

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55^{\circ}41'N.$ $\lambda = 12^{\circ}26'E.$ $h = 13$ m.

Lithologic foundation: chalk

Instruments

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

Benioff. *Z.* $T_p = 1$ sec, $T_g = \frac{1}{4}$ sec, $V_{\max} = \text{abt. } 30000$.

Wiechert 1000 kg. *N and E.* $T = 8\frac{1}{2}$ sec, $\nu = 6:1$, $\varrho = 0.3$ mm, $V_0 = 210$.

Wiechert 1300 kg. *Z.* $T = 6$ sec, $\nu = 4:1$, $\varrho = 0.3$ 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 due to 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. The magnitudes given (M) are computed from the readings. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

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January	January
2 <i>eP·Z'</i> 5 ^h 19 ^m 30 ^s Δ = 85°. Sumatra.	16 <i>iPKP·Z'</i> 12 ^h 49 ^m 28 ^s D Δ = 144°. <i>h</i> = 600 km. Fiji Islands.
2 <i>L·NE</i> 13 17	16 <i>iP·Z'</i> 20 59 31 C Δ = 61°. <i>h</i> = 150 km. Alaska.
3 <i>iP·Z'</i> 11 32 35 C <i>L·NE</i> 47.5 Δ = 46°. Sinkiang Province, China.	23 <i>L·NE</i> 5 32
3 <i>iP·Z'Z</i> 20 23 11 D <i>iS·NE</i> 26 10 N: -, E: -. Δ = 16°. <i>h</i> = 250 km. Tyrrhenian Sea.	23 <i>L·NE</i> 8 26
4 <i>L·NE</i> 6.7	23 <i>L·NE</i> 18 50
4 <i>eP·Z'</i> 12 55 03 <i>L·NE</i> 59.2 <i>iLg·Z'N</i> 13 00 16 Δ = 14°. Rumania.	24 <i>L·NE</i> 5 28
7 <i>L·NE</i> 14 30	25 <i>L·NE</i> 17 39
8 <i>L·NE</i> 15 46	26 <i>eP·Z'</i> 9 48 41 <i>iPcP·Z'</i> 48 53 C Δ = 75°. Kurile Islands.
9 <i>eS·ZNE</i> 4 07.8 <i>L·NE</i> 11 Δ = 22°. Turkey.	26 <i>eP·Z'</i> 9 57 21 <i>i·Z</i> 57 26 D <i>eS·NE</i> 10 01 40 <i>L·NE</i> 04.5 Δ = 25°. Turkey.
9 <i>iP·Z'Z</i> 7 31 41 C Δ = 43°. <i>h</i> = 150 km. Hindu Kush.	26 <i>eP·Z'</i> 13 10 30 <i>L·NE</i> 17 Δ = 22°. Turkey.
11 <i>L·NE</i> 3 13	26 <i>iP·Z'</i> 20 30 04 C Δ = 13°. <i>h</i> = 150 km. Rumania.
11 <i>L·NE</i> 3 50	26 <i>e(PKP)·Z'</i> 22 41 20
12 <i>L·NE</i> 2 34	31 <i>iP·Z'Z</i> 5 20 22 <i>e·Z'Z</i> 20 39 <i>eS·NE</i> 30 17 <i>e(ScS)·N</i> 30 41 <i>eSS·NE</i> 35.5 <i>L·NE</i> 48 Δ = 79°. Japan.
12 <i>L·NE</i> 4 07	
13 <i>iP·Z'Z</i> 15 54 11 C <i>iSKS·E</i> 16 04 43 - <i>iS·N</i> 05 39 - <i>iSS·NE</i> 12 39 N: +, E: -. <i>L·NE</i> 22 <i>M·NE</i> 26 20 ^s . N: 110 μ, E: 50 μ. <i>iG2·ZN</i> 17 23 48 N: 25 ^s , 85 μ. Δ = 100°. <i>h</i> = 100 km. <i>M</i> = 7.6. Peru.	February
13 <i>iP·Z'</i> 16 41 13 C Δ = 73°. Aleutian Islands.	1 <i>iP·Z'Z</i> 12 04 32 C <i>i·Z'</i> 04 34 D <i>eS·NE</i> 08 38 <i>L·NE</i> 11 Δ = 23°. Crete.
14 <i>L·NE</i> 21 55	2 <i>e·Z'</i> 12 39 30 <i>i(S)·Z'NE</i> 39 53 Δ = 14 ¹ / ₂ °. Karelia, Finland.
15 <i>iP·Z</i> 9 44 03 C <i>iSKS·E</i> 54 22 <i>iS·N</i> 55 41 <i>L·NE</i> 10 12 Δ = 101°. <i>h</i> = 150 km. Peru.	3 <i>L·NE</i> 0 26
	4 <i>L·NE</i> 4 43

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February

4	<i>eP·Z'Z</i>	17 ^h 02 ^m 19 ^s	
	<i>eS·NE</i>	12 15	
	<i>L·NE</i>	29	
	<i>Z'</i> masked by strong microseisms.		
	$\Delta = 77^\circ$. Japan.		
4	<i>L·NE</i>	21 39	
8	<i>L·NE</i>	13 46	
18	<i>iP·Z'</i>	21 46 18	
	<i>L·NE</i>	22 15	
	$\Delta = 69^\circ$. Kamchatka.		
19	<i>iP·Z'Z</i>	10 44 37	C
	<i>ipP·Z'Z</i>	45 23	
	<i>isP·ZE</i>	45 47	C
	<i>ePP·Z</i>	46 22	
	<i>ipPP·Z</i>	46 55	D
	<i>isPP·ZE</i>	47 24	D Z: 8 ^s , 20 μ .
	<i>iS·ZNE</i>	50 50	Z: +, N: +, E: 10 ^s , - 40 μ .
	<i>esS·NE</i>	52 01	
	<i>iSS·ZNE</i>	54 04	10 ^s . Z: 35 μ , E: 75 μ .
	$\Delta = 43^\circ$. $h = 200$ km. Hindu Kush.		
21	<i>eS·NE</i>	8 22.2	
	<i>L·NE</i>	24	
	$\Delta = 21^\circ$. Algeria.		
21	<i>L·NE</i>	21 46	
22	<i>L·NE</i>	21 13	
23	<i>L·NE</i>	0 40	
23	<i>iP·Z'</i>	2 17 35	
	$\Delta = 43^\circ$. $h = 200$ km. Hindu Kush.		
23	<i>eP·Z</i>	7 38 38	
	<i>eS·NE</i>	42 00	
	<i>L·NE</i>	43.4	
	$\Delta = 18^\circ$. Greece.		
23	<i>L·NE</i>	7 57	
23	<i>L·NE</i>	8 57	
24	<i>L·NE</i>	22 33	
26	<i>eP·Z</i>	23 41 03	
	<i>L·NE</i>	24 05	
27	<i>L·NE</i>	8 54	

February

29	<i>eP·Z</i>	23 ^h 46 ^m 27 ^s	
	<i>eS·NE</i>	51 27	
	<i>L·NE</i>	55.3	
	<i>M</i>	57	20 ^s . N: 18 μ , E: 30 μ .
	$\Delta = 30^\circ$. Extremely surfacenear. $M = 6.0$.		
	Agadir, Marocco.		

March

2	<i>eP·Z'</i>	22 01 54	
	<i>e·Z</i>	02 01	
	<i>L·NE</i>	09	
	$\Delta = 26^\circ$. Mid Atlantic Ridge.		
2	<i>e(P)·Z'</i>	23 31 58	
4	<i>iP·Z'</i>	2 27 37	C
	<i>e·Z'</i>	27 44	
	<i>i·Z'</i>	27 49	D
	$\Delta = 75^\circ$. Aleutian Islands.		
4	<i>iP·Z'Z</i>	4 04 59	C. Z: 5 ^s , 2.6 μ .
	<i>eS·E</i>	14 41	
	<i>ePS·NE</i>	15 41	
	<i>eSS·NE</i>	19.8	
	<i>L·NE</i>	31	
	$\Delta = 78^\circ$. $h = 100$ km. Japan.		
4	<i>eP·Z'Z</i>	16 29 29	
	<i>L·NE</i>	34.4	
	$\Delta = 17^\circ$. Jan Mayen.		
4	<i>iP·Z'</i>	21 17 56	
	$\Delta = 79^\circ$. Nicobar Islands.		
5	<i>eP·Z'</i>	11 34 33	
	<i>L·NE</i>	58	
	$\Delta = 55^\circ$. Nepal.		
5	<i>ePP·Z</i>	14 08.0	
	<i>ePPP·ZE</i>	10.0	
	<i>e·NE</i>	14.8	
	<i>e·E</i>	21.6	
	<i>L·NE</i>	37	
	$\Delta = 104^\circ$. Halmahera.		
6	<i>L·NE</i>	3 15	
6	<i>L·NE</i>	4 53	
7	<i>L·NE</i>	12 18	
8	<i>iPKP·Z</i>	16 52 36	5 ^s , - 17 μ .
	<i>epPKP·Z</i>	53 39	
	<i>iPP·Z</i>	55 25	5 ^s , - 6 μ .
	<i>iSKP·Z</i>	55 47	7 ^s , + 13 μ .
	<i>iPKS·NE</i>	56 12	7 ^s , N: - 7 μ , E: - 7 μ .
	$\Delta = 137^\circ$. $h = 250$ km. New Hebrides Islands.		

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March					
10	<i>L·NE</i>	0 ^h 36 ^m			
12	<i>eP·ZNE</i>	11 57 38			
	<i>i·Z'</i>	57 50	<i>C</i>		
	<i>eS·NE</i>	12 00 21			
	<i>L·NE</i>	01.5			
	<i>i·Z</i>	02 46			
	$\Delta = 15^\circ$. Yugoslavia.				
12	<i>ePKP·Z'Z</i>	20 49 37			
	<i>ePP·ZNE</i>	51 06			
	<i>eSKS·E</i>	56 46			
	<i>eSKKS·NE</i>	58 12			
	<i>ePS·E</i>	21 00 34			
	<i>e·E</i>	01 06			
	<i>ePPS·ZNE</i>	02 18			
	<i>eSS·NE</i>	08.2			
	<i>L·NE</i>	28			
	$\Delta = 120^\circ$. New Britain.				
14	<i>iP·Z'</i>	1 04 33	<i>D</i>		
	<i>epP·Z'</i>	04 50			
	$\Delta = 73^\circ$. <i>h</i> = 60 km. Japan.				
14	<i>iP·Z'</i>	20 21 59	<i>D</i>		
	<i>i·Z'</i>	22 11			
	$\Delta = 38^\circ$. Persian Gulf.				
15	<i>eP·Z'</i>	9 32 34			
	<i>e·Z'</i>	32 47			
	<i>eS·NE</i>	42 08			
	<i>L·NE</i>	59			
	$\Delta = 74^\circ$. Aleutian Islands.				
16	<i>ePP·ZN</i>	18 01 44			
	<i>ePKS·NE</i>	02 32			
	<i>L·NE</i>	53			
	$\Delta = 139^\circ$. Samoa Islands.				
20	<i>L·NE</i>	14 17			
20	<i>iP·Z'ZNE</i>	17 19 18	<i>C</i>		
	<i>i·Z</i>	19 25	<i>D</i> , 12 ^s , 24 μ .		
	<i>iS·NE</i>	29 01	<i>N</i> : +, <i>E</i> : +.		
	<i>iSKS·N</i>	29 25	+		
	<i>iScS·NE</i>	29 31	<i>N</i> : -, <i>E</i> : -		
	<i>L·NE</i>	41			
	<i>M·NE</i>	50	20 ^s , <i>N</i> , <i>E</i> ∞ 340 μ .		
	$\Delta = 76^\circ$. <i>M</i> = 8. Japan.				
21	<i>iP·Z'Z</i>	0 46 41	<i>C</i>		
	<i>L·NE</i>	1 13			
	$\Delta = 76^\circ$. Japan.				
21	<i>eP·Z'</i>	9 30 13			
	<i>eS·NE</i>	40.0			
	<i>L·NE</i>	57			
	$\Delta = 76^\circ$. Japan.				
March					
23	<i>eP·Z'Z</i>	0 ^h 35 ^m 12 ^s			
	<i>iS·NE</i>	45 07	<i>E</i> : +.		
	<i>L·NE</i>	1 01			
	<i>M·NE</i>	07	20 ^s . <i>N</i> : 90 μ , <i>E</i> : 110 μ .		
	$\Delta = 76^\circ$. <i>M</i> = 7 ¹ / ₄ . Japan.				
23	<i>iP·Z'</i>	1 19 08	<i>D</i>		
	$\Delta = 76^\circ$. Japan.				
23	<i>eP·Z'</i>	2 03 31			
	$\Delta = 76^\circ$. Japan.				
23	<i>iP·Z'</i>	2 21 00	<i>D</i>		
	$\Delta = 76^\circ$. Japan.				
23	<i>eP·Z'</i>	8 58 34			
	$\Delta = 76^\circ$. Japan.				
23	<i>eP·Z'</i>	22 34 29			
	<i>eS·E</i>	44 16	Wiechert		
	<i>L·NE</i>	23 03	-		
	No Gal.-records.				
	$\Delta = 76^\circ$. Japan.				
23	<i>ePn·Z'</i>	23 11 13			
	<i>iP*·Z'</i>	11 33			
	<i>iPg·Z'</i>	12 01			
	<i>i·Z'</i>	12 04			
	<i>i·Z'</i>	12 05			
	<i>iRg·Z'</i>	14 34			
	$\Delta = 9\frac{1}{2}^\circ$. Switzerland.				
24	<i>eP·Z'</i>	6 05 57			
	$\Delta = 73^\circ$. Kurile Islands.				
27	<i>ePP·ZN</i>	4 10 15			
	<i>ePKS·ZNE</i>	11 18			
	<i>i·E</i>	11 37			
	<i>eSKS·E</i>	14 40			
	<i>L·NE</i>	55			
	$\Delta = 133^\circ$. New Hebrides Islands.				
27	<i>iPP·ZN</i>	9 19 47	<i>C</i>		
	<i>iPKS·ZNE</i>	20 50	<i>Z</i> : -, <i>N</i> : -, <i>E</i> : -.		
	<i>L·NE</i>	10 01			
	$\Delta = 133^\circ$. New Hebrides Islands.				
27	<i>iPKP2·Z'</i>	23 48 38	<i>D</i>		
	<i>e·Z'</i>	49 16			
	$\Delta = 159^\circ$. <i>h</i> = 250 km. New Zealand.				
28	<i>iP·Z'Z</i>	0 26 23	<i>C</i>		
	<i>i·Z'Z</i>	26 30			
	<i>eSKS·E</i>	36 47			
	<i>iS·NE</i>	37 08	<i>E</i> : +		
	<i>ePS·E</i>	38 04			
	<i>L·NE</i>	53			
	$\Delta = 87^\circ$. Panama.				

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March

28	<i>iPKP·Z'</i>	12 ^h 57 ^m 34 ^s	C
28	<i>L·ZNE</i>	21 01	
29	<i>ePKP·Z'Z</i>	6 50 27	
	<i>ePKS·NE</i>	54.0	
	<i>L·NE</i>	7 33	
	$\Delta = 137^\circ$. New Hebrides Islands.		
29	<i>L·NE</i>	23 11	
30	<i>ePKP·Z'</i>	11 09 12	
	<i>ePP·Z</i>	11 36	
	<i>ePKS·NE</i>	12 40	
	<i>L·NE</i>	53	
	$\Delta = 133^\circ$. New Hebrides Islands.		
30	<i>eP·Z'Z</i>	13 03 19	
	<i>L·NE</i>	07	
	$\Delta = 19^\circ$. Greenland Sea.		
30	<i>ePKP·Z'Z</i>	15 ^h 39 06	
	<i>ePP·Z</i>	42 24	
	<i>L·NE</i>	16 32	
	$\Delta = 144^\circ$. Loyalty Islands.		
31	<i>iP·Z'</i>	3 13 56	D
	<i>L·NE</i>	45	
	$\Delta = 76^\circ$. Japan.		
31	<i>e(S)·NE</i>	20 19 24	N: 10 ^s , 3 μ .
	<i>L·NE</i>	32	
	$\Delta = 85^\circ$. Gulf of California.		

April

1	<i>ePKP·Z'</i>	3 13 39	
	$\Delta = 145^\circ$. $h = 650$ km. Fiji Islands.		
1	<i>L·NE</i>	14 42	
2	<i>iP·Z'</i>	22 42 32	D
	<i>L·NE</i>	54	
	$\Delta = 32^\circ$. Iran.		
2	<i>eP·Z'</i>	23 39 48	
	<i>L·NE</i>	53	
	$\Delta = 33^\circ$. Iran.		
7	<i>iPKP·Z'</i>	14 06 19	
	$\Delta = 147^\circ$. $h = 500$ km. Fiji Islands.		
8	<i>iPKP·Z'</i>	0 15 12	D
	$\Delta = 144^\circ$. $h = 200$ km. Tonga Islands.		
10	<i>L·NE</i>	0 49	
13	<i>L·NE</i>	8 33	

April

13	<i>L·NE</i>	13 ^h 20 ^m	
15	<i>ePKS·ZNE</i>	22 28 01	
	<i>L·NE</i>	23 15	
	$\Delta = 133^\circ$. New Hebrides Islands.		
17	<i>iPKP·Z'</i>	22 08 08	D
	$\Delta = 143^\circ$. $h = 500$ km. Fiji Islands.		
20	<i>iP·Z'</i>	19 30 55	D
	$\Delta = 44^\circ$. $h = 200$ km. Hindu Kush.		
24	<i>ePPP·ZE</i>	3 42 33	
	<i>iSKS·E</i>	45 00	
	<i>ePS·E</i>	49 04	
	$\Delta = 102^\circ$. $h = 600$ km. Java Sea.		
24	<i>iP·Z'Z</i>	12 22 15	D
	<i>eS·E</i>	28 21	
	<i>L·NE</i>	34	
	$\Delta = 41^\circ$. Lar, Iran.		
26	<i>L·NE</i>	7 20	
28	<i>L·NE</i>	19 54.8	
29	<i>iP·Z'Z</i>	19 46 03	C
	<i>iPP·Z'ZE</i>	50 16	
	<i>iSKS·E</i>	56 41	
	<i>L·NE</i>	20 21	
	$\Delta = 102^\circ$. Celebes.		
30	<i>ePP·Z'ZE</i>	4 19 36	
	<i>iSKS·E</i>	26 03	
	<i>ePS·ZE</i>	28.5	
	<i>L·NE</i>	53	
	$\Delta = 102^\circ$. Celebes.		
30	<i>L·NE</i>	10 25	
30	<i>iPKP·Z'</i>	15 31 57	
	$\Delta = 137^\circ$. Fiji Islands.		
Maj			
2	<i>L·NE</i>	18 49	
3	<i>L·NE</i>	8 25.3	
3	<i>iP·Z'</i>	22 34 48	
	<i>epP·Z'</i>	35 28	
	$\Delta = 82^\circ$. $h = 150$ km. Japan.		
5	<i>eP·Z'</i>	11 37 07	
	<i>L·NE</i>	12 02	
	$\Delta = 69^\circ$. Kamchatka.		
6	<i>iP·Z'</i>	18 58 26	D
	$\Delta = 68^\circ$. Kamchatka.		

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May

- 11 *ePP·Z* 18^h55^m0
e·E 19 02 09
eSS·N 10.2
L·NE 30
 $\Delta = 108^\circ$. Ceram Sea.
- 12 *eP·Z'Z* 22 45 09
eSKS·NE 55 39
eS·NE 55 52
L·NE 23 08
 $\Delta = 86^\circ$. Panama.
- 13 *iP·Z'ZN* 16 18 25 *C. Z: 6^s, 2.6 μ .*
iPcP·ZN 18 40
eS·NE 27 30
eScS·NE 28 21
L·NE 38
 $\Delta = 70^\circ$. $M = 6\frac{1}{4}$. Alaska Peninsula.
- 13 *e·ZN* 16 46 41
- 14 *iP·Z'Z* 22 30 57 *Z': D. Z: C.*
ePcP·Z 31 20
L·NE 56
 $\Delta = 68^\circ$. Kamchatka.
- 15 *L·NE* 14 13
- 18 *iP·Z'ZNE* 6 47 14 *C*
epP·Z 47 35
e·ZNE 53 29 *10^s, very regular.*
eS·NE 57.2
iSKS·E 57 29
L·NE 7 15
 $\Delta = 80^\circ$. $h = 100$ km. Ryukyu Islands.
- 18 *eP·Z'Z* 8 48 46
eS·NE 54 55
L·NE 9 04
 $\Delta = 41^\circ$. Persian Gulf.
- 19 *iP·Z'ZE* 2 14 52 *C*
epP·ZE 15 27
ePP·E 16 59
iS·NE 21 19
eSS·NE 24 35
 $\Delta = 43^\circ$. $h = 200$ km. Hindu Kush.
- 19 *eP·Z'Z* 10 24 49
eSKS·E 35 25
 $\Delta = 85^\circ$. Mascarene Islands.
- 20 *iP·Z'* 4 22 07
eS·E 28 17
L·N 35.3
 $\Delta = 41^\circ$. Persian Gulf.

May

- 20 *ePKP·Z'Z* 11^h32^m19^s
i·ZNE 32 23 *D*
iPP·N 35 53
L·NE 12 22
 $\Delta = 148^\circ$. Norfolk Island.
- 21 *eS·E* 6 49 06
L·NE 52
 $\Delta = 19^\circ$. Greece.
- 21 *eP·Z* 10 18 00
ePKP·Z'Z 21 41
iPP·ZNE 22 47
eSKS·NE 28 43
eSKKS·N 30 07
ePS·NE 32 42
i·Z 32 54
ePKPPKP·Z 40 38
L·NE 53
 $\Delta = 118^\circ$. $M = 8\frac{1}{4}$. Chile.
- 22 *L·NE* 4 52
- 22 *L·NE* 7 05
- 22 *eP·Z* 10 45 50
ePP·Z 50 27
eSKS·N 56 34
ePS·NE 11 00 10
L·NE 20
 $\Delta = 118^\circ$. Chile.
- 22 *eP·Z* 10 47 51
ePKP·Z' 51 32
ePP·ZNE 52 37
eSKS·NE 58 42
ePS·ZNE 11 02 44
 $\Delta = 118^\circ$. Chile.
- 22 *iP·Z* 19 11 09 *C*
ePKP·Z'Z 14 44
iPP·Z'Z 15 49
i·Z 16 15 *D*
eSKS·NE 21 42
ePS·NE 25 56
 $\Delta = 118^\circ$. Chile.
- 22 *eP·Z* 19 25 47
 $\Delta = 118^\circ$. Chile.
- 22 *eP·Z* 19 26 27
ePKP·Z'Z 29 59
ePP·NE 31 24
L_R 20^s. Z' 20 33 abt. 700 μ .
 $\Delta = 118^\circ$. $M = 8.4$. Chile.
- 22 *ePKP·Z'* 22 32 50
 $\Delta = 119^\circ$. Chile.

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May

23 *iPKP·Z'* 0^h15^m00^s D
 $\Delta = 122^\circ$. Chile.

23 *ePP·Z* 0 45 52
e·Z'Z 47 43
L·NE 1 20
 $\Delta = 120^\circ$. Chile.

23 *ePP·Z* 3 06 57
ePS·ZE 17.0
L·NE 46
 $\Delta = 120^\circ$. Chile.

23 *ePP·Z* 5 33 36
iSKS·NE 39 37
ePS·E 43 31
L·NE 6 12
 $\Delta = 118^\circ$. Chile.

23 *ePP·Z* 7 30 20
eSKP·ZE 31 40
eSKKS·E 37 24
e·N 38 34
ePPS·NE 42 02
L·NE 8.2
 $\Delta = 128^\circ$. Chile.

23 *eSKS·E* 10 18.1
ePS·E 22.2
L·NE 53
 $\Delta = 118^\circ$. Chile.

23 *L·NE* 11 42

23 *L·NE* 15 06

23 *L·NE* 21 13

24 *ePKP1·Z* 15 06 42
ePKP2·Z 07 29
eSS·N 31 19
L·NE 55
 $\Delta = 160^\circ$. New Zealand.

24 *L·NE* 21 36

25 *L·NE* 5 43

25 *L·NE* 9 28
 Forerunners in the papershift.

26 *iP·ZNE* 5 14 02 C
iS·ZE 16 57
L·NE 18.8
 $\Delta = 16\frac{1}{2}^\circ$. Albania.

26 *iP·Z'Z* 20 15 37 Z': -, Z: +.
i·Z'Z 15 57 Z': +, Z: -.
 $\Delta = 63^\circ$. Two shocks? Assam.

May

26 *L·NE* 21^h03^m

28 *L·NE* 0 09

28 *L·NE* 4 17

28 *L·NE* 12 56

29 *ePP·ZNE* 7 59 16
ePPP·ZE 8 01 57
eSKS·NE 05 18
eSKKS·E 06 50
ePS·ZNE 09 27
L·NE 38
 $\Delta = 118^\circ$. Chile.

29 *L·N* 22 28

31 *eP·Z'Z* 0 33 02
eS·NE 40 32
 $\Delta = 53^\circ$. Deeper than normal. Gulf of Aden.

31 *ePKP·Z'* 2 58 55
ePPP·ZE 3 03 09
ePS·ZE 10 21
L·NE 36
 $\Delta = 120^\circ$. Chile.

31 *eP·Z'ZE* 11 13 11
i·ZNE 13 19
iS·NE 21 59
ePS·NE 22 15
eSKS·NE 23 04
L·ZNE 34
 $\Delta = 66^\circ$. Leeward Islands.

June

1 *L·NE* 6 03

2 *ePKP·Z* 6 17 10
L·NE 57
 $\Delta = 125^\circ$. Chile.

2 *ePP·ZNE* 8 07 29
ePS·NE 17.2
L·NE 45
 $\Delta = 120^\circ$. New Britain.

2 *L·NE* 18 42

2 *iPKP·Z* 19 17 41 D
 $\Delta = 144^\circ$. $h = 550$ km. Fiji Islands.

2 *iPKP·Z'* 20 07 05
 $\Delta = 144^\circ$. $h = 550$ km. Fiji Islands.

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June

3	<i>eP·Z'Z</i>	16 ^h 29 ^m 36 ^s	
	<i>ePP·Z</i>	32 23	
	<i>eS·N</i>	39 03	
	<i>L·NE</i>	55	
	$\Delta = 73^\circ$. Japan.		
4	<i>L·NE</i>	3 13	
4	<i>L·NE</i>	8 25	
4	<i>L·NE</i>	11 20	
5	<i>ePP·Z</i>	19 54 34	
	<i>L·NE</i>	20 55	
	$\Delta = 155^\circ$. Kermadec Islands.		
6	<i>iP·Z'Z</i>	1 29 47	<i>D</i>
	<i>eS·NE</i>	39 40	
	<i>L·NE</i>	57	
	$\Delta = 77^\circ$. California.		
6	<i>ePKP·Z'</i>	6 14 44	
	<i>i·Z</i>	14 50	
	<i>i·Z</i>	17 51	
	<i>iPPP·ZE</i>	19 06	
	<i>iPPS·NE</i>	27 37	
	<i>M·NE</i>	7 09	20 ^s . <i>N</i> : 80 μ , <i>E</i> : 180 μ .
	$\Delta = 124^\circ$. <i>M</i> = 7 ³ / ₄ . Chile.		
6	<i>L·NE</i>	18 21	
6	<i>ePKP·Z'</i>	23 48 53	
	$\Delta = 147^\circ$. <i>h</i> = 600 km. Fiji Islands.		
7	<i>iP·Z'Z</i>	13 08 17	<i>C</i>
	$\Delta = 67^\circ$. Kamchatka.		
7	<i>eP·Z</i>	15 44 17	
	$\Delta = 53^\circ$. Arabian Sea.		
8	<i>iP·Z'Z</i>	16 27 10	<i>D</i>
	<i>ePP·ZE</i>	28 29	
	<i>eS·E</i>	33 08	+
	<i>L·NE</i>	38	
	$\Delta = 39^\circ$. North Atlantic Ocean.		
8	<i>L·NE</i>	22 50	
9	<i>L·NE</i>	2 57	
9	<i>L·NE</i>	8 32	
9	<i>iPKP·Z</i>	11 43 26	<i>D</i>
	<i>ePP·ZNE</i>	46 16	
	<i>ePKS·NE</i>	47 02	
	<i>ePPP·E</i>	49 45	
	<i>L·NE</i>	12 34	
	$\Delta = 139^\circ$. New Hebrides Islands.		

June

9	<i>iP·Z</i>	17 ^h 54 ^m 07 ^s	<i>D</i>
	<i>eS·E</i>	59 14	
	<i>L·NE</i>	18 02	
	$\Delta = 31^\circ$. Azores Islands.		
10	<i>ePKP·Z</i>	21 31 39	
	<i>ePP·Z</i>	34 32	
	<i>ePKS·ZN</i>	35 13	
	<i>eSS·E</i>	52.7	
	<i>L·NE</i>	22 27	
	$\Delta = 140^\circ$. Samoa Islands.		
11	<i>ePKP·Z</i>	15 33 13	
	<i>ePP·ZNE</i>	34 58	
	<i>L·NE</i>	16 12	
	$\Delta = 129^\circ$. New Guinea.		
11	<i>ePKP·Z</i>	16 56 44	
	<i>L·NE</i>	17 38	
	$\Delta = 129^\circ$. New Guinea.		
12	<i>L·NE</i>	23 18.5	
13	<i>L·NE</i>	6 52	
15	<i>iP·Z</i>	15 48 36	<i>C</i>
	<i>ipP·ZE</i>	48 49	
	<i>iPP·ZN</i>	51 25	
	<i>eS·N</i>	58 15	
	<i>L·NE</i>	16 13	
	$\Delta = 76^\circ$. <i>h</i> about 50 km. Japan.		
15	<i>ePKP·Z</i>	23 51 21	
	<i>ePP·Z</i>	55 21	
	$\Delta = 149^\circ$. <i>h</i> = 600 km. Fiji Islands.		
16	<i>L·NE</i>	0 14	
16	<i>L·NE</i>	0 21	
17	<i>iP·Z'Z</i>	16 47 06	<i>Z'</i> : <i>D</i> , <i>Z</i> : <i>C</i> .
	<i>i·Z'</i>	49 09	
	<i>eS·N</i>	56 31	
	<i>L·NE</i>	17 12	
	$\Delta = 73^\circ$. Aleutian Islands.		
20	<i>eP·Z</i>	2 16 16	
	<i>ePP·ZE</i>	21 12	
	<i>ePPP·Z</i>	23.5	
	<i>eSKS·E</i>	27 01	
	<i>eSKKS·E</i>	28 20	
	<i>iPS·ZE</i>	31 06	
	<i>ePPS·ZN</i>	32.4	
	<i>L·NE</i>	55	
	<i>M·NE</i>	3 10	20 ^s . <i>N</i> : 35 μ , <i>E</i> : 80 μ .
	$\Delta = 118^\circ$. <i>M</i> = 7 ¹ / ₂ . Chile.		

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June

20 *ePKP·Z* 13^h18^m32^s
iPP·ZNE 19 47
iPPP·ZNE 22 23
iSKS·E 25 31
iPS·E 29 43
L·NE 56
M·NE 14 10 20^s. *N*: 18 μ , *E*: 40 μ .
 $\Delta = 119^\circ$. *M* = 7. Chile.

21 *L·NE* 22 33

22 *e(P)·ZNE* 14 02 53
L·NE 10
 $\Delta = 18^\circ$. Denmark Strait.

22 *iP·Z'Z* 16 21 44 *Z'*: *D*, *Z*: *C*.
eS·NE 29 30
L·NE 46
 $\Delta = 57^\circ$. Arabian Sea.

23 *e·Z'* 23 41 59
 Kamchatka?

24 *i·Z'* 3 50 03
 Possibly earlier phases in the microseisms.
 $\Delta = 6^\circ$. Sweden.

June

25 *ePKP·Z'* 2^h22^m38^s
 $\Delta = 154^\circ$. Kermadec Islands.

25 *eP·Z'* 14 06 01
 $\Delta = 83^\circ$. Columbia.

25 *e(S)·Z'* 14 31 45
i·Z' 31 52
L·NE 33.2
 $\Delta = 6^\circ$. Belgian-Netherlands border.

25 *ePKP·Z'Z* 15 01 48 *C*
ePP·ZN 15 34
L·NE 53
 $\Delta = 154^\circ$. Kermadec Islands.

25 *L·NE* 20 21

27 *ePP·Z* 17 14 27
L·NE 18 17
 $\Delta = 155^\circ$. Kermadec Islands.

29 *L·NE* 3 00

29 *L·NE* 10 36

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