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No. 82 Jan.–Dec. 1961

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

Instruments

Galitzin-Wilip. N, E, and Z. $T_p = T_g = 12^1/_2$ sec., $\mu^2 = 0$, $\frac{Ak}{\pi l} = 260$ sec.$^{-1}$ or V_{max} = abt. 1000.

Benioff. Z'. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, V_{max} = abt. 30 000.

Wiechert 1000 kg. N and E. $T = 8^1/_2$ sec, $v = 6{:}1$, $\varrho = 0.3$ mm, $V_0 = 210$.

Wiechert 1300 kg. Z. $T = 6$ sec, $v = 4{:}1$, $\varrho = 0.3$ mm, $V_0 = 150$.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often those given by BCIS or USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. C means compression and D dilatation. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments. Magnitudes have been computed from the following formulas:

$$M = 1.6\left(3.9 + \log\left(\frac{A}{T}\right)_{PZ} + \frac{\Delta}{200}\right), \quad 20° < \Delta < 90°.$$

$$M = 2.1 + \log A_H^{20} + 1.66 \cdot \log \Delta, \quad 15° < \Delta < 130°$$

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København 1961

January.

2	$iPKP \cdot Z'Z$	$10^h30^m59^s$	C	
	$iPKS \cdot Z'Z$	34 20		
	$eSKSP \cdot N$	43.0		
	$eL \cdot N$	11 (14)		
	$\Delta = 132°$. $h = 161$ km. Santa Cruz Islands. $H = 10\ 11\ 56.9$.			
5	$iP \cdot Z'$	14 17 57	C	
	$e(PS) \cdot NE$	27 41	Wiechert.	
	$e(PPS) \cdot E$	28 16	–	
	$e(SS) \cdot E$	32 23	–	
	$eL \cdot NE$	42	–	
	$\Delta = 73°$. $h = 37$ km. Andreanof Islands. $H = 14\ 06\ 25.9$.			
5	$eiPKP \cdot Z'$	18 17 14		
	$ePP \cdot N$	20 25	Wiechert	
	$eL \cdot NE$	19 10	–	
	$\Delta = 142°$. $h = 123$ km. Loyalty Islands. $H = 17\ 57\ 56.6$.			
5	$eiPKP \cdot Z'$	18 34 00		
	$\Delta = 141°$. $h = 124$ km. Loyalty Islands. $H = 18\ 14\ 43$.			
7	$eiP \cdot Z'$	10 35 43		
	$\Delta = 22°$. $h = 127$ km. Crete. $H = 10\ 30\ 58.0$.			
7	$iP \cdot Z'$	15 57 16		
	$e \cdot Z$	16 02 28		
	$e \cdot Z$	04 19		
	$e(PcS) \cdot N$	05 21		
	$e \cdot Z$	05 49		
	$e(ScS) \cdot N$	08 50		
	$\Delta = 19°$. $h = 22$ km. Ionian Islands. $H = 15\ 52\ 54.0$.			
10	$iP \cdot Z'$	14 33 32		
	$e(PPP) \cdot Z$	37 53		
	$eS \cdot N$	42 34		
	$e(SKS) \cdot NE$	43 32		
	$e \cdot N$	48 09		
	$e \cdot Z$	50 (45)		
	$e \cdot Z$	51 29		
	$eR \cdot N$	57.8		
	$eR \cdot E$	15 01.5		
	$M \cdot ZN$	08.0	N: 50 μ.	
	$M \cdot E$	08.5	52 μ.	
	$F \cdot N$	59		
	$\Delta = 70°$. $h = 29$ km. Kurile Islands. $H = 14\ 22\ 18.2$. $M(L) = 7.0$ (COP).			
11	$iP \cdot Z$	12 11 23		
	$e(S) \cdot N$	21 00		
	$e(PS) \cdot ZN$	21 29		
	$e(PPS) \cdot N$	21 45		
	$e \cdot Z$	44 53		
	$\Delta = 73°$. $h = 47$ km. Fox Islands. $H = 11\ 59\ 55.0$.			
14	$iP \cdot Z'$	16 50 13	Confused by microseisms.	
	$\Delta = 71°$. $h = 41$ km. Unimak Island.			

January.

16	$iP \cdot Z'$	$07^h32^m13^s$	
	$iP \cdot Z$	32 14	C
	$iPcP \cdot Z$	32 21	
	$i(sP) \cdot Z$	33 00	
	$i(PP) \cdot E$	35 09	
	$ePPP \cdot Z$	37 03	
	$e(S) \cdot E$	42 08	
	$iScS \cdot N$	42 13	
	$ipS \cdot N$	42 31	
	$i(SP) \cdot E$	42 47	
	$e(SPP) \cdot E$	43 04	
	$i(sPS) \cdot E$	43 31	
	$e(SS) \cdot N$	47 15	
	$isSS \cdot Z$	47 33	
	$e(SSS) \cdot N$	51 04	
	$e \cdot Z$	51 57	
	$e \cdot Z$	52 18	
	$e(Q) \cdot Z$	55.1	
	$e \cdot Z$	56.9	
	$e(R) \cdot N$	57.7	
	$e \cdot Z$	58.4	
	$i \cdot Z$	08 01 30	
	$e(SKPP') \cdot Z$	02 33	
	$e \cdot ZN$	03 25	
	$e \cdot Z$	03 56	
	$e(R) \cdot Z$	05.2	
	$M \cdot E$	10	E: 9^s, 105 μ.
	$M \cdot ZN$	11	N: 9^s, 66 μ.
	$\Delta = 79°$. $h = 131$ km. Honshu. $H = 07\ 20\ 18.6$. $M(L) = 7.2$ (COP).		
16	$eiP \cdot Z'$	11 31 39	
	$i(PcP) \cdot Z'$	31 $50^1/_2$	
	$i \cdot Z'$	31 $52^1/_2$	
	$i \cdot Z'$	32 00	
	$e \cdot N$	32 59	
	$ePP \cdot N$	34 33	
	$ePPP \cdot Z$	36 11	
	$e \cdot N$	36 57	
	$e(S) \cdot N$	40 15	
	$e(SP) \cdot N$	42 04	
	$e(sSP) \cdot N$	42 43	
	$e(SS) \cdot N$	45 59	
	$e \cdot N$	46 23	
	$e \cdot N$	55.7	
	$e(R) \cdot N$	56.5	
	$e \cdot N$	12 00.1	
	$e \cdot E$	03.0	
	$e \cdot Z$	04.3	
	$e \cdot N$	07.9	
	$e \cdot Z$	08.3	
	$e \cdot E$	08.9	16^s.
	$e \cdot N$	10.1	16^s.
	$e \cdot Z$	20.3	
	$\Delta = 78°$. $h = 157$ km. Honshu. $H = 11\ 19\ 46.5$.		

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January.

16 *iP·Z′* 12h24m29s *C*
i!·Z′ 24 32
iPcP·Z 24 39
i·Z′ 24 44
e·Z 26 30
eiPP·Z 27 30
i·Z 27 40
eipPPP·Z 29 20
e(S)·NE 34 28
isS·E 34 46
e·Z 40 02
ei·Z 41 15
e·Z 42 50
e·Z 44.7
e·N 46.7
e·Z 47.4
e·N 52.6
i(Lg)·N 55 46
M·E 13 02 17s, 85 μ.
M·N 05½ 17s, 81 μ.
$\Delta = 78°$. $h = 105$ km. Honshu. $H = 12\ 12\ 35$.
$M(L) = 7.0$ (*COP*)

16 *eiP·Z′* 14 15 58
e(S)·E 25 19
epS·E 26 09
eL·NE (46)
$\Delta = 78°$. $h = 127$ km. Honshu. $H = 14\ 04\ 05.3$.

16 *iP·Z′* 15 53 12 *C*
i(PcP)·Z′ 53 24
i·Z′Z 53 27
i·Z′ 53 32½
i·E 53 41
i·Z′ 54 13¼
e·Z 55 05
ePP·Z 56 12
e(pPP)·Z 56 23
e(PPP)·Z 58 (02)
ipPPP·Z 58 13½
e·Z 16 01 (00)
e(S)·N 03 08
i!pS·NE 03 28½
esSS·E 08 23½
e·Z 09 40
e·E 10 13
e·Z 13.5
e(R)·E 16.6
e·E 16.8
eL·N 21
eL·ZE 30
$\Delta = 78°$. $h = 147$ km. Honshu. $H = 15\ 41\ 23.3$

19 *eL·ZNE* 18 01
M·ZNE 08 18s, *NE:* 3½ μ.
$\Delta = 71°$. $h = 31$ km. Kurile Islands. $H = 17\ 22\ 16.9$.

January.

20 *iP·Z′* 17h20m10s *D*
i·Z′ 20 17½
eS·NE 29 10
e(SKS)·N 30 12
eSS·NE 33 (40)
eR·ZN 46
M·ZN 57 19s, *N:* 6 μ, *E:* 4 μ.
$\Delta = 68°$. $h = 46$ km. Kodiak Island. $H = 17\ 09\ 15.7$.

22 *eiPKP·ZZ′* 03 43 26
e·Z′ 45 27
ePP·Z 45 40
e·Z 46 27
i(PKS)·NE 46 55
e·Z 47 28
i·NE 47 39½
i·Z 47 48
ePPP·NE 48 29
e·E 49 31
iSKS·NE 50 22
e·N 55
e·N 04 07½
eR·N 29
M·ZN 45 20s, *N:* 32 μ, *E:* 25 μ.
F·N 06 22
$\Delta = 132°$. $h = 25$ km. Santa Cruz Islands. $H = 03\ 24\ 04.5$.
$M(L) = 7.1$ (*COP*).

23 *eL·E* 05 33
$\Delta = 74°$. Hokkaido. $H = 04\ 48\ 21.4$.

26 *ePKP·Z* 16 32 (36)
e·E 35 07
ePP·Z 35 53
eL·N 17 (31)
$\Delta = 142°$. $h = 119$ km. Loyalty Islands. $H = 16\ 13\ 25.1$.

26 *eiPKP·Z′* 19 08 12
i·Z′ 08 20
$\Delta = 141°$. $h = 106$ km. Loyalty Islands. $H = 18\ 48\ 56.9$.

31 *eiP·Z′* 00 59 (35) Confused by microseisms.
eS·N 01 08 (46)
eSS·N 13 (17)
L·E (26)
$\Delta = 68°$. $h = 26$ km. Kodiak Island. $H = 00\ 48\ 36.5$.

February.

4 *iP·Z′* 09 02 21
i!pP·Z′ 02 55
($\Delta = 66°$. $h = 162$ km.) Burma. $H = 08\ 51\ 48.9$.

4 *eP·Z′* 19 21 31
e·N 30 08
e(S)·E 31 50
L·NE 52
$\Delta = 81°$. $h = 14$ km. Formosa. $H = 19\ 09\ 12.9$.

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February.

5 *eP·Z* 15h51m14s
iP·Z′ 51 14½
eS·E 16 02 (03)
Δ = 86°. *h* = 49 km. Panama. *H* = 15 38 34.0.

5 *eL·N* 19 04
Δ = 110°. Indian Ocean. *H* = 17 50 55.6.

6 *eL·ZNE* 13 01
Δ = 73°. Andreanof Islands. *H* = 12 12 26.0.

6 *eL·ZNE* 19 01
Δ = 73°. Kurile Islands. *H* = 18 15 21.6.

6 *ePKP·Z* 22 04 03
ePP·N 05 48
e·N 07 (15)
ePKS·E 07 40
e·Z 21 41½
eSS·NE 22.3
e·E 25.8
e·Z 35.7
e(Q)·N 40
Δ = 123°. *h* = 59 km. Solomon Islands. *H* = 21 45 13.5.

7 *i!P·Z′* 21 13 11½ *D*, *Z′*: ½s, ¼ μ.
Δ = 74°. *h* = 36 km. Kurile Islands. *H* = 21 01 37.3.

8 *i!PKP·Z′* 18 09 21 *D*, *Z′*: ½s, ½ μ.
iSKP·Z′ 12 13
Δ = 144°. *h* = 543 km. Tonga Islands. *H* = 17 50 45.2.

9 *ePKP·Z* 02 28 03
i!PKP·Z′ 28 09 *C*
i·Z′ 28 12½ ½s, 0.8 μ.
iPKP2·Z′ 28 17½
i(pPKP2)·Z′ 28 36
i(sPKP2)·N 28 51
ePKS·Z 31 (38)
e(PP)·Z 31 57
L·N 03 23
Δ = 152°. *h* = 37 km. Kermadec Islands. *H* = 02 08 15.9.

11 *iP·Z′* 06 24 19 *C*, *Z′*: ½, ¼ μ.
Δ = 84°. *h* = 358 km. Bonin Islands. *H* = 06 12 23.2.

11 *eiPKP·Z′* 21 20 52 1s, ¼ μ.
i!(PKP2)·Z′ 21 00 –, ½s, 1 μ.
i(pPKP)·ZZ′ 21 09
isPKP·Z′ 21 17
eL·ZN 22 17
Δ = 152°. *h* = 41 km. Kermadec Islands. *H* = 21 01 06.4.

12 *iP·ZZ′* 22 05 17 *Z*: *C*
i!Z′ 05 18 ½s, 1¾ μ.
i(pP)·Z′ 05 30
i(PcP)·Z 05 38
i(PP)·Z′ 07 59

February.

12 *i(pPP)·Z′* 22h08m15s (Con.).
e(PPP)·Z′ 10 18
e·N 10 55
e·Z 14 (30)
eS·N 14 43
e(pS)·N 15 05
e(PS)·N 15 40
eSS·Z 19 (42)
eSSS·Z 23
eL·Z 38
M·ZNE 42 17s, *Z*: 150 μ, *N*: 135 μ, *E*: 130 μ.
Δ = 74°. *h* = 45 km. Kurile Islands. *H* = 21 53 43.5.
M(*L*) = 7.0 (*COP*).

12 *Z′* 23 03 06 Onset lost in time mark.
iPcP·Z′ 03 20
Δ = 74°. *h* = 17 km. Kurile Islands. *H* = 22 51 27.7.

12 *iP·Z′* 23 24 40
e·N 35 32
Kurile Islands aftershock. *H* = 23 14.1.

12 *eiP·Z′* 23 38 08½
i·Z′ 38 12 0.4s, 0.8 μ.
iPcP·Z′ 38 26
Δ = 74°. *h* = 23 km. Kurile Islands. *H* = 23 26 34.5.

13 *eP·Z′* 00 43 29
Δ = 74°. *h* = 25 km. Kurile Islands. *H* = 00 31 51.1.

13 *i(P)·Z′* 01 39 28
Kurile Islands aftershock?

13 *iP·Z′* 02 41 39½
Δ = 74°. *h* = 18 km. Kurile Islands. *H* = 02 30 01.7.

13 *iP·Z′* 02 42 51
Δ = 74°. *h* = 60 km. Kurile Islands. *H* = 02 31 19.4.

13 *iP·Z′* 04 54 58½
Δ = 74°. *h* = 46 km. Kurile Islands. *H* = 04 43 24.6.

13 *eL·ZNE* 07 53
Δ = 141°. Tonga Islands. *H* = 06 45 25.0.

13 *iP·Z′* 09 18 33 *D*
Δ = 74°. *h* = 25 km. Kurile Islands. *H* = 09 06 55.9.

13 *iP·Z* 16 38 58 *C*
eL·E 17 08
Δ = 75°. *h* = 25 km. Kurile Islands. *H* = 16 27 20.9.

14 *iP·Z′* 00 27 10½ *D*
Δ = 74°. *h* = 92 km. Kurile Islands. *H* = 00 15 40.6.

14 *iP·Z′* 03 02 41
Δ = 74°. *h* = 98 km. Kurile Islands. *H* = 02 51 15.3.

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February.
14 *iP·Z′* 03h27m02½s
Δ = 74°. *h* = 25 km. Kurile Islands. *H* = 03 15 25.0.

14 *i!P·Z′* 03 33 37 *C*
iPcP·Z′ 33 56
i·Z′ 34 10
eL·E 04 01
Δ = 74°. *h* = 20 km. Kurile Islands. *H* = 03 22 00.7.

15 *eiP·Z′* 10 56 48
eS·N 11 06 (15)
e(SSS)·Z 14
eL·E 23
M·ZNE 33 *Z:* 17s, 28 *μ*.
Δ = 74°. *h* = 69 km. Kurile Islands. *H* = 10 45 15.9.

15 *eiP·Z′* 11 38 25
Δ = 55°. *h* = 66 km. Tibet. *H* = 11 28 55.0.

16 *eL·ZNE* 03 54
Δ = 15°. Albania. *H* = 03 44 58.8.

16 *iP·Z′* 14 06 25 *C*
eL·E 33
Δ = 75°. *h* = 71 km. Kurile Islands. *H* = 13 54 53.7.

16 *iP·Z′* 15 06 00½ *C*
Δ = 74°. *h* = 50 km. Kurile Islands. *H* = 14 54 27.7.

18 *eL·NE* 17 35
Δ = 61°. Atlantic Ocean. *H* = 17 02 10.0.

21 *iP·Z′* 03 06 33½ *C*
iPP·Z′ 06 50
Δ = 20°. *h* = 25 km. Greece. 03 01 52.6.

22 *iPKP·Z′* 22 13 25 *D*
eL·N 23 11
Δ = 152°. *h* = 66 km. Kermadec Islands. *H* = 21 53 33.8.

23 *eiP·Z′* 04 28 12
i(PcP)·Z′ 28 28
i(pP)·Z′ 28 44
eS·E 38 03
eL·N 52
eL·N 57
M·ZNE 05 04½ 15s, *N:* 8¾ *μ*, *E:* 10½ *μ*.
Δ = 76°. *h* = 116 km. Honshu. *H* = 04 16 24.3.

23 *ei(P)·Z* 21 51 (24)
eS·N 55 25
e(R)·E 58
Δ = 22°. *h* = 25 km. Dodecanese Islands. *H* = 21 45 50.5.

23 *eL·E* 22 08
Δ = 21°. Dodecanese Islands. *H* = 21 56 40.2.

February.
24 *iP·Z′* 03h16m20s *C*. Confused by microseisms.
Δ = 80°. *h* = 50 km. Ryukyu Islands. *H* = 03 04 16.1.

26 *eL·ZNE* 07 10
Δ = 135°. Easter Island. *H* = 05 48 46.3.

26 *iP·ZZ′* 18 22 48½ *C* from northeast.
i!PcP·Z′ 22 50½
i(pP)·Z′ 23 02
iPP·Z 25 54
ePPP·Z 27 37
ePPPP·Z 28 53
i·Z 29 15
iS·E 32 46
ePS·Z 33 20
i·N 33 32
i·N 33 47
eSS·Z 37 48
i!·N 38 12
e·E 38 50
i(SSS)·N 41 23
e·E 41 43
e·Z 42.0
eR·Z 46
M·ZNE 19 00½ 20s, *ZE:* (380 *μ*), *N:* 290 *μ*.
Δ = 78°. *h* = 54 km. Kyushu. *H* = 18 10 48.7.
M(*L*) = 7.8 –7.9 (*COP*).

27 *eL·N* 21 53
Δ = 21°. Dodecanese Islands. *H* = 21 40 02.6.

27 *eL·E* 22 07
Δ = 21°. Dodecanese Islands. *H* = 21 54 33.6.

28 *iP·Z′* 12 45 01 *D*
e·Z 55 (51)
Δ = 72°. *h* = 29 km. Kurile Islands. *H* = 12 33 32.1.

March.
7 *eiPKP·Z′Z* 10 30 25 *D* *Z:* 7–8s, 24 *μ*.
i·Z′ 30 32½
iPKP2·Z′ 30 42½
i·Z 31 16
i·Z 31 36
i·Z 32 57
i!PP·ZN 34 14
i·E 36 17
i(SKS)·Z 37 26
i(PPP)·E 37 42
i·N 38 10
e·Z 38 27
i·E 39 00
i·Z 41 18
i·Z 41 55
e·E 43 17
i·Z 43 45
i·N 43 55

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March.
7 $e(SKSP)\cdot N$ 10h44m27s (Con.).
$e\cdot E$ 46 39
$e\cdot E$ 49 24
$eL\cdot N$ 11 23
$\Delta = 152°$. $h = 43$ km. Kermadec Islands. $H = 10\ 10\ 38.9$.

7 $iPKP\cdot Z'$ 23 30 46 (D)
$\Delta = 120°$. $h = 90$ km. New Britain. $H = 23\ 11\ 59.6$.

8 $eiP\cdot Z'$ 00 29 ($22^1/_2$)
$\Delta = 72°$. $h = 34$ km. Fox Islands. $H = 00\ 17\ 58.9$.

9 $eL\cdot N$ 04 29
$\Delta = 61°$. Atlantic Ocean. $H = 03\ 59\ 08.7$.

11 $iP\cdot Z'$ 01 42 $56^1/_2$ D
$i\cdot Z'$ 43 $25^1/_2$
$eQ\cdot EN$ 02 01
$eR\cdot E$ 10
$\Delta = 71°$. $h = 26$ km. Kurile Islands. $H = 01\ 31\ 34.4$.

13 $eP\cdot Z'$ 19 22 21
$i\cdot Z'$ 22 34
$i\cdot Z'$ 23 09
$eS\cdot E$ 26.5
$eL\cdot E$ 31
$\Delta = 23°$. $h = 25$ km. Crete. $H = 19\ 17\ 16.0$.

15 $eL\cdot E$ 11 22
$\Delta = 118°$. New Ireland. $H = 10\ 14\ 55.5$.

16 $ePP\cdot Z$ 14 04 28
$e(SKS)\cdot E$ 10 (30)
$e(PS)\cdot Z$ 13 35
$e(PPS)\cdot N$ 14 47
$eQ\cdot E$ 34
$eR\cdot E$ 42
$\Delta = 108°$. $h = 74$ km. Flores Sea. $H = 13\ 45\ 35.6$.

17 $ei(PKP)\cdot Z'$ 20 30 20
$eL\cdot ZN$ 21 37
($\Delta = 148°$. $h = 79$ km.) Tonga Islands. $H = 20\ 11\ 17.4$.

18 $ePKP\cdot Z$ 15 14 (40)
$e\cdot Z$ 20 16
$e\cdot Z$ 21 15
$e\cdot E$ 24 22
$ei\cdot Z$ 25 14
$e\cdot Z$ 31 (40)
$e(SS)\cdot N$ 39 52
$eL\cdot N$ 16 07
$eL\cdot ZN$ 20
$\Delta = 161°$. $h = 38$ km. New Zealand. $H = 14\ 54\ 59.3$.

19 $eL\cdot N$ 08 29
$\Delta = 137°$. New Hebrides Islands. $H = 07\ 14\ 57.8$.

March.
20 $iP\cdot Z'$ 03h38m24$^1/_2$s D
$i\cdot Z'$ 38 $35^1/_2$
$eL\cdot N$ 52
$\Delta = 44°$. $h = 86$ km. Hindu Kush. $H = 03\ 30\ 28.3$.

20 $eL\cdot ZNE$ 06 58
$\Delta = 86°$. Nicaragua. $H = 06\ 16\ 21.1$.

20 $iPKP\cdot Z$ 16 12 24 C
$i\cdot Z'$ 13 11
$ipPKP\cdot Z$ 13 23
$e(PP)\cdot Z$ 15 38
$i(SKP)\cdot N$ 16 11
$i(pPKS)\cdot Z$ 17 27
$e(SKKS)\cdot N$ 21 (45)
$e(PS)\cdot N$ 26 (35)
$e(SPP)\cdot Z$ 28 07
$i\cdot N$ 29 23
$\Delta = 142°$. $h = 178$ km. Tonga Islands. $H = 15\ 53\ 26.1$.

21 $eiPKP\cdot Z'$ 00 02 (22)
$i(PKP2)\cdot Z$ 02 25 (D) } Confuced by microseisms.
$i\cdot Z$ 02 45
$eL\cdot E$ 01 10
$\Delta = 148°$. $h = 25$ km. Tonga Islands. $H = 23\ 42\ 36.8$.

24 $iP\cdot Z'$ 23 09 12 D
$eL\cdot NE$ 39
$\Delta = 78°$. $h = 102$ km. Honshu. $H = 22\ 57\ 14.3$.

28 $iP\cdot Z$ 09 49 $43^1/_2$ C
$i\cdot Z$ 50 24
$iPP\cdot Z$ 53 56 –
$i\cdot ZE$ 54 42
$i\cdot Z$ 55 16
$eSKS\cdot NE$ 10 00 (15)
$iS\cdot E$ 01 13
$i(PS)\cdot E$ 03 23
$e\cdot N$ 05 12
$eL\cdot N$ 23
$M\cdot NE$ 30 20^s, N: 41 μ, E: $26^1/_2$ μ.
$\Delta = 102°$. $h = 83$ km. Celebes. $H = 09\ 35\ 55.4$.
$M(L) = 7.0$–7.1 (COP).

28 $eL\cdot N$ 13 05
$\Delta = 73°$. Andreanof Islands. $H = 12\ 29\ 12.7$.

28 $eSKS\cdot E$ 21 26 25
$eS\cdot N$ 27 32
$e(PS)\cdot N$ 28 26
$eSS\cdot N$ 34 (36)
$\Delta = 103°$. $h = 125$ km. Chile/Bolivia. $H = 21\ 01\ 56.2$.

30 $eL\cdot Z$ 08 26
$\Delta = 87°$. California. $H = 07\ 42\ 59.4$.

30 $eL\cdot N$ 10 03
$\Delta = 140°$. Samoa Islands. $H = 08\ 49\ 45.6$.

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København 1961

March.

30	$eL \cdot N$	12^h35^m	
	$\Delta = 65°$. China. $H = 12\ 00\ 12.8$.		

April.

1	$eP \cdot ZZ'$	15 26 42	C from East. Z: $7^1/_2{}^s$, $12^1/_2\ \mu$.
	$iPP \cdot Z$	28 $17^1/_2$	
	$e(PCP) \cdot E$	28 27	
	$e \cdot E$	28 35	
	$i \cdot Z$	28 42	
	$iPPP \cdot Z$	29 $02^1/_2$	
	$e \cdot Z$	31 05	
	$ePcS \cdot E$	32 (12)	
	$iS \cdot N$	33 14	
	$i\,!(PS) \cdot E$	33 25	–
	$eSS \cdot N$	36 38	
	$i(ScS) \cdot E$	36 43	
	$e \cdot N$	38 37	
	$eR \cdot Z$	39.4	
	$i \cdot N$	41.7	
	$M \cdot ZNE$	46	approx. 10^s, Z: 105 μ, N: 85 μ, E: 110 μ.
	$\Delta = 45°$. $h = 21$ km. Sinkiang. $H = 15\ 18\ 22.8$.		
4	$eS \cdot Z$	10 01 39	Wiechert (No Z', Gal. records).
	$eL \cdot Z$	10 37	
	$\Delta = 44°$. $h = 16$ km. Sinkiang. $H = 09\ 46\ 36.6$.		
4	$iP \cdot Z'$	22 44 $34^1/_2$	
	$i \cdot Z'$	44 42	
	$i(PP) \cdot Z'$	44 53	
	$i(PPP) \cdot Z'$	45 $06^1/_2$	
	$i \cdot Z'$	45 $25^1/_2$	
	$i(S) \cdot Z'$	46 $48^1/_2$	
	$e(SS) \cdot E$	47 04	
	$i(SSS) \cdot E$	47 20	
	$eR \cdot E$	47.6	
	$eR \cdot N$	48.1	
	$\Delta = 9°$. Norway. $H = 22\ 42\ 30$.		
5	$eL \cdot NE$	07 11	
	$\Delta = 45°$. Sinkiang. $H = 06\ 47\ 07.4$.		
6	$iP \cdot Z'$	01 42 04	D
	$eR \cdot Z$	55.5	
	$i \cdot E$	02 01 $15^1/_2$	
	$\Delta = 45°$. $h = 33$ km. Sinkiang. $H = 01\ 33\ 46.9$.		
6	$eL \cdot E$	04 45	
	$\Delta = 77°$. California. $H = 04\ 04\ 46.1$.		
6	$eL \cdot NE$	14 58	
	$\Delta = 86°$. Sumatra. $H = 14\ 05\ 00.3$.		
6	$iP \cdot Z'$	18 20 28	D
	$i\,!\cdot Z'$	20 $34^1/_2$	
	$ePP \cdot Z$	22 06	
	$eS \cdot N$	26 47	

April.

6	$eSS \cdot N$	$18^h30.0^m$	(Con.).
	$eL \cdot NE$	34	
	$\Delta = 42°$. $h = 109$ km. Iran. $H = 18\ 12\ 40.7$.		
6	$eL \cdot Z$	22 30	120^s, Trace amplitude = 1 mm.
	$eL \cdot E$	30.7	Irregular motion. 12^s, 0.6 μ.
	$eL \cdot N$	31	
7	$eL \cdot N$	14 20	
7	$eP \cdot Z$	20 05 42	
	$ePP \cdot Z$	08 12	
	$eS \cdot NE$	14 18	
	$eL \cdot NE$	28	
	$\Delta = 65°$. $h = 20$ km. Kamchatka. $H = 19\ 54\ 51.9$.		
7	$iP \cdot Z'$	21 25 $40^1/_2$	C
	$ipP \cdot Z'$	25 52	
	$ePP \cdot Z$	27 27	
	$eS \cdot E$	32 07	
	$eSS \cdot N$	35 (04)	
	$eR \cdot N$	37.9	
	$\Delta = 42°$. $h = 44$ km. Kirghiz/Tadzhik. $H = 21\ 17\ 43.8$.		
8	$eL \cdot ZE$	00 52	$15-20^s$. less well shown on N.
8	$ePP \cdot Z$	18 19 43	
	$ePPP \cdot Z$	22 23	
	$iSKS \cdot E$	25 $27^1/_2$	
	$ePS \cdot E$	29 35	
	$eSS \cdot N$	35 (36)	
	$eSSS \cdot N$	40	
	$eL \cdot NE$	55	
	$\Delta = 118°$. $h = 60$ km. Chile. $H = 17\ 59\ 46.7$.		
8	$eL \cdot NE$	22 (26)	
	$\Delta = 99°$. Mariana Islands. $H = 21\ 37\ 41.6$.		
9	$eL \cdot NE$	08 02	
	$\Delta = 79°$. California. $H = 07\ 23.3$.		
9	$iPKP \cdot Z'$	09 40 $08^1/_2$	D
	$\Delta = 148°$. Fiji Islands. $H = 09\ 21\ 29.0$.		
9	$iP \cdot ZZ'$	15 47 22	C from East.
	$i \cdot Z'$	47 39	
	$ePP \cdot Z$	50 24	
	$eS \cdot E$	57 15	
	$eSKS \cdot E$	57 28	
	$eScS \cdot E$	57 40	
	$e(PS) \cdot N$	58 22	
	$e(SS) \cdot N$	16 03 08	
	$e(SSS) \cdot E$	06 12	
	$e(Q) \cdot Z$	07.1	
	$eR \cdot N$	13	
	$M \cdot ZNE$	26	$19-20^s$, N: 53 μ, E: 72 μ.
	$\Delta = 80°$. $h = 13$ km. Formosa. $H = 15\ 35\ 05.4$.		

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April.

9 *ei*(*P'P'*)·*Z'* 16h13m37s
(Possibly *P'P'* from the previous earthquake).

10 *eL*·*ZNE* 07 46
Δ = 80°. Formosa. *H* = 06 57 13.6.

10 *eL*·*E* 20 46
Δ = 107°. New Guinea. *H* = 19 40 15.9.

12 *iP*·*Z'* 22 33 02 *D*
i(*pP*)·*Z* 33 22
ePP·*Z* 36 23
i(*pPP*)·*Z* 36 43
e(*SKS*)·*E* 43 16
e(*S*)·*E* 43 27
e(*PS*)·*N* 44 40
eSS·*E* 49
eR·*NE* 59
Δ = 85°. *h* = 122 km. El Salvador. *H* = 22 20 33.6.

13 *eP*·*Z* 16 42 55 *C*
i·*Z'* 42 55½ *D*
i·*Z'* 42 59
i(*PcP*)·*Z'* 44 12½
e(*PP*)·*Z* 44 35
e·*Z* 44 57
e·*Z* 47 02
eS·*E* 49 32
ePS·*E* 49 45
e·*E* 50 24
e·*E* 52 23
e(*SS*)·*E* 52 40
i·*N* 53 02
e(*Q*)·*E* 53 21
i !(*Lg*)·*E* 17 02 05 +, 15s, 160 μ.
i !(*Lg*)·*Z* 02 07 −, 15s, 150 μ.
M·*ZNE* 02.1 *N:* 15s, 66 μ.
Δ = 45°. *h* = 19 km. Sinkiang. *H* = 16 34 39.1.

16 *iP*·*Z'* 06 29 09 *C*
Δ = 83°. *h* = 387 km. Honshu. *H* = 06 17 21.3.

16 *iP*·*Z'* 11 51 38 *D*
i·*Z'* 51 43
i(*pP*)·*Z'* 51 48
Δ = 68°. *h* = 27 km. Kamchatka. H = 11 40 40.7.

17 *iPKP*·*Z'* 21 06 49½ *D*
Δ = 145°. *h* = 549 km. Tonga Islands. *H* = 20 48 12.5.

19 *eiP*·*Z'* 16 24 01
i !·*Z'* 24 01½
i·*Z'* 24 04
eL·*NE* 49
Δ = 74°. *h* = 51 km. Kurile Islands. *H* = 16 12 28.7.

April.

19 *iP*·*Z'* 18h24m46½s(*D*)
eL·*NE* 53
Δ = 67°. *h* = 21 km. Kamchatka. *H* = 18 13 51.8.

19 *iP*·*Z'* 20 31 22½ *C*
iPcP·*Z'* 31 36
eL·*E* 56
Δ = 74°. *h* = 27 km. Kurile Islands. *H* = 20 19 46.4.

19 *iP*·*Z'* 22 19 24 *D*
i·*Z'* 24 08
eL·*E* 49
Δ = 73°. *h* = 34 km. Kurile Islands. *H* = 22 07 51.2.

20 *eL*·*NE* 22 46
Δ = 139°. Samoa Islands. *H* = 21 39 07.0.

21 *eL*·*E* 20 08
Δ = 71°. Kurile Islands. *H* = 19 30 36.9.

21 *iP*·*Z'* 20 22 04 Confused by microseisms.
e(*S*)·*N* 31 12
e(*S*)·*E* 31 23
eL·*E* 46
Δ = 72°. *h* = 27 km. Kurile Islands. *H* = 20 10 38.3.

21 *eL*·*E* 22 05
Δ = 73°. Andreanof Islands. *H* = 21 26 42.1.

22 *eL*·*NE* 01 30
Δ = 121°. New Britain. *H* = 00 30.4.

23 *iP*·*Z'* 05 26 48½ *D*
i·*Z'* 26 58
ipP·*Z'* 27 12
e(*S*)·*N* 37 08
e(*PS*)·*E* 38 10
e(*SSS*)·*Z* 46½
eL·*NE* 58
Δ = 82°. *h* = 110 km. Ryukyu Islands. *H* = 05 14 31.1.

23 *iP*·*Z'* 09 13 15 *C*
i·*Z'* 13 22
i(*pP*)·*Z'* 13 30 } Intermediate phases lost in
ePPP·*Z* 17 39 } record change.
e·*Z* 18 56
eS·*N* 22 39
iPS·*E* 23 26
e·*E* 26 47
e·*E* 28 48
e(*Q*)·*E* 31.1
e·*N* 34.7
eR·*E* 37
M·*E* 48 15s, 35 μ.
M·*ZN* 51 15s, *Z:* 22 μ, *N:* 37 μ.
Δ = 74°. *h* = 44 km. Kurile Islands. *H* = 09 01 41.8.

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April.

23 *eL·NE* 13h01m
$\Delta = 74°$. Kurile Islands. $H = 12\ 17\ 59.7$.

23 *iP·Z* 17 02 35
eS·N 12 (14)
eL·E 28
$\Delta = 74°$. $h = 76$ km. Kurile Islands. $H = 16\ 51\ 03.6$.

24 *eL·E* 13 05
$\Delta = 74°$. Kurile Islands. $H = 12\ 27\ 39.5$.

25 *iP·Z* 01 29 12 *C*
i(P)·Z' 29 13 *D*
e(PPP)·N 34 30
eS·N 35 45
eL·E 51
$\Delta = 74°$. $h = 78$ km. Kurile Islands. $H = 01\ 17\ 42.7$.

25 *eL·NE* 12 46
$\Delta = 156°$. Kermadec Islands. $H = 11\ 16\ 41.4$.

26 *eL·ZNE* 00 32
$\Delta = 81°$. Ryukyu Islands. $H = 23\ 40\ 34.3$.

26 *iP·Z* 07 50 31½ *C*
eS·N 08 00 04
e(SS)·N 04 11
e(Q)·N 08 30
$\Delta = 74°$. $h = 20$ km. Kurile Islands. $H = 07\ 38\ 54.1$.

26 *eP·Z* 19 44 07
eL·E 20 11
$\Delta = 74°$. $h = 51$ km. Kurile Islands. $H = 19\ 32\ 34.2$.

27 *eL·N* 01 07½
$\Delta = 44°$. Sinkiang. $H = 00\ 44.3$.

29 *eP·Z* 09 31 31
$\Delta = 78°$. $h = 26$ km. California. $H = 09\ 19\ 28.3$.

29 *iP·Z'ZNE* 09 33 19 *C* from North-west, 5s, *ZN:* 8 μ, *E:* 3 μ.
i·Z 34 24
i·Z 36 09
i!S·E 36 45½ +
i(SSS)·N 37 17
eL·E 39.0
M·ZNE 42 12s, *Z:* 38 μ, *N:* 39 μ, *E:* 40 μ.
$\Delta = 18¾°$. $h = 14$ km. Jan Mayen Island. $H = 09\ 29\ 09.5$.

29 *eL·NE* 11 17
$\Delta = 58°$. Outer Mongolia. $H = 10\ 45\ 39.1$.

30 *eP·Z* 07 39 25
i(pP)·Z' 39 36
e(PPP)·Z 40 31
eS·E 44 04
eL·ZNE 47
$\Delta = 26°$. $h = 38$ km. Atlantic Ocean. $H = 07\ 33\ 53.5$.

April.

30 *iP·Z'* 11h26m49½s
i·Z' 26 53
eS·N 36 14
eL·ZNE 53
$\Delta = 73°$. $h = 70$ km. Kurile Islands. $H = 11\ 15\ 19.8$.

30 *eL·NE* 15 53
$\Delta = 139°$. Samoa Islands. $H = 14\ 48\ 11.5$.

May.

2 *eL·E* 03 22
$\Delta = 18°$. Jan Mayen Island. $H = 03\ 11\ 45.7$.

2 *eL·N* 21 04
$\Delta = 151°$. Kermadec Islands. $H = 19\ 38\ 13.5$.

2 *iPKP·Z* 23 04 36 *D*
iPP·Z 08 16
e(SKSP)·E 18 31
e·N 19 31
e·E 28 53
eL·NE 57
$\Delta = 151°$. $h = 47$ km. Kermadec Islands. $H = 22\ 44\ 44.3$.

2 *eiPKP·Z'* 23 43 53 Confused by microseisms.
$\Delta = 151°$. $h = 84$ km. Kermadec Islands. $H = 23\ 24\ 03.6$.

3 *eL·N* 13 58
$\Delta = 85°$. Luzon. $H = 13\ 10\ 04.0$.

4 *eL·E* 03 01
$\Delta = 78°$. California. $H = 02\ 17\ 34.0$.

4 *eL·E* 07 29
$\Delta = 58°$. Atlantic Ocean. $H = 07\ 00\ 32.9$.

5 *eiPKP·Z'* 14 03 12
e·Z 04 49
e·N 18 10
e·E 27 24
eL·NE 15 03
$\Delta = 152°$. $h = 84$ km. Kermadec Islands. $H = 13\ 43\ 21.7$.

6 *eL·E* 16 15½
$\Delta = 18°$. Mediterranean Sea. $H = 16\ 04\ 33.1$.

6 *eL·NE* 20 09
$\Delta = 62°$. Atlantic Ocean. $H = 19\ 38\ 04.6$.

7 *ePP·Z* 00 46.0
ePS·E 56.0
eL·NE 01 20
$\Delta = 122°$. $h = 123$ km. Solomon Islands. $H = 00\ 25\ 40.8$.

7 *eiP·Z'* 04 56 04
eL·N 05 (31)
$\Delta = 17°$. Corfu. $H = 04\ 51\ 43$.

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May.
7 *eS·E* 10h47m16s
eL·NE 11 13
Δ = 98°. *h* = 89 km. Mindanao. *H* = 10 22 43.7.

7 *eL·E* 12 56
Δ = 77°. Honshu. *H* = 12 14 15.5.

7 *eP·Z* 15 45 09
eL·E 51
Δ = 17°. *h* = 66 km. Jan Mayen Island. *H* = 15 40 52.5.

8 *ePS·E* 19 51 33
eL·E 20 17
Δ = 106°. *h* = 48 km. Chile. *H* = 19 23 35.4.

10 *eL·E* 17 19
Δ = 20°. Mediterranean Sea. *H* = 17 08 00.

11 *ePP·Z* 08 58 41
ePS·Z 09 08 (12)
ePPS·Z 09 38
eSS·N 14 33
eL·ZNE 40
Δ = 118°. *h* = 47 km. Chile. *H* = 08 38 27.1.

11 *eL·N* 14 13
Δ = 74°. Kurile Islands. *H* = 13 36 36.2.

13 *eL·N* 14 55
Δ = 151°. Kermadec Islands. *H* = 14 18 42.4.

13 *eL·NE* 15 41.0
eL·ZNE 44
Δ = 141°. *h* = 556 km. Fiji Islands. *H* = 14 52 55.3.

13 *eiP·Z'Z* 16 01 07½ *C*
e(SS)·E 15 (54)
eL·E 31
eL·ZN 37
Δ = 74°. *h* = 31 km. Hokkaido. *H* = 15 49 29.6.

14 *eP·ZNE* 15 12 24 *C* from North-west, *Z:* 5s, 1 μ.
eS·N 16 09
eL·ZNE 18
Δ = 19°. *h* = 47 km. Iceland. *H* = 15 08 04.2.

14 *eP·ZNE* 15 42 39 *C* from North-west, *Z:* 5s, 2 μ.
eS·Z 46 07
eL·ZE 47
(Δ = 19°. *h* = 23 km.) Iceland. (*H* = 15 38 07.5).

14 *eL·E* 20 16
Δ = 78°. California. *H* = 19 31 34.4.

15 *eL·NE* 20 28
Δ = 135°. Santa Cruz Islands. *H* = 19 12 10.8.

May.
15 *i!PKP·Z'Z* 21h12m26s *D*
Δ = 144°. *h* = 89 km. Tonga Islands. *H* = 20 53 05.3.

16 *ePKP·Z'* 17 47 09 *D*
e·Z' 47 19
eL·NE 18 58
Δ = 152°. *h* = 53 km. Kermadec Islands. *H* = 17 27 34.1.

16 *iP·Z'* 21 57 35 *D*
iPcP·Z' 57 41
i·Z' 57 48
eS·E 22 07 38
iScS·E 07 52
e(PS)·E 08 06
eSS·E 13 (08)
eL·Z 22.8
Δ = 80°. *h* = 25 km. Ryukyu Islands. *H* = 21 45 24.0.

17 *iP·Z'* 19 40 43 *D*
iP·ZN 40 43 *C* from North.
i·Z 40 49
ePP·Z 43 23
eS·N 49 57
e·ZNE 50 14
ePS·NE 50 43
eSS·N 55 09
eQ·Z 58.5
eR·NE 20 02
Δ = 72°. *h* = 21 km. Near Islands. *H* = 19 29 19.3.

18 *eL·NE* 00 57
Δ = 61°. China. *H* = 00 23 45.2.

18 *eP·ZN* 09 43 (29)
eS·E 46 (51)
eL·E 48½
Δ = 17°. Arctic Ocean. *H* = 09 39 30.

19 *eL·ZNE* 00 14
Δ = 119°. Chile. *H* = 23 10 13.7.

19 *iPKP·Z'* 02 40 10¾ (*C*)
i·Z' 40 13
ei·Z' 41 (40)
Δ = 146°. *h* = 600 km. Fiji Islands. *H* = 02 21 31.8.

19 *eL·E* 10 09
Δ = 87°. Nicaragua. *H* = 09 25 26.6.

19 *e(P)·Z'* 14 58 10 approx. ½s.
i·Z' 58 30

19 *i(P)·Z'* 14 59 37½ *D*, approx. ½s.
(Δ = 78°. *H* = 14 47.7. California).

19 *eS·N* 16 59 53
eL·N 17 13
Δ = 81°. *h* = 71 km. Ryukyu Islands. *H* = 16 37 28.9.

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May.

19 $e(P)\cdot Z'$ 23h59m35s

20 $eL\cdot N$ 02 44
$\Delta = 45°$. Sinkiang. $H = 02\ 20.3$.

20 $eiP\cdot Z'$ 12 02 33
$\Delta = 74°$. $h = 59$ km. Kurile Islands. $H = 11\ 51\ 01.2$.

20 $eL\cdot ZN$ 17 57
$\Delta = 17°$. Arctic Ocean. $H = 17\ 47\ 19.3$.

20 $eL\cdot NE$ 18 32
$\Delta = 64°$. Tanganyika. $H = 17\ 52\ 04.6$.

21 $eL\cdot N$ 16 14

21 $eL\cdot N$ 20 11
($\Delta = 40°$. Iran. $H = 19\ 44\ 19$).

22 $ePKP\cdot Z$ 14 04 07½ C
$i\cdot Z'$ 04 19
$i\cdot Z$ 04 23
$ePP\cdot Z$ 07 33
$e(SKKS)\cdot E$ 14 (07)
$e(SSS)\cdot N$ 32 (02)
$eL\cdot N$ 59
$\Delta = 145°$. $h = 97$ km. Tonga Islands. $H = 13\ 44\ 35.8$.

22 $iPKP\cdot Z'$ 17 52 01½ C
$i\cdot Z'$ 52 21
$i\cdot Z$ 52 45½
$i\cdot Z$ 53 03½
$i\cdot Z$ 53 27
$iPP\cdot Z$ 55 29
$e\cdot Z$ 58 17
$eSKKS\cdot N$ 18 02 27
$e(PcSPKP)\cdot E$ 04 13
$e\cdot N$ 04 29
$eSKSP\cdot N$ 05 37
$eSS\cdot E$ 14 24
$e\cdot E$ 23 32
$eL\cdot E$ 38
$\Delta = 147°$. $h = 35$ km. Tonga Islands. $H = 17\ 32\ 21.6$.

23 $iP\cdot Z'ZNE$ 02 50 08 C from South-east.
$i\,!pP\cdot ZNE$ 50 27 approx. 2½s, Z: 43 μ, N: 24 μ, E: 23 μ.
$eS\cdot ZNE$ 54 09½ N: +, E: −.
$i\,!sS\cdot ZNE$ 54 (37) 10s, Z: 37 μ, N: 67 μ, E: 64 μ.
$i(SSS)\cdot ZN$ 55 08
$eL\cdot E$ 56 54
$M\cdot ZNE$ 03 00 approx. 13s, Z: 135 μ, N: 61 μ, E: 78 μ.
$\Delta = 22°$. $h = 70$ km. Turkey. $H = 02\ 45\ 18.8$.

23 $iP\cdot Z'$ 03 52 54¼ (C)
$eP\cdot Z$ 52 55 D
$eS\cdot N(E)$ 04 03 24
$\Delta = 86°$. $h = 136$ km. Costa Rica. $H = 03\ 40\ 26.1$.

May.

23 $iP\cdot Z'$ 03h55m38s
$\Delta = 86°$. $h = 150$ km. Costa Rica. $H = 03\ 43\ 10$.

23 $eL\cdot N$ 05 57
$eL\cdot ZE$ 06 10

23 $eP\cdot Z$ 16 57 25
$ePP\cdot Z$ 17 00 44
$eS\cdot E$ 07 47
$ePS\cdot E$ 09 08
$eL\cdot N$ 22
$\Delta = 85°$. $h = 138$ km. Nicaragua. $H = 16\ 44\ 59.4$.

26 $eL\cdot E$ 23 34
$\Delta = 77°$. Honshu. $H = 22\ 49\ 49.4$.

27 $iP\cdot Z'$ 07 29 39 D
$eL\cdot E$ 59
$\Delta = 74°$. $h = 156$ km. Honshu. $H = 07\ 18\ 12.2$.

27 $eL\cdot N$ 11 02
$\Delta = 44°$. Hindu Kush. $H = 10\ 37\ 39.6$.

27 $eS\cdot NE$ 17 15 42
$eL\cdot N$ 44
$\Delta = 87°$. $h = 39$ km. Sumatra. $H = 16\ 52\ 19.3$.

27 $eL\cdot ZE$ 23 31
$\Delta = 86°$. Luzon. $H = 22\ 38\ 35.5$.

28 $iPKP\cdot Z'$ 19 47 52½
$i\cdot Z'$ 47 59
$\Delta = 149°$. $h = 219$ km. Fiji Islands. $H = 19\ 28\ 21.9$.

29 $eL\cdot ZNE$ 08 32
$\Delta = 119°$. Chile. $H = 07\ 28\ 11.7$.

29 $eS\cdot E$ 11 08 (10)
$eSS\cdot N$ 11 (52)
$eL\cdot NE$ 18
$\Delta = 50°$. $h = 25$ km. Ethiopia. $H = 10\ 52\ 01.2$.

29 $eL\cdot E$ 19 52
$\Delta = 50°$. Ethiopia. $H = 19\ 26\ 05.5$.

31 $eP\cdot Z$ 14 30 (15)
$eS\cdot N$ 40 35
$e\cdot N$ 52 21
$eL\cdot NE$ 58
$\Delta = 83°$. $h = 74$ km. California. $H = 14\ 17\ 43.8$.

31 $ePS\cdot Z$ 19 46 21
$ePPS\cdot Z$ 47 20
$eL\cdot E$ 20 16
$\Delta = 120°$. $h = 56$ km. New Britain. $H = 19\ 15\ 57.0$.

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June.

1 *eP·Z′* 23h38m13s
i(pP)·Z 38 24
ePcP·Z 39 33
iPP·Z 40 19
i·Z 40 44
e·N 45 12
iS·N 45 38
i(sS)·N 45 53
eSS·N 49 20
eL·NE 52
Δ = 51°. *h* = 33 km. Ethiopia. *H* = 23 29 21.2.

2 *iP·Z* 05 00 08 *D* to South-east.
ePP·Z 02 08
e·Z 02 21
eS·N 07 24
i·E 10 15
e(SS)·E 11 10
i·N 11 24
eL·ZNE 13.2
Δ = 50°. *h* = 33 km. Ethiopia. *H* = 04 51 14.8.

2 *eP·Z* 07 11 (50)
Δ = 51°. *h* = 33 km. Ethiopia. *H* = 07 02 49.9.

2 *e(SS)·E* 18 40.0
eL·NE 59
Δ = 93°. *h* = 43 km. Mariana Islands. *H* = 18 09 27.2.

2 *eL·NE* 24 06
Δ = 51°. Ethiopia. *H* = 23 32 32.1.

3 *eP·Z* 01 24 16
eS·N 33 07
e·N 33 39
eSS·N 37 35
eL·N 48
Δ = 66°. *h* = 29 km. Kamchatka. *H* = 01 13 25.4.

3 *eS·E* 06 25.2
eL·NE 28
Δ = 21°. *h* = 45 km. Turkey. *H* = 06 16 16.7.

3 *eP·Z* 15 32 14 *D*
ePP·Z 34 16
eS·E 39 27
ePS·N 39 47
eL·NE (50)
Δ = 51°. *h* = 33 km. Ethiopia. *H* = 15 23 15.8.

4 *iP·ZZ′* 07 42 09½ *D* to East, *Z*: 6s, 5½ *μ*.
i·Z′ 42 13½
ePP·Z 44 09
iS·N 49 31
ePS·E 49 49
e(SS)·Z 53 20
Δ = 52°. *h* = 32 km. Tibet. *H* = 07 33 06.0.

June.

4 *iP·Z′* 07h52m49½s (*C*)
Δ = 52°. *h* = 30 km. Tibet. *H* = 07 43 43.6.

4 *eL·NE* 13 52 32
e·E 57 30

4 *eP·Z* 14 00 34
iP·Z′ 00 35 (*C*)
e·N 12.4
eL·N 19
Δ = 52°. *h* = 32 km. Tibet. *H* = 13 51 29.9.

5 *eiP·Z′* 03 38 41 *C*
eS·E 44 (50)
eL·NE 50
Δ = 41°. *h* = 30 km. Iran. *H* = 03 30 56.0.

6 *eL·N* 21 21
Δ = 45°. Sinkiang. *H* = 20 56 20.1.

7 *iP·Z* 14 25 55 *C*
iPP·Z 28 15
ePPP·Z 30 02
e·Z 31 34
eS·N 34 35
eScS·E 35 57
eSS·E 38 29
e·N 40 10
eSSS·E 41 29
eL·NE 44
Δ = 64°. *h* = 17 km. Ascension Island. *H* = 14 15 18.9.

8 *ePP·Z* 16 03 00
ePS·E 12 20
ePPS·E 13 25
eSS·E 18 31
eSSS·E 22 (09)
eL·N 39
Δ = 108°. *h* = 18 km. Flores. *H* = 15 44 02.4.

9 *ei(P)·Z′* 04 04 12
Δ = 46°. *h* = 110 km. India. *H* = 03 55 51.4.

9 *iP·Z′* 09 42 49½ *C*
i·Z′ 43 05
eS·E 47 32
e·N 48 (13)
i(SS)·N 49 24
eL·N 51.8
Δ = 29°. *h* = 17 km. Caspian Sea. *H* = 09 36 49.2.

10 *ePS·NE* 09 18.4
eSS·NE 23.7
eL·E 38
Δ = 97°. *h* = 33 km. Mexico. *H* = 08 52 05.4.

10 *ePKP·Z* 20 51.3
ePP·Z 52.7

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June.

10 *ePKS·Z* 20h54.4m (Con.).
eSS·N 21 09.8
e·N 10.6
eL·E 15.3
$\Delta = 123°$. $h = 47$ km. Easter Island. $H = 20\ 31\ 50.9$.

11 *eL·E* 04 48
$\Delta = 69°$. Kamchatka. $H = 04\ 02\ 44.6$.

11 *iP·ZZ'* 05 18 08 *C*
i·Z 18 16
iPP·Z 19 50
i·NE 20 44
i·E 24 12
eS·E 24 23
i!·NE 24 33½ 10s, *N:* 9 μ, *E:* 23 μ.
i·E 24 53
e·N 25 31
eSS·ZNE 27.1
M·N 37.5 18s, 70 μ.
M·E 39 14s, 45 μ.
$\Delta = 41°$. $h = 37$ km. Iran. $H = 05\ 10\ 26.3$.

11 *iP·Z'* 05 37 55 *C*
i·Z' 37 59½
ipP·Z' 38 13
$\Delta = 41°$. $h = 62$ km. Iran. $H = 05\ 30\ 14.5$.

11 *ei(P)·Z'* 06 04 05
$\Delta = 69°$. $h = 18$ km. Kamchatka. $H = 05\ 52\ 51.7$.

11 *ei(P)·Z'* 06 27 57
$\Delta = (41°)$. Iran. $H = 06\ 19\ 24$.

11 *eP·Z'* 06 54 30
$\Delta = 41°$. $h = 41$ km. Iran. $H = 06\ 46\ 57.9$.

11 *eiP·Z'* 06 59 11½
i·Z' 59 22½
$\Delta = 41°$. $h = 49$ km. Iran. $H = 06\ 51\ 29.6$.

11 *eL·N* 11 46
$\Delta = 41°$. Iran. $H = 11\ 24\ 09.4$.

11 *eiP·Z'* 12 38 04
$\Delta = 41°$. $h = 35$ km. Iran. $H = 12\ 30\ 23.5$.

11 *iP·ZZ'* 12 39 09 *C* from East.
i·Z' 39 31½
e·Z 39 40
e(PP)·Z 40 23
iS·E 45 22½
i·E 45 51
e(SSS)·E 49 12
eL·NE 53
$\Delta = 41°$. $h = 36$ km. Iran. $H = 12\ 31\ 26.8$.

June.

11 *eiP·ZZ'* 14h05m42s *C*
i·Z' 05 47½
eS·E 11 52
eSS·E 15.0
eL·NE 20
$\Delta = 41°$. $h = 34$ km. Iran. $H = 13\ 57\ 58.3$.

11 *eiP·Z'* 17 26 31
eS·N 35.6
eScS·N 36.6
eL·NE 51
$\Delta = 67°$. $h = 33$ km. Burma. $H = 17\ 15\ 34.5$.

11 *iP·Z'* 23 20 50 *C*
$\Delta = 41°$. $h = 42$ km. Iran. $H = 23\ 13\ 07.8$.

12 *eL·N* 01 04
$\Delta = 90°$. Pacific Ocean. $H = 00\ 14\ 28.7$.

12 *iP·Z* 10 09 54½ (*C*)
ePP·Z 12 (50)
ePPP·ZE 14 32
eL·N 34
$\Delta = 74°$. $h = 33$ km. Vietnam. $H = 09\ 58\ 17.1$.

13 *i!PKP·ZZ'* 21 57 19 *D Z:* 4s, 3½ μ.
ipPKP·ZZ' 58 01
$\Delta = 145°$. $h = 146$ km. Tonga Islands. $H = 21\ 37\ 55.0$.

14 *eiP·Z'* 00 32 09
eL·N 50
$\Delta = 41°$. $h = 36$ km. Iran. $H = 00\ 24\ 27.3$.

14 *eiP·Z'* 00 51 54 Confused by microseisms.
eL·NE 01 13
$\Delta = 66°$. $h = 62$ km. Burma. $H = 00\ 41\ 13.0$.

14 *eL·NE* 09 29
$\Delta = 41°$. Iran. $H = 09\ 03\ 37.0$.

14 *eL·N* 17 57
$\Delta = 41°$. Hindu Kush. $H = 17\ 31\ 45.7$.

14 *eP·Z* 20 41 17 *C*
ePcP·Z 42 36
ePP·Z 43 15
eS·E 48 31
eSS·N 52.4
eL·E 57
$\Delta = 50°$. $h = 33$ km. Ethiopia. $H = 20\ 32\ 21.6$.

15 *eL·N* 01 41.4
eL·E 48
$\Delta = 82°$. Colombia. $H = 00\ 51\ 30.6$.

15 *eL·N* 06 44.0
eL·E 47
$\Delta = 41°$. Iran. $H = 06\ 21\ 35.6$.

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June.

15 *iP·Z′* 23h36m11½s (*C*) Confused b microseisms.
eL·NE 24 01
Δ = 73°. *h* = 36 km. Kurile Islands. *H* = 23 24 43.8.

16 *e(PPP)·Z* 07 31.3
eL·NE 08 12
Δ = 122°. *h* = 17 km. Chile. *H* = 07 08 16.5.

16 *i!P·ZZ′* 10 44 00 *D*
ipP·Z 44 29
isP·Z 44 40
i(sPcP)·Z 44 46
eS·Z 53 46
i!SKS·N 53 59½ –
ipS·N 54 19
iPS·N 54 51½
eL·N 11 04
Δ = 80°. *h* = 120 km. Colombia. H = 10 31 56.2.

16 *eL·E* 15 16
Δ = 23°. Dodecanese Islands. *H* = 14 59 48.3.

17 *eP·Z* 08 13 35½ (*C*)
eL·NE 28
Δ = 41°. *h* = 38 km. Iran. *H* = 08 05 53.0.

17 *eL·E* 11 48
Δ = 98°. Peru. *H* = 10 56 30.3.

17 *eiP·Z′* 15 20 09
e(S)·NE 30 48
i·N 32 39
e·E 33 19
e(SS)·E 36 54
e(SSS)·E 40.5
eL·NE 45
Δ = 86°. *h* = 85 km. Mexico/Guatemala. *H* = 15 07 33.7.

18 *iPKP·Z′* 14 14 30 (*C*) Confused by microseisms.
i·Z′ 14 45
iPKP2·Z′ 14 58
Δ = 154°. *h* = 434 km. Kermadec Islands. *H* = 13 55 16.6.

19 *eL·N* 02 33
Δ = 90°. Luzon. *H* = 01 45 25.5.

19 *eL·NE* 03 31
Δ = 76°. Honshu. *H* = 02 46 03.6.

19 *eL·E* 08 (23)
Δ = 76°. Honshu. *H* = 07 38 25.0.

19 *eiP·Z′* 17 12 20½ Confused by microseisms.
i·Z 12 23
ipP·Z′ 13 02½
iS·E 18 39
i(SS)·E 22 10
Δ = 43°. *h* = 200 km. Hindu Kush. *H* = 17 04 37.0.

June

20 *eL·N* 03h45m
Δ = 50°. Gulf of Aden. *H* = 03 21 34.3.

21 *iP·Z′* 06 47 06
i·Z′ 47 10
i·Z′ 47 34
eL·NE 07 00.6
Δ = 41°. *h* = 40 km. Iran. *H* = 06 39 23.0.

21 *eiP·Z* 16 09 34
eS·Z 13.4
eL·E 16
Δ = 21°. *h* = 31 km. Turkey. *H* = 16 04 47.2.

21 *eL·E* 21 09
Δ = 101°. Java. *H* = 20 25 00.9.

22 *e(Q)·Z* 01 02.3
eR·E 03.4
Δ = 14°. Albania/Yugoslavia. *H* = 00 56 03.7.

23 *eP·Z* 09 07 40
eL·NE 27
Δ = 75°. *h* = 56 km. Oregon. *H* = 08 55 55.2.

23 *eS·E* 16 50 23
eSS·N 53.4
Δ = 42°. *h* = 32 km. Iran. *H* = 16 36 22.8.

24 *eL·NE* 05 57
Δ = 86°. El Salvador. *H* = 05 07 55.6.

25 *ePP·Z* 17 03 32
e·Z 04 16
e(PS)·E 14 09
eL·ZNE 35
Δ = 92°. *h* = 33 km. Mariana Islands. *H* = 16 46 38.6.

25 *eL·NE* 20 02
Δ = 118°. Chile. *H* = 19 32 14.4.

26 *eP·Z* 14 58 42
i·Z′ 58 46
eS·E 15 08 05
e(PS)·N 08 47
e·E 09 32
e·E 10 11
e(SS)·E 13 18
eQ·Z 16.8
eR·E 23
Δ = 71°. *h* = 40 km. Near Islands. *H* = 14 47 27.3.

27 *eiP·Z′* 07 14 28 Confused by microseisms.
i·Z′ 14 33½
i(pP)·Z′ 14 39½
e·Z 16 06
eS·N 23 19
e(PS)·E 23 54

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June.

27 *eScS·N* 07h24m31s (Con.).
eSS·E 27 41
eSSS·N 30 15
eQ·Z 30.8
eR·N 35
$\Delta = 66°$. $h = 33$ km. Yunnan. $H = 07\ 03\ 42.2$.

29 *ePKP·Z* 09 42 04
ePP·E 44 36
i·Z 45 03
e·NE 45 13
ePKS·ZNE 45 46
e·E 46 51
e(SKKS)·Z 51.7
e·ZN 58 08
eL·E 10 26
$\Delta = 134°$. $h = 37$ km. New Hebrides Islands. $H = 09\ 22\ 55.8$.

29 *eS·E* 22 13 41
i·N 13 45½
eL·ZE 17
$\Delta = 34°$. $h = 33$ km. Severnaya Zemlya. $H = 22\ 01\ 24.1$.

30 *eL·E* 05 18
$\Delta = 23°$. Crete. $H = 05\ 05\ 24.8$.

July.

1 *iP·Z'* 08 12 30
$\Delta = 84°$. $h = 117$ km. Bonin Islands. $H = 08\ 00\ 11.6$.

2 *iP·Z'* 02 18 31½
$\Delta = 73°$. $h = 100$ km. Hokkaido. $H = 02\ 07\ 15.0$.

4 *iP·Z'* 06 24 04½ Confused by microseisms.
$\Delta = 96°$. $h = 145$ km. Mariana Islands. $H = 06\ 10\ 44.8$.

5 *e(SS)·Z* 03 12
eL·NE 04 04
$\Delta = 157°$. $h = 33$ km. Macquarie Island. $H = 02\ 28\ 41.2$.

5 *eL·N* 07 00
$\Delta = 45°$. Sinkiang. $H = 06\ 34\ 30.7$.

6 *eL·NE* 16 39
$\Delta = 63°$. Ascension Island. $H = 16\ 08\ 20.8$.

6 *ePKP·Z* 22 28 50
iPKP·Z' 28 52 (*C*)
iPKP·Z 28 53 –.
e·Z 29 14
ePKS·Z 31 52
iPP·Z 32 12½
e·N 34 47
e(SKKS)·NE 38 44
e·N 41.8
e(PS)·Z 43.7
M·ZNE 23 30 23s, *ZN:* 27 μ, *E:* 21 μ.
$\Delta = 141°$. $h = 27$ km. Loyalty Islands. $H = 22\ 09\ 29.4$.

July.

7 *ePKP·Z* 13h30.6m
e(PP)·Z 30 54
i·Z 31 03
e·Z 31 31
e(PPP)·Z 33 30
ePS·E 40 44
e·E 41 23
eSS·NE 47.2
$\Delta = 120°$. $h = 57$ km. New Britain. $H = 13\ 10\ 43.8$.

7 *ePKP·Z* 22 39 (04)
ePP·Z 41 57
eL·NE 23 39
$\Delta = 141°$. $h = 41$ km. Loyalty Islands. $H = 22\ 19\ 31.6$.

8 *ePKP·Z* 02 54 41
ePP·Z 57 45
ePKS·E 58 19
e(PS)·N 03 08 47
eSS·N 16.2
eL·E 38
$\Delta = 140°$. $h = 33$ km. Loyalty Islands. $H = 02\ 35\ 20.5$.

8 *ePKP·Z* 15 53 58 (*D*)
i·Z 54 07½
e·Z 55 20
ePP·Z 57 00
ePKS1·E 57 32
ePKS2·N 57 44
e·N 58 57
e(PPP)·Z 16 00 37
e(SKKS)·N 03 21
eL·E 36
$\Delta = 140°$. $h = 26$ km. Loyalty Islands. $H = 15\ 34\ 37.4$.

8 *ePKP·Z* 21 33 (28)
ePP·Z 36.4
$\Delta = 141°$. $h = 33$ km. Loyalty Islands. $H = 21\ 13\ 59.5$.

8 *ePKP·Z* 22 08 08
ePP·Z 11 11
ePKS·NE 11 53
$\Delta = 141°$. $h = 18$ km. Loyalty Islands. $H = 21\ 48\ 42.3$.

9 *eiP·Z'* 08 13 28
e(S)·E 19.6
$\Delta = 40°$. $h = 25$ km. Iran. $H = 08\ 05\ 45.9$.

10 *eSKS·E* 04 14 (10)
$\Delta = 101°$. $h = 117$ km. Chile/Bolivia. $H = 03\ 49\ 56.4$.

11 *eP·Z* 09 43 43 (*C*)
eS·E 53 37
e·E 53 43
ePS·Z 54 13
eL·N 10 15
$\Delta = 78°$. $h = 17$ km. Nicobar Islands. $H = 09\ 31\ 42.6$.

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July.

12 *eL·NE* 02h59m
$\Delta = 17°$. Greece. $H = 02\ 48\ 48.0$.

13 *e·N* 22 05.0
eS·NE 07.1
eL·N 25
$\Delta = 82°$. $h = 33$ km. Formosa. $H = 21\ 44\ 33.4$.

15 *eL·N* 01 04
$\Delta = 89°$. Luzon. $H = 00\ 17\ 53.5$.

16 *iPKP·ZZ′* 14 21 09
eL·ZNE 15 19
$\Delta = 144°$. $h = 15$ km. Loyalty Islands. $H = 14\ 01\ 35.8$.

16 *eL·ZN* 21 50
$\Delta = 70°$. Kurile Islands. $H = 21\ 08\ 45.6$.

17 *eP·Z* 01 13 53
ePP·Z 17.2
eS·NE 24.6
eL·ZNE 46
$\Delta = 87°$. $h = 40$ km. Mexico. $H = 01\ 01\ 09.7$.

17 *eP·Z′* 05 21 08
eS·E 27 23
$\Delta = 41°$. $h = 16$ km. Iran. $H = 05\ 13\ 21.3$.

17 *iP·Z′* 15 01 09 *D*
eL·ZNE 15
$\Delta = 41°$. $h = 64$ km. Kirghiz. $H = 14\ 53\ 30.9$.

17 *eiP·Z′* 16 32 19½
i·Z′ 32 28½
eS·N 42 17
e(Q)·E 53.9
eL·NE 17 01
$\Delta = 78°$. $h = 51$ km. Honshu. $H = 16\ 20\ 19.1$.

18 *i!P·Z′ZNE* 14 15 50 *D* to North-east.
i·Z 16 20
i·Z 17 00
iPP·Z 18 56
iS·E 25 55 +
iPS·E 26 42
iSS·N 31 23
eR·NE 43
M·ZNE 56 17s, *ZN:* 105 μ, *E:* 145 μ.
$\Delta = 80°$. $h = 21$ km. Ryukyu Islands. $H = 14\ 03\ 36.5$.

18 *iP·Z′* 14 46 13 *D*
$\Delta = 80°$. $h = 33$ km. Ryukyu Islands. $H = 14\ 34\ 03.1$.

18 *eiP·Z′* 15 28 24
i(PcP)·Z′ 28 35
$\Delta = 80°$. $h = 35$ km. Ryukyu Islands. $H = 15\ 16\ 12.5$.

July.

18 *eiP·ZZ′* 19h41m22s
eL·NE 20 12
$\Delta = 80°$. $h = 33$ km. Ryukyu Islands. $H = 19\ 29\ 07.5$.

18 *eP·Z* 21 35 55
e(S)·E 44.1
$\Delta = 54°$. $h = 43$ km. Socotra Island. $H = 21\ 26\ 30.5$.

18 *iP·ZZ′* 23 54 49
eL·NE 24 25
$\Delta = 80°$. $h = 39$ km. Ryukyu Islands. $H = 23\ 42\ 36.5$.

19 *eL·NE* 06 15
$\Delta = 80°$. Ryukyu Islands. $H = 05\ 29\ 59.3$.

19 *eP·Z* 06 45 33
eS·NE 55 39
eL·NE 07 16
$\Delta = 80°$. $h = 27$ km. Ryukyu Islands. $H = 06\ 33\ 18.1$.

19 *eiP·Z′* 10 47 58
eL·NE 11 19
$\Delta = 80°$. $h = 20$ km. Ryukyu Islands. $H = 10\ 35\ 41.4$.

19 *eL·NE* 10 51
$\Delta = 20°$. Greece. $H = 10\ 39\ 27$.

19 *iP·ZZ′* 12 10 57 *Z′:* (+), *Z:* (−).
eS·NE 21 04
eL·NE 43
$\Delta = 80°$. $h = 31$ km. Ryukyu Islands. $H = 11\ 58\ 43.7$.

19 *eP·ZN* 23 05 16 (*D*) to South.
eiP·Z′ 05 18
iPP·Z′ 05 31
e·Z 08 39 8s.
iS·E 08 49 –
i(S)·N 09 01
eL·E 11.6
eL·ZN 12
$\Delta = 19°$. $h = 37$ km. Ionian Sea. $H = 23\ 00\ 56.7$.

20 *eiP·Z′* 03 16 54
eL·N 50
$\Delta = 80°$. $h = 33$ km. Ryukyu Islands. $H = 03\ 04\ 42.8$.

20 *e(S)·E* 07 13.8
eL·N 35
$\Delta = 93°$. $h = 37$ km. Leytc. $H = 06\ 47\ 43.4$.

20 *eL·NE* 09 48
$\Delta = 79°$. Ryukyu Islands. $H = 09\ 02\ 44.9$.

20 *eL·E* 15 52
$\Delta = 141°$. $h = 570$ km. Fiji Islands. $H = 15\ 10\ 26.7$.

20 *eiP·Z′* 15 45 16
Near shock.

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July.

21 *eL·E* 04h49m
$\Delta = 32°$. Azores. $H = 04\ 32\ 28.2$.

21 *iP·ZZ′* 19 03 04½
eL·NE 20
$\Delta = 80°$. $h = 33$ km. Ryukyu Islands. $H = 18\ 50\ 54.7$.

21 *eS·N* 23 02.1
eL·NE 25
$\Delta = 80°$. $h = 32$ km. Ryukyu Islands. $H = 22\ 39\ 53.2$.

22 *eL·N* 21 15
$\Delta = 41°$. Kirghiz. $H = 20\ 53\ 30.0$.

23 *ePKP·Z* 14 23 06
ePKS·E 26 46
ePPS·Z 38 39
e·N 45 57
eL·ZE 15 06.2 10^s
$\Delta = 138°$. $h = 44$ km. New Hebrides Islands. $H = 14\ 03\ 39.8$

23 *ePP·Z* 14 56 45
$\Delta = 108°$. $h = 33$ km. Pacific Ocean. $H = 14\ 37\ 56.9$.

23 *eL·N* 16 39
$\Delta = 139°$. New Hebrides Islands. $H = 15\ 30\ 17.2$.

23 *eP·Z* 22 07 42
ePKP·ZNE 10 22 *D* to East. 11^s, *Z*: 16 μ.
i·Z 11 25
e·E 13 22
i·ZE 13 26
i!PKS·NE 14 11
i(PPP)·Z 16 17
eSKSP·E 23 37
i·E 24 58
iPPS·Z 25 39 –
e·E 26 58
i·ZN 27 04
iSS·N 31 35
i!SSP·E 32 17 22^s
e·N 33 24
e·E 35.5
e(SSS)·N 36 33
e·N 37 04
eR·Z 56
20^s.*ZNE* 23 12 *Z*: 82 μ, *N*: 41 μ, *E*: 70 μ.
$\Delta = 139°$. $h = 44$ km. New Hebrides Islands.
$H = 21\ 51\ 07.5$. $M(L) = 7.6$ (*COP*).

24 *i!PKP·Z′* 01 49 26½ (*C*)
$\Delta = 144°$. $h = 598$ km. Fiji Islands. $H = 01\ 30\ 56.6$.

25 *eL·NE* 19 33
$\Delta = 103°$. Celebes. $H = 18\ 39\ 24.1$.

27 *eL·E* 18 48
$\Delta = 22°$. Crete. $H = 18\ 35\ 44.2$.

July.

27 *eL·ZNE* 24h30m
$\Delta = 52°$. Lake Baikal. $H = 23\ 59\ 26.9$.

28 *eP·Z′ZE* 01 18 24½ (*C*)
ipP·Z 19 00
iPP·Z 22 01
ipPP·Z 22 37
i!SKS·E 28 44 +, 8^s, 6 μ.
i!S·E 29 14 –, 8^s, 14 μ.
e(pS)·N 30 00
e(SP)·E 30 20
e(sSP)·E 31 17
e(SS)·E 35 39
$\Delta = 91°$. $h = 136$ km. Ecuador. $H = 01\ 05\ 30.0$.

28 *i(PKP)·Z′* 05 14 21 *C*
$\Delta = 138°$. $h = 50$ km. New Hebrides Islands.
$H = 04\ 54\ 55.1$.

28 *ePKP·Z* 06 31 16
iPKS·Z 34 36½
e(SKS)·Z 38 40
e·N 43 27
$\Delta = 138°$. $h = 41$ km. New Hebrides Islands.
$H = 06\ 11\ 38.7$.

28 *eL·NE* 10 51
$\Delta = 90°$. Mexico. $H = 10\ 13\ 51.1$.

28 *iP·Z′* 15 31 14 Confused by microseisms.
i·Z′ 31 26
eL·NE 16 02
$\Delta = 74°$. $h = 34$ km. Hokkaido. $H = 15\ 19\ 40.0$.

29 *ePKP·Z* 16 47 01
eiPKP·Z′ 47 04
eL·N 17 47
$\Delta = 148°$. $h = 23$ km. Tonga Islands. $H = 16\ 27\ 19.0$.

30 *eL·E* 17 00
$\Delta = 19°$. Aegean Sea. $H = 16\ 34.5$.

August.

1 *ePKP·Z* 05 59 04
ePP·Z 06 01 01
eL·E 34
$\Delta = 128°$. $h = 50$ km. Solomon Islands. $H = 05\ 39\ 53.2$.

1 *ePP·Z* 07 41 02 Confused by previous shock.
eL·ZNE 08 22
$\Delta = 116°$. $h = 44$ km. South Sandwich Islands.
$H = 07\ 21\ 12.3$.

1 *eL·ZNE* 10 36
$\Delta = 117°$. South Sandwich Islands. $H = 09\ 34\ 40.7$.

2 *eL·N* 03 34
$\Delta = 116°$. South Sandwich Islands. $H = 02\ 31\ 28.9$.

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August.

2 *iP·Z′* 12h23m34s (*D*)
Δ = 74°. *h* = 38 km. Kurile Islands. *H* = 1 12 02.0.

3 *iP·Z′* 03 18 58½ (*C*)
eS·N 27 53
e(*ScS*)·*NE* 28 51
Δ = 68°. *h* = 132 km. Puerto Rico. *H* = 03 08 05.1.

3 *eL·N* 07 48
Δ = 108°. Ceram. *H* = 06 51 41.1.

3 *eL·NE* 24 25
Δ = 101°. Mariana Islands. *H* = 23 33 37.7.

4 *eL·E* 18 49
Δ = 40°. North Atlantic Ocean. *H* = 18 35 20.8.

4 *eL·NE* 23 30
Δ = 73°. Kurile Islands. *H* = 22 52 54.0.

7 *ePP·Z* 04 40 (30)
e·E 47.1
e(*SKS*)·*NE* 48.1
eL·N 05 16
Δ = 103°. *h* = 18 km. Celebes. *H* = 04 22 20.5.

7 *eL·NE* 11 36
Δ = 102°. Celebes. *H* = 10 43 21.

7 *iPKP·Z′* 12 42 48 Confused by microseisms.
eSS·E 13 05 32
eL·N 46
Δ = 152°. *h* = 33 km. Kermadec Islands. *H* = 12 22 24.2.

7 *eL·NE* 16 35

8 *e*(*PKP*)·*Z* 00 38 25
eL·ZNE 02 00
Δ = 152°. *h* = 33 km. Kermadec Islands. *H* = 00 18 52.3.

8 *iP·Z′Z* 12 29 55½ *D* to North.
i·Z 30 29½
iS·N 39 28
eSS·N 44.0
eL·N 54
Δ = 73°. *h* = 33 km. Fox Islands. *H* = 12 18 23.1.

9 *eL·N* 17 21
Δ = 139°. New Hebrides Islands. *H* = 16 02 35.5.

10 *eL·NE* 12 45
Δ = 73°. Hokkaido. *H* = 12 05 29.8.

11 *eL·NE* 01 22
Δ = 66°. Commander Islands. *H* = 00 43 29.6.

11 *eL·ZNE* 05 16
Δ = 78°. Kyushu. *H* = 04 27 23.3.

August.

11 *eL·NE* 06h50m
Δ = 78°. Kyushu. *H* = 06 08 16.7.

11 *eL·N* 11 55
Δ = 102°. Celebes. *H* = 11 04 39.1.

11 *i*!*P·Z′ZNE* 16 03 06½ *C* from North-east, *Z*: 7s, 34 *μ*.
i·Z 03 31
i(*PP*)·*Z* 05 40
iPPP·N 07 31
i·Z 08 43 10s
i·ZN 12 28 *Z*: –, *N*: +.
i!*S·NE* 12 33½ *N*: –, *E*: +.
i!(*SKS*)·*N* 13 09
i(*PS*)·*Z* 13 21
i!·*E* 13 25
i!(*PPS*)·*N* 13 31
i·E 14 13
iSS·E 17 21
i·E 17 49
i·E 18 16
i·E 19 10
e·E 19 50
iSSS·E 20 33
i·E 23 51
eL·NE 26
20s. *ZNE* 38 *Z*: 130 *μ*, *N*: 94 *μ*, *E*: (110) *μ*.
Δ = 74°. *h* = 50 km. Hokkaido. *H* = 15 51 34.6.
M(*L*) = 7.3 (*COP*).

11 *eP·Z′* 22 51 35
ePP·Z 55 (37)
ePPP·Z 57 41
eSKS·NE 23 02 05
eS·NE 03 12
ePS·ZE 04 40
eSS·N 10 09
e·N 12 41
e·N 15 40
eL·NE 31
Δ = 103°. *h* = 33 km. Celebes. *H* = 22 37 24.7.

11 *eiP·Z′* 23 23 15
Δ = 74°. *h* = 95 km. Honshu. *H* = 23 11 48.2.

11 *iP·ZZ′* 23 45 23 *C*
i·Z′ 45 35
i(*PcP*)·*Z′* 45 47
Δ = 74°. *h* = 50 km. Hokkaido. *H* = 23 33 52.2.

13 *eL·NE* 06 45
Δ = 80°. Formosa. *H* = 06 01 01.8.

14 *ePKP·Z* 19 10 35
i·Z 10 41½
eL·N 20 10
Δ = 148°. *h* = 70 km. Tonga Islands. *H* = 18 50 55.3.

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August.

14 *eL·NE* 22h46m
$\Delta = 78°$. Kyushu. $H = 22\ 04\ 59.7$.

14 *ePKP·Z* 23 48 02
iPP·Z 51 06½
ePKS·NE 51 49
iPPP·Z 54 10
e(SS)·E 24 10 33
e(SSS)·N 15 (04) 21s
e·N 26 (16) 21s
eL·NE 32
$\Delta = 141°$. $h = 97$ km. New Hebrides/Loyalty Islands.
$H = 23\ 28\ 46.5$.

15 *iP·ZZ'* 19 16 16 *D*
eS·NE 26 27
e·N 28 30
e(SS)·N 31 43
e(SSS)·NE 36 00
eL·NE 48
$\Delta = 82°$. $h = 39$ km. Honshu. $H = 19\ 03\ 55.7$.

16 *eS·N* 16 37 02
eSS·N 41 42
eL·ZN 51
$\Delta = 73°$. $h = 25$ km. Ascension Island. $H = 16\ 15\ 57.5$.

17 *eL·ZE* 07 46
$\Delta = 135°$. Easter Island. $H = 06\ 36\ 23.0$.

17 *iP·Z'ZNE* 21 27 38 *D* to North-east. *Z:* 6s, 7 μ.
iPcP·Z' 27 57
ipP·Z 28 17
i(PP)·Z' 30 09½
ipPP·Z' 30 59
iPPP·N 32 06
epPPP·N 32 41
iPPPP·Z 33 13
eS·N 36 44
eScS·N 37 14
i(pS)·E 37 28 8s, 4½ μ.
epScS·E 38 19
i(sScS)·N 38 41
isSS·E 42 35 10s, 5 μ.
eL·NE 45
$\Delta = 72°$. $h = 160$ km. Kurile Islands. $H = 21\ 16\ 30.1$.

19 *iP·Z'* 02 54 33
eL·N 03 26
$\Delta = 74°$. $h = 32$ km. Hokkaido. $H = 02\ 42\ 58.2$.

19 *iP·Z'ZNE* 05 22 10½ *D* to South-west. *Z:* 8s, 10 μ.
i!·Z' 22 12
ipP·Z 24 22½
e(sP)·Z 25 17
iPP·Z 26 08
e(PPP)·Z 28 59
e·Z 31 03

August.

19 *eSKS·N* 05h31m48s —. (Con.).
i!SKS·E 31 49 +.
i·Z 32 28
i!S·NE 32 35 *N:* —, *E:* —.
i!SP·Z 33 53 10s, 16 μ.
i·E 34 02
e·Z 34 34 11s, 14 μ.
epS·N 35 10
iPS·Z 35 15
i!·E 35 25
i!PPS·E 36 04
isS·NE 36 30
e(sPS)·E 37 41
i·E 38 41
i!SS·E 39 10
i!·E 39 32
i·E 40 20
iSSP·N 41 03
i(SSS)·N 41 42
e(sSS)·N 42 25
eL·E 43
$\Delta = 95°$. $h = 649$ km. Peru/Brazil. $H = 05\ 09\ 49.5$.
$M(P) = 7.2$ (*COP*).

19 *ei(P)·Z'* 05 24 27
19 *ei(P)·Z'* 05 28 04
} Aftershocks of Peru/Brazil earthquake?

19 *iP·Z'* 05 29 52
Peru/Brazil aftershock. $H = 05\ 17.5$.

19 *iP·Z'* 05 32 02½
19 *iP·Z'* 05 39 01
} Aftershocks of Peru/Brazil earthquake?

19 *iP·Z'Z* 05 45 25½ *C*
iS·N 55 15
i!·E 55 19
$\Delta = 76°$. $h = 17$ km. Honshu. $H = 05\ 33\ 30.6$.

19 *eL·E* 12 14
$\Delta = 16°$. Italy. $H = 12\ 04.4$.

19 *eL·NE* 14 06
$\Delta = 76°$. Honshu. $H = 13\ 24\ 11.8$.

19 *iP·Z'* 15 03 34½ (*D*)
eS·NE 12 42
eL·N 31
$\Delta = 70°$. $h = 100$ km. Mona Passage. $H = 14\ 52\ 29.7$.

20 *iPKP·Z'* 05 22 40½ (*C*)
$\Delta = 141°$. $h = 592$ km. Fiji Islands. $H = 05\ 04\ 14.3$.

21 *iP·Z* 17 12 10 Willmore. (No *Z'* record).
eL·NE 40
$\Delta = 74°$. Honshu. $H = 17\ 00\ 38.9$.

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August.
22 *eL·NE* 10h15m
$\Delta = 133°$. New Hebrides Islands. $H = 08\ 59\ 27.9$.

23 *iP·Z* 04 20 18 (*C*) Willmore. (No *Z'* record).
eL·ZNE 31
$\Delta = 40°$. $h = 25$ km. Tadzhik. $H = 04\ 12\ 35.9$.

24 *eP·Z* 22 52 26 Willmore. (No *Z'* record).
$\Delta = 74°$. $h = 45$ km. Hokkaido. $H = 22\ 40\ 54.6$.

27 *eP·Z'Z* 02 03 29
eL·NE 31
$\Delta = 74°$. $h = 49$ km. Ascension Island. $H = 01\ 51\ 51.8$.

27 *iP·Z'Z* 16 33 38 *C*
i·Z 33 45
eS·N 43 02
ePS·Z 43 41
eL·E 58
$\Delta = 72°$. $h = 45$ km. Kurile Islands. $H = 16\ 22\ 12.8$.

27 *iP·Z'* 21 07 46 (*C*)
$\Delta = 73°$. $h = 51$ km. Kurile Islands. $H = 20\ 56\ 20.9$.

27 *iP·Z'Z* 22 13 33 (*D*) *Z'*: –, *Z*: +.
iS·E 17 27
eSS·E 17 52
eL·NE 21
$\Delta = 21°$. $h = 33$ km. Crete. $H = 22\ 08\ 45.2$.

28 *iP·Z'* 12 25 18½ *D*
$\Delta = 72°$. $h = 45$ km. Kurile Islands. $H = 12\ 13\ 50.6$.

29 *eP·Z'* 15 02 39
eL·ZN 28
$\Delta = 70°$. $h = 41$ km. Fox Islands. $H = 14\ 51\ 14.2$.

29 *iP·Z'* 20 01 25½
$\Delta = 72°$. $h = 17$ km. Kurile Islands. $H = 19\ 49\ 52.9$.

30 *eL·NE* 04 03
$\Delta = 62°$. Atlantic Ocean. $H = 03\ 35\ 02.7$.

31 *iPKP·Z'* 00 42 38 (*D*)
$\Delta = 152°$. $h = 56$ km. Kermadec Islands. $H = 00\ 22\ 47.3$.

31 *iP·Z'Z* 02 00 59 *D* *Z*: 5s, 4 μ.
i!·Z' 01 00
ipP·Z 03 08 +, 7s, 4 μ.
iPP·Z'Z 04 58 *Z*: 4s, 2 μ.
i·Z 07 50 6s, 3 μ.
iSKS·NE 10 39
iS·N 11 22 –.
i!·E 11 24 –, 7s, 16 μ.
iPS·E 14 09
iSS·N 18 11
iSSS·Z 22 12
$\Delta = 95°$. $h = 626$ km. Peru/Brazil. $H = 01\ 48\ 37.5$.
$M(P) = 6.8$ (*COP*).

August.
31 *iP·Z'* 02h09m27s *C*
i!P·Z 09 30 *D* 6s, 8 μ.
i!·Z 09 34
i·Z' 10 05
i!pP·Z 11 44 –, 6s, 9 μ.
i·Z' 12 23
iPP·Z' 13 22
i(pPP)·Z 15 35
i!SKS·E 19 09 7s, 39 μ.
i!S·ZNE 19 55 *Z*: –, 10s, 19 μ. In time break.
i!SP·E 21 06 8s, 26 μ.
i!PS·E 22 35
i!SS·NE 26 38 9s
$\Delta = 95°$. $h = 629$ km. Peru/Brazil. $H = 01\ 57\ 08$.
$M(P) = 7.2$ (*COP*).

31 *i(P)·Z'* 02 26 20
i!·Z' 26 26
Peru/Brazil aftershock?

31 *e(P)·Z'* 02 34 25
i·Z' 34 37
Peru/Brazil aftershock?

September.
1 *eP·Z* 00 24 30
ePKP·Z' 28 11 (*C*)
iPP·Z 29 23
iPPP·Z 32 09
iSKS·N 34 51
iS·E 37 24 –, 12s, 7 μ.
iSP·E 39 08
ePS·N 39 19 12s, 12 μ.
iPPS·Z 40 28
eSS·E 45 41 16s, 10 μ.
e·E 49 11
eSSS·E 50 00 18s, 12 μ.
$\Delta = 119°$. $h = 131$ km. South Sandwich Islands.
$H = 00\ 09\ 34.6$.

1 *e(PKP)·Z* 00 38 23
South Sandwich Islands Aftershock?

1 *eP·Z'Z* 19 03 20
i·ZE 03 21 *ZE*: –.
eSKS·E 13 48
eL·E 32
$\Delta = 87°$. $h = 37$ km. Guatemala. $H = 18\ 50\ 35.4$.

2 *iP·Z'* 00 37 34 *C*
$\Delta = 72°$. $h = 39$ km. Fox Islands. $H = 00\ 26\ 06.2$.

3 *iP·Z'* 17 40 27
$\Delta = 68°$. $h = 33$ km. Kamchatka. $H = 17\ 29\ 25.2$.

4 *iP·Z'* 03 29 (01) Confused by time mark.
$\Delta = 83°$. 492 km. Honshu. $H = 03\ 17\ 24.6$.

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September.

4 *iP·Z′* 05h04m43s *D*
$\Delta = 72°$. $h = 60$ km. Kurile Islands. $H = 04\ 53\ 19.2$.

4 *iP·Z′Z* 10 00 39
eL·ZNE 26
$\Delta = 72°$. $h = 40$ km. Andreanof Islands. $H = 09\ 49\ 13.5$.

5 *eL·ZNE* 01 29
$\Delta = 18°$. Greece. $H = 01\ 16\ 51.7$.

5 *eP·Z* 02 43.0
eS·N 47 33
eL·ZNE 50
$\Delta = 25°$. $h = 33$ km. Spitsbergen. $H = 02\ 37\ 37.8$.

5 *iP·Z′Z* 06 20 52 (*D*)
ipP·Z′ 21 23
iPP·ZE 22 40
iPPP·Z 23 18
eS·E 27 12
esS·N 28 05
eSS·N 30 27
$\Delta = 43°$. $h = 104$ km. Tadzhik. $H = 06\ 12\ 59.7$.

5 *iP·Z′ZN* 11 45 20 *C* from North.
iPP·Z 47 39
e(S)·E 53 44
i(S)·E 54 05
i(ScS)·E 55 22
eL·NE 12 09
$\Delta = 64°$. $h = 43$ km. Alaska. $H = 11\ 34\ 37.3$.

8 *eL·ZNE* 05 30
$\Delta = 68°$. Queen Charlotte Islands. $H = 04\ 52\ 08.6$.

8 *eP·Z* 11 41 22
ipP·Z 41 46 +.
iPKP·Z 45 07 –.
ipPKP·Z 45 34 –.
iPP·ZN 46 10 *ZN:* –.
ipPP·ZE 46 30 *ZE:* –.
isPP·Z 46 59 –.
iPPP·ZN 48 39 *ZN:* –.
iSKS·N 51 44 –, 10s, 10 μ.
i(SKKS)·N 52 25
i(sSKS)·NE 53 02 *NE:* +, 12s, *N:* 19 μ, *E:* 12 μ.
e(PKKP)·ZN 55 23
i(PKKP)·Z 55 35 –.
i!PS·ZN 55 51 *ZN:* –, 8s, *Z:* 29 μ, *N:* 22 μ.
i!PS·E 55 57 +, 8s, 12 μ.
iSS·NE 12 02 00
iSSP·N 02 28
isSS·N 02 51
iSSS·NE 06 29 14s, *N:* 15 μ, *E:* 20 μ.
isSSS·E 07 14
eL·E 15
20s. *ZNE* 31 *Z:* 58 μ, *N:* 77 μ, *E:* 42 μ.
$\Delta = 116°$. $h = 125$ km. South Sandwich Islands.
$H = 11\ 26\ 32.9$. $M(L) = 7.5$ (*COP*).

September.

10 *e·N* 09h09.9m
M·ZNE 17.6 *Z:* 12s, 8 μ. *N:* 10s, 6 μ.
E: 11s, 3½ μ.
$\Delta = 24°$. Novaya Zemlya. Nuclear explosion.
$H = 09\ 00\ 09.2$.

10 *eL·NE* 16 33
$\Delta = 24°$. Turkey. $H = 16\ 17\ 20$.

10 *iPKP·Z′* 18 28 42
$\Delta = 151°$. $h = 152$ km. Kermadec Islands. $H = 18\ 09\ 07.3$.

11 *iP·Z′* 02 58 15 *D*
eL·NE 03 32
$\Delta = 72°$. $h = 60$ km. Rat Islands. $H = 02\ 46\ 50.3$.

11 *eiP·Z′* 23 58 52
$\Delta = 74°$. $h = 49$ km. Hokkaido. $H = 23\ 47\ 23.1$.

12 *eS·NE* 10 17.9
M·E 25.6 10s, 2 μ.
M·ZN 25.7 *ZN:* 10s, 3½ μ.
$\Delta = 24°$. Novaya Zemlya. Nuclear explosion.
$H = 10\ 08\ 15.3$.

12 *iP·Z′* 12 38 39 *D*
eL·E 13 08
$\Delta = 74°$. $h = 50$ km. Kurile Islands. $H = 12\ 27\ 07.6$.

12 *eL·N* 20 01
$\Delta = 81°$. California/Mexico. $H = 19\ 18\ 42.9$.

12 *eL·ZNE* 20 34
$\Delta = 120°$. South Sandwich Islands. $H = 19\ 29\ 09.2$.

13 *eL·NE* 22 21
$\Delta = 122°$. Chile. $H = 21\ 19\ 19.9$.

14 *iP·Z′* 08 09 44 *C*
$\Delta = 33°$. $h = 33$ km. Iran/Iraq. $H = 08\ 03\ 08.7$.

14 *M·ZNE* 10 13.7 10s, *Z:* 3½ μ, *N:* 4 μ, *E:* 1¾ μ.
$\Delta = 24°$. Novaya Zemlaya. Nuclear explosion.
$H = 09\ 56\ 16.7$.

15 *iP·ZNE* 01 51 36 *C* from South-east, 6s, *Z:* 4½ μ,
NE: 2 μ.
iP·Z′ 51 37 *D*
ipP·Z′ 51 45½
i·Z 51 50
eS·N 55 58
i·Z 56 18 8s, 4 μ.
i·E 56 26 9s, 6 μ.
e·E 57 32
e·N 59 22
$\Delta = 25°$. $h = 36$ km. Cyprus. $H = 01\ 46\ 09.9$.
$M(P) = 6.2$ (*COP*).

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September.

16 $e \cdot Z$ 09h23.8m
$e \cdot E$ 24.6
$e \cdot E$ 25.6 Confused by microseisms.
$M \cdot ZN$ 25.7 ZN: 10s, $2^3/_4\,\mu$.
$M \cdot E$ 26.5 6s, 2 μ.
$\Delta = 24°$. Novaya Zemlaya. Nuclear explosion.
$H = 09\ 08\ 13.7$.

17 $iP \cdot Z'$ 08 54 08 (C)
$eL \cdot NE$ 09 25
$\Delta = 80°$. $h = 53$ km. Formosa. $H = 08\ 41\ 57.3$.

18 $eL \cdot E$ 05 23 Confused by microseisms.
$\Delta = 23°$. Crete. $H = 05\ 08\ 31.9$.

18 $e \cdot N$ 08 15.2
$e \cdot E$ 15.8
$M \cdot ZNE$ 17.1 10s, Z: $3^1/_2\,\mu$, N: $2^3/_4\,\mu$, E: $2^1/_4\mu$.
$\Delta = 24°$. Novaya Zemlya. Nuclear explosion.
$H = 07\ 59\ 36.8$.

18 $eP \cdot Z'$ 11 06 58
$i \cdot Z'$ 06 $58^1/_2$ +.
$i(ScS) \cdot ZN$ 17 35
$eL \cdot ZNE$ 18
$\Delta = 28°$. $h = 55$ km. Caspian Sea. $H = 11\ 01\ 04.5$.

19 $iP \cdot Z'$ 02 38 32 D
$i \cdot Z'$ 38 36
$ePP \cdot Z$ 42 39
$eSKS \cdot NE$ 48 16
$i \cdot E$ 48 21 6s, 3 μ.
$e(SKKS) \cdot E$ 48 46
$iS \cdot N$ 49 15
$ePS \cdot E$ 51 58
$\Delta = 98°$. $h = 580$ km. Bolivia. $H = 02\ 25\ 49.2$.

19 $eP \cdot Z'Z$ 09 59 05
$e(S) \cdot E$ 10 09 38
$i(ScS) \cdot NE$ 09 52
$i(SP) \cdot N$ 10 14
$eL \cdot ZNE$ 25
$\Delta = 87°$. $h = 33$ km. Panama. $H = 09\ 46\ 17.7$.

19 $iPKP \cdot Z'$ 18 44 00 C
$\Delta = 145°$. $h = 592$ km. Fiji Islands. $H = 18\ 25\ 28.9$.

19 $eL \cdot ZNE$ 22 40
$\Delta = 119°$. South Sandwich Islands. $H = 21\ 34\ 42.3$.

20 $e \cdot E$ 08 28.6
$M \cdot ZNE$ 29.7 10s, Z: $2^3/_4\,\mu$, N: $2^1/_2\,\mu$, E: $1^1/_2\,\mu$.
$\Delta = 24°$. Novaya Zemlya. Nuclear explosion.
$H = 08\ 12\ 09$.

20 $ePP \cdot Z$ 19 23 38
$ePS \cdot Z$ 33 19
$ePPS \cdot Z$ 34 41

September.

20 $eSS \cdot N$ 19h39m48s (Con.).
$eSSS \cdot E$ 44 27
$eL \cdot E$ 20 00
$\Delta = 118°$. $h = 44$ km. New Britain. $H = 19\ 03\ 37.7$.

22 ($e \cdot E$ 08 16.5)
$e \cdot N$ 17.5
$M \cdot E$ 18.3 9s, $1^1/_4\,\mu$.
$M \cdot ZN$ 18.6 10s, Z: $1^3/_4\,\mu$, N: $1^1/_4\,\mu$.
$\Delta = 24°$. Novaya Zemlya. Nuclear explosion.
$H = 08\ 00\ 53$.

24 $eiP \cdot Z'$ 21 53 06
$eS \cdot NE$ 22 03.5
$eL \cdot NE$ 23
$\Delta = 81°$. $h = 50$ km. Honshu. $H = 21\ 40\ 57.3$.

27 $ei \cdot Z'$ 06 55 21 Confused by microseisms.
($\Delta = 141°$. $h = 555$ km. Fiji Islands. $H = 06\ 34\ 05.4$).

27 $eiP \cdot Z'$ 11 32 15
$\Delta = 72°$. $h = 27$ km. Fox Islands. $H = 11\ 20\ 46.8$.

27 $eSS \cdot E$ 12 43.7
$eL \cdot ZNE$ 13 10
$\Delta = 118°$. $h = 33$ km. South Sandwich Islands.
$H = 12\ 07\ 32.6$.

27 $i(P) \cdot Z'$ 17 53 38

27 $iP \cdot Z'$ 19 32 $12^1/_2$
$\Delta = 71°$. $h = 42$ km. Fox Islands. $H = 19\ 20\ 48.6$.

27 $eiP \cdot Z'$ 19 38 25
$e(ScS) \cdot N$ 48 37
$eL \cdot ZNE$ 20 09
$\Delta = 71°$. $h = 22$ km. Fox Islands. $H = 19\ 27\ 00.7$.

28 $iP \cdot Z'$ 03 37 04
$e(SKS) \cdot E$ 46 58
$eScS \cdot NE$ 47 25
$eL \cdot NE$ 04 09
$\Delta = 83°$. $h = 41$ km. Honshu. $H = 03\ 24\ 37.7$.

28 $iP \cdot Z'$ 05 08 27
$\Delta = 43°$. $h = 204$ km. Hindu Kush. $H = 05\ 00\ 43.4$.

28 $eL \cdot E$ 05 47.4
$\Delta = 19°$. Turkey. $H = 05\ 35.1$.

28 $iP \cdot Z'$ 22 44 22
$i \cdot Z'$ 44 $31^1/_2$
$i \cdot Z'$ 44 $38^1/_2$
$\Delta = 42°$. $h = 41$ km. Iran. $H = 22\ 36\ 24.7$.

29 $iP \cdot Z'$ 17 02 08 (C)
$\Delta = 74°$. $h = 45$ km. Hokkaido. $H = 16\ 50\ 35.4$.

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September.

29 *e·Z* 19h23m57s
ePP·Z 24 29
ePPP·Z 26 44
e(SKS)·E 30 58
e(PS)·E 34 (04)
eSS·N 38 (05)
e·N 44 24
eL·N 58
Δ = 101°. *h* = 110 km. Celebes. *H* = 19 06 13.4.

30 *eP·Z'* 00 32 51½ +
i·Z' 32 52 –
Δ = 73°. *h* = 49 km. Kurile Islands. *H* = 00 21 18.8.

October.

2 *iP·Z'ZN* 07 26 16½ *C* from South.
i·Z' 26 24
i·Z' 26 31½
eS·Z 29 56
eS·E 29 59
eL·NE 34
i(Lg)·ZN 35 14 *ZN:* –
M·ZN 35.5 12s, *Z:* 19½ μ, *N:* 17½ μ.
M·E 35.9 10s, 11½ μ.
Δ = 20°. *h* = 33 km. Greece. *H* = 07 21 44.7.

2 *eL·ZNE* 08 22 25s

2 *e·N* 10 47.8
M·E 48.2 Confused by microseisms.
M·N 48.3 10s, 1 μ.
M·Z 48.6 10s, 1¼ μ.
Nuclear explosion, Novaya Zemlya.

4 *eL·N* 03 31
Δ = 133°. New Hebrides Islands. *H* = 02 23 23.5.

4 *e·E* 07 42.8
M·ZNE 48.4 *Z:* 10½s, 5 μ, *N:* 10s, 5 μ, *E:* 10s, 2¾ μ.
Δ = 24°. Novaya Zemlya. Nuclear explosion.
H = 07 30 54.8.

5 *e(P)·Z* 22 47 18
eS·NE 57 16
eL·NE 23 17
Δ = 80°. *h* = 39 km. Formosa. *H* = 22 34 58.9.

6 *eP·NE* 07 05 28
iP·Z 05 33
eS·N 09 56
eL·E 12.3
eL·ZN 14.7
M·ZNE 17.6 *Z:* 11s, 6¼ μ, *N:* 10s, 6½ μ, *E:* 11s, 3¾ μ.
Δ = 24°. Novaya Zemlya. Nuclear explosion.
H = 07 00 12.2.

October.

10 *eL·N* 18h23m
Δ = 114°. New Guinea. *H* = 17 24 58.9.

12 *eL·ZNE* 07 10
(Δ = 116°. New Guinea. *H* = 06 01 28.6).

13 *iPKP·Z'Z* 17 47 41½ *D Z:* 3s, 2¼ μ.
i!·Z' 47 42 +
Δ = 146°. *h* = 55 km. Tonga Islands. *H* = 17 28 21.5.

16 *i(P)·Z'* 13 27 09½
i·Z' 27 13½
i·Z' 27 22

17 *eL·NE* 05 28
Δ = 111°. Bouvet Island. *H* = 04 27 31.3.

17 *iP·Z'* 13 11 18
iS·Z' 11 34
Δ = 1¾°. Bornholm. *H* = 13 10 47.

18 *ePP·Z* 17 11 (48)
eSKKS·E 19 (08)
eS·N 19 (36)
ePS·E 21 41
eSS·NE 28.0
eL·NE 51
Δ = 117°. *h* = 33 km. Chile. *H* = 16 51 57.3.

20 *e·N* 08 21.8
M·ZNE 24.6 *Z:* 10s, 3¾ μ. *N* and *E* confused by microseisms. *N:* 3¼ μ, *E:* 1½ μ.
Δ = 24°. Novaya Zemlya. Nuclear explosion.
H = 08 07 02.0.

22 *e(SKS)·N* 10 16.9
eL·N 11 02
Δ = 142°. *h* = 65 km. New Hebrides Islands. *H* = 09 50 30.8.

23 *ePKP·Z* 00 27 32
ePP·Z 29 05
e(SKS)·N 35 37
iPS·Z 39 12
iPS·N 39 18
i·Z 44 52
eSS·N 45.9
eL·E 59
Δ = 121°. *h* = 33 km. South Sandwich Islands.
H = 00 08 36.6.

23 *e·ZNE* 08 43 (41)
i·E 47 44 –
M·ZNE 48.8 *Z:* 11s, 15 μ, *N:* 10s, 14½ μ, *E:* 10s, 8 μ.
Δ = 24°. Novaya Zemlya. Nuclear explosion. *H* = 08 31 22.1.

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October.

23 *iP·Z′* 10h36m00s (*D*)
i·Z′ 36 04 +
i(PP)·Z′ 36 23 +
Δ = 23°. Novaya Zemlya. Submarine nuclear explosion.
H = 10 30 48.5.

23 *eL·N* 15 28
Δ = 101°. Molucca Strait. *H* = 14 39 35.3.

25 *e·Z* 08 47.5
M·E 48.5 (10s), 1½ *μ* } Confused by microseisms.
M·Z 48.6 10s, 1½ *μ* } Confused by microseisms.
M·N 48.7 (10s), 2 *μ* } Confused by microseisms.
Δ = (24°). Novaya Zemlya. Nuclear explosion. *H* = 08 31 03.

26 *ePP·Z* 00 58 14
eSKKS·E 01 05 15
iPS·E 08 01
ePPS·Z 09 (11)
eSS·E 14.3
e·E 17 38
e(SSS)·E 19 16
eL·NE 35
Δ = 117°. *h* = 33 km. Bismarck Sea. *H* = 00 38 22.8.

26 *iP·Z* 15 39 55 *C*
eSKS·E 50 17
eS·N 50 27
iScS·NE 50 42
eSKKS·N 50 52
iPS·E 51 55
ePPS·E 52 03
eSS·E 56 45
eL·N 16 08
Δ = 88°. *h* = 34 km. Sumatra. *H* = 15 27 05.9.

28 *iP·Z′* 10 53 17 *C*
eL·NE 11 07
Δ = 33°. *h* = 52 km. Iran. *H* = 10 46 42.2.

28 *eL·E* 15 53
Δ = 119°. Chile. *H* = 14 49 17.5.

28 *ePP·Z* 23 06.1 Confused by microseisms.
ePKS·N 07.2
iPKS·E 07 22½
e(SKS)·NE 11 48
Δ = 134°. *h* = 37 km. New Hebrides Islands.
H = 22 44 30.2.

28 *eL·N* 23 16
Δ = 52°. Lake Baikal. *H* = 22 45 45.6.

29 *e(SSS)·E* 09 40.0
eL·E 43
Δ = 70°. *h* = 16 km. Vancouver Island. *H* = 09 12 15.7.

October.

30 *iP·Z′* 02h28m28½s
eP·Z 28 31
eL·E 03 01
Δ = 77°. *h* = 36 km. Oregon. *H* = 02 16 32.7.

30 *eiP·Z′* 08 38 48
i·Z′ 38 49½ +
i!·Z′ZNE 38 51 *Z′*: –, *Z*: +, 3½s, 2½ *μ*, *NE*: –, 5s, 2¼ *μ*, 1 *μ*.
i·Z′ 38 55 –
i·Z 42 51 +
eS·N 43 16 +, (6s), 1½ *μ*.
eS·E 43 24 5s, 1½ *μ*.
i·Z 43 30 +
i·Z 43 37 –
i·E 43 39 +, 5s, 1½ *μ*.
e·N 43 40 +, 5s, 2¾ *μ*.
i·Z 45 35 +
i·E 45 41½ –, 5s, 2¼ *μ*.
eL·N 46.7
eL·Z 46.9 5s, 1½ *μ*.
M·ZNE 51.0 *Z*: 12s, 40 *μ*, *N*: 10s, 36 *μ*, *E*: 11s, 22 *μ*.
Δ = 24°. Novaya Zemlya. Nuclear explosion.
H = 08 33 27.8.

30 *iPKP·Z′* 17 54 36 *D*
Δ = 152°. *h* = 219 km. Kermadec Islands. *H* = 17 35 03.3.

30 *eL·N* 22 01
Δ = 85°. Honshu. *H* = 21 15 35.2.

31 *e·NE* 08 44.5 Confused by microseisms.
e·Z 45.1
M·E 46.6 7s, 3½ *μ*.
M·N 46.9 (8s), 4 *μ*.
M·Z 47.3 6s, 5 *μ*.
Δ = 25°. Novaya Zemlya. Nuclear explosion. *H* = 08 29 17.2.

31 *e·N* 08 55.2 Confused by microseisms.
e·Z 55.8
M·N 56.4 6s, 3½ *μ*.
M·Z 56.6 6s, 3 *μ*.
Δ = 26°. Novaya Zemlya. Nuclear explosion. *H* = 08 38 00.5.

November.

4 *e·E* 07 35.5 Confused by microseisms.
M·ZN 38.0 *Z*: (10s), 3¼ *μ*, *N*: 10s, 2¾ *μ*.
Δ = 25°. Novaya Zemlya. Nuclear explosion. *H* = 07 20 19.7.

5 *iP·Z′* 03 53 17 (*D*)
Δ = 74°. *h* = 18 km. Kurile Islands. *H* = 03 41 40.0.

5 *eP·Z′* 10 47 50
i·Z′ 47 55
Δ = 72°. *h* = 142 km. Kurile Islands. *H* = 10 36 39.5.

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November.

6 *eL·N* 06h36m
$\Delta = 133°$. New Hebrides Islands. $H = 05\ 28\ 22.8$.

6 *eL·N* 12 53
$\Delta = 45°$. Hindu Kush. $H = 12\ 29\ 05.5$.

7 *eL·ZNE* 02 11
$\Delta = 72°$. Oregon/Washington. $H = 01\ 29\ 08.4$.

10 *iPKP·Z'* 18 19 14
$\Delta = 141°$. $h = 586$ km. Fiji Islands. $H = 18\ 00\ 49.6$.

12 *iP·Z'* 02 24 59 *D*
eL·E 48
$\Delta = 57°$. $h = 39$ km. Congo. $H = 02\ 15\ 16.7$.

14 *eSKS·N* 05 05 39
eS·N 05 54
i(ScS)·N 06 12
ePS·N 07 05
eL·NE 20
$\Delta = 87°$. $h = 29$ km. Panama. $H = 04\ 42\ 26.5$.

15 *i!P·Z'Z* 07 28 45 *C Z:* $6\frac{1}{2}$s, 16 μ.
i(pP)·Z' 28 55 +
i!·Z' 28 58 −
iPcP·Z' 29 $02\frac{1}{2}$ +
i·Z' 29 $09\frac{1}{2}$ −
i·Z' 29 $37\frac{1}{2}$ −
ePP·Z 31 28
i·Z 31 35 −
iPPP·Z 33 $14\frac{1}{2}$ +, 6s, 5 μ.
ePPPP·Z 34 12
e·Z 34 42
i!S·NE 38 $13\frac{1}{2}$ *N:* −, 10s, $16\frac{1}{2}$ μ. *E:* +, 7s, $14\frac{1}{2}$ μ.
i(sS)·N 38 $31\frac{1}{2}$ 6s, $11\frac{1}{2}$ μ.
i(PS)·N 39 10
i(PPS)·Z 39 21
eL·NE 46
20s·*ZNE* 08 04 *Z:* 60 μ, *N:* 50 μ, *E:* (50) μ.
$\Delta = 74°$. $h = 43$ km. Hokkaido. $H = 07\ 17\ 12.4$.
$M(L) = 7.0$ (*COP*), $M(P) = 7.5$ (*COP*).

18 *iPKP·Z'* 11 36 45 *D*
$\Delta = 151°$. $h = 61$ km. Kermadec Islands. $H = 11\ 16\ 56.8$.

18 *eiP·Z'* 22 21 57
i·Z' 22 22 +
eL·N 51
$\Delta = 80°$. $h = 38$ km. Formosa. $H = 22\ 09\ 51.9$.

19 *i(PKP)·Z'* 10 31 44 *D*
($\Delta = 123°$. $h = 42$ km. Solomon Islands. $H = 10\ 12\ 48.4$).

19 (*iP·Z'* 23 35 26 *D*)
ePP·Z 39 50
epPP·Z 40 36

November.

19 *iSKS·E* 23h45m53s −, 5s, 2 μ. (Con.).
eS·E 47 18
e(SP)·Z 48 24
eSS·E 54 19
esSS·N 55 14
eL·N 24 12
$\Delta = 102°$. $h = 157$ km. Celebes. $H = 23\ 21\ 55.5$.

20 *eP·Z'* 04 12 (12)
eL·ZNE 29
$\Delta = 46°$. $h = 33$ km. Outer Mongolia/Siberia. $H = 04\ 03\ 56.7$.

20 *iP·Z'* 04 44 26 *D*
$\Delta = 77°$. $h = 33$ km. Honshu. $H = 04\ 32\ 34.7$.

20 *ePKP·Z* 12 03 36
e·Z 04 45
iPP·Z 07 02 Confused by time break.
e(PKS)·Z 07 51
ePPP·Z 10 05
e(SKS)·Z 11 04
e·Z 11 21
eQ·E 48.5
eR·E 13 03
$\Delta = 142°$. $h = 33$ km. Loyalty Islands. $H = 11\ 44\ 19.4$.

20 *eP·Z'* 18 06 27
i(pP)·Z 06 35 +, 4s, 5 μ.
i(pP)·Z' 06 $36\frac{1}{2}$ −
i·Z'Z 06 44 −
i·Z 06 51 −
i(PP)·Z 08 36
e(PcS)·E 12 06 5s, $2\frac{3}{4}$ μ.
eS·ZN 13 13 *Z:* +, 5s, $2\frac{1}{4}$ μ, *N:* +, 8s, $2\frac{1}{2}$ μ.
iS·E 13 17 +, 5s, 4 μ.
i(PS)·E 13 41
e(SS)·Z 16.7
e(SSS)·N 17 02
eL·ZNE 18
$\Delta = 44°$. $h = 34$ km. Atlantic Ocean. $H = 17\ 58\ 17.5$.

22 *iPKP·Z'* 20 59 04
$\Delta = 150°$. $h = 43$ km. Tonga Islands. $H = 20\ 39\ 15.8$.

25 *(i)(P)·Z'* 20 32 (01) Confused by time break.
$\Delta = 78°$. $h = 45$ km. Honshu. $H = 20\ 19\ 50.4$.

27 *eP·Z'* 06 09 10
eL·NE 40
M·ZNE 47 19s, *Z:* 13 μ, *N:* 11 μ, *E:* 13 μ.
$\Delta = 78°$. $h = 25$ km. Kyushu. $H = 05\ 57\ 07.7$.

27 *ePP·Z* 17 29 05
eSKS·E 35 $21\frac{1}{2}$ −, 9s, $2\frac{3}{4}$ μ.
iSKS·N 35 26 +
eSKKS·E 35 43
ePS·E 38 17
e(SPP)·Z 39 (08)

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November.

27 *e(PPS)·E* 17h39m16s (Con.).
iSS·E 44 02½ 11s, 3½ μ.
i(SSS)·Z 48 05
eL·NE 18 01
Δ = 104°. *h* = 33 km. Halmahera. *H* = 17 10 38.1.

28 *e·Z'* 00 44 39

December.

1 *eP·Z* 21 25 38
ipP·Z'Z 25 46½
i !pP·ZNE 25 48½ *Z:* –, 4s, 8½ μ, *N:* +, 4s, 2½ μ, *E:* +, 5s, 3½ μ.
esP·Z 26 13
ePP·Z 38 41
eS·E 34 40 13s, 3 μ.
epS·E 35 47
ePS·NE 36 08
esS·E 36 15 –, 7s, 3½ μ.
isS·N 36 18 –, 8s, 4 μ.
esPS·N 36 38 10s, 2¼ μ.
eSS·E 40 05
esSS·E 41 33
eQ·Z 45.4
e·N 46 11 13s.
eR·N 49.0
Δ = 80°. *h* = 206 km. China Sea. *H* = 21 13 04.1.

2 *eP·Z'Z* 12 44 42
iPPP·Z 45 03 –
e(S)·E 48 23
e(S)·ZN 48 27
e(SSS)·E 49 06
e(L)·N 50 56
eL·NE 52
Δ = 19°. *h* = 33 km. Algeria/Tunisia. *H* = 12 40 16.2.

3 *eP·Z'* 18 37 26
eL·N 45
Δ = 25°. *h* = 33 km. Armenia. *H* = 18 31 56.1.

3 *iP·Z'* 20 05 37 *C*
Δ = 70°. *h* = 386 km. Sea of Japan. *H* = 19 55 05.5.

4 *eP·Z'* 12 48 (14)
ePPP·Z 51 36
eS·E 56 21
e(Q)·Z 13 02 51
i·Z 04 49
eR·NE 07.8
M·N 12 15s, 23 μ.
M·ZE 16 *Z:* 11s, 9 μ, *E:* 12s, 12½ μ.
Δ = 59°. *h* = 45 km. Tibet. *H* = 12 38 11.9.

6 *eL·N* 06 31 Confused by microseisms.
Δ = 74°. Andaman Islands. *H* = 05 48 38.3.

December.

6 *eL·N* 15h01m
Δ = 147°. Tonga Islands. *H* = 13 35 48.2.

6 *iP·Z* 16 50 51 *C*, 6s, 3½ μ.
iPPP·Z 55 19
ipPPP·Z 55 33½
eS·NE 17 00.1
esS·N 00 28
e(SP)·N 00 53
i(PS)·N 01 08
i(sPS)·N 01 16
e(SS)·N 05.3
eL·ZNE 08
20s·*ZN* 25 *Z:* 24 μ, *N:* 26 μ.
Δ = 71°. *h* = 60 km. Kurile Islands. *H* = 16 39 37.6.
M(P) = 6.4 (*COP*).

9 *eP·Z'* 02 26 24
eS·N 35.2
iPS·E 35 29
eL·NE 52
Δ = 67°. *h* = 31 km. Kodiak Island. *H* = 02 15 22.0.

9 *ePP·Z* 11 39 (23)
ePPP·Z 41 33
ePS·E 48 44 +, 7s, 3 μ.
eL·E 12 13
Δ = 124°. *h* = 34 km. Chile. *H* = 11 18 08.9.

9 *iPKP·Z'* 20 08 15 (*C*)
iPKP·Z 08 15½ *C*
i !·Z' 08 16 –
Δ = 145°. *h* = 620 km. Fiji Islands. *H* = 19 49 41.3.

11 *eiP·Z'* 16 57 45
Δ = 21°. *h* = 33 km. Greece. *H* = 16 53 06.4.

12 *eiP·Z'* 23 17 51
Δ = 74°. *h* = 65 km. Hokkaido. *H* = 23 06 20.6.

14 *eL·ZNE* 08 (14) Earlier phases, if present, lost in record-change.
Δ = 113°. New Guinea. *H* = 07 10 23.2.

16 *iPKP·Z'* 20 54 40½ (*C*)
Δ = 152°. *h* = 295 km. Kermadec Islands. *H* = 20 35 29.0.

18 *eL·NE* 21 46
Δ = (20°). Ionian Islands.

20 *eP·Z'* 13 37 52
ePcP·Z 37 58 +
i !pP·Z 38 37 –, 8s, 9½ μ.
isP·Z 38 56 +, 8s, 8 μ.
e(PP)·Z 41 00
i(pPP)·Z 42 08
iPPP·Z 43 17
e·Z 44 44

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December.

20	*eSKS·E*	$13^h48^m02^s$	(Con.).
	i !S·N	48 12	–, 10^s, 35 μ.
	eS·ZE	48 15	–, *Z:* 10^s, 6 μ, *E:* 9^s, 15 μ.
	eSP·Z	49 00	
	i !sS·NE	49 21	*N:* +, 13^s, 19 μ, *E:* –, 8^s, $14^1/_2$ μ.
	e(pPS)Z	49 52	+, 7^s, $3^1/_2$ μ.
	esPS·N	52 19	
	e·Z	52 47	8^s, $3^1/_2$ μ.
	eSS·N	53 45	17^s, $9^1/_2$ μ.
	eL·NE	58	

$\Delta = 85°$. $h = 176$ km. Colombia. $H = 13\ 25\ 34.4$.

24	*iP·Z'*	07 02 14	(*C*)
	e·Z'	03 (26)	
	eL·N	40	

$\Delta = 73°$. $h = 125$ km. Hokkaido. $H = 06\ 50\ 54.0$.

25	*eL·E*	00 47	

$\Delta = 120°$. Chile. $H = 23\ 43\ 19.2$.

28	*eL·N*	01 22	Confused by microseisms.

$\Delta = 162°$. New Zealand. $H = 23\ 48\ 01.7$.

December.

30	*iP·Z*	$00^h50^m52^s$	(*C*)
	i·Z	51 42	
	ePPP·Z	55 14	
	i(pPPP)·Z	55 27	6^s, $5^1/_2$ μ.
	eS·NE	01 00 10	
	i !(pS)·E	00 $16^1/_2$	+, 8^s, 8 μ.
	iPS·E	00 32	+, 6^s, 7 μ.
	ePPS·Z	00 41	
	i(sS)·N	00 54	–, 10^s, 5 μ.
	i·N	01 23	–, 10^s, 6 μ.
	i·E	01 32	8^s, 8 μ.
	e·N	03 05	
	eSS·E	04 44	
	e·E	05 35	
	eSSS·ZE	07 34	
	eL·NE	12	
	20^s·*ZN(E)*	20	*Z:* $15^1/_2$ μ, *N:* 19 μ, *E:* (19) μ.
	M·NE	27	16^s, *N:* 30 μ, *E:* $36^1/_2$ μ.
	M·Z	30	15^s, $17^1/_2$ μ.

$\Delta = 71°$. $h = 56$ km. Rat Islands. $H = 00\ 39\ 27.1$.
$M(L) = 6.6$ (*COP*).

30	*eL·NE*	07 32	

$\Delta = 45°$. Sinkiang. $H = 07\ 08\ 39.1$.

May 1964. J. H. Latter.