP;

D=43.8°

USCGS:

H: 21 05 30.4; 26.2 N; 96.2 E;
BURMA.
h: 44 Km.
Mag: 5.5(CGS).

31 e PZ 03 43 26 SP;
D=42.0°

USCGS:

H: 03 35 36.3; 47.9 N; 102.8 E;
MONGOLIA.
h: 33 Km.
Mag: 4.9(CGS).

31 eiPZ 17 55 13.1 (C) SP;

31 e PZ 19 03 41 SP;
D=14°

USCGS:

H: 19 00 22.7; 26.5 N; 55.3 E;
SOUTHERN IRAN.
h: 16 Km.
Mag: 5.2(CGS).

M.S.Nabavi

A.Enzabi

1 ciPZ 01 10 35.5 SP;
eiSZ 13 10 LP;
D=14°

USCGS:

H: 01 07 19.2; 23.7 N; 55.3 E;
SOUTHERN IRAN.
h: 19 Km.
Mag: 5.0(CGS).

1 i PZ 02 23 50.7 SP;
i SE 29 18.7 SP;

1 e PZ 03 35 38 SP;

1 ciPZ 15 30 53 SP;
D=67.7°

USCGS:

H: 15 19 56.8; 4.8 S; 103.2 E;
SOUTHERN SUMATRA.
h: 33 Km.
Mag: 5.3(CGS).

2 e PPZ 06 45 11 LP;
e Z 54 50 LP;
D=112.7°

USCGS:

H: 06 25 49.8; 57.9 S; 25.7 W;
SOUTH SANDWICH ISLANDS REGION.
h: 81 Km.
Mag: 5.8(CGS).

2 eiPE 07 42 56.0 SP;
eipPZ 43 04.6 SP;
D=22.9°

USCGS:

H: 07 37 54.9; 39.7 N; 75.5 E;
SOUTHERN SINKIANG PROV., CHINA.
h: 39 Km.
Mag: 5.3(CGS).

2 eiPZ 16 35 23.0 D SP;LP;
ei Z 35 31.5 SP;
eiPcPZ 35 34.8 SP;
eipPZ 36 07.3 SP;
eiPPZ 37 52.8 SP;
eiSNE 44 09 LP;

D=68.2°

USCGS:

H: 16 24 39.1; 41.6 N; 139.7 E;
HOKKAIDO, JAPAN REGION.
h: 176 Km.
Mag: 5.4(CGS).

3 e PZ 11 19 15 SP;
3 eiPZ 12 58 48.5 D SP;LP;
i Z 59 53.7 SP;
ei Z 13 00 40.2 SP;LP;
eiPPZ 01 35.4 SP;LP;
i SNE 07 34.3 SP;LP;
e N 09 09 LP;
e N 10 54 LP;
D=73.7°

USCGS:

H: 12 48 09.2; 5.6 S; 110.5 E;
JAVA SEA.
h: 560 Km.
Mag: 5.4(CGS).

4 e PZ 18 01 07 SP;
D=79.3°

USCGS:

H: 17 49 02.4; 25.5 N; 142.7 E;
VOLCANO ISLANDS REGION.
h: 33 Km.
Mag: 4.9(CGS).

4 e PZ 21 14 58 SP;
e SNE 15 34 SP;

4 e PZ 22 09 42 SP;
e SNE 10 12 SP;

5 e PZ 19 06 52 SP;LP;
e E 16 07 LP;
D=68.7°

USCGS:

H: 18 55 45.1; 5.4 S; 11.4 W;
ASCENSION ISLANDS REGION.
h: 19 Km.
Mag: 5.2(CGS).

6 e PZ 00 10 44 SP;
7 e PZ 02 26 52 SP;
i SNE 27 16.5 SP;

7 e PZ 15 05(33) SP;
D=83.5°

USCGS:

H: 14 53 13.9; 56.7 N; 157.2 W;
ALASKA PENINSULA.
h: 67 Km.
Mag: 5.6(CGS), 4.4(BRK).

8 e PZ 17 25 39 SP;
D=42.7°

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USCGS:

H: 17 17 45.7; 23.2 N; 93.9 E;
 BURMA*INDIA BORDER REGION.
 h: 33 Km.
 Mag: 5.1(CGS).
 9 e PZ 09 43 41 SP;
 e SNE 44 12 SP;
 9 i PZ 13 09 03.2 SP;
 9 i PZ 14 12 58.5 D SP;LP;
 i SNE 16 55.3 SP;LP;
 D=20.3°

USCGS:

H: 14 08 18.7; 40.0 N; 20.3 E;
 GREECE-ALBANIA BORDER REGION.
 h: 3 Km.
 Mag: 5.6(CGS).
 9 eiPZ 15 39 23 C LP;
 ei Z 42 44 LP;
 i PPZ 44 03.0 LP;
 i Z 45 18.1 LP;
 i Z 46 19.3 LP;
 eiSKSE 50 03 LP;
 i E 51 20 LP;
 i E 51 49 LP;
 i PSNE 53 31 LP;
 D=112.2°

USCGS:

H: 15 24 47.2; 2.9 N; 74.9 W;
 COLOMBIA.
 h: 58 Km.
 Mag: 6.3(CGS), 6% (PAS), 7.3-7.5
 (BRK), 7-7% (PAL).
 10 e PZ 05 51 46 SP;
 D=24.6°

USCGS:

H: 05 46 27.9; 33.0 N; 75.5 E;
 KASHMIR-INDIA BORDER REGION.
 h: 27 Km.
 Mag: 4.9(CGS).
 10 e PZ 19 01 08 SP;
 10 e PZ 23 48 24 SP;
 11 eiPZ 02 51 19.0 SP;
 ei(pP)Z 51 25.8 SP;
 D=73.3°

USCGS:

H: 02 39 47.1; 51.7 N; 159.5 E;

OFF EAST COAST OF KAMCHATKA.

h: 21 Km.
 Mag: 4.6(CGS).

11 e PZ 04 21 02 SP;
 11 e PZ 04 36 32 SP;
 11 e PZ 05 33(11) SP;
 11 e PZ 09 35 38 SP;LP;
 e SNE 42 10 LP;
 e SSE 45 34 LP;
 D=43.3°

USCGS:

H: 09 27 29.6; 52.0 N; 106.2 E;
 LAKE BAIKAL REGION.
 h: 5 Km.
 Mag: 5.4(CGS), 4.7(BRK).

11 e PZ 12 23 38 SP;
 i SE 24 04.2 SP;
 11 e PZ 15 20 12 SP;
 ei Z 20 45 SP;
 e E 22 44 LP;
 D=8.4°

USCGS:

H: 15 18 06.3; 30.5 N; 50.7 E;
 IRAN
 h: 42 Km.
 Mag: 5.0(CGS).

12 e PZ 06 18 35 SP;
 i SNE 18 51.5 SP;
 12 e PZ 16 11 14 SP;LP;
 e PPZ 11 40 SP;
 D=19.8°

USCGS:

H: 16 06 48 ; 35.8 N; 71.0 E;
 HINDU KUSH REGION.
 h: 100 Km.
 Mag: 5.2(CGS).

12 e PZ 16 48(11) SP;
 e Z 48 48 SP;LP;
 e E 50 44 LP;
 D=8.6°

USCGS:

H: 16 46 04 ; 30.3 N; 50.3 E;
 IRAN.
 h: 33 Km.
 Mag: 4.6(CGS).

12 e PZ 20 26 11 SP;

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13. e PZ 00 29 55 SP;
 13. e PZ 10 34 12 SP;
 i SNE 34 42.5 SP;
 13. i PZ 23 23 56.9 C SP;LP;
 i pPZ 24 01.9 SP;
 i sPZ 24 04.8 SP;LP;
 eiPPZ 26 03.0 SP;LP;
 i SZNE 31 45.0 SP;LP;

D=55.5°

USCGS:

H: 23 14 19.6; 52.7 N; 34.1 W;
 NORTH ATLANTIC OCEAN.
 h: 10 Km.
 Mag: 6¼(PAS), 6.5-6.9(BRK), 6.3
 (CGS SURFACE WAVE).

14. ei PZ 01 45 03.4 D SP;LP;
 i pPZ 45 11.5 LP;
 ei E 52 31.0 LP;
 i N 52 45.4 LP;

D=50.5°

USCGS:

H: 01 36 04.7; 13.7 N; 96.5 E;
 ANDAMAN ISLANDS REGION.
 h: 27 Km.
 Mag: 6.8(CGS SURFACE WAVE).

15. e PKPZ 16 29 50 SP;
 c PPZ 30 15 SP;
 ei Z 30 24 SP;
 eiPPPE 33 07 LP;
 eisPPE 33 48 LP;
 eipPPE 34 49 LP;
 eiSKKSE 35 54 LP;
 ei N 36 07.2 SP;
 eiSPE 39 10 LP;
 eiPKKPZ 39 24 SP;
 ei(PSE 40 35 LP;
 (SPP
 eisSN 41 05 LP;
 i (sPSN 42 58 LP;
 (sSP
 i NE 43 11 LP;
 eisSE 45 29 LP;
 eiP'P'N 48 06 LP;
 eisSSNE 49 05 LP;

D=117.2°

USCGS:

H: 16 11 11.8; 9.0 S; 71.3 W;
 PERU-BRAZIL BORDER REGION.
 h: 597 Km.
 Mag: 6.2(CGS), 6¼-7(PAS), 7.2-7.4
 (BRK).

16. e PZ 02 58 42 SP;
 e SN 59 12 SP;
 16. e PZ 11 08 16 SP;
 e SNE 09 30 SP;
 16. e PZ 11 56 55 SP;
 e SE 57 52 SP;

D=5.0°

USCGS:

H: 11 55 19 ; 35.8 N; 51.9 E;
 IRAN.
 h: 17 Km.

16. eiPZ 15 11 23.1 SP;
 e SE 12 25 SP;

D=4.5°

USCGS:

H: 15 10 03 ; 33.8 N; 47.9 E;
 WESTERN IRAN.
 h: 33 Km.
 Mag: 4.4(CGS).

17. eiPZ 00 49 40.6 (D) SP;
 D=78.8°

USCGS:

H: 00 37 42.5; 4.4 N; 125.6 E;
 TALAUD ISLANDS.
 h: 66 Km,
 Mag: 5.5(CGS).

17. eiPKPZ 10 30 17 D SP;LP;
 i sPKPZ 30 31.3 SP;
 eiPPZ 32 31.2 SP;
 eipPPZ 33 27 LP;
 eiSKPZE 34 05 LP;

D=140°

USCGS:

H: 10 10 51.5; 23.7 S; 175.2 W;
 TONGA ISLANDS REGION.
 h: 19 Km.
 Mag: 6.4(CGS), 6¼(PAS).

18. eiPZ 06 56 11.5 (C) SP;LP;
 e SKSE 07 06 23 LP;
 e SN 06 43 LP;
 eiScSNE 06 47 LP;

D=89.0°

USCGS:

H: 06 43 31.2; 6.4 S; 130.1 E;
 BANDA SEA.
 h: 159 Km.
 Mag: 5.0(CGS).

18 e PZ 10 09(21) LP;
 18 e PZ 18 22(46) SP;
 18 e PZ 20 56 16 SP;
 19 eiPZ 10 50 17.8 SP;LP;
 D=86.5°

USCGS:

H: 10 37 34.3; 0.5 S; 131.5 E;
 WEST NEW GUINEA REGION.
 h: 39 Km.
 Mag: 5.0(CGS).

19 i PZ 17 36 30.7 SP;
 i SNE 36 42 SP;
 19 eiPZ 20 14 17.6 SP;
 D=28.6°

USCGS:

H: 20 08 20.9; 42.0 N; 83.5 E;
 NORTHERN SINKIANG PROV, CHINA.
 h: 33 Km.
 Mag: 5.1(CGS).

19 e PZ 21 32 24 SP;
 eiSNE 32 43.2 SP;
 19 eiPZ 22 26 25.8 C SP;
 i Z 26 26.6 D LP;
 i PcPZ 26 35.6 SP;
 i pPZ 26 53.1 SP;
 i sPZ 27 02.6 SP;
 i Z 27 32.0 SP;
 i SNE 36 08.9 SP;LP;
 i ScSNE 36 44.5 SP;
 D=77.7°

USCGS:

H: 22 14 35.3; 9.2 S; 113.1 E;
 SOUTH OF JAVA.
 h: 80 Km.
 Mag: 6.2(CGS), 6.4(PAS).

19 e PZ 23 40 30 (C) SP;
 eiPcPZ 40 36.2 SP;
 e SKSN 50 33 SP;
 e ScSE 50 43 SP;
 eiPSE 51 16 LP;
 D=80.4°

USCGS:

H: 23 28 28.0; 0.0 S; 124.2 E;
 MOLUCCA SEA.
 h: 101 Km.
 Mag: 5.7(CGS).

20 eiPZ 00 07 41.3 D SP;
 20 e PZ 03 27 46 SP;
 e SNE 28 09 SP;
 20 i PZ 15 23 55.4 C SP;LP;
 i SNE 28 15 LP;
 e SSE 29 11 SP;
 D=24°

USCGS:

H: 15 18 39.9; 33.7 N; 75.3 E;
 EASTERN KASHMIR.
 h: 24 Km.
 Mag: 5.7(CGS).

20 e PZ 21 56 21 SP;
 e SNE 56 52 SP;
 20 ei(P)Z 23 00 38.1 SP;
 21 eiPZ 11 44 49.4 SP;
 i SNE 45 26.5 SP;
 21 eiPZ 12 43 02 D LP;
 D=24.2°

USCGS:

H: 12 37 44.5; 33.6 N; 75.3 E;
 EASTERN KASHMIR.
 h: 31 Km.
 Mag: 5.1(CGS).

21 e PZ 15 12(08) SP;
 D=6.8°

USCGS:

H: 15 10 25 ; 31.6 N; 49.2 E;
 WESTERN IRAN.
 h: 55 Km.
 Mag: 4.9(CGS).

21 eiPZ 18 54 15.0 (D) SP;LP;
 i Z 54 19.0 SP;
 i Z 54 22.0 SP;
 eiPPZ 57 24.5 SP;
 D=81.9°

USCGS:

H: 18 42 07.2; 1.5 N; 127.2 E;
 HALMAHERA.
 h: 129 Km.
 Mag: 5.2(CGS).

21 e PZ 19 12(30) SP;
 22 eiPKPZ 18 45 43.5 SP;
 ei Z 46 07.1 SP;
 ei Z 46 25.7 SP;

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D=127.3°

USCGS:

H: 18 26 46.7; 19.5 S; 169.0 E;
 NEW HEBRIDES ISLANDS.
 h: 87 km.
 Mag: 5.6(CGS).

22 e PZ 22 54 24 SP;
 i SN 54 59.0 SP;
 23 e PZ 06 54(09) SP;
 23 eiPZ 20 49 59.6 (C) SP;LP;

D=68.6°

USCGS:

H: 20 38 56.3; 26.1 N; 128.5 E;
 RYUKU ISLANDS.
 h: 30 Km.
 Mag: 5.4(CGS).

24 e PZ 10 35(09) SP;
 i SNE 35 27.8 SP;
 25 e PZ 11 32 53 (C) SP;LP;
 e pPZ 33 12 SP;
 i Z 34 08.3 SP;

D=80.3°

USCGS:

H: 11 20 47.4; 0.0 S; 123.9 E;
 NORTHERN CELEBES.
 h: 70 Km.
 Mag: 5.8 (CGS).

25 eiPZ 11 50 48.8 (D) SP;
 i pPZ 51 15.0 SP;
 i sPZ 51 25.0 SP;

D=80.4°

USCGS:

H: 11 38 46.0; 0.1 S; 123.9 E;
 NORTHERN CELEBES.
 h: 105 Km.
 Mag: 5.7(CGS).

26 eiPZ 03 07 35.5 C SP;
 eisPZ 07 51.3 SP;
 i Z 08 09.0 SP;

D=69.8°

USCGS:

H: 02 56 27 ; 6.2 S; 104.7 E;
 SUNDA STRAIT.
 h: 33 Km.
 Mag: 5.3(CGS).

26 i PZ 04 03 31.9 C SP;

D=25.5°

USCGS:

H: 03 57 57.7; 49.8 N; 78.1 E;
 EASTER KAZAKH SSR.
 h: 0 Km.
 Mag: 6.0(CGS).

27 e PZ 15 33 17 SP;
 27 eiPZ 21 04 30.2 (C) SP;LP;
 28 i PZ 09 48 56.8 C SP;LP;
 e pPZ 49 05 SP;
 e PcPZ 49 11 SP;
 e Z 51 09 LP;
 e PPZ 51 46 LP;
 e PPPZ 53 33 LP;
 e SE 58 28 SP;LP;
 e PSNE 59 07 LP;

D=74.8°

USCGS:

H: 09 37 18.0; 32.7 N; 141.7 E;
 SOUTH OF HONSHU, JAPAN.
 h: 23 Km.
 Mag: 5.5(CGS), 5.6(PAS).

28 e PZ 14 26 23 SP;
 eiPPZN 26 45.5 SP;

D=19.8°

USCGS:

H: 14 21 54 ; 37.5 N; 21.3 E;
 SOUTHERN GREECE.
 h: 77 Km.
 Mag: 4.6(CGS).

M.S.Nabavi

A.Enzabi

1 i PZ 00 6 26.5 C SP;
 i SE 50 51.5 SP;
 1 o PZ 02 50 20 SP;
 i SNE 50 30.0 SP;
 1 e PZ 09 00 15 SP;
 1 e PZ 10 16(06) SP;
 D=13.8°

USCGS:

H: 10 12 49.4; 28.3 N; 57.1 E;
 SOUTHERN IRAN.
 h: 39 Km.
 Mag: 4.9(CGS).

1 eiPZ 14 36 40.5 C SP;LP;
 D=81.4°

USCGS:

H: 14 24 26.5; 1.5 N; 126.4 E;
 MOLUCCA PASSAGE.
 h: 49 Km.
 Mag: 5.3(CGS).

1 e(P)Z 20 08 28 SP;
 1 i PZ 21 11 23.0 SP;
 i SNE 11 26.6 SP;
 2 e PZ 07 57 58 SP;
 D=10.7°

USCGS:

H: 07 55 24.3; 32.1 N; 55.8 E;
 IRAN.
 h: 33 Km.
 Mag: 4.6(CGS).

2 e PZ 09 56 15 SP;
 D=19.5°

USCGS:

H: 09 51 48; 41.4 N; 71.4 E;
 KIRGIZ SSR.
 h: 59 Km.
 Mag: 4.2(CGS).

2 e PZ 13 50(06) SP;
 2 e PZ 17 58(05) SP;
 2 i PZ 20 59 11.9 D SP;
 2 e PZ 23 15 07 (C) SP;LP;
 D=72.8°

USCGS:

H: 23 03 39.7; 53.8 N; 160.5 E;
 NEAR EAST COAST OF KAMCHATKA.

h; 21 Km.
 Mag: 5.0(CGS).

2 e PZ 23 24 36 SP;
 i SNE 24 53.5 SP;
 3 e PZ 05 57 31 SP;
 D=47.8°

USCGS:

H: 05 48 54.8; 5.3 S; 68.5 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 35 Km.
 Mag: 4.8(CGS).

3 e PZ 07 10(09) SP;
 e SNE 10 58 SP;
 3 e PZ 07 39 15 SP;
 3 e PZ 13 03 06 SP;
 3 e PZ 15 12 22 SP;
 D=71.3°

USCGS:

H: 15 01 03.7; 6.9 S; 106.1 E;
 JAVA.
 h: 33 Km.
 Mag: 4.8(CGS).

4 i PZ 02 46 28.5 SP;
 i SNE 46 39 SP;
 4 e PZ 05 18 46 SP;
 4 i SNE 05 28 42 LP;
 D=65°0'

USCGS:

H: 05 09 24.2; 21.4 N; 121.8 E;
 TAIWAN REGION.
 h: 134 Km.
 Mag: 5.5(CGS).

4 e PKPZ 06 35 16 SP;
 e Z 35 25 SP;
 e Z 35 50 LP;
 ePPZ 38 12 LP;
 i SKPZ 38 40 SP;LP;
 eisSKPZ 40 17 LP;
 D=138.8°

USCGS:

H: 06 16 21.9; 18.5 S; 175.4 W;
 TONGA ISLANDS.
 h: 225 Km.
 Mag: 5.7(CGS), 4.9-5.3(BRK).

4 e PZ 14 29 03 SP;

4 e PZ 14 49(12) SP;
 i SNE 49 20.8 SP;
 4 e PZ 18 02 05 SP;LP;
 i Z 02 08.0 C LP;
 i SNE 05 15 LP;
 D=17.1°

USCGS:

H: 17 58 06.4; 39.2 N; 24.6 E;
 AEGEAN SEA.
 h: 33 Km.
 Mag: 6.4-7(PAS), 6.5-6.7(BRK).

4 e PZ 18 42 07 SP;
 5 e PZ 19 41 15 SP;
 e SNE 41 39 SP;
 6 eiPZ 04 50 58.3 D SP;LP;
 i SN 59 46 LP;
 D=72.8°

USCGS:

H: 04 40 17.8; 30.5 N; 137.6 E;
 SOUTH OF HUNSHU, JAPAN.
 h: 490 Km.
 Mag: 5.1(CGS).

6 i PZ 12 05 54.1 SP;
 i SNE 06 22.0 SP;
 6 eiPZ 20 48 02.6 SP;LP;
 D=87.9°

USCGS:

H: 20 35 14 ; 4.0 S; 129.6 E;
 BANDA SEA.
 h: 33 Km.
 Mag: 5.0(CGS).

7 eiPZ 16 33 08.8 SP;
 e pPZ 33 55 SP;
 D=78.9°

USCGS:

H: 16 21 20.3; 4.1 N; 125.6 E;
 TALAUD ISLANDS.
 h: 170 Km.
 Mag: 5.5(CGS).

7 e PZ 17 55 11 SP;
 e SNE 55 32 SP;
 8 e PZ 02 10 49 SP;
 8 i PKPZ 22 32 42.3 D SP;
 D=123.7°

USCGS:

H: 22 13 56.8; 15.6 S; 167.6 E;

NEW HEBRIDES ISLANDS.
 h: 132 Km.
 Mag: 4.5(CGS).

9 e PZ 20 20 01 SP;
 e SNE 20 57 SP;
 9 eiPZ 21 07 35 SP;
 D=88.9°

USCGS:

H: 20 54 58 ; 6.7S ; 129.7 E;
 BANDA SEA.
 h: 166 Km.
 Mag: 4.8(CGS).

10 e PZ 21 32 15 SP;
 D=54.5°

USCGS:

H: 21 22 48.9; 56.1 N; 34.4 W;
 NORTH ATLANTIC OCEAN.
 h: 33 Km.
 Mag: 4.9(CGS).

11 e PZ 01 37 10.5 SP;
 i SNE 37 40.0 SP;
 11 i PZ 17 04 36.0 C SP;
 D=41.4°

USCGS:

H: 16 56 48.7; 28.4 N; 94.4 E;
 INDIA-CHINA BORDER REGION.
 h: 7 Km.
 Mag: 5.3(CGS).

11 e PZ 19 03 43 SP;
 11 e PZ 19 38 18 SP;
 D=19.8°

USCGS:

H: 19 33 48 ; 19.6 N; 39.0 E;
 RED SEA.
 h: 33 Km.
 Mag: 4.9(CGS).

11 e PZ 19 42 50 SP;
 D=19.6°

USCGS:

H: 19 38 22 ; 19.7 N; 38.9 E;
 RED SEA.
 h: 33 Km.
 Mag: 5.2(CGS).

12 i PZ 01 40 02.8 C SP;
 i SNE 40 06.9 SP;
 12 e PZ 18 39 52 SP;

12 e PZ 21 20 31 SP;
 e SNE 21 02 SP;
 12 e PZ 21 49 02 SP;
 D=19.7°

USCGS:
 H: 21 44 33 ; 19.7 N; 38.9 E;
 RED SEA.
 h: 33 Km

12 e Z 21 55 08 SP;
 12 e Z 22 43 31 SP;
 13 e PZ 06 27 22 LP;
 13 e PZ 07 32 33 SP;LP;
 D=19.5°

USCGS:
 H: 07 28 06 ; 19.7 N; 38.8 E;
 RED SEA.
 h: 41 Km.
 Mag: 5.3(CGS).

13 e PZ 08 15 26 C SP;LP;
 D=19.7°

USCGS:
 H: 08 10 56.3; 19.6 N; 38.9 E;
 RED SEA.
 h: 33 Km.
 Mag: 5.0(CGS).

13 e PZ 19 13 10 SP;
 D=80°0'

USCGS:
 H: 19 01 01.4; 3.6 N; 126.5 E;
 TALAUD ISLANDS.
 h: 35 Km.
 Mag: 5.4(CGS).

13 eiPZ 19 26 46.5 C SP;LP;
 i Z 26 50.5 SP;
 i PZ 26 51 LP;
 i Z 27 11.6 SP;
 eiSZ 30 30 LP;
 i SSNE 30 46 LP;
 D=20°0'

USCGS:
 H: 19 22 15.4; 19.7 N; 38.9 E;
 RED SEA.
 h: 7 Km.
 Mag: 5.8(CGS).

14 i PZ 07 05 48.6 C SP;LP;
 i(pP)Z 07 05 55.0 SP;LP;

e PPZ 07 29 LP;
 i SN 12 01 LP;
 i SSN 15 01 LP;

D=41.3°
USCGS:

H: 06 58 04.6; 28.4 N; 94.3 E;
 INDIAN-CHINA BORDER REGION.
 h: 24 Km.
 Mag: 5.9(CGS).

14 e Z 08 00 41 SP;LP;
 e Z 00 52 SP;
 14 i PZ 21 34 02.8 D SP;
 i SNE 34 33.5 SP;
 14 e PZ 21 56 37 SP;LP;
 D=20°0'

USCGS:
 H: 21 52 05 ; 19.4 N; 38.7 E;
 RED SEA.
 h: 33 Km.
 Mag: 4.6(CGS).

14 e Z 23 42 52 SP;
 e Z 45 39 SP;

15 e PZ 16 28(28) SP;
 eiSNE 30 21.5 SP;
 D=3.2°

USCGS:
 H: 16 25 59 ; 30.6 N; 50.8 E;
 IRAN.
 h: 43 Km.
 Mag: 5.0(CGS).

15 e Z 22 39(25) SP;

16 e PZ 02 46 13 SP;

16 eiPZ 03 16 29.0 SP;LP;
 eiSSN 20 32 LP;
 D=19.9°

USCGS:
 H: 03 11 59 ; 19.5 N; 38.9 E;
 RED SEA.
 h: 33 Km.
 Mag: 5.4(CGS).

16 e PZ 11 46 02 LP;
 D=20°0'

USCGS:
 H: 11 41 29 ; 19.7 N; 39.0 E;
 RED SEA.
 h: 33 Km.

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16 eipZ 14 49 41 C SP;LP;

D=19.8°

USCGS:

 H: 14 45 12.6; 19.7 N; 38.9 E;
RED SEA.

h: 33 Km.

Mag: 5.1(CGS).

16 e PZ 16 04 45 SP;LP;

e E 11 07 SP;

D=19.8°

USCGS:

 H: 16 00 16 ; 19.8 N; 38.9 E;
RED SEA.

h: 33 Km.

Mag: 5.0(CGS).

17 e PZ 00 28 53 SP;

e SNE 29 20 SP;

17 e Z 11 42 08 LP;

D=103.7°

USCGS:

 H: 11 24 45.7; 3.6 S; 150.9 E;
NEW IRELAND REGION.

h: 33 Km.

Mag: 6¼(PAS).

18 e PZ 00 11 57 SP;

e SNE 12 26 SP;

18 i Z 01 12 45.4 SP;

18 e Z 18 01 06 SP;

18 e PZ 19 33 25 SP;

D=101.2°

USCGS:

 H: 19 15 35.9; 6.0 S; 146.3 E;
EAST NEW GUINEA REGION.

h: 108 Km.

Mag: 5.6(CGS).

19 i PZ 01 23 37.2 C SP;LP;

i Z 24 01 SP;LP;

e Z 24 42 LP;

eiSKSNE 33 57.5 SP;

eiSNE 34 16.0 SP;LP;

e NE 35 59 LP;

D=87.7°

USCGS:

H: 01 10 45.8; 6.7 S; 129.9 E;

BANDA SEA.

h: 60 Km.

Mag: 5.9(CGS).

19 i PZ 04 13 07.8 C SP;LP;

i Z 13 13.0 SP;

i PcPZ 13 23 LP;

i Z 13 35 LP;

i SNE 22 34 LP;

i Z 22 48 LP;

i NE 23 27 LP;

i SSNE 27 20 LP;

D=73.5°

USCGS:

 H: 04 01 36.7; 45.4 N; 151.3 E;
KURILE ISLANDS.

h: 33 Km.

Mag: 6½(PAS).

19 i PZ 07 38 09.0 SP;

i SNE 38 37 SP;

19 i PZ 21 58 55.3 D SP;

i SNE 59 19.0 SP;

20 e PZ 02 56 46 SP;

e SNE 57 16 SP;

20 e PZ 03 59 15 SP;

e SNE 59 30 SP;

20 i PZ 13 43 02.5 C SP;LP;

eipPZ 43 15 SP;LP;

i Z 43 28.5 SP;

i(sPcP)Z 43 40.5 SP;

e Z 45 35 SP;

D=73.3°

USCGS:

 H: 13 31 34.0; 45.6 N; 151.4 E;
KURILE ISLANDS.

h: 51 Km.

Mag: 5.7(CGS), 5.5-5.9(BRK).

20 i PZ 13 52 21.8 C SP;LP;

D=73.5°

USCGS:

 H: 13 40 52.8; 45.6 N; 151.5 E;
KURILE ISLANDS.

h: 53 Km.

Mag: 5.3(CGS).

20 i PZ 14 03 35.6 C SP;LP;

i Z 03 39.5 SP;

i Z 03 42 SP;

ei E 05 04 SP;

eiPPZ 05 15 SP;

D=73.3°

USCGS:

 H: 13 52 05.5; 45.6 N; 151.5 E;
KURILE ISLANDS.

h: 32 Km.

Mag: 5.4(CGS).

20 eiPZ 15 57 55.6 (C) SP;
D=73.1°

USCGS:

H: 15 46 29.4; 45.6 N; 151.2 E;
KURILE ISLANDS.
h: 60 Km.
Mag: 5.1(CGS).

20 i PZ 17 23 05.3 SP;
D=73.3°

USCGS:

H: 17 11 34.8; 45.5 N; 151.4 E;
KURILE ISLANDS.
h: 33 Km
Mag: 5.0(CGS).

20 e PKPZ 19 26 35 SP;
D=130.0°

USCGS:

H: 19 07 25.2; 22.1 S; 170.6 E;
LOYALTY ISLANDS REGION.
h: 28 Km.
Mag: 5.5(CGS).

20 i PZ 22 31 29.6 D SP;
i Z 31 33.0 SP;
D=2.9°

USCGS:

H: 22 30 44 ; 35.8 N; 44.2 E;
IRAQ.
h: 43 Km.

21 e PZ 02 25 44 SP;
e SNE 26 21 SP;

21 e PZ 03 54 40 SP;
e SE 55 17 SP;

21 e PZ 08 03 17 SP;
D=66.8°

USCGS:

H: 07 52 25 ; 25.3 S; 69.9 E;
SOUTH INDIAN OCEAN.
h: 33 Km.
Mag: 4.6(CGS).

21 e PKPZ 11 44 13 SP;
D=142.0°

USCGS:

H: 11 24 44.6; 23.8 S; 175.2 W;
TONGA ISLANDS REGION.
h: 33 Km.
Mag: 5.4(CGS).

21 e PZ 14 54 05 SP;
e SNE 54 18 SP;

21 e PZ 18 14 34 SP;
e SNE 15 02 SP;

21 e PZ 19 48 45 SP;
e SNE 49 22 SP;

21 e PZ 20 43 59 SP;
e SNE 44 15 SP;

21 e PZ 23 43 51 SP;LP;

22 eiPZ 02 58 46 C LP;
D=19.1°

USCGS:

H: 02 54 23 ; 20.3 N; 38.7 E;
RED SEA.
h: 33 Km.

22 eiPZ 13 42 15.3 (D) SP;
eiSNE 42 39 SP;

22 e PZ 23 04 19 SP;
D=19.6°

USCGS:

H: 22 59 50 ; 19.7 N; 38.8 E;
RED SEA.
h: 33 Km.

23 e PZ 02 55 09 SP;
D=45.4°

USCGS:

H: 02 46 51.1; 2.7 S; 68.0 E;
CARLSBERG RIDGE.
h: 33 Km.
Mag: 4.8(CGS).

23 eiPZ 05 31 51 SP;LP;
D=45.3°

USCGS:

H: 05 23 34.3; 2.8 S; 68.1 E;
CARLSBERG RIDGE.
h: 33 Km.
Mag: 5.1(CGS).

23 e PZ 08 10 24 SP;
i SNE 10 35.5 SP;

25 eiPZ 14 58 35.4 SP;
i SNE 58 45.5 SP;

25 e PZ 22 29 59 SP;
D=14.8°

USCGS:

H: 22 26 29 ; 28.8 N; 60.3 E;

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(cont.)

SOUTHERN IRAN.

h: 41 Km.

Mag: 4.9(CGS).

25	i PZ	22 59 28.1	C	SP;LP;
	ei Z	59 41		LP;
	eiSN	23 08 57		LP;
	ei Z	09 11		LP;

D=73.4°

USCGS:

H: 22 47 58.4; 45.5 N; 151.4E;

KURILE ISLANDS.

h: 41 Km.

Mag: 5.5(CGS), 5.2-5.6(BRK), 5%(PAL).

26	e Z	00 46 38		SP;
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26	eiPZ	03 13 09		SP;
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	e ZNE	17 04		LP;
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D=20.8°

USCGS:

H: 03 08 27 ; 27.2 N; 67.5 E;

WESTERN PAKISTAN.

h: 21 Km.

Mag: 4.5(CGS).

26	e PZ	17 12 30		SP;
	e SNE	12 43		SP;

26	i PZ	19 21 34.5		SP;
	i SNE	21 38.1		SP;

27	e PZ	09 07 45		SP;LP;
	e SN	15 23		LP;

D=54.0°

USCGS:

H: 08 58 25.5; 38.4 N; 116.5 E;

NORTH EASTERN, CHINA.

h: 61 Km.

Mag: 5.4(CGS).

27	e PKPZ	10 20 41		SP;
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D=124.8°

USCGS:

H: 10 01 42.0; 16.5 S; 168.1 E;

NEW HEBRIDS ISLANDS.

h: 11 Km.

Mag: 5.5(CGS), 6%(PAS), 5.3-5.7(BRK).

27	eiPZ	19 58 07.5	C	SP;LP;
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	e Z	20 02 04		LP;
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D=19.5°

USCGS:

H: 19 53 41 ; 20.0 N; 38.6 E;

RED SEA.

h: 23 Km.

Mag: 5.1(CGS).

28	e Z	00 08 23		SP;
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28	e PZ	02 46 03		SP;LP;
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D=19.6°

USCGS:

H: 02 41 34 ; 19.9 N; 38.6 E;

RED SEA.

h: 33 Km.

28	e PE	08 57 09		SP;
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	i SNE	57 15.0		SP;
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28	eiPZ	19 43 28	C	SP;LP;
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D=68.8°

USCGS:

H: 19 32 25.4; 17.1 N; 122.4 E;

LUZON, PHILIPPINE ISLANDS.

h: 51 Km.

Mag: 5.3(CGS).

29	e PZ	16 47 21		SP;
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	e SNE	47 59		SP;
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29	e Z	19 42 50		SP;
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30	e PZ	00 42 33		SP;
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	i SNE	42 42.6		SP;
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30	i PZ	02 20 16.2	D	SP;LP;
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	i PcPZ	20 22.0		SP;
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	i Z	20 28.6		SP;
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	i Z	20 36.0		SP;
--	-----	---------	--	-----

	i Z	20 46.6		LP;
--	-----	---------	--	-----

	i Z	20 52.6		SP;
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	i PPZ	23 24		LP;
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	eiPPPPZ	26 42		LP;
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	eiSNE	30 20		LP;
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D=81.0°

USCGS:

H: 02 08 02.4; 11.0 S; 115.5 E;

SOUTH OF BALI ISLAND.

h: 33 Km.

Mag: 6.0(CGS).

30	e PZ	19 00 00		SP;
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	e(S)ZNE	00 26		SP;
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31	e PZ	02 24 53	(C)	SP;LP;
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	e N	35 32		LP;
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D=84.0°

USCGS:

H: 02 12 17.8; 52.1 N; 169.7 W;

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FOX ISLANDS, ALEUTIAN ISLANDS.

h: 28 Km.

Mag: 4.8(CGS).

31 eiPZ 03 22 49 C SP;LP;
e Z 26 42 LP;
e E 26 48 LP;
ei N 26 51 LP;

D=19.3°

USCGS:H: 03 18 24.2; 20.2 N; 38.6 E;
RED SEA.

h: 33 Km.

Mag: 4.8(CGS).

31 i PZ 07 06 02.0 C SP;

D=72.2°

USCGS:

H: 03 54 38.8; 12.8 N; 123.1 E;

LUZON, PHILIPPINE ISLANDS.

h: 33 Km.

Mag: 5.1(CGS).

31 e PZ 08 18 30 SP;
i SNE 19 01.0 SP;

31 eiPKPZ 20 24 03.3 SP;
i Z 24 05.2 SP;

D=123.7°

USCGS:

H: 20 05 18.9; 15.4 S; 167.5 E;

NEW HEBRIDS ISLANDS.

h: 132 km.

Mag: 5.3(CGS).

M.S.Nabavi

A.Enzabi

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1 o PZ 03 05 48.3 C SP;LP;
 i Z 05 49.6 SP;
 i pPZ 06 00.2 SP;
 i PPZ 08 36.0 SP;LP;
 eisPPZ 08 52 SP;LP;
 e Z 09 08 SP;LP;
 eiSNE 15 10 LP;
 eisSNE 15 28 LP;
 e NE 15 55 LP;

D=73.2°

USCGS:

H: 05 54 19.1; 45.8 N; 151.8 E;
 KURILE ISLANDS.
 h: 40 Km.
 Mag: 5.7(CGS), 5/4(PAS), 5.9-6.1
 (BRK), 5/4(PAL).

1 eiPZ 12 35 04.7 C SP;LP;
 i Z 35 12.6 SP;
 i Z 35 16.0 SP;
 e SNE 44 33 LP;
 e (sS)N 44 46 LP;
 e (PS)NE 45 12 LP;
 eisSSNE 49 32 LP;

D=73.3°

USCGS:

H: 12 23 35.5; 45.7 N; 151.8 E;
 KURILE ISLANDS.
 h: 40 Km.
 Mag: 5.9(CGS), 5/4(PAS), 5.4-5.8
 (BRK).

1 eiPZ 14 12 05.4 (C) SP;LP;
 D=73.3°

USCGS:

H: 14 00 33.8; 45.8 N; 151.7 E;
 KURILE ISLANDS.
 h: 23 Km.
 Mag: 5.4(CGS).

1 e Z 17 27 15 SP;

1 eiPZ 17 32 39.8 (C) SP;

D=73.5°

USCGS:

H: 17 21 09.3; 45.6 N; 151.9 E;
 KURILE ISLANDS.
 h: 40 Km.
 Mag: 4.7(CGS).

2 e PZ 10 27 57 SP;

i SNE 27 58.7 SP;

2 i PZ 12 42 37.3 SP;
 e SNE 43 37 SP;
 2 e Z 17 58 44 LP;
 D=103.7°

USCGS:

H: 17 40 38.8; 6.3 S; 148.8 E;
 NEW BRITAIN REGION.
 h: 37 Km.
 Mag: 5.0(CGS), 5/4(PAS).

2 e PZ 22 42 05 SP;
 eiSNE 42 10.2 SP;

3 e PZ 07 30 49 LP;
 e NE 34 50 LP;

3 i PZ 07 42 56 C LP;
 e Z 43 17 LP;
 ei E 43 29 LP;
 e SZN 46 28 LP;
 e sSNE 46 44 LP;
 ei Z 46 49 LP;

D=19.5°

USCGS:

H: 07 38 28.4; 19.9 N; 38.5 E;
 RED SEA.
 h: 33 Km.
 Mag: 5.1(CGS).

3 e PKPZ 13 18 06 LP;
 ei Z 18 38 LP;
 eiPPZ 21 10 LP;
 eiSKPZ 21 50 LP;

D=141.2°

USCGS:

H: 12 58 40.9; 20.2 S; 173.7 W;
 TONGA ISLANDS.
 h: 48 Km.
 Mag: 5.3(CGS), 5.1-5.5(BRK).

4 e PZ 00 50 44 SP;LP;
 e E 01 01 25 LP;
 e NE 02 04 LP;

D=94°

USCGS:

H: 00 37 26.1; 2.3 S; 138.7 E;
 WEST NEW GUINEA.
 h: 11 Km.
 Mag: 5.6(CGS).

4 e PZ 01 17 07 SP;
 e SNE 17 15 SP;

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4 e PZ 04 05 57 SP;LP;
e SNE 15 30 LP;

D=73.6°

USCGS:

H: 03 54 26.2; 45.5 N; 152.2 E;
KURILE ISLANDS REGION.

h: 42 Km.

Mag: 5.0(CGS).

4 e Z 08 11 02 SP;

4 e Z 12 01 32 SP;

4 eiPZ 17 03 31.7 C SP;

D=18.4°

USCGS:

H: 16 59 04.1; 35.4 N; 23.6 E;
CRETE.

h: 71 Km.

Mag: 4.8(CGS).

4 e Z 18 09 55 SP;

5 e PZ 02 46 49 SP;LP;

e (PP)Z 50 12 LP;

e SNE 57 20 LP;

D=87.4°

USCGS:

H: 02 34 11.1; 20.0 N; 147.1 E;
MARIANA ISLANDS REGION.

h: 50 Km.

Mag: 5.9(CGS), 5.6-5.8(BRK).

5 e PZ 03 00 33 SP;LP;

e SE 11 04 LP;

D=87.4°

USCGS:

H: 02 47 55.4; 20.0 N; 147.2 E;
MARIANA ISLANDS REGION.

h: 50 Km.

Mag: 5.7(CGS).

5 e PZ 16 08 05 SP;

e SNE 08 34 SP;

5 e Z 23 08 03 SP;

5 e Z 23 52 31 SP;

6 e Z 02 11 39 SP;

6 e Z 06 29 12 SP;LP;

e NE 38 14 LP;

D=71.9°

USCGS:

H: 06 17 29.3; 34.4 N; 139.0 E;

NEAR S. COAST OF HONSHU, JAPAN
FELT.

h: 13 Km.

Mag: 5.3(CGS).

6 e PZ 07 57 03 SP;

e SNE 57 44 SP;

6 eiPZ 12 34 38.6 D SP;LP;

e SNE 45 12 LP;

D=86.3°

USCGS:

H: 12 21 57.0; 20.1 N; 147.2 E;
MARIANA ISLANDS REGION.

h: 22 Km.

Mag: 5.7(CGS), 5-5.4(BRK).

6 e PZ 12 59 29 SP;LP;

e SN 13 01 17 SP;LP;

D=9°

USCGS:

H: 12 57 14.0; 30.1 N; 50.9 E;
IRAN.

h: 10 Km.

Mag: 5.4(CGS).

6 e PZ 18 02 50 SP;

i SNE 03 11.0 SP;

6 e PZ 20 39(59) SP;

e SNE 40 20 SP;

6 e PZ 21 04 29 SP;LP;

e(pP)Z 05 15 SP;

D=78.7°

USCGS:

H: 20 52 53 ; 0.5 N; 122.1 E;
NORTHERN CELEBES.

h: 252 Km.

Mag: 5.0(CGS).

6 e PZ 23 40 15 SP;LP;

e SN 49 38 LP;

D=72°

USCGS:

H: 23 28 51.0; 34.3 N; 139.1 E;
NEAR S. COAST OF HONSHU, JAPAN.

h: 15 Km.

Mag: 5.1(CGS).

6 eiPZ 23 43 29.4 (C) SP;

e PcPZ 43 50 SP;

D=71.6°

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 H: 23 32 10.6; 36.3 N; 140.5 E;
 NEAR EAST COAST OF HONSHU, JAPAN.

h: 44 Km.

Mag: 5.2(CGS).

7	e PZ	17 09 15	SP;
	e Z	09 27	SP;
	e Z	09 45	SP;

D=8°

USCGS:

 H: 17 07 16.2; 37.4 N; 36.1 E;
 TURKEY.

h: 49 Km.

Mag: 4.8(CGS).

7	e PZ	17 42 23	SP;
7	e PZ	18 35 29	SP;LP;
	e Z	35 41	SP;
	e Z	35 51	SP;
	ei Z	35 57.6	SP;
	e SNE	36 38	SP;

D=8°

USCGS:

 H: 18 33 31.3; 37.4 N; 36.2 E;
 TURKEY.

h: 39 Km.

Mag: 5.0(CGS).

7	e PZ	19 04 45	SP;
	e SNE	05 04	SP;
7	e Z	21 27 52	SP;
8	ei Z	05 56 11.4	SP;LP;
	ei Z	56 19.0	SP;

D=136.2°

USCGS:

 H: 05 35 17.1; 19.9 S; 178.6 W;
 FIJI ISLANDS REGION.

h: 616 Km.

Mag: 5.3(CGS).

8	eiPZ	20 25 53.7 (C)	SP;LP;
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D=79.6°

USCGS:

 H: 20 14 00.8; 5.7 N; 126.9 E;
 MINDANAO, PHILIPPINE ISLANDS.

h: 140 Km.

Mag: 5.5(CGS).

9	eiPZ	00 18 21.7	SP;
	e SN	29 28	LP;

D=93.7°

USCGS:

 H: 00 05 07.0; 4.0 S; 135.8 E;
 WEST NEW GUINEA REGION.

h: 15 Km.

Mag: 5.1(CGS).

9	e PZ	12 14 18	SP;
	e SNE	14 33	SP;
9	eiPZ	17 54 40.0 C	SP;LP;

D=89.7°

USCGS:

 H: 17 41 56.4; 7.0 S; 129.7 E;
 BANDA SEA.

h: 143 Km.

Mag: 5.3(CGS).

10	e(PKP)Z	00 16 50	SP;LP;
	e Z	20 33	LP;

D=140.1°

USCGS:

 H: 23 57 24.9; 17.7 S; 173.0 W;
 TONGA ISLANDS REGION.

h: 70 Km.

Mag: 4.9(CGS), 5.0-5.4(BRK).

10	e(P)Z	04 35 27	LP;
10	e PPZ	05 19 03	LP;

D=109.7°

USCGS:

 H: 04 59 53.9; 7.4 S; 155.7 E;
 SOLOMON ISLANDS.

h: 37 Km.

Mag: 5.5(CGS), 6(PAS), 5.2-5.6(BRK).

10	e PPZ	15 21 47	SP;LP;
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D=109.7°

USCGS:

 H: 15 02 42.2; 7.3 S; 155.8 E;
 SOLOMON ISLANDS.

h: 29 Km.

Mag: 5.6(CGS), 6(PAS), 5.2-5.6(BRK).

10	eiPKPZ	17 07 31.6	SP;
	eipPKPZ	07 43.6	SP;
	ei(SKP)Z	11 32	LP;
	ei Z	12 38	LP;

D=147.4°

USCGS:

 H: 16 47 50 ; 63.6 S; 167.3 W;
 SOUTH PACIFIC CORDILLERA.

h: 33 Km.

Mag: 5.4(CGS).

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10 e PZ 20 09 49 SP;LP;
 e SN 19 58 LP;
 D=82.9°

USCGS:

H: 19 57 34.4; 58.6 N;154.3 W;
 ALASKA PENINSULA.
 h: 86 Km.
 Mag: 5.5(CGS).

10 e PZ 20 35 18 SP;
 e SNE 35 28 SP;

10 e PZ 22 39 14 SP;
 e SNE 39 17 SP;

11 e PZ 05 21 15 SP;LP;
 D=79°

USCGS:

H: 05 09 12.1; 3.3 S;119.2 E;
 CELEBES.
 h: 21 Km.
 Mag: 5.2(CGS).

12 e PZ 00 18 21 SP;
 e SNE 19 08 SP;

12 eiPZ 05 01 14 LP;
 i SNE 09 00.5 LP;
 D=55.9°

USCGS:

H: 04 51 40.2; 5.3 N; 96.5 E;
 NORTHERN SUMATRA.
 h: 52 Km.
 Mag: 6.1(CGS), 6½(PAS), 6(BRK),
 6¼-7(GOL).

12 e PZ 13 17 05 SP;
 e SNE 17 21 SP;

12 e PZ 13 45 20 SP;
 e SNE 45 42 SP;

12 e PZ 14 36 19 SP;
 e SNE 36 55 SP;

12 e PZ 19 34 24 SP;
 e SN 38 46 LP;

D=25.4°

USCGS:

H: 19 28 55 ; 14.4 N; 56.7 E;
 ARABIAN SEA.
 h: 33 Km.
 Mag: 4.7(CGS).

13 ei(PKP)Z 14 46 28.4 C SP;LP;
 D=145.3°

USCGS:

H: 14 26 49.5; 7.0 S;151.0 W;
 LINE ISLANDS REGION.
 h: 33 Km.
 Mag: 5.2(CGS).

13 e PZ 17 36 50 SP;
 e SNE 37 13 SP;

13 e PZ 19 25 51 SP;
 e SNE 26 07 SP;

13 i PZ 20 04 40.8 C SP;LP;
 ei Z 04 54.5 SP;
 D=68.0°

USCGS:

H: 19 53 42.4; 27.3 N;128.7 E;
 RYUKYU ISLANDS.
 h: 38 Km.
 Mag: 6.0(CGS).

14 eiPZ 13 18 39.5 D SP;
 e SNE 19 12 SP;

14 e PZ 13 39 21 SP;
 i SNE 40 55.0 SP;

14 e PZ 19 03 48 SP;
 D=25.0°

USCGS:

H: 18 58 20 ; 14.6 N; 56.5 E;
 ARABIAN SEA.
 h; 33 Km.
 Mag: 4.7(CGS).

15 eiPZ 23 46 56.7 SP;
 D=69.7°

USCGS:

H: 23 35 51.1; 41.9 N;142.3 E;
 HOKKAIDO, JAPAN REGION.
 h: 66 Km.
 Mag: 4.9(CGS),

16 e PZ 10 21 41 SP;LP;
 D=74°

USCGS:

H: 10 10 06.7; 46.4 N;153.3 E;
 KURILE ISLANDS.
 h: 24 Km.
 Mag: 5.3(CGS).

16 e Z 11 09 43 SP;

17 e PZ 00 55 23 SP;
 i SNE 55 25.3 SP;

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17 e PZ 03 52 40 SP;
 e SNE 53 02 SP;
 17 e PZ 21 40 42 SP;

D=11.3°

USCGS:

H: 21 37 54.5; 34.6 N; 33.0 E;
 CYPRUS.
 h: 33 Km.
 Mag: 4.8(CGS).

18 e PN 20 57 51 SP;
 e SNE 58 23 SP;

19 e PNE 00 53 35 SP;
 e SNE 54 25 SP;

19 e PZ 23 26 10 SP;
 e SNE 26 40 SP;

20 e PNE 00 03 42 SP;
 e SNE 04 12 SP;

20 i PZ 00 14 00.4 C SP;
 i SNE 24 28.7 SP;LP;
 e(PS)N 25 48 LP;

D=88.1°

USCGS:

H: 00 01 24.9; 5.5 S; 129.7 E;
 BANDA SEA.
 h: 163 Km.
 Mag: 5.7(CGS).

20 eiPZ 04 13 32.5 (D) SP;LP;
 i NE 14 19 SP;
 e Z 14 23 LP;
 i E 15 02.5 SP;

D=25°

USCGS:

H: 04 07 57.6; 49.7 N; 78.1 E;
 EASTERN KAZAKH SSR.
 h: 0 Km.
 Mag: 5.7(CGS).

20 e PZ 12 35 15 SP;
 eiSNE 35 48.0 SP;

20 eiPZ 21 48 52.3 SP;
 i SN 49 13 SP;

21 eiPZ 08 27 04.5 C SP;LP;
 i Z 27 11.7 SP;
 e SNE 37 37 LP;
 e PSNE 38 40 LP;

D=86.2°

USCGS:

H: 08 14 25.0; 5.4 S; 126.9 E;

BANDA SEA.

h: 33 Km.

Mag: 6¼(PAS), 6.4-6.6(BRK).

21 e PZ 22 07 53 SP;
 e SNE 08 33 SP;

22 e PZ 03 20 45 SP;
 i SNE 21 03.0 SP;

22 i PZ 08 50 05.8 C SP;LP;
 e sPZ 50 20 LP;
 e PPZ 53 31 LP;
 e SN 09 00 38 LP;
 e SPN 01 39 LP;

D=86.4°

USCGS:

H: 08 37 25.5; 5.6 S; 126.8 E;
 BANDA SEA.
 h: 33 Km.
 Mag: 5.2(CGS).

22 e PZ 13 17 14 LP;
 D=56.0°

USCGS:

H: 13 07 38.1; 5.1 N; 96.4 E;
 NORTHERN SUMATRA.
 h: 42 Km.
 Mag: 5.4(CGS).

22 e PZ 17 39 41 SP;
 e Z 43 04 LP;
 D=77.7°

USCGS:

H: 17 27 49.0; 8.3 N; 127.2 E;
 PHILIPPINE ISLANDS REGION.
 h: 67 Km.
 Mag: 5.1(CGS).

22 eiPZ 19 54 46.6 C SP;LP;
 e SKSNE 20 05 04 SP;LP;
 eiSN 05 23.8 SP;
 D=89.0°

USCGS:

H: 19 41 57.8; 7.0 S; 129.5 E;
 BANDA SEA.
 h: 82 Km.
 Mag: 5.5(CGS).

23 eiPZ 13 02 16.5 SP;
 ei^(pP)Z 02 26.0 SP;
 e^(pCP) 12 47 LP;
 D=77.3°

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USCGS:

 H: 12 50 24.9; 8.6 N; 126.5 E;
 MINDANAO PHILIPPINE ISLANDS.
 h: 43 Km.
 Mag: 5.3(CGS).

23	e PZ	17 08 35	SP;
	e SNE	09 10	SP;
23	eiPZ	18 05 44	SP;
	e Z	06 10	SP;

D=89.6°

USCGS:

 H: 17 52 51.0; 13.5 N; 146.1 E;
 SOUTH OF MARIANA ISLANDS .
 h: 56 Km.
 Mag: 5.6(CGS).

24	e PZ	07 48 06	SP;
24	eiPZ	08 55 57.4 C	SP;LP;
	e SNE	59 47	LP;
	ei Z	59 48	LP;

D=21.3°

USCGS:

 H: 08 51 10.9; 37.4 N; 72.7 E;
 TADZHIK SSR.
 h: 31 Km.
 Mag: 5.6(CGS).

24	e PZ	15 22 17	SP;
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D=62.1°

USCGS:

 H: 15 12 48.2; 42.4 N; 131.0 E;
 E.RUSSIA-N.E.CHINA BORDER REGION.
 h: 521 Km.
 Mag: 4.2(CGS).

24	e(P)Z	18 34 49	SP;
24	e PZ	22 52 25	SP;
	e SNE	52 44	SP;
25	e PZ	10 36 57	SP;
	eipPZ	37 06.2	SP;
	eisPZ	37 10.5	SP;
	ei Z	38 28.5	SP;

D=31.4°

USCGS:

 H: 10 30 37.8; 43.3 N; 87.0 E;
 NORTHERN SINKIANG PROV., CHINA.
 h: 34 Km.
 Mag: 5.2(CGS).

26	eiPZ	13 21 18.6	SP;LP;
	e Z	29 06	LP;

D=55.9°

USCGS:

 H: 13 11 42.3; 1.3 S; 89.5 E;
 SOUTH INDIAN OCEAN.
 h: 33 Km.
 Mag: 5.1(CGS).

26	e PZ	15 17 02	SP;
	e SNE	17 16	SP;

26	e Z	19 33 37	SP;
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26	e Z	19 41 58	SP;
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27	e PZ	08 06 36	SP;
	e SNE	07 27	SP;

27	e PZ	08 23 04	LP;
	eiSN	34 11	LP;

D=93.0°

USCGS:

 H: 08 09 47.9; 1.8 S; 138.7 E;
 NEAR N. COAST OF WEST NEW GUINEA.
 h: 33 Km.
 Mag: 5.3(CGS).

27	e PZ	20 51 21	SP;
----	------	----------	-----

D=15.2°

USCGS:

 H: 20 47 48 ; 26.5 N; 58.0 E;
 SOUTHERN IRAN.
 h: 35 Km.
 Mag: 4.5(CGS).

27	eiPZ	23 21 08.4 (D)	SP;
	e N	26 08	LP;

D=27.8°

USCGS:

 H: 23 15 19.7; 41.7 N; 82.3 E;
 SOUTHERN SINKIANG PROV., CHINA.
 h: 33 Km.
 Mag: 5.0(CGS).

27	e PZ	23 57 49	LP;
28	e N	00 01 52	LP;

28	eiPZ	15 52 30.0	SP;
	i SE	53 22	SP;

28	eiPZ	16 40 57.0	SP;
	i SNE	42 00.0	SP;

D=4.7°

USCGS:

 H: 16 39 47 ; 33.6 N; 44.4 E;
 IRAQ.
 h: 32 Km.
 Mag: 4.6(CGS).

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28 e PZ 19 41 45 SP;
D=13.8°

USCGS:

H: 19 38 29 ; 28.5 N; 57.5 E;
SOUTHERN IRAN.
h: 24 Km.
Mag: 4.8(CGS).

29 eiPZ 04 07 41.8 C SP;LP;
D=83.0°

USCGS:

H: 03 55 20.8; 51.4 N; 178.3 W;
ANDREANOF ISLANDS, ALEUTIAN ISLANDS.
h: 50 Km.
Mag: 6.0(CGS), 5¼-5½(GOL).

29 e PZ 08 26 58 SP;
i SNE 27 21.4 SP;

29 e PZ 09 15 40 SP;
i SNE 16 11.5 SP;

29 e PZ 14 59 13 SP;
e(S)NE 15 00 25 SP;

29 e Z 22 13 28 SP;

30 e Z 08 11 26 SP;
D=7.2°

USCGS:

H: 08 09 17 ; 31.3 N; 49.4 E;
WESTERN IRAN.
h: 73 Km.
Mag: 4.5(CGS).

30 e PZ 17 12 13 SP;
e pPZ 12 23 SP;
ei(S)N 23 20 LP;
D=93.4°

USCGS:

H: 16 59 00.6; 1.8 S; 138.7 E;
NEAR N. COAST OF WEST NEW GUINEA.
h: 33 Km.
Mag: 5.5(CGS).

30 e Z 22 30 13 SP;

30 i PZ 23 57 31.6 SP;
i SNE 57 33.6 SP;

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1 e PZ 00 54 49 SP;
 e(S)NE 55 48 SP;
 1 i PZ 06 52 22.1 SP;
 i SNE 52 56.0 SP;
 1 eiPZ 07 13 28 C LP;
 i N 17 14 LP;
 D=19.4°

USCGS:

H: 07 09 00.5; 39.7 N; 21.3 E;
 GREECE.
 h: 15 Km.
 Mag: 5.6(CGS), 5 $\frac{1}{4}$ -6(PAS), 5.8-6.2
 (BRK), 5 $\frac{3}{4}$ -6(GOL), 5 $\frac{1}{2}$ (PAL)

1 e PZ 09 54 36 SP;LP;
 e N 58 26 LP;
 ei E 59 05 SP;
 D=19.6°

USCGS:

H: 09 50 06.6; 39.6 N; 21.4 E;
 GREECE.
 h: 19 Km.
 Mag: 4.9(CGS).

2 e PZ 18 11 23 SP;
 D=81.3°

USCGS:

H: 17 59 09.0 ; 2.4N; 126.7 E;
 MOLUCCA PASSAGE.
 h: 39 Km.
 Mag: 4.9(CGS).

2 e PZ 19 33 54 SP;
 D=19.5°

USCGS:

H: 19 29 24 ; 40.0 N; 21.4 E;
 GREECE.
 h: 7 Km.
 Mag: 4.4(CGS).

3 e Z 12 41 34 LP;
 3 eiPZ 18 46 15.4 SP;
 ei Z 46 21.5 SP;
 ei N 50 06 LP;
 D=19.4°

USCGS:

H: 18 41 47.0; 39.7 N; 21.5 E;
 GREECE.
 h: 35 Km.
 Mag: 4.8(CGS).

3 e PZ 22 57 43 SP;
 e SNE 58 07 SP;
 4 e Z 08 37 14 LP;
 e Z 46 38 LP;
 D=112.3°

USCGS:

H: 08 17 32.1; 55.7 S; 27.9 W;
 SOUTH SANDWICH ISLANDS REGION.
 h: 33 Km.
 Mag: 5.8(CGS).

5 e PZ 06 31 06 SP;
 D=19.7°

USCGS:

H: 06 26 37.9; 39.6 N; 21.5 E;
 GREECE.
 h: 55 Km.
 Mag: 4.6(CGS).

5 e Z 15 20 14 LP;
 D=81.0°

USCGS:

H: 15 07 49.5; 59.3 N; 151.4 W;
 KENAI PENINSULA, ALASKA.
 h: 57 Km.
 Mag: 5.4(CGS).

5 i PZ 17 49 33.5 C SP;LP;
 i SNE 58 56 LP;
 D=73.0°

USCGS:

H: 17 38 05.3; 8.0 S; 107.2 E;
 JAVA.
 h: 33 Km.
 Mag: 5.3(CGS).

5 eiPZ 23 21 04 SP;
 D=64.5°

USCGS:

H: 23 10 27 ; 23.1 S; 69.3 E;
 MID-INDIAN RISE.
 h: 23 Km.
 Mag: 4.9(CGS).

6 e PZ 05 39 10 SP;
 e SE 39 33 SP;

5 e PZ 18 52 15 SP;
 e Z 55 48 LP;
 D=19.1°

USCGS:

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(CONT.)

H: 18 48 04.8; 36.4 N; 70.2 E;
HINDU KUSH REGION.
h: 215 Km.
Mag: 4.8(CGS).

8 eiPKPZ 19 04 24.6 (C) SP;
D=143.6°

USCGS:

H: 18 44 56.8; 33.2 S; 178.4 W;
SOUTH OF KERMADEC ISLANDS.
h: 50 Km.
Mag: 5.3(CGS).

8 e Z 21 25 31 SP;
8 e PZ 23 35 03 SP;
D=75.0°

USCGS:

H: 23 23 23 ; 10.4 S; 108.1 E;
SOUTH OF JAVA.
h: 33 Km.
Mag: 5.0(CGS).

9 e PZ 01 11 15 SP;
e SNE 11 32 SP;
9 eiPZ 01 43 14.2 (D) SP;
i SNE 43 33.5 SP;
9 eiPZ 06 26 22.5 C SP;LP;
ei(PcP)Z 26 42 LP;
D=72.4°

USCGS:

H: 06 14 57.1; 44.2 N; 149.0 E;
KURILE ISLANDS.
h: 40 Km.
Mag: 5.3(CGS).

9 e PZ 12 49 06 LP;
eiSN 59 32 LP;
D=84.3°

USCGS:

H: 12 36 36.8; 56.6 N; 152.6 W;
KODIAK ISLAND REGION.
h: 33 Km.
Mag: 5.0(CGS).

9 i PZ 21 42 07 C LP;
epPZ 42 32 LP;
isPZ 42 41 LP;
e Z 43 12 LP;
ei Z 44 08 LP;
i SNE 52 02.5 SP;LP;
eiScSE 52 18.0 SP;
i E 52 25.0 SP;LP;
eisSE 52 47 SP;

D=80.2°

USCGS:

H: 21 30 08.3; 5.2 N; 127.5 E;
PHILIPPINE ISLANDS REGION.
h: 119 Km.
Mag: 5.5(CGS).

10 e E 13 09 15 SP;
10 e N 16 31 35 SP;
10 e Z 16 54 16 LP;
ei NE 17 09 38 LP;
10 e PE 21 56 10 SP;
e(S)E 56 31 SP;
11 e PE 01 26 15 SP;
e(S)NE 26 24 SP;
11 i PZ 14 55 48 C SP;LP;
i Z 55 54.0 SP;LP;
i SNE 59 38 LP;
i Z 59 44 LP;

D=21.4°

USCGS:

H: 14 50 58.8; 39.4 N; 73.8 E;
TADZHIK-SINKIANG BORDER REGION.
h: 21 Km.
Mag: 5.6(CGS).

11 i PKPZ 15 24 05.0 C SP;
e PPZ 25 41 SP;
D=121.5°

USCGS:

H: 15 05 16.8; 20.3 S; 68.5 W;
CHILE-BOLIVIA BORDER REGION.
h: 67 Km.
Mag: 6.1(CGS), 6¼(PAS), 5¼-5½
(GOL), 5.9-6.1(BRK).

11 e PZ 19 15 12 SP;
i SNE 15 19.0 SP;
11 e PZ 19 54 44 SP;
e SNE 54 59 SP;
13 eiPZ 05 31 27 C LP;
i PPPZ 36 17 LP;
eiSN 41 53 LP;

D=84.3°

USCGS:

H: 05 18 55.4; 56.5 N; 152.6 W;
KODIAK ISLAND REGION.
h: 33 Km.
Mag: 5.3(CGS), 4.7-4.9(BRK).

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13 iiPZ 16 48 15.6 C SP;LP;
 38°04' N; 46°19' E;
 TABRIZ, IRAN.
 M.M. III-IV.

14 iiPZ 00 47 24.8 C SP;LP;
 38°04' N; 46°19' E;
 TABRIZ, IRAN.
 M.M. III-IV

14 e PZ 04 20 29 SP;
 eiSNE 24 10 LP;
 D=19.7°

USCGS:

H: 04 16 01.7; 37.7 N; 21.2 E;
 SOUTHERN GREECE.
 h: 66 Km.
 Mag: 4.8(CGS).

14 i PZ 09 05 47.4 SP;
 e SNE 09 45 LP;
 D=22.0°

USCGS:

H: 09 00 54.8; 39.2 N; 73.9 E;
 TADZHIK-SINKIANG BORDER REGION.
 h: 33 Km.
 Mag: 5.0(CGS).

15 e Z 00 25 10 SP;
 15 eiPZ 02 39 12.4 C SP;LP;
 ei Z 40 14.0 SP;
 e PPZ 42 01 LP;
 e Z 43 50 LP;
 i SNE 48 47 LP;
 e(ScS)E 49 17 LP;
 D=74.6°

USCGS:

H: 02 27 36.0; 32.5 N; 141.4 E;
 SOUTH OF HONSHU, JAPAN.
 h: 40 Km.
 Mag: 5.4(CGS).

15 e PZ 08 16 46 LP;
 eiPPZ 17 01 LP;
 i Z 19 49 LP;
 i E 20 02 LP;
 D=16.3°

USCGS:

H: 08 12 57.1; 34.6 N; 26.7 E;
 CRETE.
 h: 33 Km.
 Mag: 4.9(CGS).

15 e PZ 22 33 14 SP;
 e SNE 33 22 SP;

15 e PZ 23 05 23 SP;
 e SNE 05 50 SP;

17 e PZ 08 13 05 SP;
 i SNE 13 32 SP;

17 e PZ 09 32 07 SP;
 eiSNE 32 32 SP;

17 i PZ 17 55 07.0 C SP;LP;
 i Z 55 12.0 SP;LP;
 e NE 58 47 LP;
 i N 59 04 LP;

D=19.5°

USCGS:

H: 17 50 39.6; 19.7 N; 38.7 E;
 RED SEA.
 h: 38 Km.
 Mag: 5.3(CGS).

18 i PZ 06 13 51.1 D SP;

18 eiPZ 11 33 49.3 C SP;LP;
 D=71.2°

USCGS:

H: 11222 31.6; 41.9 N; 144.7 E;
 HOKKAIDO, JAPAN REGION.
 h: 41 Km.
 Mag: 4.9(CGS).

18 e PZ 11 35 40 LP;
 D=19.1°

USCGS:

H: 11 31 20.4; 40.6 N; 70.4 E;
 TADZHIK SSR.
 h: 14 Km.
 Mag: 4.9(CGS).

18 e PZ 19 36 43 SP;
 e(S)NE 37 18 SP;

18 i PZ 23 50 10.3 C SP;LP;
 D=67.5°

USCGS:

H: 23 39 15.2; 31.1 N; 130.7 E;
 KYUSHU, JAPAN.
 h: 43 Km.
 Mag: 5.6(CGS).

19 eiPKPZ 05 28 40.8 SP;
 e pPKPZ 28 52 SP;
 ei Z 29 32.5 SP;

(cont.)

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(cont.)

D=143.7°
USCGS:
 H: 05 09 10.9; 34.9 S; 179.0 W;
 SOUTH OF KERMADEC ISLANDS.
 h: 35 Km.
 Mag: 5.2(CGS).

19 e PZ 10 52 04 SP;
 i SN 52 33.0 SP;
 19 eiPZ 15 57 53 D LP;
 e SNE 16 02 16 LP;

D=24.4°

USCGS:
 H: 15 52 34.2; 14.5 N; 40.3 E;
 ETHIOPIA.
 h: 13 Km.
 Mag: 5.1(CGS).

20 e PZ 03 03 44 SP;
 e SNE 14 07 LP;

D=85.3°

USCGS:
 H: 02 51 09.4; 19.8 N; 146.0 E;
 MARIANA ISLANDS REGION.
 h: 42 Km.
 Mag: 5.5(CGS).

20 e PE 07 55 27 SP;
 20 eiPZ 08 52 04.0 SP;

D=20.3°

USCGS:
 H: 08 47 19.8; 39.2 N; 72.8 E;
 KIRGIZ SSR.
 h: 33 Km.
 Mag: 5.1(CGS).

20 i PZ 13 29 10 SP;
 i SNE 29 25 SP;
 20 e Z 21 51 35 SP;

D=9.7°

USCGS:
 H: 21 48 55 ; 29.7 N; 52.2 E;
 SOUTHERN IRAN.
 h: 42 Km.
 Mag: 4.8(CGS).

21 iiPZ 18 55 27.6 C SP;
 i PcPZ 56 00.5 SP;
 i pPZ 56 09.2 SP;
 iiSNE 19 03 45.0 SP;LP;
 i E 04 23.5 SP;

i (ScS NE 04 59 LP;
 (SKS NE 04 59 LP;
 eiPKPPKPZ 24 18.0 SP;
 D=63.9°

USCGS:
 H: 18 45 11.7; 1.0 S; 101.5 E;
 SOUTHERN SUMATRA.
 h: 173 Km.
 Mag: 6.3(CGS), 6.4(PAS), 6.1-6.3
 (BRK).

21 e PZ 23 00 37 SP;
 e SNE 01 33 SP;
 21 e PZ 23 30 35 SP;
 eiSNE 31 34 SP;
 23 e PZ 01 33 51 SP;
 23 i PZ 02 04 10.0 C SP;
 e SN 13 36 LP;

D=73.3°

USCGS:
 H: 01 52 39.1; 44.6 N; 150.5 E;
 KURILE ISLANDS REGION.
 h: 22 Km.
 Mag: 4.9(CGS).

23 e Z 06 32 07 SP;
 23 e PZ 07 21 47 SP;
 i SNE 21 53.5 SP;
 23 eiPZ 08 45 14.5 SP;
 eipPZ 45 29.3 SP;

D=65.5°

USCGS:
 H: 08 34 35.8; 3.1 S; 101.5 E;
 SOUTHERN SUMATRA.
 h: 59 Km.
 Mag: 5.3(CGS).

23 e PZ 14 42 47 SP;
 eiSNE 43 08 SP;
 23 e Z 17 02 13 SP;
 D=9.0°

USCGS:
 H: 16 59 38 ; 31.0 N; 50.7 E;
 IRAN.
 h: 33 Km.
 23 e Z 18 49 40 SP;
 23 e PKPZ 19 36 07 SP;
 D=112.6°

(cont.)

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(cont.)

USCGS:

H: 19 17 47.5; 56.2 S; 27.3 W;
SOUTH SANDWICH ISLANDS REGION.
h: 130 Km.
Mag: 5.9(CGS).

23 i PZ 20 37 08.9 SP;
i SZE 37 23.1 SP;

25 e PZ 19 02 43 SP;

D=67.0°

USCGS:

H: 18 52 17.1; 46.0 N; 143.0 E;
HOKKAIDO, JAPAN REGION.
h: 325 Km.
Mag: 4.8(CGS).

26 e Z 21 30 06 SP;

26 i PZ 22 47 18.6 C SP;

27 i PZ 00 30 07.6 C SP;
eiSNE 30 20.5 SP;

27 e PZ 01 48 20 SP;

D=26.4°

USCGS:

H: 01 42 47.1; 39.9 N; 77.3 E;
SOUTHERN SINKIANG PROV, CHINA.
h: 33 Km.
Mag: 5.4(CGS).

27 e PZ 02 01 35 SP;
i Z 01 37.2 SP;

D=37.0°

USCGS:

H: 01 54 26.0; 35.8 N; 0.3 W;
ALGERIA.
h: 28 Km.
Mag: 4.7(CGS).

27 e PZ 02 32 30 SP;
e SNE 32 41 SP;

27 e PZ 10 24 02 SP;
i Z 24 07.2 SP;
e(S)NE 24 53 SP;

27 e PZ 12 47 28 SP;
e Z 47 38 SP;

D=2.2°

USCGS:

H: 12 42 54.1; 36.2 N; 71.5 E;
AFGHANISTAN-USSR BORDER REGION.
h: 109 Km.
Mag: 4.9(CGS).

27 eiPZ 17 35 09.1 C SP;
e PPZ 38 11 SP;
i Z 39 11.0 SP;
e SZNE 45 15 SP;

D=80.3°

USCGS:

H: 17 22 58.7; 51.9 N; 176.1 E;
RAT ISLANDS, ALEUTIAN ISLANDS.
h: 34 Km.
Mag: 5.8(CGS), 6(PAS), 5.8(BRK),
6-6¼(PAL).

27 e PZ 19 11 13 SP;
ei E 15 43.5 SP;

D=25.3°

USCGS:

H: 19 05 48.5; 36.1 N; 77.8 E;
KASHMIR-SINKIANG BORDER REGION.
h: 35 Km.
Mag: 5.4(CGS).

28 e PZ 01 44 03 SP;
i Z 44 05.2 SP;

D=79.9°

USCGS:

H: 01 31 56.7; 52.1 N; 175.0 E;
RAT ISLANDS, ALEUTIAN ISLANDS.
h: 45 Km.
Mag: 5.2(CGS).

28 i PZ 04 13 31.4 SP;
i Z 13 39.0 SP;

UPPSALA.

Kazakh SSR.
Origin time = 04 08 00.
Magn. = 6.2 (Up, Ki).
Underground explosion.

29 e Z 11 44 11 SP;

29 e PZ 19 07 07 SP;

29 e PZ 19 21 05 SP;

D=6.4°

USCGS:

H: 19 19 23 ; 40.2 N; 38.5 E;
TURKEY.
h: 36 Km.

29 eiPZ 21 12 55.9 C SP;
e SE 22 05 SP; LP;
ei (SKS E 22 50 LP;
ei (ScS

(cont.)

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(cont.)

D=71.2⁵USCGS:H: 21 01 44.3; 43.3 N; 145.7 E;
HOKKAIDO, JAPAN REGION.

h: 88 Km.

Mag: 5.3(CGS).

29	e PZ	22 52 24	SP;
	e SNE	52 31	SP;
30	e PZ	19 01 06	SP;

D=20.5°

USCGS:H: 19 56 29 ; 31.7 N; 70.1 E;
WEST PAKISTAN.

h: 36 Km.

Mag: 4.6(CGS).

30	e Z	20 34 46	SP;
30	ei Z	23 57 08.0	C SP;

D=14.7°

USCGS:H: 23 53 30.9; 34.2 N; 28.8 E;
EASTERN MEDITERRANEAN SEA.

h: 33 Km.

Mag: 4.5(CGS).

31	e Z	00 28 25	SP;
31	e Z	03 10 26	LP;

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1 e Z 02 54 52 SP;
 1 e Z 03 48 48 SP;
 eiSNE 59 08.0 SP;LP;
 D=84.6°

USCGS:

H: 03 36 19.0; 53.7 N; 165.6 W;
 FOX ISLANDS, ALEUTION ISLANDS.
 h: 60 Km.
 Mag: 5.7(CGS), 5-5.4(BRK), 5-5/4
 (PAL).

1 e PZ 08 05 23 SP;
 i SNE 03 47.7 SP;
 1 eiPZ 10 42 40 SP;LP;
 e SZNE 45 10 SP;LP;
 D=13.7°

USCGS:

H: 10 39 22.8; 36.9 N; 29.2 E;
 TURKEY.
 h: 36 Km.
 Mag: 5.0(CGS).

1 e Z 21 06 20 SP;LP;
 e PPZ 06 42 LP;
 e Z 16 02 LP;
 D=108.9°

USCGS:

H: 20 47 45.6; 6.8 S; 155.0 E;
 SOLOMON ISLANDS.
 h: 31 Km.
 Mag: 5.6(CGS).

2 e PZ 05 12 23 SP;
 i SNE 13 31.3 SP;
 i E 13 47.8 SP;
 D=5.3°

USCGS:

H: 05 10 54.9; 43.6 N; 47.5 E;
 EASTERN CAUCASUS.
 h: 28 Km.
 Mag: 5.0(CGS).

2 eiPZ 21 53 28 SP;
 i SNE 33 49.2 SP;
 3 ei Z 09 21 29 SP;
 eiPPZ 24 38 SP;
 (S
 e(SKS E 31 40 LP;
 D=82.8°

USCGS:

H: 09 08 56.4; 58.4 N; 151.2 E;

KODIAK ISLANDS REGION.

h: 32 Km.
 Mag: 5.5(CGS), 4.8-5.2(BRK),
 5-5/4(PAL).

3 i PZ 22 43 16.6 D SP;
 i SNE 43 27.5 SP;
 4 i PZ 12 39 58.2 D SP;
 i SNE 40 30.5 SP;
 4 i PZ 12 52 47.7 D SP;
 i SNE 53 10.0 SP;
 4 ei Z 20 39 45.6 SP;
 5 ePKPZ 01 40 46 SP;
 e E 43 28 LP;
 D=141.2°

USCGS:

H: 01 21 20.2; 21.3 S; 174.5 W;
 TONGA ISLANDS.
 h: 33 Km.
 Mag: 5.2(CGS), 5.0-5.2(BRK).

5 eiPZ 05 47 39.5 SP;
 i SNE 48 17.0 SP;
 7 e E 15 59 04 SP;
 e Z 16 03 32 LP;
 D=16.6°

USCGS:

H: 15 54 26 ; 34.2 N; 26.4 E;
 CRETE.
 h: 9 Km.
 Mag: 4.7(CGS).

7 eiPZ 17 08 29.6 SP;
 ei Z 08 51.0 SP;
 D=37.8°

USCGS:

H: 17 01 12.9; 49.4 N; 97.2 E;
 USSR-MONGOLIA BORDER REGION.
 h: 33 Km.
 Mag: 5.0(CGS).

7 e PZ 18 28 07 SP;
 D=74.0°

USCGS:

H: 18 16 31.4; 47.5 N; 155.4 E;
 KURILE ISLANDS REGION.
 h: 29 Km.
 Mag: 5.2(CGS).

7 e PZ 22 38 46 SP;
 D=14.8°

(cont.)

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(cont.)

USCGS:

H: 22 35 16 ; 26.9 N; 58.0 E;
SOUTHERN IRAN.
h: 41 Km.
Mag: 4.4(CGS).

8 eiPZ 07 13 38.5 (D) SP;
D=78.2°

USCGS:

H: 07 01 54.6; 6.1 N; 125.8 E;
MINDANAO, PHILIPPINE ISLANDS.
h: 158 Km.
Mag: 5.4(CGS).

8 i PZ 11 27 23.6 SP;
i SNE 27 28.6 SP;

8 i PZ 12 14 01.7 C SP;LP;
D=79.9°

USCGS:

H: 12 01 57.3; 4.6 N; 127.1 E;
TALAUD ISLANDS.
h: 73 Km.
Mag: 5.3(CGS).

8 eiPKPZ 13 41 13.5 SP;
e(pPKP)Z 41 43 SP;
e(SK)Z 44 28 SP;LP;
e Z 55 12 LP;
D=129.3°

USCGS:

H: 13 22 13.7; 21.4 S; 170.3 E;
LOYALTY ISLANDS REGION.
h: 90 Km.
Mag: 5.3(CGS).

8 e PZ 14 03 22 SP;
D=79.4°

USCGS:

H: 13 51 23.3; 5.3 N; 127.0 E;
PHILIPPINE ISLANDS REGION.
h: 104 Km.
Mag: 5.0(CGS).

8 e Z 17 59 11 SP;

9 i PZ 06 20 06.2 SP;
i SNE 20 08.0 SP;

9 e PZ 13 30 30 SP;
e SNE 30 37 SP;

9 e PZ 19 36 05 SP;
D=79.9°

USCGS:

H: 19 24 06.8; 2.8 N; 125.7 E;
TALAUD ISLANDS.
h: 119 Km.
Mag: 5.0(CGS).

10 e PE 03 39 27 SP;
10 e PZ 05 56 54 LP;
e(S)NE 06 06 01 LP;
D=67.9°

USCGS:

H: 05 45 53 ; 3.6 S; 12.1 W;
NORTH OF ASCENSION ISLAND.
h: 12 Km.
Mag: 5.1(CGS).

10 i Z 14 19 49.0 C SP;LP;
ei Z 28 18.0 SP;
D=137.2°

USCGS:

H: 13 58 53.3; 19.3 S; 178.2 W;
FIJI ISLANDS REGION.
h: 596 Km.
Mag: 5.1(CGS).

10 e PZ 18 16 59 SP;
D=82.3°

USCGS:

H: 18 04 39.6; 16.4 N; 46.6 W;
NORTH ATLANTIC RIDGE.
h: 33 Km.
Mag: 4.9(CGS).

11 eiPZ 05 39 21.6 SP;LP;
e E 43 04 LP;
D=18.6°

USCGS:

H: 05 35 04 ; 38.1 N; 22.9 E;
GREECE.
h: 37 Km.
Mag: 4.4(CGS).

11 e PZ 13 41 11 SP;
i SNE 41 28 SP;

12 e PZ 00 17 27 SP;
D=82.2°

USCGS:

H: 00 05 06.5; 16.6 N; 46.6 W;
NORTH ATLANTIC RIDGE.
h: 33 Km.
Mag: 5.1(CGS).

12 eiPZ 01 33 26 SP;
D=18.6°

USCGS:

H: 01 29 06.9; 38.2 N; 22.8 E;
GREECE.
h: 27 Km.
Mag: 4.5(CGS).

12 i PZ 02 55 23.8 D SP;LP;
i N 58 58 LP;
i ZNE 59 04 LP;
D=18.7°

USCGS:

H: 02 51 05.5; 38.2 N; 22.7 E;
GREECE.
h: 33 Km.
Mag: 4.8(CGS).

12 eiPZ 03 18 15.2 SP;
D=64.6°

USCGS:

H: 03 07 38.8; 3.0 S; 100.6 E;
SOUTHERN SUMATRA.
h: 33 Km.
Mag: 5.1(CGS).

12 eiPZ 05 33 34 C SP;LP;
ei(S) E 43 56 LP;
ei(S) E 49 35 LP;
D=83.2°

USCGS:

H: 05 21 11; 44.9 S; 35.7 E;
PRINCE EDWARD ISLAND REGION.
h: 36 Km.
Mag: 5.6(CGS).

12 e NE 06 44 10 SP;

12 e PZ 10 52 43 SP;
e(S)NE 53 37 SP;

12 e PZ 13 03 06 SP;
e(S)NE 03 59 SP;

12 e PZ 14 36 48 SP;
e(S)NE 37 05 SP;

12 e PZ 15 01 31 SP;
ei(S)E 02 25 SP;

12 e PZ 18 17 14 SP;
i Z 17 57.3 SP;
i E 20 25.2 SP;

D=19.5°

USCGS:

H: 18 12 47.4; 39.2 N; 21.4 E;
GREECE.
h: 55 Km.
Mag: 4.5(CGS).

12 e PZ 21 28 25 SP;LP;
i(S)N 37 05 LP;
D=64.6°

USCGS:

H: 21 17 48.9; 3.1 S; 100.6 E;
SOUTHERN SUMATRA.
h: 33 Km.
Mag: 5.4(CGS).

12 e PZ 22 43 08 SP;
e SNE 43 41 SP;

12 i PZ 23 34 14.3 C SP;LP;
eiSZNE 43 40 LP;
i PPSNE 44 32 LP;
D=73.5°

USCGS:

H: 23 22 45.3; 47.4 N; 154.3 E;
KURILE ISLANDS.
h: 56 Km.
Mag: 5.4(CGS), 5.5-5.7(BRK).

12 e PZ 23 44 33 SP;LP;
D=76.6°

USCGS:

H: 23 32 46.3; 9.1 N; 126.4 E;
MINDANAO, PHILIPPINE ISLANDS.
h: 61 Km.
Mag: 5.2(CGS).

13 eiPZ 01 20 42.5 SP;
eipPZ 20 49.4 SP;
e Z 21 07 SP;

D=64.6°

USCGS:

H: 01 10 06; 3.0 S; 100.6 E;
SOUTHERN SUMATRA.
h: 33 Km.
Mag: 5.0(CGS).

13 e PZ 03 38 19 SP;
e(S)E 38 28 SP;

13 e PZ 10 25 09 SP;
e(S)NE 26 00 SP;

13 e Z 16 19 58 SP;

13 e Z 21 13 35 SP;
e Z 15 26 SP;

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- 13 eiPZ 22 40 58.0 SP;
D=81.0°
- USCGS:
H: 22 28 47 ; 2.4 N; 126.8 E;
MOLUCCA PASSAGE.
h: 63 Km.
Mag: 4.9(CGS).
- 13 e PZ 23 10 50 LP;
e Z 10 58.0 SP;
i Z 11 04.5 SP;
i Z 11 20.2 SP;
i ZNE 11 51.0 SP;
D=4.0°
- USCGS:
H: 23 09 52 ; 42.0 N; 45.3 E;
EASTERN CAUCASUS.
h: 33 Km.
Mag: 4.6(CGS).
- 14 e PZ 04 06 30 SP;
eiSNE 06 36.5 SP;
- 14 e Z 05 26 04 SP;
e Z 26 16 SP;
e PPZ 29 32 LP;
D=138.1°
- USCGS:
H: 05 06 16.3; 15.2 S; 173.6 W;
TONGA ISLANDS.
h: 11 Km.
Mag: 5.9(CGS), 5.6-5.8(BRK).
- 14 eiPZ 08 17 26 LP;
D=73.5°
- USCGS:
H: 08 05 58.6; 47.5 N; 154.4 E;
KURILE ISLANDS.
h: 55 Km.
Mag: 5.3(CGS), 4.4-4.8(BRK).
- 14 i PZ 08 24 32.0 D SP; LP;
D=73.5°
- USCGS:
H: 08 13 02.2; 47.5 N; 154.5 E;
KURILE ISLANDS.
h: 53 Km.
Mag: 5.4(CGS).
- 15 e PZ 14 58(54) SP;
D=11.9°
- USCGS:
- H: 14 56 05.6; 34.1 N; 32.5 E;
CYPRUS.
h: 62 Km.
Mag: 5.0(CGS).
- 15 e Z 18 54 17 SP;
ei Z 54 25.0 SP;
- 16 eiPZ 22 45 13.7 SP;
e(S)NE 46 04 SP;
- 17 e PZ 05 14 48 LP;
ei Z 15 20 LP;
e Z 18 16 LP;
ei Z 19 16 LP;
i PPZ 19 32.0 SP; LP;
i PPPZ 20 05 LP;
i SKSNE 25 02 LP;
eiSKKSNE 26 08 LP;
i SPZNE 28 52 LP;
D=113.5°
- USCGS:
H: 05 00 11.8; 58.3 S; 26.6 W;
SOUTH SANDWICH ISLANDS REGION.
h: 140 Km.
Mag: 6.1(CGS), 6¼(PAS), 6.3-6.5
(BRK), 6¼-6½(GOL).
- 17 e PZ 09 10 37 SP;
e(S)NE 11 27 SP;
- 17 e PZ 09 57(10) SP;
i Z 57 16.1 SP;
i Z 57 20.3 SP;
i E 57 57.5 SP;
i NE 58 16.5 SP;
i E 58 56.0 SP;
D=3.8°
- USCGS:
H: 09 56 10 ; 41.7 N; 45.3 E;
EASTERN CAUCASUS.
h: 33 Km.
Mag: 4.4(CGS).
- 17 e PZ 21 22 47 SP;
e(S)E 23 28 SP;
- 17 e PZ 22 00 46 SP;
- 18 e Z 00 52 12 SP;
- 18 e PZ 05 32 10 LP;
e(S)ZN 34 50 LP;
D=13.6°
- USCGS:
H: 05 28 54.1; 36.8 N; 29.5 E;

(cont.)

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(cont.)

TURKEY.

h: 43 Km.

Mag: 4.8(CGS).

 18 e PZ 16 43(42) SP;
 D=20.2°

USCGS:

 H: 16 39 11.7; 37.4 N; 71.9 E;
 AFGHANISTAN-USSR BORDER REGION.

h: 83 Km.

Mag: 5.0(CGS).

 18 i PZ 17 28 19.2 D SP;
 i SNE 28 38.8 SP;
 18 i Z 18 47 57.1 SP;
 19 e PZ 00 17 04 SP;
 19 e PZ 07 09 45 SP;
 i SNE 10 10.2 SP;
 19 i PZ 14 39 40 C LP;
 i N 42 22.5 SP;
 ei N 43 14 LP;
 D=18.7°

USCGS:

 H: 14 35 20.2; 20.6 N; 38.4 E;
 RED SEA.

h: 35 Km.

Mag: 4.5(CGS).

 19 e PZ 16 53 11 SP;
 e(S)NE 54 10 SP;
 19 i PZ 17 20 21.0 C SP;LP;
 eiPPZ 23 30 LP;
 e Z 27 22 LP;
 eiSNE 30 48 LP;
 i ScSNE 31 00 LP;
 e(SS)N 36 36 LP;
 D=85.1°

USCGS:

 H: 17 07 45.4; 52.7 N; 166.9 W;
 FOX ISLANDS, ALEUTIAN ISLANDS.

h: 33 Km.

 Mag: 5.7(CGS), 6(PAS), 6.3-6.5(BRK),
 5½-6(PAL), 5½-6(GOL).

 20 i PZ 07 51 23.4 C SP;LP;
 ei Z 53 20.0 SP;
 e PPZ 54 32 LP;
 i SN 08 01 50 LP;
 i(ScS)NE 02 03 LP;
 eiPSNE 02 50 LP;
 D=85.0°

USCGS:

 H: 07 38 44.9; 52.8 N; 167.1 W;
 FOX ISLANDS, ALEUTIAN ISLANDS.

h: 11 Km.

 Mag: 5.2(CGS), 4.5-5.0(BRK), 5.5
 (PAL).

 21 e PNE 06 59 11 SP;
 21 e Z 07 19 42 LP;
 21 e PZ 11 43 40 SP;
 21 e PZ 15 56 48 SP;LP;
 ei(PPP)Z 16 01 16 LP;
 eiSNE 06 05 LP;
 i NE 06 09 LP;
 D=71.9°

USCGS:

 H: 15 45 28.3; 12.7 N; 123.1 E;
 LUZON, PHILIPPINES ISLANDS.

h: 56 Km.

Mag: 5.2(CGS).

 21 eiPZ 18 16 43.0 D SP;LP;
 D=76.9°

USCGS:

 H: 18 04 49.5; 64.8 N; 147.4 W;
 CENTRAL ALASKA.

h: 17 Km.

 Mag: 5.4(CGS), 5½(PAS), 4.5-5.5
 (BRK), 6.0(GOL), 5.9(CGS SURFACE
 WAVE.).

 21 eiPZ 18 24 58.0 D SP;LP;
 i PPZ 27 54 LP;
 eiSN 34 45 LP;
 eiSPZN 35 22 LP;
 D=76.9°

USCGS:

 H: 18 13 02.9; 64.8 N; 147.4 W;
 CENTRAL ALASKA.

h: 17 Km.

 Mag: 5.6(CGS), 6.0(PAS), 5.2-5.6
 (BRK), 6¼-6½(GOL), 6.1(CGS SURFACE
 WAVE).

 21 eiPZ 18 36 39 LP;
 D=76.9°

USCGS:

 H: 18 24 45.7; 64.8 N; 147.4 W;
 CENTRAL ALASKA.

h: 17 Km.

 Mag: 5.4(CGS), 5½(PAS), 4.7-5.1(BRK)
 5½(GOL), 5.8(CGS SURFACE WAVE).

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21 i PKPZ 19 28 45.5 SP;
 ei Z 28 54.5 SP;
 i pPKPZ 30 54.6 SP;
 i PPZ 31 40.2 C SP;LP;
 i Z 31 48.8 SP;
 i Z 32 09.5 SP;

D=138.0°

USCGS:

H: 19 10 31.1; 23.5 S; 180.0 E;
 SOUTH OF FIJI ISLANDS.

h: 546 Km.

Mag: 5.0(CGS).

21 i PKPZ 20 28 29.5 SP;
 i PPZ 30 28.2 SP;
 e NE 40 40 LP;

D=125.6°

USCGS:

H: 20 09 28.4; 25.2 S; 70.5 W;
 NEAR COAST OF NORTH OF CHILE.

h: 23 Km.

Mag: 5.7(CGS), MLH=5.7(ST).

22 i PZ 02 23 22.0 SP;
 23 i iPZ 05 17 53.0 C SP;LP;
 e PPZ 21 23 LP;
 i SKSNE 28 13.0 SP;LP;
 i SE 28 32 LP;
 i ScSN 28 34 LP;
 i sSN 29 14 LP;

D=89.0°

USCGS:

H: 05 05 04.8; 5.8 S; 130.5 E;
 BANDA SEA. h: 85 Km.

Mag: 5.9(CGS).

23 e PZ 10 09 26 SP;LP;
 e SNE 11 16 LP;
 ei(SS)Z 11 32 LP;

D=10.2°

USCGS:

H: 10 06 54.1; 40.8 N; 33.6 E;
 TURKEY.

h: 14 Km.

Mag: 4.8(CGS).

23 ei Z 12 10 05 C LP;
 23 i PZ 13 16 03.2 C SP;

D=3.4°

USCGS:

H: 13 15 10 ; 35.7 N; 49.5 E;

WESTERN IRAN.

h: 52 Km.

Mag: 4.4(CGS).

23 ei(PP)Z 14 59 30.5 (C) SP;
 D=137.9°

USCGS:

H: 14 38 35.7; 21.3 S; 179.3 W;
 FIJI ISLANDS REGION.

h: 605 Km.

Mag: 5.1(CGS).

23 e PKPZ 21 49 12 SP;LP;
 D=126.1°

USCGS:

H: 21 30 11.5; 19.2 S; 167.7 E;
 NEW HEBRIDES ISLANDS REGION.

h: 37 Km.

Mag: 5.3(CGS), 4.7-5.1(BRK).

24 e PZ 01 22 39 SP;
 i(S)NE 22 58 SP;
 24 e PZ 19 28 11 SP;
 24 eiPZ 21 13 07.6 D SP;LP;
 eiPcPZ 13 11.0 SP;
 ei Z 13 20 LP;
 ei Z 13 26.0 SP;
 e Z 14 04 LP;
 eiSE 23 39 LP;
 i ScSNE 23 48 LP;
 e(PS)E 24 40 LP;

D=86.5°

USCGS:

H: 21 00 23.9; 12.5 N; 141.6 E;
 SOUTH OF MARIANA ISLANDS.

h: 18 Km.

Mag: 5.5(CGS), 5.5-6.0(BRK).

24 e PZ 21 15 12 SP;
 25 e PZ 23 13 38 SP;
 i SE 14 03.3 SP;
 25 eiPZ 23 30 46.0 (D) SP;LP;
 e PcPZ 30 50 SP;
 eipPZ 30 56.0 SP;
 eisPZ 30 59 LP;
 e Z 31 21 SP;LP;
 e SKSN 41 10 LP;
 eiSN 41 21 LP;
 e ScSE 41 34 LP;

D=86.7°

USCGS:

(cont.)

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(cont.)

H: 23 18 04.3; 12.4 N; 141.8 E;
 SOUTH OF MARIANA ISLANDS.
 h: 42 Km.
 Mag: 5.6(CGS), 6.3(BRK).

26 e PZ 15 47 42 SP;
 27 i PZ 13 23 58.5 SP;
 e(S)NE 24 49 SP;
 28 e PZ 01 21 30 LP;
 D=72.6°

USCGS:

H: 01 10 03.9; 46.0 N; 151.5 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 5.4(CGS).

28 e PPZ 14 56 04 LP;
 i Z 56 52 LP;
 D=135.5°

USCGS:

H: 14 34 04.5; 47.0 S; 165.8 E;
 OFF W. COAST OF S. ISLANDS, N.Z.
 h: 37 Km.
 Mag: 5.6(CGS).

29 i PZ 03 02 32.2 SP;
 29 eiPZ 08 23 53.0 SP;
 D=4.1°

USCGS:

H: 08 22 47.9; 41.6 N; 44.0 E;
 WESTERN CAUCASUS.
 h: 25 Km.
 Mag: 4.9(CGS).

29 e PZ 08 34 16 SP;
 29 e PE 09 10 14 SP;
 29 i PZ 16 48 56.7 C SP; LP;
 i pPZ 49 28 LP;
 i SN 59 29 LP;
 i N 17 00 32 LP;
 D=88.4°

USCGS:

H: 16 36 15.7; 7.2 S; 128.6 E;
 BANDA SEA.
 h: 121 Km.
 Mag: 5.4(CGS).

30 e PZ 03 26 37 SP;
 e(S)NE 27 07 SP;
 30 e PZ 10 40 26 SP;

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1 i PZ 07 39 16.2 C SP;LP;
 i sPZ 39 29.0 SP;
 eiSN 47 34 LP;
 (ScS
 e (SKS N 49 03 LP;
 e(sSS)N 52 00 LP;
 ei(sSSS)N 54 43 LP;
 D=61.8°

USCGS:

H: 07 28 57.6; 0.8 S; 98.7 E;
 SOUTHERN SUMATRA.
 h: 26 Km.
 Mag: 5.5(CGS).

1 e PZ 15 45(18) SP;
 i ZN 46 42 LP;
 D=6.0°

USCGS:

H: 15 43 33 ; 32.5 N; 48.9 E;
 WESTERN IRAN.
 h: 38 Km.

1 e PZ 20 10 04 SP;
 1 i PZ 23 22 45 C LP;
 i Z 23 20.0 SP;
 e Z 24 23 LP;
 i Z 25 24.0 SP;
 i PPZ 26 04.0 SP;LP;
 i pPPZ 26 12.5 SP;
 i SN 33 08.0 SP;LP;
 i SSE 38 54 LP;
 D=85.5°

USCGS:

H: 23 10 07.2; 54.4 N; 158.0 W;
 SOUTH OF ALASKA.
 h: 33 Km.
 Mag: 6.2(CGS), 6¼(PAS), 6.3-6.5
 (BRK), 6½-6¾(GOL).

2 i PZ 07 12 57 C LP;
 i pPZ 13 09 LP;
 i Z 15 17 LP;
 eiSNE 20 10 LP;
 i NE 20 58 LP;
 D=51.7°

USCGS:

H: 07 03 52.9; 8.7 N; 93.8 E;
 NICOBAR ISLANDS REGION.
 h: 33 Km.
 Mag: 5.7(CGS).

2 e PZ 07 49 50 SP;
 D=74.2°

USCGS:

H: 07 38 15.0; 33.0 N; 141.6 E;
 OFF EAST COAST OF HUNSHU, JAPAN.
 h: 39 Km.
 Mag: 5.0(CGS).

3 e Z 23 29 36 SP;
 4 eiPZ 14 17 33.5 SP;
 i Z 17 46.3 SP;
 4 eiPKPZ 14 36 07 C LP;
 eiPPZ 38 32 LP;
 e SKPZ 39 30 LP;
 i (PKS)E 39 38 LP;
 D=133.3°

USCGS:

H: 14 16 51.6; 38.1 S; 73.4 W;
 NEAR COAST OF CENTRAL CHILE.
 h: 28 Km.
 Mag: 5.4(CGS), 5¼(PAS), 6.4-6.6
 (BRK).

4 e PZ 21 32 35 SP;
 i(S)N 33 35 SP;
 4 i PZ 23 53 04.5 C SP;LP;
 i pPZ 53 42 LP;
 i sPZ 54 00 LP;
 i Z 54 20 LP;
 i Z 55 35 LP;
 e PPZ 55 43 LP;
 5 i SN 00 01 52 LP;
 e (ScS N 02 45 LP;
 (SKS
 D=69.1°

USCGS:

H: 23 42 13.7; 43.2 N; 142.5 E;
 HOKKAIDO, JAPAN REGION.
 h: 160 Km.
 Mag: 5.6(CGS), 5.4-5.8(BRK).

5 e PZ 00 57 43 SP;
 i (pP)Z 57 51.2 SP;
 i (SS)N 01 41 LP;
 D=19.9°

USCGS:

H: 00 53 14.2 ; 36.8 N; 21.3 E;
 SOUTHERN GREECE.
 h: 22 Km.
 Mag: 4.8(CGS).

5 e PZ 01 46 37 SP;
 e(S)NE 47 22 SP;
 5 e Z 21 20 23 SP;

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6 e PZ 00 31 18 SP;
 e(S)ZNE 31 34 SP;
 6 iiPZ 13 55 01.0 C SP;LP;
 i Z 55 10 LP;
 i(PP)Z 58 13 LP;
 ei Z 58 36 LP;
 i (S)ZN 14 05 33 LP;
 i Z 06 32 LP;
 D=84.7°

USCGS:

H: 13 42 22.5; 52.6 N; 168.2 W;
 FOX ISLANDS, ALEUTIAN ISLANDS.
 h: 14 Km.
 Mag: 5.9(CGS), 6¼-6½(PAS), 5.8-6.0
 (BRK), 5¾(GOL), 6-6¼(PAL).

6 e Z 17 14 47 SP;
 6 eiPZ 19 04 02 SP;LP;
 e Z 04 16 LP;
 e PPZ 04 38 SP;LP;
 ei(S)N 08 28 LP;
 D=25.1°

USCGS:

H: 18 58 39.7; 13.4 N; 50.8 E;
 EASTERN GULF OF ADEN.
 h: 44 Km.
 Mag: 4.9(CGS).

6 e PZ 19 32 03 SP;
 D=81.0°

USCGS:

H: 19 19 48.4; 8.1 N; 38.5 W;
 CENTRAL MID-ATLANTIC RIDGE.
 h: 33 Km.
 Mag: 4.9(CGS),

7 e PZ 01 15 22 SP;LP;
 e Z 15 41 SP;LP;
 e Z 19 46 LP;
 D=25.1°

USCGS:

H: 01 09 59.0; 13.5 N; 50.8 E;
 EASTERN GULF OF ADEN.
 h: 32 Km.
 Mag: 4.8(CGS).

7 e PZ 01 27 15 SP;
 7 e PZ 11 05(42) SP;
 7 i PZ 13 40 10.9 C SP;LP;
 i PcPZ 40 22.2 SP;
 D=76.7°

USCGS:

H: 13 28 39.1; 8.7 N; 126.1 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 195 Km.
 Mag: 5.5(CGS).

7 e Z 23 11 33 SP;
 8 iiPKPZ 01 17 38.8 C SP;LP;
 e Z 17 53 SP;
 i Z 18 21.0 SP;
 e Z 18 33 SP;
 e PPZ 19 26 SP;
 D=123.8°

USCGS:

H: 00 58 54.7; 15.4 S; 167.5 E;
 NEW HEBRIDES ISLANDS.
 h: 137 Km.
 Mag: 5.2(CGS), 5.0-5.4(BRS).

8 e PZ 19 44 28 SP;
 10 e PZ 00 57 13 SP;
 i (S)E 57 58.2 SP;
 10 i PZ 12 12 19.0 D SP;LP;
 i Z 14 20.5 SP;LP;
 i Z 16 58 LP;
 i SNE 21 12 LP;
 i SKSNE 21 34 LP;
 D=75.7°

USCGS:

H: 12 01 31.5; 5.9 S; 113.1 E;
 JAVA SEA.
 h: 591 Km.
 Mag: 5.4(CGS).

10 e PZ 19 30 11 SP;
 ei(SKS)N 40 12 LP;
 ei(ScS)N 40 26 LP;
 D=79.8°

USCGS:

H: 19 18 14.7; 4.8 N; 127.1 E;
 TALAUD ISLANDS.
 h: 118 Km.
 Mag: 5.2(CGS).

10 e PZ 21 44 15 SP;
 i (S)N 44 48 SP;
 11 i PZ 01 26 14.6 C SP;
 11 e PZ 02 28 10 SP;
 11 e PZ 05 14(18) SP;
 i SNE 14 30 SP;

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11 i PZ 18 24 09.5 SP;
 i SNE 24 33.2 SP;
 12 e Z 20 31 18 SP;
 12 e Z 21 19 50 SP;LP;
 e Z 22 27 LP;
 ei Z 27 34 LP;
 ei ZNE 29 46 LP;

D=115.7°

USCGS:

H: 21 00 20.9; 5.6 N; 82.6 W;
 SOUTH OF PANAMA.
 h: 33 Km.
 Mag: 6½(PAS).

13 eiPZ 02 17 28 D LP;
 i Z 17 32.0 SP;
 ei Z 18 05.0 SP;

D=36.0°

USCGS:

H: 02 10 20.0; 35.5 N; 0.1 W;
 ALGERIA.
 h: 13 Km.
 Mag: 5.0(CGS).

14 e PZ 03 15 58 SP;LP;
 e SSN 19 56 LP;

D=19.3°

USCGS:

H: 03 11 28.2; 19.8 N; 38.9 E;
 RED SEA.
 h: 33 Km.
 Mag: 4.7(CGS).

14 i PZ 11 47 22.1 C SP;

D=3.0°

UPPSALA : IRAN-IRAQ h:60 Km.
 B.C.I.S.: H: 11 46.37 ; 35.0 N; 46.0E;

14 e PZ 12 10 26 SP;

14 eiPZ 18 45 35.1 SP;

D=57.5°

USCGS:

H: 18 35 46.7; 16.4 S; 66.8 E;
 MID-INDIAN RISE.
 h: 33 Km.
 Mag: 5.2(CGS).

15 e PE 08 02 20 SP;

15 e PZ 09 30 10 SP;

15 e PZ 14 52 30 SP;LP;

D=77.9°

USCGS:

H: 14 40 35.0; 6.8 N; 126.3 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 37 Km.
 Mag: 5.3(CGS).

15 e PZ 23 43 36 SP;

i SNE 44 04.5 SP;

16 eiPZ 13 47 19 (D) LP;

i SKSE 57 45 LP;

i ScSNE 58 03 LP;

i PSE 59 10 LP;

D=87.5°

USCGS:

H: 13 34 29.9; 0.8 S; 132.6 E;
 WEST NEW GUINEA REGION.

h: 33 Km.

Mag: 6(PAS), 5.8-6.2(BRK).

17 e Z 17 46 50 SP;

18 e PZ 12 21 09 SP;

e(S)NE 21 30 SP;

19 i PZ 09 09 35 D LP;

ei Z 09 50.0 SP;

e SZ 12 18 LP;

i SSZ 12 27 LP;

i Z 14 25 LP;

D=13.7°

USCGS:

H: 09 06 19.0; 37.9 N; 29.0 E;
 TURKEY.

h: 28 Km.

Mag: 4.7(CGS).

19 e PZ 22 47 02.5 SP;

i SNE 47 21 SP;

20 i PZ 14 38 31 C LP;

i SE 48 45 LP;

i SKSN 48 50 LP;

D=81.5°

USCGS:

H: 14 26 14.1; 51.4 N; 178.3 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.

h: 33 Km.

Mag: 5.3(CGS), 4.6-5(BRK).

20 iiPZ 15 48 56 C LP;

i SKSE 59 12 LP;

i SNE 59 20 LP;

i SSE 16 05 04 LP;

D=84.2°

(cont.)

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USCGS:

H: 15 36 20.1; 7.7 N; 134.9 E;
WEST CAROLINE ISLANDS.
h: 8 Km.
Mag: 6½(PAS), 6.2-6.7(BRK).

22 e PKPE 04 17 30 SP;
i PPZ 20 45 LP;

D=143.2°

USCGS:

H: 03 58 02.4; 33.5 S; 179.0 W;
SOUTH OF KERMADEC ISLANDS.
h: 39 Km.
Mag: 5.0(CGS), 5.8-6.2(BRK).

22 iiPZ 16 59 55 D LP;

D=12.3°

USCGS:

H: 16 56 53.3; 40.7 N; 30.8 E;
TURKEY.
h: 4 Km.
Mag: 7¼(PAS), 7.1-7.3(BRK).

22 e PZ 17 51 08 SP;
e SNE 53 43 SP;

D=12.4°

USCGS:

H: 17 48 06.0; 40.6 N; 30.7 E;
TURKEY.
h: 26 Km.
Mag: 5.0(CGS).

22 eiPZ 18 12 57.6 SP;

D=12.8°

USCGS:

H: 18 09 55.7; 40.8 N; 30.4 E;
TURKEY.
h: 33 Km.
Mag: 5.0(CGS).

22 eiPZ 23 45 02.3 D SP;

D=12.8°

USCGS:

H: 23 41 59.5; 40.6 N; 30.7 E;
TURKEY.
h: 33 Km.
Mag: 4.7(CGS).

23 e Z 14 10 06 LP;

D=132.4°

USCGS:

H: 13 48 06 ; 56.2 S; 158.3 E;

MACQUARIE ISLAND REGION.
h; 33 Km.
Mag: 5.1(CGS).

M.S.Nabavi

A.Enzabi

22 eiPZ 13 16 48 LP;
 ei Z 21 28 SP;LP;
 eiPPZ 21 40 LP;
 i(SKIKKS)NE 29 40 LP;
 i PKKPZ 31 34 LP;
 i Z 32 43 LP;
 i PSSE 37 44 LP;
 i N 37 50 LP;
 D=114.1°

USCGS:

H: 13 02 06.8; 60.8 S; 24.6 W;
 SOUTH SANDWICH ISLANDS REGION.
 h: 33 Km.
 Mag: 6.1(CGS), 6¼(PAS), 5.7-6.1
 (BRK).

23 e Z 19 11 40 SP;
 23 e PZ 22 27 16 SP;
 i SE 28 13.0 SP;
 24 e Z 10 53 06 SP;LP;
 i PPZ 53 31 LP;
 D=123.1°

USCGS:

H: 10 32 52.6; 14.9 S; 166.9 E;
 NEW HEBRIDES ISLANDS.
 h: 23 Km.
 Mag: 5.3(CGS).

24 e Z 14 44 18 SP;
 24 i PZ 19 37 19.4 D SP;
 e SZNE 37 32 SP;
 25 e PZ 01 45 40 SP;
 25 i PZ 10 32 19.2 SP;
 i ZNE 32 33 SP;
 25 i PZ 12 27 42.5 D SP;
 i Z 27 47.5 SP;
 D=3.4°

USCHS:

H: 12 26 48.7; 35.4 N; 49.1 E;
 WESTERN IRAN.
 h: 43 Km.
 Mag: 4.8(CGS).

25 eiPZ 23 06 58.5 C SP;
 D=86.4°

USCGS:

H: 22 54 18.3; 12.2 N; 140.8 E;
 WEST CAROLINE ISLANDS.
 h: 33 Km.
 Mag: 4.9(CGS).

25 eiPZ 23 11 28.3 C SP;LP;
 e pPZ 11 38 SP;
 D=86.5°

USCGS:

H: 22 58 48.3; 12.2 N; 140.9 E;
 WEST CAROLINE ISLANDS.
 h: 33 Km.
 Mag: 5.1(CGS).

26 iiPZ 00 49 22.2 D SP;LP;
 i PcPZ 49 26.1 SP;
 iiSZNE 59 58 LP;
 i E 01 00 54 LP;
 i ZNE 01 48 LP;
 ei E 05 23 LP;
 i NE 09 24 LP;
 D=86.4°

USCGS:

H: 00 36 42.1; 12.2 N; 140.7 E;
 WEST CAROLINE ISLANDS.
 h: 33 Km.
 Mag: 6.1(CGS), 6½-6¾(PAS), 6.0-
 6.4(BRK).

26 eiPZ 01 06 01.3 SP;
 D=86.4°

USCGS:

H: 00 53 17.4; 12.2 N; 140.7 E;
 WEST CAROLINE ISLANDS.
 h: 14 Km.
 Mag: 5.3(CGS).

26 eiPZ 02 19 49 D LP;
 eiSKSNE 30 10 LP;
 eiSNE 30 26 LP;
 D=86.4°

USCGS:

H: 02 07 08.9; 12.2 N; 140.8 E;
 WEST CAROLINE ISLANDS.
 h: 30 Km.
 Mag: 5.3(CGS).

26 eiPZ 11 59 07.5 SP;
 27 ei Z 13 27 22 LP;
 i pPKPZ 27 58 LP;
 e Z 29 20 LP;
 e Z 31 28 LP;
 ei Z 37 26 LP;
 ei NE 38 34 LP;
 D=113.0°

USCGS:

H: 13 08 55.9; 12.3 N; 86.2 W;

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 NICARAGUA.
 h: 183 Km.
 Mag: 5.2(CGS).

 27 i PZ 14 29 11.4 C SP;LP;
 (S
 e(SKS E 39 20 LP;
 D=81.6°

USCGS:

 H: 14 16 56.1; 0.5 N;126.1 E;
 MOLUCCA PASSAGE.
 h: 62 Km.
 Mag: 5.4(CGS).

 28 e Z 18 39 34 SP;
 29 eiPZ 07 40 08.5 C SP;LP;
 ei Z 40 29 LP;
 i ZNE 50 31 LP;
 i Z 51 40 LP;

UPPSALA:

 BANDA SEA.
 Mag: 5.9(UP,KI).

 30 e PZ 04 30 14 SP;
 D=44.2°

USCGS:

 H: 04 22 01.5; 31.7 N;100.3 E;
 SZECHWAN PROVINCE, CHINA.
 h: 33 Km.
 Mag: 6.1(CGS),

 30 eiPZ 11 15 59.5 SP;LP;
 i (pP)Z 17 05.1 SP;
 i PPZ 18 47 LP;
 i Z 23 34 LP;
 eiSZN 23 38 LP;
 ei N 26 24 LP;
 eisSSN 27 08 LP;
 ei NE 27 24 LP;
 D=44.3°

USCGS:

 H: 11 08 49.6; 31.6 N;100.3 E;
 SZECHWAN PROVINCE, CHINA.
 h: 33 Km.
 Mag: 5.1(CGS).

 30 iPKPZ 12 15 02.0 SP;
 i Z 15 06.5 SP;
 i Z 15 09.0 SP;
 D=142.4°

USCGS:

 H: 11 55 50.5; 30.4 S;178.6 W;
 KERMADEC ISLANDS REGION.

 h: 161 Km.
 Mag: 4.8(CGS).

 30 i PZ 13 44 57 C SP;LP;
 i pPZ 45 05.2 SP;
 eisPPPPZ 50 45 LP;
 i SN 54 24 LP;
 i NE 54 33 LP;
 i NE 55 01 LP;
 i NE 55 21 LP;
 ei Z 56 30 LP;
 ei N 56 36 LP;
 e SSNE 59 02 LP;
 ei NE 14 02 59 LP;
 D=73.1°

USCGS:

 H: 13 33 26.4; 45.4 N;151.5 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 5.5(CGS).

 30 e PZ 19 30 18 SP;
 e(S)NE 30 36 SP;
 30 e Z 20 15 02 SP;
 30 e PZ 21 48 23 SP;
 31 e PZ 13 17 33 SP;
 31 e PZ 15 48 28 SP;
 31 i PZ 16 51 02.1 D SP;
 31 e PZ 17 26 37 SP;
 31 eiPKPZ 19 12 12 SP;
 i Z 12 22.0 SP;
 ei Z 12 32.0 SP;
 ei Z 12 38.0 SP;
 ei Z 14 59 SP;
 i SKPZ 15 32.0 SP;LP;
 i Z 17 33 LP;
 D=138.4°

USCGS:

 H: 18 53 25.2; 17.5 S;175.2 W;
 TONGA ISLANDS.
 h: 277 Km.
 Mag: 5.4(CGS).

31 e PZ 21 25 11 SP;

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2 e PZ 20 34 50 SP;
 e SNE 35 05 SP;
 3 e PPZ 01 41 22 SP;LP;
 D=103.3°

USCGS:

H: 01 23 19.6; 7.8 S; 147.1 E;
 EAST NEW GINEA REGION.
 h: 139 Km.
 Mag: 5.4(CGS).

3 eiPZ 21 23 06 C LP;
 i PKPZ 26 28 LP;
 eipPKPZ 26 38.5 SP;
 ei Z 27 20.5 SP;
 i PPZ 28 32 LP;
 eiSKKSN 35 07 LP;
 i Z 35 32 LP;
 i E 37 19 LP;
 i PSN 38 08 LP;
 D=124.3°

USCGS:

H: 21 07 30.8; 10.6 S; 79.8 W;
 OFF COAST OF PERU.
 h: 38 Km.
 Mag: 6.5(CGS), 6.4-7(PAS).

4 i PKPZ 01 01 39.2 C SP;

UPPSALA:

KERMADEC ISLANDS.
 h: 30 Km.

4 eiPKPZ 01 02 42.8 C SP;

UPPSALA:

KERMADEC ISLANDS.

4 i PKPZ 04 11 01.5 D SP;
 i Z 11 10.0 SP;
 i pPKPZ 12 05.0 SP;
 i(SKP)Z 14 20.3 SP;
 i(PKS)E 14 45 SP;

D=142.1°

USCGS:

H: 03 51 58.9; 31.4 S; 179.4 W;
 KERMADEC ISLANDS
 h: 231 Km.
 Mag: 5.5(CGS), 6.0-6.2(BRK).

4 e PZ 13 15 10 SP;
 e SNE 15 42 SP;

4 e PZ 19 41 14 SP;

D=71.1°

USCGS:

H: 19 30 13.7; 54.8 N; 159.1 E;
 NEAR EAST COAST OF KAMCHATKA.
 h: 182 Km.
 Mag: 4.6(CGS).

5 e PZ 06 49 13 SP;
 i(S)NE 50 02.0 SP;
 i E 50 13.0 SP;

5 e PZ 07 05 07 SP;
 e(S)NE 06 06 SP;

5 e PZ 07 13 03 SP;
 i(S)NE 14 01 SP;

5 e PZ 07 24 04 SP;
 e(S)NE 24 53 SP;

5 e Z 08 34 26 LP;
 ei Z 37 03 LP;

D=13.6°

USCGS:

H: 08 31 01.1; 36.7 N; 29.3 E;
 TURKEY.
 h: 24 Km.
 Mag: 4.4(CGS).

5 eiPZ 10 15 04.5 SP;
 i (S)N 15 41.0 SP;

6 eiPZ 01 51 15.0 SP;
 i Z 51 25.0 C SP;LP;

D=40.9°

USCGS:

H: 01 43 31.8; 24.1 N; 91.7 E;
 INDIA-EAST PAKISTAN BORDER REG.
 h: 18 Km.
 Mag: 5.0(CGS).

6 e PZ 05 03(45) SP;

D=18.6°

USCGS:

H: 04 59 24.7; 35.0 N; 23.0 E;
 CRETE.
 h: 33 Km.
 Mag: 4.8(CGS).

6 i PZ 07 38 48 D LP;
 i pPZ 38 58.3 SP;
 i PPZ 40 40 LP;
 i pPPZ 40 49 LP;
 e SN 45 45 LP;
 i ZNE 46 04 LP;

D=47.7°

USCGS:

H: 07 30 10.8; 14.7 N; 93.6 E;

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ANDAMAN ISLANDS REGION.

h: 33 Km.

Mag: 5.6(CGS).

6 e PZ 17 37 12 SP;LP;

D=84.8°

USCGS:

H: 17 24 40.1; 52.6 N; 168.5 W;

FOX ISLANDS, ALEUTIAN ISLANDS.

h: 33 Km.

Mag: 4.8(CGS).

7 i PZ 07 24 11.8 D SP;LP;

ei Z 24 26 SP;

eipPZ 25 14 LP;

i Z 25 22.5 SP;

i PPZ 27 16.0 SP;

ei Z 28 02 SP;

i SNE 33 45 LP;

eiSKSNE 34 00 LP;

D=78.8°

USCGS:

H: 07 12 36.6; 2.7 N; 124.3 E;

CELEBES SEA.

h: 274 Km.

Mag: 5.8(CGS).

7 e PZ 10 59 36 SP;

i (S)E 11 00 14.0 SP;

7 eipKPZ 11 26 51.0 (D) SP;LP;

i PPZ 29 54 SP;LP;

D=141.1°

USCGS:

H: 11 08 13.2; 31.3 S; 179.6 E;

KERMADEC ISLANDS.

h: 430 Km.

Mag: 5.1(CGS).

8 i PZ 02 09 27.0 C SP;

i SE 13 06 LP;

D=20.4°

USCGS:

H: 02 04 49.1; 40.7 N; 20.2 E;

GREECE-ALBANIA BORDER REGION.

h: 30 Km.

Mag: 4.7(CGS).

8 e Z 05 15 16 LP;

8 i PZ 09 56 08.5 SP;

e Z 56 32 SP;

D=19.3°

USCGS:

H: 09 51 43.1; 39.2 N; 21.7 E;

GREECE.

h: 45 Km.

Mag: 4.4(CGS).

8 e Z 11 08 26 SP;

8 i PZ 22 50 20 D LP;

i ZE 23 00 48 LP;

i NE 00 59 LP;

i NE 01 48 LP;

e SSNE 06 28 LP;

D=86.1°

USCGS:

H: 22 37 39.5; 12.2 N; 140.8 E;

WEST CAROLINE ISLANDS.

h: 27 Km.

Mag: 5.3(CGS), 5.4-5.6(BRK), 5½-5¾(GOL).

9 e PZ 10 21 04 LP;

e Z 24 10 LP;

eipKPZ 24 32.0 SP;LP;

e Z 25 51 SP;LP;

i PPZ 26 10 LP;

eipPPZ 28 02 LP;

ii Z 29 10 LP;

eiSKSE 30 37 SP;LP;

i NE 30 42.0 SP;

eiSKKSZE 31 36 LP;

i PKKPZ 34 32 LP;

i Z 37 53 LP;

ei E 38 53 LP;

i NE 44 18.7 SP;

D=121.1°

USCGS:

H: 10 06 44.1; 27.7 S; 63.1 W;

SANTIAGO DEL ESTERO PROV, ARG.

h: 578 Km.

Mag: 5.8(CGS), 5.0-5.2(BRK).

9 i PZ 14 56 38.7 D SP;LP;

i pPZ 56 49 LP;

e SKSE 15 07 00 LP;

i SNE 07 10 LP;

i ScSNE 07 26 LP;

eiSSE 12 42 LP;

D=86.1°

USCGS:

H: 14 43 57.7; 12.3 N; 140.7 E;

WEST CAROLINE ISLANDS.

h: 33 Km.

Mag: 5.4(CGS).

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9 i pPKPZ 17 12 12 C LP;
 i pPKPZ 13 05 SP;LP;
 eiSKKPZ 23 41 LP;
 eiSPPZ 30 06 LP;
 i PPSN 30 16 LP;
 i SSE 37 02 LP;

D=163°

USCGS:

H: 16 52 01.3; 54.8 S; 136.0 W;
 SOUTH PACIFIC CORDILLERA.
 h: 33 Km.
 Mag: 5.4(CGS), 6¼(PAS).

10 e PZ 00 48 11 SP;

11 e PZ 01 36 46 SP;
 i SNE 37 12.0 SP;

12 e PZ 00 35 42 SP;

D=81.6°

USCGS:

H: 00 23 27.7; 22.8 S; 10.5 W;
 SOUTH ATLANTIC RIDGE.
 h: 33 Km.
 Mag: 4.9(CGS).

12 eiPZ 02 55 01.8 SP;LP;
 i PcPZ 55 15.6 SP;
 i pPcPZ 55 21.3 SP;

D=72.7°

USCGS:

H: 02 43 33.1; 44.6 N; 149.8 E;
 KURILE ISLANDS.
 h: 25 Km.
 Mag: 5.1(CGS).

12 e PZ 19 40 04 SP;

12 e Z 22 07 06 LP;
 eiPPZ 08 20 LP;
 e(SKSE) 14 50 LP;
 eiPSE 17 40 LP;
 e SSE 23 40 LP;

D=105.4°

USCGS:

H: 21 49 47.6; 5.5 S; 151.7 E;
 NEW BRITAIN REGION.
 h: 59 Km.
 Mag: 5.2(CGS), 6.2-6.4(BRK).

13 i PZ 18 53 15.0 C SP;LP;
 i sPZ 53 29.2 SP;
 i Z 55 22.0 SP;
 i PPZ 56 12.0 SP;LP;
 i SN 19 03 06 LP;

i SKSN 03 22 LP;
 e PSNE 03 59 LP;

D=78.3°

USCGS:

H: 18 41 15.4; 52.7 N; 172.5 E;
 NEAR ISLANDS, ALEUTIAN ISLANDS.
 h: 34 Km.
 Mag: 5.7(CGS), 5 (GOL).

13 e pPPZ 20 17 34 LP;
 i SPZ 26 32 LP;
 e SPPZ 27 38 LP;

D=112.6°

USCGS:

H: 19 57 47.9; 56.0 S; 27.4 W;
 SOUTH SANDWICH ISLANDS REGION.
 h: 148 Km.
 Mag: 5.3 (CGS).

13 e PZ 21 54 09 SP;
 i Z 54 17.0 SP;

14 e E 14 37 21 SP;

D= 18.7°

USCGS:

H: 14 32 31.0; 36.1 N; 21.9 E;
 SOUTHERN GREECE.
 h: 102 Km.
 Mag: 4.5(CGS).

14 e NE 14 53 38 SP;

D=13.2°

USCGS:

H: 14 49 41.9; 28.4 N; 57.1 E;
 SOUTHERN IRAN.
 h: 33 Km.
 Mag: 4.7(CGS).

14 e N 19 02 48 SP;

D=20°

B.C.I.S.:

H: 18 58 24 ; 36¼ N; 21½ E;
 SOUTHERN GREECE.
 ML=4.3(Athenes).

15 i PZ 00 40 00.2 (C) SP;LP;
 i pPZ 40 14 LP;
 i sPZ 40 28 LP;
 i Z 40 39 LP;
 i PPZ 42 42 LP;
 e SNE 49 15 LP;

D=72.1°

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USCGS:

H: 00 28 39.8; 35.6 N; 140.4 E;
NEAR EAST COAST OF HONSHU, JAPAN.
h: 59 Km.
Mag: 5.2(CGS), 4.7-5.1(BRK).

15 i PZ 10 40 16.3 C SP;LP;
i pPZ 40 23.0 SP;LP;
e sPZ 40 28 SP;
i Z 40 38.0 SP;
i Z 40 42.0 SP;
i Z 40 51.8 SP;
i Z 41 10.0 SP;LP;
e Z 41 36 SP;LP;
i PPZ 41 39.2 SP;
i PcPZ 42 29.0 SP;
i ScPZNE 46 10.0 SP;LP;
ei ZE 46 19.0 SP;
i SN 46 20 LP;
i N 46 51 LP;
i ScSN 50 20 LP;
D=39.4°

USCGS:

H: 10 32 48.7; 27.4 N; 91.8 E;
BHUTAN.
h: 57 Km.
Mag: 5.8(CGS).

UPPSALA:

h: 20 Km(Up, Ki, Sk, Gb, Um, Ka, Ud)
Mag: 6.1(Up, Ki).

16 e Z 00 08 34 SP;
D=63.6°

USCGS:

15 H: 23 57 30.1; 24.1 N; 120.7 E;
TAIWAN.
h: 50 Km.
Mag: 5.0(CGS).

16 e PZ 02 50(07) SP;
i SNE 50 12.0 SP;
16 e PZ 03 53 32 LP;
ei Z 53 40 LP;
D=85.4°

USCGS:

H: 03 40 55.3; 2.0 S; 128.9 E;
CERAM SEA.
h: 50 Km.
Mag: 5.4(CGS).

16 eiPZ 04 09 31.0 SP;LP;
D=25.4°

USCGS:

H: 04 03 58.0; 50.0 N; 77.8 E;
EASTERN KAZAKH SSR.
h: 0 Km.
Mag: 5.3(CGS).

16 e PZ 08 44 07 LP;
e N 55 24 LP;
e N 55 48 LP;
D=80.3°

USCGS:

H: 08 31 58.4; 52.0 N; 176.4 W;
ANDRENOF ISLANDS, ALEUTIAN IS.
h: 65 Km.
Mag: 5.4(CGS).

16 e PZ 22 48 52 SP;
e SNE 49 25 SP;
18 e PZ 02 08 08 SP;
D=23.1°

USCGS:

H: 02 02 59.8; 15.7 N; 39.0 E;
ETHIOPIA.
h: 33 Km.
Mag: 4.8(CGS).

18 e PZ 15 46 54 LP;
i PPZ 51 10 LP;
e SKSE 57 32 LP;
D=101.7°

USCGS:

H: 15 33 06.5; 5.9 S; 146.6E;
EAST NEW GUINEA REGION.
h: 39 Km.
Mag: 5.5(CGS).

19 e Z 01 04 40 SP;
D=140.8°

USCGS:

H: 00 45 31 ; 24.7 S; 177.3 W;
SOUTH OF FIJI ISLANDS.
h: 139 Km.
Mag: 4.7(CGS).

19 iiPZ 11 07 20.1 C SP;LP;
ii(pP Z 07 40 LP;
ii(PcP Z 07 50.0 SP;LP;
i sPZ 08 06.0 SP;LP;
i pPcPZ 10 59.0 SP;
i PPZ 11 38 LP;
e(PPP)Z 16 29.0 SP;LP;
iiSZNE 16 37.0 SP;
i NE 16 37.0 SP;

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i (PS NE 17 08 SP;
 i (SKS NE 17 08 SP;
 i ScSE 17 14 LP;
 i N 19 41 SP;
 eiPKPKPZ 35 09 SP;

D=70.9°

USCGS:

H: 10 56 08.6; 43.0 N; 145.2 E;
 HOKKAIDO, JAPAN REGION.
 h: 84 Km.
 Mag: 5.9(CGS), 6½(PAS), 6.2-6.6
 (BRK), 6¼-6½(PAL).

19 i PZ 19 12 11.5 C SP;LP;
 ei Z 12 27.5 SP;LP;
 eipPZ 12 34.0 SP;
 i PcPZ 12 45.8 SP;
 i SN 20 35 LP;

D=63.6°

USCGS:

H: 19 01 47.5; 1.6 S; 100.5 E;
 SOUTHERN SUMATRA.
 h: 83 Km.
 Mag: 5.0(CGS).

20 e PZ 00 43 56 SP;
 D=71.4°

USCGS:

H: 00 32 44.3; 36.0 N; 139.9 E;
 HONSHU, JAPAN.
 h: 94 Km.
 Mag: 4.9(CGS).

20 eiPKPZ 09 58 30 C LP;
 e PPZ 10 01 11 SP;LP;
 i Z 01 29 LP;
 i SKPZ 01 56 LP;
 i Z 02 14 LP;
 i(SPP)Z 13 16 LP;
 ei(SS)NE 19 06 LP;
 i(SSP)Z 19 30 LP;

D=134.3°

USCGS:

H: 09 39 15.2; 49.8 S; 163.4 E;
 AUCKLAND ISLANDS REGION.
 h: 30 Km.
 Mag: 6.1(CGS), 6¼(PAS), 6.3-6.7
 (BRK).

20 e(PKP)Z 10 50 13 SP;
 D=134.3°

USCGS:

H: 10 30 53.4; 49.8 S; 163.4 E;
 AUCKLAND ISLANDS REGION.
 h: 19 Km.
 Mag: 5.8(CGS).

20 e PNE 16 58 49 SP;

20 i PKPZ 18 57 56.1 C SP;LP;
 i N 58 15 SP;
 i N 59 05 SP;

D=143.8°

USCGS:

H: 18 38 25 ; 28.6 S; 175.9 W;
 KERMADEC ISLANDS.
 h: 39 Km.
 Mag: 5.0(CGS).

21 e FN 05 54 32 SP;

21 e PZ 18 41 10 SP;LP;
 ei N 45 12 LP;

D=20.8°

USCGS:

H: 18 36 26 ; 17.9 N; 40.0 E;
 RED SEA.
 h: 16 Km.
 Mag: 4.4(CGS).

22 eiPZ 08 19 26.3 C SP;LP;
 ei Z 20 05.0 SP;

D=72°

USCGS:

H: 08 08 04.3; 0.7 S; 20.1 W;
 CENTRAL MID-ATLANTIC RIDGE.
 h: 33 Km.
 Mag: 5.3(CGS).

22 i PZ 10 29 24.6 C SP;LP;
 i SZE 38 43 LP;
 eiSSN 43 16 LP;
 ei ZN 47 30 LP;

D=72.5°

USCGS:

H: 10 17 59.9; 44.5 N; 149.4 E;
 KURILE ISLANDS.
 h: 60 Km.
 Mag: 5.6(CGS), 5.3-5.7(BRK), 5.9
 (PAL).

22 e PZ 17 41 20 SP;
 i SNE 41 25.1 SP;

22 e PZ 20 16 47 SP;

D=39.6°

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USCGS:

 H: 20 09 13 ; 31.9 N; 94,6 E;
 TIBET.
 h: 33 Km.

 22 e PZ 22 16 17 SP;
 eiPPZ 16 46 SP;
 ei Z 17 06 SP;
 D=20.1°

USCGS:

 H: 22 11 48 ; 36.2 N; 71.4 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 127 Km.
 Mag: 4.7(CGS).

 23 ei(PKP)Z 07 14 52.0 SP;
 ei Z 15 01.6 SP;
 i PPZ 17 41.8 SP;LP;
 eiSKPZ 18 13.0 SP;
 D=137.4°

USCGS:

 H: 06 56 43.6; 21.8 S; 179.7 W;
 FIJI ISLANDS REGION.
 h: 595 Km.
 Mag: 5.4(CGS), 6-6.4(BRK).

 23 eiPKPZ 07 21 23 LP;
 i Z 24 09 LP;
 i SKPZNE 24 55 LP;
 D=134.8°

USCGS:

 H: 07 02 03.3; 49.7 S; 164.0 E;
 AUCKLAND ISLANDS REGION.
 h: 15 Km.
 Mag: 5.7(CGS).

 23 eiPPZ 08 00 46.7 SP;
 D=137.6°

USCGS:

 H: 07 39 47.8; 22.1 S; 179.6 W;
 SOUTH OF FIJI ISLANDS.
 h: 600 Km.
 Mag: 4,6(CGS).

 23 e Z 21 52 11 SP;
 24 eiPZ 01 09 25.3 SP;LP;
 D=81.1°

USCGS:

 H: 00 57 09.7; 4.6 N; 128.6 E;
 NORTH OF HALMAHERA.
 h: 33 Km.
 Mag: 5.3(CGS).

 24 e PZ 13 40 56 SP;
 e SNE 41 35 SP;
 24 e PZ 22 16 00 SP;
 D=20.7°

USCGS:

 H: 22 11 17 ; 40.8 N; 19.7 E;
 ALBANIA.
 h: 16 Km.
 Mag: 4.4(CGS).

 26 e PPZ 11 32 34 LP;
 eiSKPZ 33 34 LP;
 e Z 34 18 LP;
 eiSPPZ 44 12 LP;
 e SSNE 49 46 LP;
 D=129.5°

USCGS:

 H: 11 11 23.7; 33.6 S; 70.5 W;
 CHILE-ARGENTINA BORDER REGION.
 h: 84 Km.
 Mag: 5.8(CGS), 5.5-5.7(BRK).

 26 i PKPZ 16 30 27 C LP;
 i Z 30 29.4 SP;
 i Z 30 34 SP;
 ei Z 30 44 SP;LP;
 iiPPZ 32 33 LP;
 e E 33 44 LP;
 i SKPZ 34 08 LP;
 eiPPPZ 35 16 LP;
 eiPSNE 42 46 LP;
 eiPcPPKPZ 43 38 LP;
 i PKPScSE 45 46 LP;
 i SSNE 49 45 LP;
 D=128.7°

USCGS:

 H: 16 11 23.9; 30.0 S; 71.5 W;
 NEAR COAST OF CENTRAL CHILE.
 h: 55 Km.
 Mag: 6¼(PAS), 5.8-6.0(BRK).

 27 e Z 07 28 52 SP;
 D=16.1°

USCGS:

 H: 07 24 30 ; 34.4 N; 26.6 E;
 CRETE.
 h: 20 Km.
 Mag: 4.7(CGS).

 27 e Z 19 17 04 LP;
 28 e PZ 02 59 19 SP;
 i Z 59 21.7 SP;LP;

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(cont.)

e Z 03 00 14 LP;
 e SZN 03 46 LP;
 i ZNE 04 04 LP;

D=25.4°

USCGS:

H: 02 53 48.4; 42.0 N; 79.5 E;

ALMA-ATA REGION.

h: 33 Km.

Mag: 4.8(CGS).

28 i PZ 05 11 12 D LP;
 e Z 14 44 LP;
 i PPZE 15 44 LP;
 i SKSE 21 54 LP;
 i PSZNE 25 02 LP;

D=107.5°

USCGS:

H: 04 56 56.3; 6.6 S; 153.4 E;

NEW BRITAIN REGION.

h: 44 Km.

 Mag: 5.9(CGS), 6.1-6.3(BRK), 6.5
 (PAS), 6.9(GOL).

28 i PZ 07 48 59.1 SP;
 28 i PZ 04 15 57 16.9 C SP;LP;
 i PPZ 16 00 25 LP;
 eipPPZ 00 34 LP;
 i SNE 07 30 LP;
 i ScSE 07 44 LP;

D=82.2°

USCGS:

H: 15 44 55.7; 59.5 N; 147.1 W;

GULF OF ALASKA.

h; 28 Km.

Mag: 5.6(CGS), 5.4-5.8(BRK).

29 e PZ 06 47 25 SP;
 i SNE 47 27.1 SP;
 29 e PZ 15 18 48 SP;
 i SNE 19 12 SP;
 30 e PZ 08 08 19 SP;LP;
 eipPZ 08 27 LP;
 eiPcPZ 08 43 LP;
 e PPZ 10 52 LP;

D=68.5°

USCGS:

H: 07 57 19.9; 28.9 N; 129.9 E;

RYUKYU ISLANDS.

h: 32 Km.

Mag: 5.5(CGS), 4.9-5.2(BRK).

M.S.Nabavi

A.Enzabi

1 e PZ 06 01 44 SP;
 2 eiPKPZ 00 31 01.8 (D) SP;
 i Z 31 11.0 SP;LP;
 ei Z 31 13.5 SP;
 ci Z 31 48.2 SP;
 ei Z 32 40.5 SP;
 e Z 33 34 ; LP;
 i Z 33 50.8 SP;LP;
 e PKSE 34 44 LP;
 eiPPPZ 37 06 LP;
 ei(sSKP)Z 38 04 LP;
 D=137.7°

USCGS:

H: 00 12 52.8; 21.0 S; 178.8 W;
 FIJI ISLANDS REGION.
 h: 604 Km.
 Mag: 5.2(CGS), 5.8-6.1(BRK).

2 e PZ 09 29(10) SP;
 2 eiPZ 17 35 26.7 C SP;LP;
 i Z 35 29.2 SP;
 e PcPZ 35 49 SP;
 D=70.6°

USCGS:

H: 17 24 13.2; 6.6 S; 105.2 E;
 SUNDA STRAIT.
 h: 33 Km.
 Mag: 5.5(CGS).

2 eiPZ 22 01 16.5 SP;
 eiSNE 01 45.7 SP;
 3 e PZ 00 16 09 SP;
 e SNE 16 58 SP;
 3 eiPPZ 18 35 37 LP;
 eiSKSNE 41 32 LP;
 i (SP)ZNE 45 14 LP;
 i (PS)ZNE 45 14 LP;
 eiPPSNE 46 27 LP;
 ei ZE 48 01 LP;
 D=113.5°

USCGS:

H: 18 16 03.2; 10.9 N; 85.9 W;
 COSTA RICA.
 h: 21 Km.
 Mag: 5.8(CGS), 6½(PAS), 6.0-6.2
 (BRK), 6-6¼(GOL), 6¼-6½(PAL).

4 eiPZ 04 53 11.2 SP;
 i Z 53 13.8 SP;
 D=2.9°

USCGS:

H: 04 52 26 ; 39.8 N; 43.2 E;
 TURKEY.
 h: 39 Km.
 Mag: 4.5(CGS).

4 i PZ 05 00 02.5 SP;
 i Z 00 06.4 SP;
 i SNE 00 45.0 SP;
 4 eiPZ 17 35 35 C LP;
 i (PP)Z 40 05 LP;
 i Z 40 11.8 SP;LP;
 eiSKSNE 46 07 LP;
 eiSKKKSNE 46 58 LP;
 i SPZE 49 18 LP;
 i PSNE 49 32 LP;

D=107.5°

USCGS:

H: 17 21 20.7; 5.7 S; 153.9 E;
 NEW IRELAND REGION.
 h: 52 Km.
 Mag: 6¼(PAS), 7.0-7.2(BRK), 7¼-
 7½(PAL), 7.6(GOL).

5 e PZ 12 05 26 SP;LP;
 ei Z 05 40.5 SP;
 i PPZ 05 46.1 SP;
 i PPPZ 05 52.3 SP;
 i sPPZ 05 55.6 SP;
 i Z 06 05.0 SP;
 i Z 06 25.5 SP;
 ei N 08 07.2 SP;
 e SNE 09 10 LP;
 i ZE 14 18 LP;
 D=20.1°

USCGS:

H: 12 00 51.2; 37.8 N; 20.7 E;
 IONIAN SEA.
 h: 15 Km.
 Mag: 5.0(CGS).

5 e PZ 13 18 07 SP;
 5 e PZ 16 06 30 (C) SP;LP;
 e Z 07 08 SP;
 D=72.8°

USCGS:

H: 15 55 02.8; 45.4 N; 150.7 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 5.3(CGS).

6 e PZ 04 08(45) SP;
 e pPZ 08 55 SP;LP;
 ei(S)Z 16 08 LP;
 D=51.7°

USCGS:

H: 03 59 51.0; 10.3 S; 66.4 E;
 MID-INDIAN RISE.
 h: 33 Km.
 Mag: 5.1(CGS).

6 e PZ 04 23 19 SP;

6 e PZ 23 38 21 SP;

7 i PNE 00 25 17.8 SP;

7 i PZ 00 26 16.0 SP;

i SNE 26 20.0 SP;

7 eiPKPZ 01 33 08.0 (C) SP;
 e Z 35 07 SP;LP;

D=128°

USCGS:

H: 01 14 04.1; 29.6 S; 71.1 W;
 NEAR COAST OF CENTRAL CHILE.
 h: 42 Km
 Mag: 5.3(CGS), 4.4-4.8(BRK).

7 i PZ 08 39 32.5 C SP;LP;
 eipPZ 39 40.0 SP;
 eisPZ 39 43.8 SP;

D=73.4°

USCGS:

H: 08 28 01.2; 49.2 N; 156.3 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 5.3(CGS).

7 e PZ 09 18 23 SP;

D=73.4°

USCGS:

H: 09 06 52.3; 49.2 N; 156.3 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 4.9(CGS).

7 e PZ 21 35 25 SP;

8 eiPPZ 17 18 08 LP;

eiPPPZ 20 22 LP;

e SKSE 24 28 LP;

e(SP)Z 27 20 LP;

e(PS)E 27 28 LP;

D=105.4°

USCGS:

H: 16 59 34.4; 9.5 S; 148.8 E;
 EAST NEW GUINA REGION.

h: 17 Km.

Mag: 5.5(CGS).

8 e PZ 18 22 34 LP;

i PPZ 27 02 LP;

i pPPZ 27 17 LP;

eiSPZ 36 20 LP;

D=107.3°

USCGS:

H: 18 08 18.1; 5.6 S; 154.0 E;
 SOLOMON ISLANDS.

h: 70 Km.

Mag: 5.1(CGS).

8 e PZ 20 21 08 SP;

8 eiPZ 21 20 43.6 SP;

i Z 20 45.0 SP;

D=73.4°

USCGS:

H: 21 09 13.1; 49.2 N; 156.3 E;
 KURILE ISLANDS.

h: 33 Km.

Mag: 4.7(CGS).

9 e PZ 13 42 09 LP;

eiPPZ 46 40 LP;

e E 53 06 LP;

e E 54 32 LP;

e Z 56 04 LP;

i Z 56 14 LP;

D=107°

USCGS:

H: 13 27 56.7; 5.7 S; 154.0 E;
 SOLOMON ISLANDS.

h: 41 Km.

Mag: 4.9(CGS).

9 i PZ 17 37 17 D LP;

i PKPZ 39 47 D LP;

i Z 39 52.5 SP;

i pPKPZ 42 23 SP;LP;

i SKPZ 42 35.8 SP;

i SKPZ 42 38.0 SP;

i Z 55 25.3 SP;

i NE 57 49.3 SP;

D=137.5°

USCGS:

H: 17 21 40.5; 21.1 S; 179.3 W;
 (cont.)

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FIJI ISLANDS REGION.

h; 654 Km.

Mag: 7-7.4(MB(PAS)), 6.9-7.1(BRK).

9	i(P)Z	18 16 09.3	SP;
	i Z	20 03.2	SP;

9	e PKPZ	18 51 14	SP;
	ei Z	51 24	SP;
	eiPPZ	54 01.5	SP;

D=137.5°

USCGS:

H: 18 33 08.2; 21.3 S; 179.3 W;

FIJI ISLANDS REGION.

h: 619 Km.

Mag: 5.1(CGS).

10	e PZ	08 24 08	SP;
	i SNE	24 16.5	SP;

11	eiPZ	02 22 13.2	SP;
	i SNE	22 39.5	SP;

11	eiPZ	16 04 06.3	D SP;LP;
	e Z	05 03	LP;
	eiSNE	13 51	LP;

D=76.7°

USCGS:

H: 15 52 16.8; 30.4 N; 142.6 E;

SOUTH OF HONSHU, JAPAN.

h: 32 Km.

Mag: 5.5(CGS).

12	e PKPZ	06 53 11	SP;LP;
	ei Z	53 22.0	SP;LP;
	e Z	55 49	LP;
	i Z	55 56.8	SP;LP;
	ei ZE	07 00 23	LP;
	ei E	02 03	LP;
	ei Z	05 24	LP;
	ei E	05 42	LP;
	ei E	06 23	LP;
	ei N	13 38	LP;

D=137.5°

USCGS:

H: 06 55 06.7; 21.1 S; 179.2 W;

FIJI ISLANDS REGION.

h; 636 Km;

Mag; 5.6(CGS), 6(PAS).

12	i PZ	13 04 10.0	D SP;LP;
	i pPZ	05 53	LP;
	e sPZ	06 38	LP;
	i PPZ	06 53	LP;

i SNE	12 42	SP;LP;
ei (SKS _E)	13 22	LP;
ei E	13 52	LP;
i NE	15 38	LP;
e SSNE	17 18	LP;
ei NE	21 06	LP;

D=69.8°

USCGS:

H: 12 53 46.9; 52.2 N; 152.5 E;

NORTHWEST OF KURILE ISLANDS.

h: 476 Km.

Mag: 5.5(CGS), 6(PAS), 5.5-5.9(BRK).

12	e(P)Z	17 47(15)	SP;
	e Z	47 24	SP;

12	iiPZ	18 44 31.6	C SP;LP;
	ei Z	44 49	LP;
	i PPZ	48 06	SP;LP;
	i SKSE	54 53	LP;
	i E	54 54.3	SP;
	i (ScS _N)	55 14.8	SP;
	i E	56 06.7	SP;
	i ZE	57 10	LP;
	ei E	57 34	LP;

D=89.6°

USCGS:

H: 18 31 37.1; 7.1 S; 129.8 E;

BANDA SEA.

h: 45 Km.

Mag: 6.2(CGS).

13	e PZ	03 29 42	SP;
	eiSE	33 42	LP;
	eiPcPZ	33 45	LP;

D=22°

USCGS:

H: 03 24 47.0; 39.7 N; 74.4 E;

SOUTHERN, SINKIANG. PROV, CHINA.

h: 33 Km.

Mag: 5.2(CGS).

14	e PZ	23 37 17	LP;
	e E	38 10	SP;
	e E	47 06	LP;

D=41.9°

USCGS:

H: 23 29 30.0; 3.3 S; 38.2 E;

KENYA.

h: 33 Km.

Mag; 5.2(CGS).

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15 e PZ 06 42 02 LP;
e SN 46 18 LP;

D=24.0°

USCGS:

H: 06 36 40 ; 14.7 N; 56.4 E;
ARABIAN SEA.

h: 33 Km.

Mag: 5.1(CGS).

15 i PZ 08 15 18 C LP;
e Z 16 04 LP;
ei Z 18 40 LP;
i Z 19 58.0 LP;
i Z 20 09 LP;
i Z 20 54 LP;
i(SKS)NE 25 44 LP;
i N 27 02 LP;
i(SP)Z 29 12 LP;
i(PS)NE 29 35 LP;
i PKPPKPZ 38 26 SP;

D=113.3°

USCGS:

H: 08 00 50.3; 11.9 N; 86.0 W;
NEAR COAST OF NICARAGUA.

h: 162 Km.

Mag: 6.2(CGS), 6¼(PAS), 6.6-6.9
(BRK), 6¼(PAL), 6¼-6½(GOL).

15 e PZ 18 06 05 SP;
i SNE 06 58 SP;
15 e PZ 19 52 05 SP;
i SNE 52 16.6 SP;

15 i PZ 21 52 18.2 C SP;

D=46.2°

USCGS:

H: 21 43 55 ; 36.8 N; 105.0 E;
NORTHERN CHINA.

h: 33 Km.

Mag: 5.1(CGS).

15 e PZ 23 22 41 SP;
15 e PZ 23 49 12 SP;
e(pP)Z 49 22 SP;

D=83.2°

USCGS:

H: 23 36 49.0; 1.8 S; 126.3 E;
MULUCCA SEA.

h: 5.1 Km.

Mag: 5.3(CGS).

16 e PZ 13 40(40) LP;
e SKSN 51(28) LP;
e SN 52 01 LP;
eiSPZN 53 07 LP;

D=93.1°

USCGS:

H: 13 27 35.6; 49.3 N; 129.1 W;
VANCOUVER ISLANDS REGION.

h: 33 Km.

Mag: 5.2(CGS).

16 eiPZ 17 10 11.5 (D) SP;LP;
i PcPZ 10 17 LP;
ei Z 10 30.8 SP;
i Z 10 48.3 SP;
ei Z 10 54.0 SP;
ei Z 11 05.7 SP;
i SE 20 08.0 LP;
i(SKS)NE 20 15 SP;
i(ScS)E 20 19 LP;

D=81.5°

USCGS:

H: 16 58 02.0; 1.7 N; 127.5 E;
HALMAHERA.

h: 120 Km.

Mag: 5.6(CGS).

16 e PZ 20 26(51) SP;
e pPZ 26 55 SP;LP;
eiSNE 34 53 LP;
e SSNE 38 48 LP;

D=58°

USCGS:

H: 20 16 56.1; 17.3 S; 66.6 E;
MASCARENE ISLANDS REGION.

h: 18 Km.

Mag: 5.2(CGS).

16 e PZ 23 42 30 SP;
17 i PZ 05 03 55.4 D SP;
i SNE 09 12.0 SP;
17 o PZ 05 09 26 LP;

D=25.5°

USCGS:

H: 05 03 58.0; 49.8 N; 78.1 E;
EASTERN KAZAKH SSR.

h: 0 Km.

Mag: 5.7(CGS).

17 eiPZ 21 16 23.7 (C) SP;LP;
eipPZ 16 35.2 SP;LP;

(cont.)

151 cisPZ 16 39.5 SP;
 ; SNE 25 24 LP;
 D=68.5°

USCGS:

H: 21 05 22.5; 17.2 N; 121.8 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 33 Km.
 Mag: 5.4(CGS).

18 i PZ 01 20 00.7 C SP; LP;
 eiPcPZ 21 43 LP;
 e PPZ 21 47 SP;
 i SNE 26 31 LP;
 i SSE 29 47 LP;
 D=44.2°

USCGS:

H: 01 11 45 ; 79.8 N; 2.4 E;
 GREENLAND SEA.
 h: 33 Km.
 Mag: 5.7(CGS), 6¼(PAS), 5.8-6.2
 (BRK), 6¼(GOL).

18 e PKPZ 22 25 51 SP; LP;
 e(SKP)Z 29 29 SP;
 e(SKP)Z 29 46 SP;
 e Z 41 44 LP;
 D=142.7°

USCGS:

H: 22 06 23.5; 33.9 S; 179.6 W;
 SOUTH OF KERMADEC ISLANDS.
 h; 26 Km.
 Mag: 5.4(CGS), 5.2-5.4(BRK), 5¼
 (GOL).

19 e PZ 05 44 30 SP;
 20 eiPPZ 01 22 13 (D) LP;
 e NE 31 57 LP;
 e N 33 04 LP;
 D=110°

USCGS:

H: 01 02 43.8; 58.6 S; 25.0 W;
 SOUTH SANDWICH ISLANDS REGION.
 h: 12 Km.
 Mag: 5.6(CGS).

20 e PZ 05 06 36 SP;
 i SNE 07 06 SP;
 i N 07 10.3 SP;
 20 e PZ 06 49 18 SP;
 e Z 49 26 SP;
 i Z 49 35.5 SP;
 i SNE 50 26.0 SP;

D=6.8°

USCGS:

H: 06 47 38.0; 37.9 N; 37.7 E;
 TURKEY.
 h: 33 Km.
 Mag: 4.8(CGS).

20 e PZ 07 46 53 SP;
 e SNE 47 25 SP;
 20 e PZ 16 14 57 SP;
 21 eiPKPZ 02 54 20 (D) LP;
 eiPPZ 56 25 LP;
 e(SKP)Z 57 39 LP;
 e SPZ 03 06 27 LP;
 e PPSN 08 39 LP;
 e SKKSN 11 16 LP;

D=127.9°

USCGS:

H: 02 35 12.3; 27.7 S; 71.8 W;
 NRAR COAST OF NORTHERN CHILE.
 h; 13 Km.
 Mag: 5.4(CGS), 5-5.2(BRK).

21 e PZ 05 35 48 SP;
 22 e PZ 14 49 12 SP;
 e SNE 49 47 SP;
 22 i PZ 15 17 22.7 C SP;
 i(S)N 17 53.5 SP;
 22 e PZ 21 21 34 SP;
 i Z 21 48.1 SP;
 i E 21 53.0 SP;
 22 e PZ 23 15 11 SP;

D=67.7°

USCGS:

H: 23 04 14.2; 27.4 N; 128.3 E;
 RYUKYU ISLANDS.
 h; 34 Km.
 Mag: 5.2(CGS).

23 iiPZNE 00 22 22.8 D SP;
 23 e PZ 01 05(14) SP;
 i SNE 05 24.6 SP;
 23 iiPZ 08 38 01.0 D SP; LP;
 eiPcPZ 38 11.0 SP;
 i Z 39 11.8 SP;
 e Z 40 29 LP;
 iiSNE 47 00.0 LP;

D=75.2°

USCGS:

(cont.)

(cont.)

H: 08 27 06.2; 28.9 N; 139.1 E;
BONIN ISLANDS REGION.
h: 463 Km.
Mag: 5.3(CGS), 5.5-5.7(BRK).

23 e PZ 18 42 21 SP;
23 e PZ 23 05 50 SP;
24 e PZ 08 51 12 SP;
24 i PZ 11 01 53 LP;
D=65.4°

USCGS:

H: 10 51 15.1; 3.1 S; 101.5 E;
SOUTHERN SUMATRA.
h: 63 Km.
Mag: 5.5(CGS).

25 i PZ 01 09 56.5 C SP;LP;
i pPZ 10 19.7 SP;
i PcPZ 10 30.0 SP;
i Z 11 04.5 SP;
i Z 11 25.8 SP;
e PPZ 12 20 SP;
i PPPZ 14 11 LP;
i SNE 18 31 SP;LP;
e PKPPKPZ 38 40 SP;
D=64.6°

USCGS:

H: 00 59 22.6; 24.5 N; 122.2 E;
TAIWAN REGION.
h: 65 Km.
Mag: 6.0(CGS), 6.2-6.5(BRK), 7.0
(GOL).

25 e PZ 02 07 55 SP;
D=64.6°

USCGS:

H: 01 57 23.1; 24.3 N; 122.2 E;
TAIWAN REGION.
h: 67 Km.
Mag: 5. (CGS).

26 i PZ 00 32 56.5 C SP;LP;
i Z 33 11 LP;
e pPZ 33 20 SP;
eiPcPZ 33 26.5 SP;
e PPZ 35 15 SP;
e ScPZ 37 24 LP;
ei Z 38 05 LP;
i SZNE 41 35 SP;LP;
e(SP)Z 41 48 LP;
ei(PS)E 41 59 LP;

e E 46 10 LP;
e(SSS)E 48 47 LP;
ei NE 49 20 LP;
e PKPPKPZ01 01 38 SP;
D=64.8°

USCGS:

H: 00 22 21.6; 24.5 N; 122.2 E;
TAIWAN REGION.
h: 63 Km.
Mag: 5.6(CGS).

26 eiPZ 04 58 55.7 SP;
i Z 59 02 C SP;LP;
e SNE 05 01 32 SP;LP;
eiSSE 01 42 LP;
D=13.9°

USCGS:

H: 04 55 38.8; 37.3 N; 29.1 E;
TURKEY.
h: 35 Km.
Mag: 5.1(CGS).

26 i PZ 17 34 19.0 C LP;
e PPZ 37 28 LP;
e SNE 44 24 LP;
e(ScS)NE 44 44 LP;
e PSE 45 20 LP;
D=81°

USCGS:

H: 17 22 05.3; 0.2 S; 125.2 E;
MOLUCCA SEA.
h: 42 Km.
Mag: 5.6(CGS).

27 i PZ 08 06 13.7 C SP;
i Z 06 16.2 SP;

27 e PZ 11 09 11 SP;
i SNE 09 21 SP;

27 e PZ 13 45 29 SP;
eiSNE 45 43 SP;

27 eiPZ 20 52 06.5 SP;LP;
D=64.6°

USCGS:

H: 20 41 33.0; 24.3 N; 122.2 E;
TAIWAN REGION.
h: 74 Km.
Mag: 4.9(CGS).

28 e PZ 00 12 08 SP;
e(S)E 20 06 LP;
e SPZ 20 18 LP;

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e NE 24 08 LP;
 e E 26 34 LP;
 D=57.3°

USCGS:

H: 00 02 21 ; 16,2 S; 66.9 E;
 MID*INDIAN RISE.
 h: 33 Km.
 Mag: 4.6(CGS).

28 e PZ 01 07 41 SP;
 28 e PZ 18 54 04 SP;
 ei Z 56 02 LP;
 D=76.8°

USCGS:

H: 18 42 13.7; 24.9 N; 45.9 W;
 NORTH ATLANTIC RIDGE.
 h: 33 Km.
 Mag: 5.1(CGS).

29 eiPZ 01 43 42.3 SP;
 29 e PPZ 12 56 50 LP;
 e N 13 04 34 LP;
 e PKKPZ 06 41 LP;
 e Z 07 48 LP;
 e N 16 47 LP;
 D=113.6°

USCGS:

H: 12 37 22.2; 60.8 S; 23.1 W;
 SOUTH SANDWICH ISLANDS REGION.
 h: 33 Km.
 Mag: 5.3(CGS).

29 eiPZ 21 42 32.1 SP;
 30 e PZ 06 09 32 SP;LP;
 D=25.5°

USCGS:

H: 06 03 57.9; 49.8 N; 78.1 E;
 EASTERN KAZAKH SSR.
 h: 0 Km.
 Mag: 5.5(CGS).

30 i PZ 13 34 31.2 SP;
 i SN 34 39.6 SP;
 31 e PZ 17 28 25 SP;
 eiSN 28 41 SP;
 31 e(P)Z 17 28 51 SP;
 i SN 29 15.2 SP;

31 e PZ 21 13 29 SP;
 i Z 13 32 LP;
 i pPZ 13 37 LP;
 i PPZ 14 07 LP;
 e SE 17 50 LP;
 i NE 18 02 LP;
 i N 19 00 LP;

D=2.5°

USCGS:

H: 21 08 07.2; 37.8 N; 14.6 E;
 SICILY.
 h: 33 Km.
 Mag: 4.8(CGS).

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1 eiPZ 16 20 44 C LP;
D=72.7°

USCGS:

H: 16 09 16.7; 48.2 N; 154.4 E;
KURILE ISLANDS.
h: 47 Km.
Mag: 5.3(CGS).

1 eiPZ 19 10 06.8 SP;LP;
eiSKSE 20 40 LP;
e SNE 21 10 LP;
D=93.0°

USCGS:

H: 18 56 54.8; 4.8 S; 135.7 E;
WEST NEW GUINEA REGION.
h: 14 Km.
Mag: 5.8(CGS), 5.8-6.2(BRK).

1 e PZ 19 28 38 SP;LP;
3 e PZ 01 46 03 SP;
3 e PKPZ 07 51 26 LP;
e pPKPZ 52 26 LP;
e PPZ 53 32 LP;
e pPPZ 54 22 LP;
e SKPZ 54 40 LP;
D=126.8°

USCGS:

H: 07 32 50.1; 18.7 S; 169.0 E;
NEW HEBRIDES ISLANDS.
h: 230 Km.
Mag: 5.3(CGS), 4.7-5.0(BRK).

3 e PZ 10 44(27) SP;
3 e PKPZ 22 56 09 SP;
e Z 57 28 LP;
e E 23 04 47 LP;
e Z 06 34 LP;
e N 07 43 LP;
e E 12 44 LP;

D=112.6°

USCGS:

H: 22 37 49.6; 56.1 S; 27.2 W;
SOUTH SANDWICH ISLANDS. REGION.
h: 135 Km.
Mag: 5.4(CGS).

4 e PZ 05 17 51.4 (C) SP;LP;
D=64.8°

USCGS:

H: 05 07 18.0; 24.3 N; 122.2 E;

TAIWAN REGION.

h: 76 Km.
Mag: 5.0(CGS).

4 i PKPZ 10 35 34.0 C LP;
i SKPZE 38 14.0 SP;LP;
i PPZ 38 18.0 SP;LP;
eiPKSE 39 06 LP;
e PPPZ 41 22 LP;
e Z 42 14 LP;
D=135.7°

USCGS:

H: 10 17 14.7; 17.8 S; 179.0 W;
FIJI ISLANDS REGION.
h: 573 Km.
Mag: 6¼(PAS).

4 i PZ 13 38 07.8 C SP;LP;
i pPZ 38 20 LP;
eiPPZ 40 50 LP;
e pPPZ 41 03 LP;
eiPPPZ 42 36 LP;
eiSZNE 47 25 LP;
eisPSNE 48 14 LP;
D=72.0°

USCGS:

H: 13 26 47.7; 37.4 N; 141.6 E;
NEAR EAST COAST OF HONSHU, JAPAN.
h: 46 Km.
Mag: 5.7(CGS).

4 i PZ 14 41 49.0 C LP;
e PcPZ 42 10 SP;LP;
e Z 42 30 SP;LP;
ei Z 42 45 LP;
e PPZ 44 25 SP;
eiSNE 50 56 LP;
i Z 56 14 LP;
D=70.2°

USCGS:

H: 14 30 37.5; 43.5 N; 144.1 E;
HOKKAIDO, JAPAN REGION.
h: 30 Km.
Mag: 5.8(CGS), 6(GOL).

4 e PZ 14 57 14 SP;
D=70.2°

USCGS:

H: 14 46 01.9; 43.5 N; 144.0 E;
HOKKAIDO, JAPAN REGION.
h: 33 Km.
Mag: 5.4(CGS).

4 e PKPZ 16 45 25 SP;
 eiSKSE 52 13 LP;
 eiSKKKSNE 53 32 SP;LP;
 e Z 55 47 SP;
 e Z 59 31 SP;
 eiSSE 17 02 44 LP;

D=118.0°

USCGS:

H: 16 26 48.2; 2.8 S; 77.7 W;
 PERU-ECUADOR BORDER REGION.
 h: 99 Km.
 Mag: 6.0(CGS), 5.5-5.9(BRK).

5 e PZ 00 30 50 SP;

D=20.3°

USCGS:

H: 00 26 12.9; 38.1 N; 20.5 E;
 GREECE.
 h: 33 Km.
 Mag: 4.3(CGS).

7 e PZ 01 47 29 SP;

7 e PKPZ 04 08 41 LP;
 e pPK 08 54 SP;
 e PPZ 11 35 LP;
 e SPZ 21 53 LP;

D=158.3°

USCGS:

H: 05 49 17.4; 14.9 S; 173.0 W;
 SAMOA ISLANDS REGION.
 h: 43 Km.
 Mag: 5.6(CGS), 5.4(GOL).

7 e PZ 08 50 42 SP;

7 e PZ 20 01 55 SP;
 eisPZ 02 33.5 SP;
 i sPPZ 02 54.5 SP;
 e SNE 05 36 SP;LP;
 e ScPZ 09 25 SP;

D=20.5°

USCGS:

H: 19 57 26.1; 37.0 N; 71.7 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 136 Km.
 Mag: 5.3(CGS).

8 e PZ 06 20 25 LP;
 ei pPcPZ 20 32 LP;
 e PPZ 24 04 LP;
 e SKSE 30 56 LP;
 i(S_S NE 31 25 LP;
 e NE 32 10 LP;

D=91.4°

USCGS:

H: 06 07 21.4; 5.3 S; 134.0 E;
 AROE ISLANDS REGION.
 h: 33 Km.
 Mag: 5.9(CGS).

8 i PZ 17 21 46.4 C SP;LP;
 i sPZ 22 00.2 SP;LP;
 i sPcPZ 22 06.0 SP;
 ei Z 22 11.5 SP;
 i Z 22 25.7 SP;
 e Z 22 32.3 SP;
 eiPPZ 24 54.0 SP;
 ei pPPZ 25 03.4 SP;
 e sPPPZ 27 04 LP;
 ei(S_S E 31 58 LP;
 (SKS_S E
 eiScSNE 32 08 LP;

D=82.2°

USCGS:

H: 17 09 27.1; 51.1 N; 178.5 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.
 h: 29 Km.
 Mag: 5.3(CGS), 5.3-5.5(BRK).

8 e PZ 17 34 54 SP;
 e PPZ 38 01 SP;

D=82.2°

USCGS:

H: 17 22 32.1; 51.1 N; 178.4 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.
 h: 10 Km.
 Mag: 5.2(CGS).

9 iiPZ 02 30 22.7 D SP;LP;
 i PcPZ 30 24.7 SP;
 i Z 30 32.0 SP;
 i Z 30 59.3 SP;
 i Z 31 09.4 SP;
 i Z 31 15.6 SP;
 i Z 31 35.5 SP;
 i pPZ 32 26 SP;LP;
 i SKSE 39 51.0 SP;LP;
 i SNE 40 03.2 SP;LP;
 i SSE 46 03 LP;

D=85.2°

USCGS:

H: 02 18 45.5; 7.2 S; 123.6 E;
 BANDA SEA.
 h: 560 Km.
 Mag: 5.8(CGS).

9 eiPZ 18 30 51 C LP;
 ei^(PP)_{PcP}Z 31 12.0 SP;
 e sPZ 31 20 SP;
 D=71.2°

USCGS:
 H: 18 19 35.0; 35.0 N; 140.1 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 68 Km.
 Mag: 5.3(CGS).

10 eiPZ 02 52 27.2 SP;
 D=6.2°

USCGS:
 H: 02 50 56 ; 36.0 N; 53.8 E;
 IRAN.
 h: 33 Km.
 Mag: 5.0(CGS).

10 e PZ 18 47 28 SP;LP;
 e pPZ 47 38 SP;
 e PPZ 49 26 SP;LP;
 i SE 54 39 LP;
 D=49.7°

USCGS:
 H: 18 38 37.6; 6.0 S; 71.4 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 32 Km.
 Mag: 5.4(CGS).

10 eiPZ 20 59 45.4 (D) SP;

11 e PZ 06 24 17 SP;

11 eiPZ 12 04 46.0 (D) SP;LP;
 i Z 04 53 LP;
 eiPPZ 06 44 LP;
 i SNE 11 56 LP;
 ei NE 15 46 LP;
 D=49.8°

USCGS:
 H: 11 55 55.6; 6.0 S; 71.4 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 37 Km.
 Mag: 5.6(CGS).

11 eiPZ 12 23 48.2 D SP;LP;
 i Z 24 14.0 SP;
 i PPZ 25 48.0 LP;
 i SNE 30 59.0 LP;
 i NE 34 52 LP;
 D=49.8°

USCGS:

H: 12 14 57.3; 6.0 S; 71.3 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 34 Km.
 Mag: 5.7(CGS), 5.7-5.9(BRK).

11 i PZ 15 14 03.0 C SP;LP;
 eiSNE 21 13 LP;
 ei N 25 09 LP;
 D=49.9°

USCGS:

H: 15 05 10.3; 6.1 S; 71.3 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 33 Km.
 Mag: 5.3(CGS).

11 e PZ 17 51 10 LP;
 e PPZ 53 12 LP;
 e SE 58 20 LP;
 e N 18 02 11 LP;
 D=49.8°

USCGS:

H: 17 42 18.4; 6.1 S; 71.5 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 33 Km.
 Mag: 5.4(CGS).

11 eiPZ 18 08 52.0 (D) SP;LP;
 eiPPZ 10 52.0 SP;
 i SE 16 02 LP;
 i(SP)N 16 10 LP;
 i N 16 29 LP;
 e E 18 46 LP;
 ei N 19 54 LP;
 D=49.8°

USCGS:

H: 18 00 00.7; 6.1 S; 71.4 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 33 Km.
 Mag: 5.7(CGS).

11 eiPZ 20 27 03.7 (D) SP;
 e N 38 10 LP;
 D=49.8°

USCGS:

H: 20 18 11.1; 6.0 S; 71.3 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 20 Km.
 Mag: 5.4(CGS).

12 e PZ 02 38 42.5 (C) SP;LP;
 e SNE 48 03 LP;

(cont.)

D=72.8°

USCGS:

H: 02 27 16.6; 44.8 N; 149.8 E;
KURILE ISLANDS.
h: 41 Km.
Mag: 5.5(CGS).

12 e PZ 10 45 04 LP;
e SNE 48 45 LP;
e SSE 49 19 LP;

D=20.1°

USCGS:

H: 10 40 36 ; 36.3 N; 71.4 E;
AFGHANISTAN-USSR BORDER REGION.
h: 98 Km.
Mag: 5.1(CGS).

12 eiPKPZ 10 56 15 (D) LP;
e FPZ 59 18 LP;
i pPPZ 59 28 LP;
e E 11 06 16 LP;
c(pPPS)E 11 41 LP;
c(sSS)E 17 52 LP;

D=140.5°

USCGS:

H: 10 36 52.0; 17.2 S; 172.0 W;
TONGA ISLANDS REGION.
h: 34 Km.
Mag: 5.6(CGS), 6-6¼(PAS), 5.6-5.8
(ERK), 5¼-6(GOL).

12 e PZ 15 26 19 SP;
i SNE 26 46 SP;
12 e PKPZ 17 43(39) SP;LP;
i SKPZ 47 10 LP;
ei E 49 18 LP;
eiPSSNE 18 03 40 LP;

D=129.6°

USCGS:

H: 17 24 31.9; 22.8 S; 170.7 E;
LOYALTY ISLANDS REGION.
h: 26 Km.
Mag: 5.1(CGS).

12 e PZ 19 07 17 SP;LP;
e N 21 57 LP;

D=81.2°

USCGS:

H: 18 53 07.6; 3.1 N; 126.9 E;
TALAUD ISLANDS.
h: 73 Km.
Mag: 5.4(CGS).

12 i PZ 21 15 50.0 D SP;
i SNE 16 23.2 SP;

12 e PZ 21 30 33 SP;LP;

D=66.7°

USCGS:

H: 21 19 45.2; 19.1 N; 121.2 E;
PHILIPPINE ISLANDS REGION.
h: 64 Km.
Mag: 4.7(CGS).

12 eiPZ 23 26 31.2 SP;LP;

D=88.3°

USCGS:

H: 23 13 54.6; 4.8 S; 129.7 E;
BANDA SEA.
h: 141 Km.
Mag: 5.3(CGS).

13 e PZ 06 53 53 SP;LP;

D=13.6°

USCGS:

H: 06 50 33.8; 37.9 N; 29.1 E;
TURKEY.
h: 46 Km.
Mag: 4.6(CGS).

13 e PZ 13 18 03 SP;
e SNE 18 52 SP;

13 e PZ 23 24 38 SP;
e SNE 24 59 SP;

14 e PZ 00 11 58 SP;

D=40.8°

USCGS:

H: 00 04 17.8; 24.0 N; 91.5 E;
INDIA-EAST PAKISTAN BORDER REG.
h: 33 Km.
Mag: 5.1(CGS).

14 e PZ 05 42 07 LP;
ePPZ 46 21 LP;
e Z 47 12 LP;
e SKSE 52 26 LP;
e SN 53 28 LP;
e SPZ 55 06 LP;
e sSSN 06 00 48 LP;

D=101.2°

USCGS:

H: 05 28 36.9; 5.4 S; 147.1 E;
EAST NEW GUINEA REGION.
h: 201 Km.
Mag: 5.8(CGS), 4.9-5.3(BRK).

15 i PZ 07 47 30.0 D SP;LP;
 e Z 50 20 LP;
 e SNE 56 28 LP;
 ei Z 08 01 40 LP;

D=76.3°

USCGS:

H: 07 36 36.4; 6.2 N; 123.7 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 567 Km.
 Mag: 5.2(CGS).

15 e PZ 19 38(09) SP;

D=8.5°

USCGS:

H: 19 35 46.3; 30.7 N; 51.4 E;
 IRAN.
 h: 10 Km.
 Mag: 4.6(CGS).

15 eiPKPZ 21 50 58.0 (C) SP;LP;
 ei(sPKP)Z 51 10.7 SP;LP;
 eiPPZ 53 06 LP;
 ei Z 54 14 LP;
 ei(PKS)E 54 28 LP;
 ei Z 54 39 LP;
 i SKKSE 59 54 LP;
 ei E 22 04 34 LP;
 ei E 05 56 LP;
 ei N 10 03 LP;
 ei(sSS)N 10 32 LP;

D=127.9°

USCGS:

H: 21 31 51.5; 28.7 S; 71.2 W;
 NEAR COAST OF CENTRAL CHILE.
 h: 15 Km.
 Mag: 6.2(CGS), 6-6/4(PAS), 5.7
 (BRK), 6-6/4(GOL).

16 e PZ 02 27 16 SP;
 e Z 27 23 SP;
 e PPZ 27 49 SP;

D=33°

USCGS:

H: 02 22 03 ; 15.1 N; 39.8 E;
 ETHIOPIA.
 h: 33 Km.
 Mag: 5.1(CGS).

17 e PZ 05 10 26 LP;
 i pPZ 10 36 LP;
 i SNE 19 58 LP;
 (SKS
 ei(PS E 20 23 LP;
 (ScS

i Z 20 52 LP;
 ei ZNE 24 20 LP;

D=73.2°

USCGS:

H: 04 58 56.8; 28.5 N; 43.8 W;
 NORTH ATLANTIC RIDGE.
 h: 33 Km.
 Mag: 5.2(CGS), 6(PAS), 5.5-5.7(BRK).

18 e PZ 00 46 20 SP;
 18 e PZ 01 17 54 SP;
 18 e PZ 02 35 54 SP;LP;
 i(S)NE 39 32 LP;
 ei N 41 12 LP;
 ei NE 42 39 LP;
 ei NE 44 31 LP;

D=18.8°

USCGS:

H: 02 31 35.4; 35.2 N; 23.1 E;
 CRETE.
 h: 43 Km.
 Mag: 4.5(CGS).

18 e PZ 15 18 08 SP;
 e SZNE 18 15.5 SP;
 19 i PZ 12 18 21.6 C SP;LP;
 ei Z 18 30 LP;
 i Z 18 35 LP;
 e SN 27 46 LP;
 eisSN 28 04 LP;
 e ScSNE 28 24 LP;

D=72.2°

USCGS:

H: 12 06 59.5; 36.4 N; 141.1 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 41 Km.
 Mag: 5.5(CGS).

19 i PKPZ 17 48 30 C LP;
 eiPPZE 50 46 LP;
 eiSKPZE 51 56 LP;
 i SSN 18 08 26 LP;

D=130.8°

USCGS:

H: 17 29 20.9; 22.6 S; 170.9 E;
 LOYALTY ISLANDS REGION.
 h: 33 Km.
 Mag: 5.2(CGS).

20 e PZ 03 15 23 SP;
 i SNE 15 28.0 SP;

20 e PZ 09 00 33 SP;
e SNE 01 06 SP;
20 e PZ 19 45(15) SP;
21 eiPZ 10 52 06.5 SP;
i SE 52 34.5 SP;
21 e PZ 15 07(29) SP;
D=8.3°

USCGS:

H: 15 04 54.7; 30.8 N; 50.4 E;
IRAN.

h: 33 Km.

Mag: 4.6(CGS).

21 eiPZ 17 09 56 (C) LP;
e NE 11 20 LP;
i PPZ 11 33 LP;
i SN 16 03 LP;
D=39.8°

USCGS:

H: 17 02 25.0; 72.7 N; 8.5 E;
NORWEGIAN SEA.

h: 33 Km.

Mag: 5.5(CGS), 5.3(GOL).

21 e PZ 21 47 24 SP;
22 e PZ 06 17 27 SP;LP;
22 e PKPZ 15 38 33 SP;LP;
eiPPZ 40 50 LP;
e pPPZ 41 04 SP;
e SKPZ 41 52 LP;
eiPKSE 42 03 SP;LP;
i Z 42 08 SP;LP;
ei N 58 30 LP;
D=130.8°

USCGS:

H: 15 19 26.8; 22.7 S; 170.9 E;
LOYALTY ISLANDS REGION.

h: 42 Km.

Mag: 5.2(CGS), 6.1-6.3(BRK), 5.4-6(GOL).

23 eiPZ 08 41 05 C LP;
ii Z 41 08.6 C LP;
iiSN 45 21 LP;
i SNE 45 35 SP;
D=24.0°

USCGS:

H: 08 35 49.5; 14.5 N; 52.1 E;
EASTERN GULF OF ADEN.

h: 3 Km.

Mag: 6.4-7(PAS), 6.4-7(GOL).

23 eiPZ 13 50 24 (D) LP;
i pPZ 50 35 LP;
eil Z 51 04 LP;
eiPPZ 52 14 LP;
eipPPZ 52 22.5 SP;
ei Z 52 42 LP;
eiPPPZ 53 01 LP;
i SE 57 13 LP;
i SSE 14 00 22 LP;
D=46.2°

USCGS:

H: 13 42 01.6; 80.2 N; 1.0 W;
NORTH OF SVALBARD.

h: 10 Km.

Mag: 5.8(CGS), 6.4(PAS), 6.4-7(GOL).

24 e PZ 00 52(36) SP;
24 e PZ 18 58 46 SP;
eiPcPZ 58 55.8 SP;
D=79.0°

USCGS:

H: 18 46 53 ; 5.9 N; 126.5 E;
MINDONAO, PHILIPPINE ISLANDS.

h: 111 Km.

Mag: 5.1(CGS).

25 eiPZ 16 07 01 (C) LP;
e(S)NE 11 20 LP;
D=24.3°

USCGS:

H: 16 01 46.1; 14.6 N; 52.1 E;
EASTERN GULF OF ADEN.

h: 39 Km.

Mag: 4.8(CGS).

25 i PZ 20 52 11.8 D SP;
eiSNE 52 37.0 SP;
26 i PZ 00 19 11 C LP;
e(P)Z 21 37 SP;LP;
e SN 28(08) LP;
D=68.5°

USCGS:

H: 00 08 09.8; 28.6 N; 130.0 E;
RYUKYU ISLANDS.

h: 33 Km.

Mag: 5.7(CGS).

26 eiPZ 03 05 44.2 C SP;LP;
i(PcP)Z 05 52.8 SP;
i sPZ 06 16.0 SP;
i(S)ZNE 15 18.0 SP;LP;
ei(SKS)ZE 15 35 LP;

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(cont.)

D=77.2°

USCGS:

H: 02 53 57.8; 8.1 S; 112.9 E;
 JAVA.
 h: 80 Km.
 Mag: 5.7(CGS).

26 e PZ 03 29 29 SP;

D=20.2°

USCGS:

H: 03 24 57 ; 39.4 N; 20.4 E;
 GREECE-ALBANIA BORDER REGION.
 h: 44 Km.
 Mag: 4.6(CGS).

26 i PZ 08 23 40 C LP;
 i(PP)ZN 26 54 LP;
 eiSN 34 04 LP;

D=85.0°

USCGS:

H: 08 11 06.3; 56.6 N; 152.2 W;
 KODIAK ISLANDS REGION.
 h: 28 Km.
 Mag: 4.9(CGS), 5-5/4(GOL).

26 e PZ 11 05 54 LP;
 (S NE 16 14 LP;
 (SKS

D=84.4°

USCGS:

H: 10 53 21.9; 1.9 S; 127.8 E;
 HALMAHERA.
 h: 8 Km.
 Mag: 5.5(CGS).

27 e(P)Z 00 07 05 SP;

27 e PKPZ 08 38(10) LP;
 e PPZ 41 14 LP;
 e SKPZ 41 53 LP;

D=141.3°

USCGS:

H: 08 18 42.4; 21.3 S; 174.3 W;
 TONGA ISLANDS.
 h: 33 Km.
 Mag: 5.4(CGS), 5.3-5.5(BRK).

27 e PZ 13 09 34 LP;
 e PPZ 10 08 SP;
 eiSNE 14 02 LP;
 e SSSE 15 06 LP;

D=24.3°

USCGS:

H: 13 04 16 ; 14.1 N; 52.0 E;
 EASTERN GULF OF ADEN.
 h: 33 Km.
 Mag: 5.1(CGS).

27 e PZ 20 27 10 SP;
 e pPZ 27 20 SP;LP;
 e sPZ 27 25 SP;

D=53.7°

USCGS:

H: 20 17 49 ; 12.6 S; 66.4 E;
 MID-INDIAN RISE.
 h: 33 Km.
 Mag: 5.1(CGS).

27 e PZ 21 12 42 SP;
 e Z 12 48 SP;
 e Z 12 54 SP;LP;

D=53.8°

USCGS:

H: 21 03 20.4; 12.7 S; 66.4 E;
 MID-INDIAN RISE.
 h: 33 Km.
 Mag: 4.8(CGS).

27 e PZ 21 49 06 SP;
 28 i PZ 02 47 36.5 C SP;LP;
 e PcPZ 48 03 SP;
 e pPZ 48 09 SP;
 i sPZ 48 22.0 SP;LP;
 i PPZ 50 08 LP;
 eiSNE 56 22 LP;
 e PSE 57 01 LP;
 i (SKS NE 57 15 LP;
 i (ScS

D=67°

USCGS:

H: 02 36 54.1; 32.1 N; 130.8 E;
 KYUSHU, JAPAN.
 h: 125 Km.
 Mag: 5.6(CGS), 5-5.2(BRK).

29 e PZ 04 00 45 SP;
 29 eiPZ 17 59 08.5 SP;
 i SNE 59 27.0 SP;
 30 i PZ 07 28 26.6 D SP;LP;
 i SZ 32 08 LP;

D=20.2°

USCGS:

H: 07 23 51.5; 41.5 N; 20.5 E;
 ALBANIA.

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(cont.)

h: 29 Km.

Mag: 6.0(CGS), 6½(PAS), 6.6-6.8
(BRK), 6¾(PAL), 6½-6¾(GOL).

30 i?Z 16 08 32.0 C SP;LP;
ei Z 08 39 SP;
e Z 08 52 LP;

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1 iiPZ 14 08 15.5 C SP;LP;
 i PcPZ 08 33 SP;LP;
 i pPZ 08 47.5 SP;LP;
 i sPZ 09 05.2 SP;
 eiPPZ 10 58 SP;LP;
 eipPPZ 11 27 LP;
 eiPPPZ 12 40 LP;
 i SNE 17 24.0 LP;
 ii(SKS^{NE} 18 09.0 SP;LP;
 (ScS

D=72.4°

USCGS:

H: 13 57 02.4; 49.5 N; 154.4 E;
 KURILE ISLANDS.
 h: 136 Km.
 Mag: 5.9(CGS), 5.4-5.6(BRK), 6¼(GOL)

1 eiPZ 16 47 54.5 SP;
 1 e PZ 19 31 48 SP;
 i SNE 32 24.4 SP;
 2 e PZ 00 28 54 SP;

D=20.4°

USCGS:

H: 00 24 16 ; 41.3 N; 20.6 E;
 ALBANIA.
 h: 29 Km.
 Mag: 5.1(CGS).

2 eiPPZ 00 50 55 C LP;
 D=113.8°

USCGS:

H: 00 31 18.9; 24.1 N; 108.6 W;
 GULF OF CALIFORNIA.
 h: 33 Km.
 Mag: 5.1(CGS), 5.8-6.0(BRK), 6
 (PAL), 4¾-5(GOL).

2 eiPZ 12 49 21.5 (C) SP;LP;
 eiSNE 53 08 LP;
 D=20.3°

USCGS:

H: 12 44 42.7; 41.3 N; 20.3 E;
 ALBANIA.
 h: 17 Km.
 Mag: 5.4(CGS).

2 e PZ 20 15 12 SP;
 D=53.1°

USCGS:

H: 20 05 52.4; 37.8 N; 115.2 E;
 NORTHERN CHINA.
 h: 13 Km.
 Mag: 5.2(CGS).

4 e PZ 15 40 03 SP;
 D=20.0°

USCGS:

H: 15 35 34.2; 36.1 N; 71.2 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 143 Km.
 Mag: 4.9(CGS).

4 e PZ 21 49 17 SP;
 D=39°

USCGS:

H: 21 41 50.9; 2.8 N; 65.1 E;
 CARLSBERG RIDGE.
 h: 33 Km.
 Mag: 4.9(CGS).

4 eiPZ 22 31 09.5 SP;
 D=84.7°

USCGS:

H: 22 18 41.0; 51.6 N; 173.5 W;
 ANDREANOF ISLANDS, ALEUTIAN IS.
 h: 50 Km.
 Mag: 4.7(CGS).

5 e PZ 02 47 15 SP;
 i SNE 47 32.2 SP;

5 e PZ 03 21 32 SP;
 i SNE 21 49.5 SP;

5 e PZ 09 17 42 SP;
 D=84.3°

USCGS:

H: 09 05 13.1; 51.6 N; 173.4 W;
 ANDREANOF ISLANDS, ALEUTIAN IS.
 h: 36 Km.
 Mag: 5.3(CGS).

6 ei(P)Z 03 13 46.4 SP;

6 e PZ 04 51 54 SP;
 D=67°

USCGS:

H: 04 41 08.6; 4.2 S; 103.0 E;
 SOUTHERN SUMATRA.
 h: 81 Km.
 Mag: 5.4(CGS).

6 e PKPZ 05 21 55 SP;
 e PPZ 24 45 SP;

D=136.1°

USCGS:

H: 05 03 40.8; 21.3 S; 178.8 E;
 FIJI ISLANDS REGION.



h: 559 Km.

Mag; 5.1(CGS).

8 e PZ 05 54 54 SP;

D=82°

USCGS:

H; 05 42 36.2 ; 0.5 N; 126.2 E;
MOLUCCA PASSAGE.

h; 36 Km.

Mag: 5.3(CGS).

6 ci PZ 22 29 59.3 SP;
e SN 36 16 LP;
e ScSNE 39 56 LP;
eiSSSNE 40 23 LP;

D=43.6°

USCGS:

H: 22 21 56.8; 1.2 S; 67.5 E;
CARLSBERG RIDGE.

h: 33 Km.

Mag: 5.5(CGS).

7 e PKPZ 10 08 17 SP;

D=123.5°

USCGS:

H: 09 49 37.0; 14.6 S; 167.3 E;
NEW HEBRIDIS ISLANDS.

h: 151 Km.

Mag: 5.3(CGS).

7 e PZ 20 47 30 SP;

8 e PZ 06 09 32 SP;

i (PP)E 10 07.4 SP;

D=25.6°

USCGS:

H: 06 03 57.1; 49.8 N; 78.2 E;
EASTERN KAZAKH SSR.

h: 0 Km.

Mag: 5.4(CGS).

9 e PZ 05 00 32 SP;

D=19.6°

USCGS:

H: 04 56 14.3; 36.3 N; 70.8 E;
HINDU KUSH REGION.

h: 225 Km.

Mag: 4.8(CGS).

9 eiPPZ 11 10 55 LP;

ei Z 20 41 LP;

D=119°

USCGS:

H: 10 50 46.6; 10.9 S; 164.2 E;
SANTA CRUZ ISLANDS REGION.

h: 33 Km.

Mag: 5.5(CGS).

9 e PZ 14 28 51 SP;

9 e PZ 22 23 50 SP;

10 e PZ 10 54 22 SP;

D= 6.0°

USCGS:

H: 10 52 52.1; 36.0 N; 53.6 E;
IRAN.

h: 51 Km.

Mag: 5.0(CGS).

10 e PZ 12 20(40) LP;

eiPPZ 24 56 (D) LP;

e PPPZ 27 18 LP;

e SKSN 31 26 LP;

e SN 32 09 LP;

e PSN 34 00 LP;

eiSPPZ 34 48 LP;

e SSNE 39 30 LP;

D=101.4°

USCGS:

H: 12 06 50.3; 40.5 N; 124.6 W;
NEAR COAST OF NORTHERN CALIF.

h; 5 Km.

Mag: 5.8(CGS), 5 5/8-5 1/2(PAS), 5.5-
5.7(BRK), 5 1/4-5 1/2(GOL), 5 1/4-6(PAL).

10 eiPZ 18 51 31.8 (C) SP;

e pPZ 52 05 SP;LP;

i PcPZ 53 12.6 SP;

eiScPZ 56 49.8 SP;

e SNE 57 55 SP;LP;

D= 14.5°

USCGS:

H: 19 43 34.4; 22.5 N; 94.8 E;
BURMA.

h: 158 Km.

Mag: 5.2(CGS).

10 iiPZ 22 57 47.9 D SP;LP;

i PPZ 58 52.0 SP;LP;

i Z 59 28.5 SP;

eiPcPZ 23 00 39.0 SP;

i ZE 02 23.0 SP;LP;

i SNE 03 02.8 SP;LP;

i sSE 03 12.4 SP;

D=31.8°

(cont.)

(cont.)

USCGS:

H: 22 51 24.3; 17.7 N; 73.9 E;
INDIA.
h: 33 Km.
Mag: 6.0(CGS), 6½(PAS), 6.4-6.6
(BRK), 6¼-6½(GOL).

11 e PZ 19 10 23 SP;LP;
e Z 14 49 LP;
e SNE 14 54 LP;
e sSN 15 05 LP;
D=25°

USCGS:

H: 19 05 02 ; 14.9 N; 56.0 E;
ARABIAN SEA.
h: 33 Km.
Mag: 4.5(CGS).

11 e PZ 19 54 06 (C) SP;LP;
e PPZ 54 33 SP;LP;
eiSNE 58 30 LP;
D=25°

USCGS:

H: 19 48 43.3; 13.7 N; 51.6 E;
EASTERN GOLF OF ADEN.
h: 33 Km.
Mag: 5.2(CGS).

11 i PZ 22 35 40.5 C SP;LP;
i pPZ 35 46 LP;
ei(PP)Z 36 07.0 SP;
e sPPZ 36 19 SP;
i SZN 40 02 LP;
i (sS)ZNE 40 11 LP;
i SSSSE 41 33 LP;
i PeSE 43 03 LP;
D=25°

USCGS:

H: 22 30 18.3; 13.6 N; 51.6 E;
EASTERN GOLF OF ADEN.
h: 33 Km.
Mag: 5.6(CGS).

12 e PZ 03 29 25 (D) LP;
e PPZN 30 44 LP;
e SN 35 03 LP;
D=35.3°

USCGS:

H: 03 22 32 ; 5.7 N; 61.5 E;
CARSBURG RIDGE.
h: 33 Km.
Mag:

12 e PKPZ 08 25 22 LP;
e PPZ 27 43 LP;
e SKPZ 28 53 SP;LP;
ei N 45 26 LP;
D=130.6°

USCGS:

H: 08 06 16.7; 22.7 S; 171.1 E;
LOYALTY ISLANDS REGION.
h: 39 Km.
Mag: 4.9(CGS), 5.5-5.9(BRK).

12 e PZ 14 39 36 LP;
12 e PZ 15 55 22 LP;
12 e PZ 19 52 24 SP;
13 i PZ 10 49 38.5 C SP;LP;
ei Z 49 42.5 SP;
eipPZ 50 02.5 SP;
ei Z 50 18.0 SP;
ei Z 51 21.5 SP;
eiPSNE 59 24 LP;
D=72.5°

USCGS:

H: 10 38 23.4; 47.6 N; 152.6 E;
KURILE ISLANDS.
h: 124 Km.
Mag: 5.5(CGS).

13 eiPKPZ 19 26 15.3 D SP;
D=126.9°

USCGS:

H: 19 07 14.4; 19.1 S; 168.7 E;
NEW HEBRIDES ISLANDS.
h: 51 Km.
Mag: 5.7(CGS), 5.4-5.8(BRK).

14 i PZ 02 25 46 C LP;
ei Z 26 46 LP;
eiSNE 30 09 LP;
ei ZE 31 06 LP;
D=24.5°

USCGS:

H: 02 20 27.9; 14.3 N; 53.7 E;
ARABIAN SEA.
h: 33 Km.
Mag: 4.9(CGS).

14 e PZ 02 58 49 SP;
e SN 03 02 02 LP;
D=17.2°

USCGS:

(cont.)

(cont.)

H: 02 54 47.6; 34.4 N; 26.2 E;
CRETE.

h: 7 Km.

Mag: 4.5(CGS).

14 e PZ 18 37 02 SP;
D=67.2°

USCGS:

H: 18 25 16.6; 54.6 N; 160.4 E;
NEAR EAST COAST OF KAMCHATKA.

h: 33 Km.

Mag: 5.5(CGS).

14 e PZ 22 07 22 SP;
e pPZ 07 33 SP;
eisPZ 07 39 SP;
D=46.6°

USCGS:

H: 21 58 55 ; 4.0 S; 68.4 E;
CHAGOS ARCHIPELAGO REGION.

h: 33 Km.

Mag: 4.9(CGS).

15 e PKPZ 20 06 33 SP;
ei Z 07 27.5 SP;
D=142.6°

USCGS:

H: 19 47 13.5; 29.1 S; 177.6 W;
KIRMADEC ISLANDS REGION.

h: 61 Km.

Mag: 5.3(CGS).

16 i PZ 21 05 27.0 C SP;LP;
e PcPZ 05 43 LP;
e PPZ 08 10 LP;
e Z 10 10 LP;
e Z 11 16 LP;
eiSNE 14 44 LP;
e PKPPKPZ 33 12 SP;
D=73°

USCGS:

H: 20 53 58.3; 51.2 N; 157.7 E;
NEAR COAST OF KAMCHATKA.

h: 24 Km.

Mag: 5.5(CGS).

17 eiPZ 00 29 45.0 D SP;LP;
i Z 29 51.5 SP;
i SN 33 29 LP;
D=20.2°

USCGS:

H: 00 25 15.1; 36.5 N; 71.4 E;
AFGHANISTAN*USSR BORDER REGION.

h: 82 Km.

Mag: 5.2(CGS).

18 e PZ 14 16 42 SP;LP;
eipPZ 16 53.3 SP;
D=51.0°

USCGS:

H: 14 07 40 ; 36.2 N; 111.7 E;
EASTERN CHINA.

h: 33 Km.

Mag: 4.9(CGS).

18 e PZ 14 17 14 SP;LP;
D=88.2°

USCGS:

H: 14 04 19.5; 12.1 N; 143.6 E;
SOUTH OF MARIAHA ISLANDS.

h: 12 Km.

Mag: 5.5(CGS).

18 eiPZ 22 50 37.8 (C) SP;
i PPPZ 50 51.4 SP;
i SN 51 27.0 SP;
D=4.7°

USCGS:

H: 22 49 27.6; 33.6 N; 46.9 E;
IRAN*IRAG BORDER REGION.

h: 39 Km.

Mag: 5.0(CGS).

19 e PZ 00 50 07 SP;
19 e PZ 02 06 47 SP;
19 eiPZ 03 28 22.1 (C) SP;LP;
eiPPPZ 29 02.1 SP;
e sPPPZ 29 27 SP;
e SNE 32 05 SP;
D=20.5°

USCGS:

H: 03 23 49.6; 37.5 N; 72.0 E;
TADZHIK SSR.

h: 89 Km.

Mag: 5.5(CGS).

20 i PZ 00 20 00.1 C SP;
i SN 20 26.5 SP;
20 e PZ 01 46 19 SP;
20 e PZ 11 43 23 SP;LP;
eiPPPZ 45 16 LP;
e E 50 13 LP;
e SSN 54 03 LP;

(cont.)

(cont.)

D=50.7°

USCGS:

H: 11 34 25.9; 11.8 N; 93.0 E;
ANDAMAN ISLANDS REGION.

h: 61 Km.

Mag: 5.4(CGS).

20 e PZ 23 02 06 SP;

21 e PZ 00 14 15 SP;

D=20.2°

USCGS:

H: 00 09 39.0; 42.1 N; 20.7 E;
YUGOSLAVIA.

h: 19 Km.

Mag: 4.7(CGS).

21 eiPZ 02 40 56 C LP;

e PKPZ 44 16 SP;

i Z 44 21.6 SP;LP;

i Z 44 31.5 SP;

ei Z 44 42.5 SP;

i Z 45 33.6 SP;

ei Z 45 51.0 SP;

ei Z 46 01 SP;LP;

ei Z 54 24 SP;

eiScSPZ 55 25.8 SP;

D=123.6°

USCGS:

H: 02 25 21.6; 21.8 S; 70.0 W;
NEAR COAST OF NORTHERN CHILE.

h: 33 Km.

Mag: 6.3(CGS), 7.0(PAS), 7.0-7.3
(BRK), 7½(PAL), 7.0(GOL).

21 e PZ 17 16 01 SP;

21 e PKPZ 18 05 22 SP;

e Z 05 57 SP;

D=142.5°

USCGS:

H: 17 45 54.4; 31.7 S; 179.1 W;
KERMADEC ISLANDS.

h: 23 Km.

Mag: 5.1(CGS).

21 e PZ 23 52 14 SP;

e Z 54 14 LP;

D=51°

USCGS:

H: 23 43 11.4; 11.8N ; 93.1 E;
ANDMAN ISLANDS REGION.

h: 33 Km.

Mag: 5.0(CGS).

22 e PKPZ 23 28 29 SP;

D=143.0°

USCGS:

H: 23 08 58.0; 29.9 S; 177.4 W;
KERMADEC ISLANDS REGION.

h: 22 Km.

Mag: 5.4(CGS), 5.5-5.8(BRK).

23 e PPZ 13 41 44 LP;

D=105.6°

USCGS:

H: 13 23 15.0; 5.2 S; 151.8 E;
NEW BRITAIN REGION.

h: 61 Km.

Mag: 5.5(CGS), 5.7-6.1(BRK).

23 e PZ 16 16 15 SP;

D=74.5°

USCGS:

H: 16 04 37.9; 48.2 N; 157.3 E;
KURILE ISLANDS REGION.

h: 26 Km.

Mag: 5.1(CGS).

23 e PZ 17 26 24 SP;

24 e PZ 01 48 53 SP;

eiSNE 49 08.5 SP;

24 e PZ 04 29 49 SP;LP;

e PPZ 31 24 SP;LP;

e SE 35 53 LP;

D=41.7°

USCGS:

H: 04 22 01.2; 71.9 N; 0.9 W;
JAN MAYEN ISLANDS REGION.

h: 33 Km.

Mag: 5.0(CGS).

24 e PZ 08 44 42 (C) SP;LP;

e Z 48 48 LP;

e SN 53 18 LP;

D=63.3°

USCGS:

H: 08 34 13.5; 54.5 N; 142.5 E;
SAKHALIN ISLANDS.

h: 33 Km.

Mag: 5.0(CGS).

24 e PZ 13 16 58 SP;

e SNE 17 23.6 SP;

24 e PZ 20 16 22 SP;

i Z 16 26.1 D SP;LP;

(cont.)

e PPZ 20 04 LP;
 eiPPPZ 22 05 LP;
 i SKSNE 26 56.0 LP;
 i E 27 29.0 LP;
 i PSNE 28 46 LP;
 i(SS)N 33 22 LP;
 i N 33 58 LP;

D=92.5°

USCGS:

H: 20 03 10.9; 17.4 N; 61.1 W;
 LEEWARD ISLANDS.
 h: 24 Km.
 Mag: 6.4(CGS), 6¼-7(PAS), 6.3-6.5
 (BRK), 6½(GOL).

24 eiPZ 21 45 44.2 D SP;LP;

D=92.5°

USCGS:

H: 21 32 31.3; 17.4 N; 61.3 W;
 LEEWARD ISLANDS.
 h: 20 Km.
 Mag: 5.9(CGS), 6½(PAS), 5.6-6.0
 (BRK).

25 i PZ 01 37 45.2 C SP;LP;
 i Z 38 01.8 SP;
 i PPZ 42 13 LP;
 eiSKSE 48 13 LP;
 eiSKKSNE 49 05 LP;
 i PSE 51 27 LP;

D=107°

USCGS:

H: 01 23 33.6; 5.3 S; 153.7 E;
 NEW IRELAND REGION.
 h: 64 Km.
 Mag: 6¼-7(PAS), 6.8-7.2(BRK), 7¼
 (GOL).

25 e PKPZ 11 00 23 SP;LP;
 e pPKPZ 00 38 SP;LP;
 e PPZ 02 10 SP;LP;
 e Z 03 28 LP;
 e Z 04 42 LP;
 e SKSE 07 21 LP;
 e E 07 49 LP;
 eiSKKSE 09 05 LP;
 ei Z 12 06 LP;

D=123.7°

USCGS:

H: 10 41 31.6; 21.5 S; 70.4 W;
 NEAR COAST OF NORTHERN CHILE.
 h: 53 Km.
 Mag: 5.8(CGS), 6¼(PAS), 5.8-6.2
 (BRK), 5½-5¾(GOL).

25 e PZ 17 26 27 SP;LP;
 e(PS)N 37 16 LP;

D=80.8°

USCGS:

H: 17 14 14.9; 37.7 S; 77.9 E;
 MID-INDIAN RISE.
 h: 33 Km.
 Mag: 5.2(CGS).

26 e PZ 09 06 52 LP;
 e Z 11 10 LP;
 eiPPZ 11 23 LP;
 eiSPZ 20 37 LP;

D=107.5°

USCGS:

H: 08 52 42.3; 5.1 S; 153.7 E;
 NEW IRELAND REGION.
 h: 59 Km.
 Mag: 5.2(CGS).

26 e PZ 18 59 54 SP;
 eiSNE 19 00 07.3 SP;

27 e PZ 09 33 02 LP;
 e Z 33 37 LP;
 eiPKPZ 36 35.3 (D) SP;LP;
 e Z 36 52 SP;
 e pPKPZ 37 08 LP;
 e PPZ 38 14 SP;
 i Z 38 35 LP;
 e Z 39 16 SP;LP;
 ei Z 39 27 SP;LP;
 ei Z 39 47 LP;
 e SKPZ 40 03 LP;
 i SKSE 43 27 LP;
 i SKKSE 44 56 LP;
 i Z 47 30 LP;
 i ZE 48 02 LP;

D=121.9°

USCGS:

H: 09 17 55.7; 21.2 S; 68.3 W;
 CHILE-BOLIVIA BORDER REGION.
 h: 135 Km.
 Mag: 6.4(CGS), 7(PAS), 6.6-7.0(BKS).

27 eiPKPZ 16 42 16.0 (C) SP;LP;
 ei Z 44 12.0 SP;LP;
 i PPZ 45 25 LP;
 ei(PPP)Z 48 17 LP;
 eiPcPKPZ 54 18 LP;
 ei(SKSP)Z 55 32 LP;
 ei Z 57 56 LP;
 i PPPPZ 17 00 57 LP;
 eisSSE 04 02 LP;
 i SSSE 09 50 LP;

(cont.)

D=141.5°

USCGS:

H: 16 22 48.5; 22.3 S; 174.8 W;
TONGA ISLANDS REGION.

h: 33 Km.

Mag: 6.1(CGS), 6(PAS), 6.2(BRK).

27	eiPZ	17 48 46.4	SP;
	eiSNE	49 06.2	SP;
28	e PZ	06 39(50)	LP;
	eiPPZ	43 46	LP;
	e SKSZN	50 26	LP;
	e ScSE	51 16	LP;
	e SSE	58 08	LP;

D=97.9°

USCGS:

H: 06 26 15.8; 44.2 N; 128.8 W;
OFF COAST OF OREGON.

h: 33 Km.

Mag: 5.4(CGS), 5.6-6.1(BRK), 5-5½
(GOL).

28	e PZ	16 48 33	SP;
28	e PZ	20 20 17	SP;
29	e PZ	00 11 35	SP;
29	e PZ	01 51 41	SP;
29	e PZ	19 20 25	SP;
	i SNE	20 54.2	SP;
29	eiPZ	19 53 58.5	SP;
	e SN	57 46	LP;
	e SSN	58 06	LP;

D=20°

USCGS:

H: 19 49 23.6; 41.5 N; 20.4 E;
ALBANIA.

h: 39 Km.

Mag: 4.7(CGS).

29	e PKPZ	20 48 58	SP;LP;
	eiPPZ	52 03	LP;
	ei Z	21 02 19	LP;
	e Z	04 36	LP;
	e Z	11 33	LP;

D=142.3°

USCGS:

H: 20 29 32.2; 22.8 S; 175.3 W;
TONGA ISLANDS REGION.

h: 30 Km.

Mag: 5.3(CGS), 5.4-5.8(BRK), 5½
(GOL).

29 e (P)Z 22 42 31 SP;

30 e PZ 00 19 23 (C) SP;LP;

D=80.3°

USCGS:

H: 00 07 13 ; 3.1 N; 126.5 E;
TALAUD ISLANDS.

h: 33 Km.

Mag: 5.2(CGS).

30	e PZ	04 24 58	SP;LP;
	e SNE	29 31	LP;
	eiSSE	29 47	LP;

D=26.3°

USCGS:

H: 04 19 21.2; 44.7 N; 12.2 E;
NORTHERN ITALY.

h: 33 Km.

Mag: 5.3(CGS).

30	i PZ	08 57 38.7	C SP;
	i SNE	57 41.5	SP;

30	e PZ	13 27 25	SP;
	eiSNE	27 36.5	SP;

30	eiPZ	21 31 46.8	SP;
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D=19.5°

USCGS:

H: 21 27 21 ; 40.7 N; 21.6 E;
GREECE.

h: 53 Km.

Mag: 4.3(CGS).

31	e PZ	03 29 47	SP;
	i(S)NE	31 09.8	SP;

31	e PPZ	15 24 30	SP;LP;
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D=109.1°

USCGS:

H: 15 05 32.3; 7.1 S; 154.8 E;
SOLOMON ISLANDS.

h: 19 Km.

Mag: 5.4(CGS).

31	e PZ	18 14 42	SP;
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DECEMBER 1968

M.S.Nabavi

A.Enzabi

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side of the document. The text is arranged in several columns and appears to be a technical or scientific report.]