

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

SCORESBYSUND

 $\varphi = 70^{\circ}29' \text{ N.}$ $\lambda = 21^{\circ}57' \text{ W.}$ $h = 69 \text{ m.}$

Lithologic foundation: gneiss



Instruments

Galitzin-Wilip. *N* and *E*. $T_p = T_g = 12 \text{ sec, } \mu^2 = 0, \frac{Ak}{\pi l} = 300$ or V_{\max} abt. 1000.Galitzin-Wilip. *Z*. $T_p = 9 \text{ sec, } T_g = 10 \text{ sec, } \mu^2 = 0, \frac{Ak}{\pi l} = 200$ or V_{\max} abt. 600.Grenet *Z'*. $T_p = 1 \text{ sec, } T_g = 1/4 \text{ sec, } V_{\max}$ abt. 30000.

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. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

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January

3	<i>L·NE</i>	16.2	
3	<i>iP·Z'</i>	23 ^b 34 ^m 04 ^s	$\Delta = 53^\circ$. Unimak Island, Alaska.
6	<i>eP·Z'</i>	12 23 11	dubious.
	<i>i·Z'</i>	23 14	$\Delta = 39^\circ$. Aegean Sea.
7	<i>eP·Z'</i>	16 48 12	
	<i>ePP·Z'</i>	49 26	
	<i>L·NE</i>	59	$\Delta = 36^\circ$. Yukon, Canada.
No time signals 7 d 20 h — 13 d 20 h.			
14	<i>iP·Z'</i>	14 18 27	
	<i>eS·NE</i>	26 24	
	<i>L·NE</i>	36	$\Delta = 57^\circ$. Aleutian Islands.
14	<i>iP·Z'</i>	14 35 35	$\Delta = 66^\circ$. Japan.
16	<i>eP·Z'ZE</i>	23 49 51	
	<i>i·Z'ZNE</i>	49 55	
	<i>i·Z'</i>	50 04	
	<i>ePP·NE</i>	52 47	
	<i>iS·NE</i>	24 00 00	
	<i>iScS·N</i>	00 16	
	<i>iPS·N</i>	00 34	
	<i>L·NE</i>	18	$\Delta = 81^\circ$. Equador.
17	<i>eSS·N</i>	8 31.2	
	<i>L·NE</i>	48	$\Delta = 93^\circ$. Eastern Pacific Ocean.
18	<i>L·NE</i>	9 01	
20	<i>L·NE</i>	5 38	
23	<i>iP·Z'</i>	0 55 18	$\Delta = 47^\circ$. Kodiak Island.
23	<i>eP·Z'</i>	3 56 54	
	<i>eS·NE</i>	4 04 29	
	<i>L·NE</i>	13	$\Delta = 54^\circ$. Kamchatka.

No time signals jan. 27—febr. 16.

February

17	<i>e·Z'</i>	9h14 ^m 57 ^s	
17	<i>e·Z'</i>	9 17 25	
17	<i>ePS·N</i>	10 23 56	
	<i>ePPS·N</i>	24 51	
	<i>eSSS·E</i>	33 51	
	<i>L·NE</i>	50	$\Delta = 117^\circ$. South Atlantic Ocean.
18	<i>iP·Z'NE</i>	7 45 37	
	<i>i(PcP)·NE</i>	45 53	
	<i>ipP·Z'NE</i>	47 21	
	<i>ePP·NE</i>	48 40	
	<i>ePPP·N</i>	50 35	
	<i>i·NE</i>	52 53	
	<i>iS·NE</i>	54 55	10 ^s . N: 60 μ , E: 12 μ .
	<i>iSP·NE</i>	55 35	
	<i>i(s)·NE</i>	57 59	
	<i>iSS·NE</i>	8 00 15	
	<i>ePKPPKP·Z'</i>	12 20	
	<i>eSKPPKP·Z'</i>	15 03	
			$\Delta = 78^\circ$. $h = 450$ km. Japan.
19	<i>eP·Z'Z</i>	2 26 39	
	<i>ePP·ZN</i>	28 27	
	<i>ePPP·Z</i>	29 14	
	<i>eS·E</i>	33 39	
	<i>i·N</i>	33 44	
	<i>L·NE</i>	39	
	<i>M·NE</i>	42	15 ^s . N: 35 μ , E: 55 μ .
			$\Delta = 48^\circ$. Queen Charlotte Islands.
19	<i>iP·Z'</i>	4 21 47	
	<i>iS·E</i>	28 38	
	<i>eSS·E</i>	31 38	
	<i>L·NE</i>	37	$\Delta = 47^\circ$. Alaska Peninsula.
20	<i>e·Z'</i>	7 56 12	
20	<i>eP·Z'</i>	8 10 02	
	<i>L·NE</i>	42	$\Delta = 83^\circ$. Ryukyu Islands.
20	<i>eP·Z'</i>	20 39 20	
	<i>i·ZN</i>	39 23	
	<i>ePP·ZNE</i>	40 53	
	<i>e(PcP)·ZNE</i>	41 23	
	<i>eS·E</i>	45 21	
	<i>e·NE</i>	45 37	
	<i>i·NE</i>	47 28	
	<i>eSSS·NE</i>	48 58	
	<i>iScS·N</i>	49 20	
	<i>L·NE</i>	51.2	
			$\Delta = 41^\circ$. Turkey.

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February

21	<i>e·Z'</i>	20 ^h 23 ^m 10 ^s	
	<i>i·Z'</i>	23 23	
21	<i>eP·Z'</i>	23 01 52	
	<i>eS·N</i>	03 34	
	<i>L·E</i>	04.0	$\Delta = 10^\circ$. Arctic Ocean. Southwest of Svalbard.
22	<i>eP·Z'</i>	0 09 57	
	<i>eS·N</i>	11 48	
	<i>L·E</i>	12.2	
			$\Delta = 10^\circ$. Arctic Ocean. Southwest of Svalbard.
22	<i>L·N</i>	10 51	
23	<i>eP·Z'</i>	1 28 49	
	<i>i·Z'</i>	28 54	
	<i>iS·N</i>	35 04	
			$\Delta = 41^\circ$. North Atlantic Ocean.
24	<i>ePKP·Z'</i>	9 38 28	
	<i>L·NE</i>	10 36	
			$\Delta = 140^\circ$. Kermadec Islands.
26	<i>e·Z'</i>	16 09 52	
	<i>e·Z'</i>	10 08	
29	<i>eP·Z'</i>	7 10 02	$\Delta = 80^\circ$. Japan.
29	<i>iP·Z'</i>	21 03 06	$\Delta = 76^\circ$. India-Burma border.
29	<i>eP·Z'</i>	21 37 46	Repetition.
March			
2	<i>iP·Z'</i>	12 04 09	$\Delta = 42^\circ$. Alaska.
2	<i>iP·Z'</i>	14 59 47	$\Delta = 64^\circ$. Kurile Islands.
3	<i>ePKP·Z'</i>	0 24 26	
	<i>ePP·Z'</i>	25 58	
	<i>L·NE</i>	1 02	$\Delta = 122^\circ$. Samoa Islands.
3	<i>eP·Z'</i>	10 25 32	
	<i>ePcP·Z'</i>	25 47	$\Delta = 76^\circ$. India-Burma border.
3	<i>eP·Z'</i>	18 25 53	Jan Mayen region.

March

4	<i>eP·Z'</i>	3 ^h 23 ^m 33 ^s	
			$\Delta = 24^\circ$. Arctic Ocean.
5	<i>L·NE</i>	4 16	
5	<i>eP·Z'</i>	7 22 23	
	<i>eS·N</i>	30 28	
	<i>eSSS·E</i>	36 15	
	<i>L·NE</i>	42	$\Delta = 59^\circ$. Sinkiang province, China.
5	<i>iP·Z'</i>	23 40 27	
	<i>eS·NE</i>	49 15	
	<i>eSKS·NE</i>	50 25	
	<i>L·NE</i>	24 02	
			$\Delta = 66^\circ$. Japan.
6	<i>e·Z'</i>	0 09 07	
6	<i>eP·Z'</i>	2 05 22	South of Hondo, Japan.
6	<i>eP·Z'</i>	9 05 33	
	<i>L·NE</i>	9.4	$\Delta = 59^\circ$. Iran.
6	<i>iP·Z'</i>	21 03 16	Repetition.
13	<i>iS·N</i>	13 34 13	
	<i>L·NE</i>	48	
			No vertical records.
			$\Delta = 74^\circ$. Panama.
14	<i>iPKP·Z'</i>	15 58 19	$\Delta = 145^\circ$. New Zealand.
14	<i>ePKP·Z'</i>	16 03 00	Repetition.
14	<i>iPKP·Z'</i>	16 33 33	Repetition.
16	<i>ePKP·Z'</i>	9 00 28	Repetition.
19	<i>eSS·N</i>	18 12.7	
	<i>L·NE</i>	34	$\Delta = 115^\circ$. New Britain.
21	<i>eP·Z'</i>	5 03 11	
	<i>e·Z'</i>	04 56	$\Delta = 47^\circ$. Caucasia.

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March

22 *iP·Z'Z* 6^h46^m14^s
ipP·Z'Z 46 39
isP·Z'Z 46 53
iS·NE 56 25
esS·N 56 57
eSS·NE 7 01 57
L·NE 14
 $\Delta = 83^\circ$, $h = 100$ km. Ecuador.

22 *e·Z'* 16 04 56

22 *L·NE* 17 02

23 *eP·Z'* 6 01 19
 $\Delta = 70^\circ$, Tibet.

23 *L·NE* 6 07

23 *e·Z'* 9 43 27
e·Z' 44 02
e·Z' 44 29

23 *e·Z'* 9 48 29
e·Z' 49 15
e·Z' 50 04

25 *eP·Z'* 23 37 28
L·NE 56
 $\Delta = 58^\circ$, Kamchatka.

26 *L·NE* 5 24

30 *L·NE* 6 41

30 *L·NE* 8 17

April

1 *ePKP·Z'* 11 13 57
L·NE 58
 Eastern Pacific Ocean.

2 *eP·Z'* 11 03 39
ePP·E 07 32
eSKKS·E 14 40
e·E 14 52
e(S)·N 15 00
ePS·N 16 26
eSS·NE 21.8
L·NE 38
 $\Delta = 98^\circ$, Sumatra.

2 *e·Z'* 11 07 06
 Possibly phase in previous shock.

April

2 *eP·Z'* 11^h15^m27^s
ipP·Z' 15 49
 $\Delta = 70^\circ$, $h = 100$ km. Tibet.

6 *eP·Z'Z* 7 21 02
i·E 21 03
ePP·E 23 11
e·E 25 23
eS·E 28 48
e(SeS)·E 30 14
 No N-record, $\Delta = 57^\circ$, $h = 200$ km. Hindu Kush.

7 *L·E* 0 37
 No N-record.

7 *ePKP·Z'* 18 19 39
ePKS·Z' 22 46
e·Z' 24 19
 $\Delta = 140^\circ$, $h = 350$ km. Kermadec Islands.

9 *e(P)·Z'* 22 29 03
e(S)·Z' 29 20
e(Rg)·Z' 29 24
 $\Delta = 1^\circ$.

10 *ePP·Z'* 13 34 14
iSKS·NE 40 18
iPS·ZNE 43 53
L·NE 14 08
 $\Delta = 104^\circ$, $h = 150$ km. Sumatra.

11 *L·E* 2 17

11 *i·Z'* 14 45 49

12 *ePP·Z'* 5 23 22
eSKS·E 29 35
eSKKS·NE 30.1
ePS·E 32.3
L·NE 55
 $\Delta = 102^\circ$, Off northern Chile.

12 *eP·Z'* 22 43 46
i(P)·Z' 45 40
eS·N 50 52
eSS·N 54.3
L·NE 23 00
 $\Delta = 50^\circ$, Northern Iran.

13 *eP·Z'* 7 13 59
e(pP)·Z' 14 16
 $\Delta = 46^\circ$, Crete.

13 *iP·Z'* 8 05 06
 $\Delta = 60^\circ$, Kamchatka.

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April

16 *eP·Z'* 1^h52^m00^s
 $\Delta = 55^\circ$, Kamchatka.

16 *ePP·Z'* 11 05 08
 $\Delta = 104^\circ$, Sumatra.

18 *iP·Z'Z* 11 10 04
e(PPP)·N 13 42
iS·NE 17 57
eSS·NE 21.5
L·NE 28
 $\Delta = 57^\circ$, Aleutian Islands.

18 *eP·Z'* 18 04 55
 $\Delta = 57^\circ$, Aleutian Islands.

20 *iPKP·Z'* 15 34 26
e·NE 45 49
eSS·N 51.3
L·NE 16 10
 $\Delta = 114^\circ$, $h = 150$ km. Banda Sea.

21 *e·Z'* 16 03 19
e·Z' 03 47
 Near shock.

22 *ePS·N* 5 10 32
eSS·N 17.1
L·NE 35
 $\Delta = 115^\circ$, New Britain.

22 *iP·Z'Z* 17 31 10
ePP·N 33 23
ePPP·E 34 06
iS·NE 38 41
iPS·N 38 46
eSeS·E 41 16
eSS·NE 42.6
L·NE 49
 $\Delta = 53^\circ$, Alaska Peninsula.

23 *iP·Z'Z* 3 42 30
e(pP)·Z' 42 35
ePeP·N 42 47
iS·NE 51 22
ePS·E 51 47
eSS·N 55.8
L·NE 4 03
 $\Delta = 67^\circ$, $h = 60$ km. Japan.

25 *L·NE* 9 35

26 *iP·Z'* 11 49 59
ipP·Z' 50 12
 $\Delta = 72^\circ$, $h = 60$ km. Japan.

April

26 *e·Z'* 16^h50^m54^s

29 *eP·Z'* 23 04 59
e(Pg)·Z' 05 24
e(Sg)·Z' 06 13
iRg·Z'E 06 32
 $\Delta = 4^\circ$.

May

1 *e·Z'* 2 00 16
e·Z' 00 33
 Near shock.

2 *eP·Z'* 6 45 42
epP·Z' 47 28
 $\Delta = 80^\circ$, $h = 500$ km. Bonin Islands.

2 *e(P)·Z'* 9 12 30
e(S)·Z' 13 13
 $(\Delta = 4^\circ)$.

2 *e·Z'* 9 27.7

4 *e·Z'* 6 17 58

4 *e·Z'* 6 29 17

6 *iP·Z'* 21 06 32
i·Z' 06 35
iS·E 14 02
L·NE 22
 $\Delta = 53^\circ$, Unimak Island.

6 *iP·Z'* 22 13 05
 $\Delta = 64^\circ$, Kurile Islands.

7 *eP·Z'* 8 27 53
e·Z' 30 23
L·NE 52
 $\Delta = 69^\circ$, $h = 200$ km. Guatemala.

7 *ePKP·Z'* 11 17 46
eSS·N 39.6
eSSS·E 44.7
L·NE 12 06

7 *e·Z'* 11 24 06

8 *e·Z'* 10 48 34
L·NE 50.7
 $\Delta = 8^\circ$, Arctic Ocean. Disturbed by microseisms.

8 *eP·Z'* 21 00 04
 $\Delta = 59^\circ$, Iran.

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May		May	
10 <i>iP·Z'</i>	16 ^b 45 ^m 53 ^s	19 <i>ePKP·Z'</i>	20 ^b 21.0 ^m
$\Delta = 53^\circ$.	Unimak Island.	<i>ePP·Z</i>	22 40
		<i>eSS·NE</i>	39.3
10 <i>eP·Z'</i>	18 14 37	<i>L·NE</i>	59
$\Delta = 11^\circ$.	Greenland Sea.	$\Delta = 120^\circ$.	Indian Ocean.
12 <i>eP·Z'</i>	9 56 03	21 <i>e·Z'</i>	8 09.2
$\Delta = 75^\circ$.	Japan.		
13 <i>eP·Z'</i>	4 32 13	22 <i>ePKP·Z'</i>	3 20 00
$\Delta = 21^\circ$.	North of Franz Josef Land.	<i>ePP·NE</i>	21 44
		<i>e·N</i>	26 02
13 <i>eP·Z'</i>	8 01 01	<i>eSKS·N</i>	27 25
<i>L·NE</i>	22	<i>ePS·NE</i>	31 40
$\Delta = 63^\circ$.	Pakistan.	<i>L·NE</i>	57
		$\Delta = 122^\circ$.	Samoa Islands.
13 <i>eP·Z'</i>	9 01 31	22 <i>ePP·Z'NE</i>	13 54 47
$\Delta = 21^\circ$.	North of Franz Josef Land.	<i>epPP·N</i>	56 32
		<i>esPP·N</i>	57 30
13 <i>eP·Z'</i>	14 38 58	<i>i(SKS)·N</i>	59 54
$\Delta = 21^\circ$.	North of Franz Josef Land.	<i>i·N</i>	14 01 05
		<i>iS·E</i>	01 48
14 <i>e·Z'</i>	1 00 56	<i>ePS·N</i>	04 39
<i>e·Z'</i>	01 28	<i>eSS·E</i>	09.7
Near shock.		<i>esSS·E</i>	13 03
		<i>eSSS·N</i>	14.3
15 <i>e(P)·Z'</i>	12 46 02	$\Delta = 113^\circ$.	$h = 500$ km. New Ireland.
<i>e·Z'</i>	46 08		
Near shock? Or $\Delta = 86^\circ$.	Peru?		
15 <i>eP·Z'</i>	23 04 30	23 <i>e·Z'</i>	6 43 11
$\Delta = 40^\circ$.	Ionian Islands.	Near shock.	
18 <i>e·Z'</i>	9 39 40	23 <i>e·Z'</i>	10 36 41
		Near shock.	
18 <i>e·Z'</i>	9 48 30		
18 <i>e·Z'</i>	10 10 12	23 <i>iPKP·Z'Z</i>	21 06 38
		<i>iPP·Z'Z</i>	08 13
18 <i>eP·Z'</i>	22 15 56	<i>ipPP·Z'Z</i>	09 35
<i>L·NE</i>	29	<i>iSKS·N</i>	13 01
$\Delta = 39^\circ$.	Greece.	<i>i·N</i>	14 48
		<i>iPKKP·Z</i>	16 11
19 <i>L·NE</i>	1 24	<i>i·N</i>	20 30
		<i>iSS·N</i>	24 39
19 <i>ePP·ZN</i>	1 50.5	<i>isSS·N</i>	27 45
<i>eSKS·N</i>	56 13	<i>e·N</i>	39 08
<i>eSKKS·N</i>	57 32	<i>i·N</i>	43 58
<i>e·N</i>	59 32	No E-record. $\Delta = 123^\circ$.	$h = 400$ km. Fiji Islands.
<i>ePS·N</i>	2 00.3		
$\Delta = 117^\circ$.	Solomon Islands.		
19 <i>eP·Z'</i>	14 24 26	24 <i>L·N</i>	2 59
$\Delta = 59^\circ$.	Iran.		

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May		June	
26 <i>ePKP·Z'</i>	20 ^b 39 ^m 18 ^s	4 <i>ePKP·Z'</i>	12 ^b 25.4
<i>ipPKP·Z'Z</i>	41 21	<i>ePKS·N</i>	28.9
<i>iPP·Z</i>	41 42	<i>eSKSP·N</i>	38 ^m 15 ^s
<i>i·Z'</i>	42 09	<i>eSS·NE</i>	46 37
<i>iSKKS·N</i>	47 20	<i>L·NE</i>	13.2
<i>i·N</i>	47 42	$\Delta = 140^\circ$.	Kermadec Islands.
$\Delta = 127^\circ$.	$h = 550$ km. Fiji Islands.	4 <i>e·Z'</i>	14 33 05
		5 <i>L·NE</i>	6 57
28 <i>eP·Z'</i>	1 52 45	5 <i>eP·Z'</i>	20 26 40
$\Delta = 46^\circ$.	North Atlantic Ocean.	$\Delta = 56^\circ$.	Aleutian Islands.
30 <i>eSKP·Z'</i>	16 03 15	8 <i>ePKP·Z'</i>	2 12 51
$\Delta = 131^\circ$.	$h = 350$ km. Tonga Islands.	$\Delta = 122^\circ$.	Santa Cruz Islands.
		8 <i>eP·Z'</i>	4 17 18
June		<i>L·E</i>	39
1 <i>eP·Z'</i>	10 47 57	$\Delta = 57^\circ$.	Afghanistan.
<i>eP*·Z'</i>	48 09	8 <i>L·NE</i>	14 47
<i>eS·Z'</i>	49 19		
<i>eSg·NE</i>	49.9	9 <i>ePP·Z'ZNE</i>	10 27 07
$\Delta = 6\frac{1}{2}^\circ$.	Iceland.	<i>e·Z'</i>	29 08
		<i>eSKS·NE</i>	33 27
1 <i>eP·Z'</i>	12 11 58	<i>iSKKS·NE</i>	33 42
<i>eS·Z'E</i>	13 14	<i>eS·N</i>	35 04
$\Delta = 6\frac{1}{2}^\circ$.	Iceland.	<i>iPS·E</i>	36 37
		<i>L·NE</i>	57
2 <i>e·Z'</i>	7 39 10	$\Delta = 107^\circ$.	$h = 150$ km. Central Chile.
<i>e·Z'</i>	40 00		
3 <i>eP·Z'Z</i>	5 24 29	9 <i>iP·Z'ZNE</i>	23 23 39 $Z: 10^\circ, -12 \mu$.
<i>i·Z'NE</i>	24 31	<i>iPcP·Z'ZNE</i>	24 34
<i>ePP·NE</i>	24 57	<i>iPP·Z'ZNE</i>	25 37
<i>e·Z'</i>	28 31	<i>iPPP·Z'ZNE</i>	26 59
<i>iS·ZNE</i>	28 46	<i>iS·NE</i>	31 51 $E: 10^\circ, 25 \mu$.
<i>L·NE</i>	31.6	<i>L·E</i>	39
<i>M·NE</i>	34	<i>M·NE</i>	43 $E: 15^\circ, 140 \mu$.
$\Delta = 24^\circ$.	Arctic Ocean, North of Parry Islands.	$\Delta = 57^\circ$.	Afghanistan.
		10 <i>eP·Z'</i>	14 07 09
3 <i>eP·Z'</i>	13 41 14	<i>iL·NE</i>	08 35
$\Delta = 82^\circ$.	Bonin Islands.	$\Delta = 6^\circ$.	Iceland.
		11 <i>(i)P·Z'Z</i>	8 26 33 in the time break.
3 <i>L·NE</i>	20 10	<i>iS·NE</i>	30 09
		<i>L·NE</i>	31.5
4 <i>eP·Z'ZN</i>	7 18 59	<i>M·NE</i>	23 $E: 10^\circ, 14 \mu$.
<i>i·Z'</i>	19 01	$\Delta = 20^\circ$.	North Atlantic Ocean.
<i>eS·E</i>	26 51		
<i>e·N</i>	27 01	11 <i>eP·Z'</i>	23 03 37
<i>eScS·E</i>	28 51	$\Delta = 50^\circ$.	Siberia.
<i>eSS·N</i>	30 41		
<i>L·NE</i>	37	12 <i>eP·Z'</i>	3 24 14
<i>M·NE</i>	46	<i>L·E</i>	55
$\Delta = 57^\circ$.	Aleutian Islands.	$\Delta = 74^\circ$.	Assam.

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June	
12	<i>ePP·Z'Z</i> 9 ^h 11 ^m 38 ^s <i>eSKS·E</i> 18 26 <i>eS·N</i> 19.1 <i>ePS·E</i> 20.7 <i>eSS·NE</i> 25 45 <i>L·NE</i> 40 $\Delta = 98^\circ$. East Pacific Ocean.
12	<i>e·Z'</i> 14 45.2 <i>e·Z'</i> 45 47
13	<i>iSKS·NE</i> 12 32 16 <i>eSKKS·N</i> 33.1 <i>ePS·NE</i> 35 21 <i>L·NE</i> 59 $\Delta = 107^\circ$. $h = 200$ km. Celebes.
14	<i>eP·Z'</i> 12 22 55 <i>i·Z'</i> 22 59 $\Delta = 65^\circ$. Kurile Islands.
15	<i>ePP·Z</i> 15 57 09 <i>ePKS·NE</i> 58 04 <i>eSS·E</i> 16 14.9 <i>L·NE</i> 45 $\Delta = 132^\circ$. Tonga Islands.
16	<i>iP·Z'Z</i> 6 31 32 <i>ipP·Z'</i> 31 44 <i>eS·NE</i> 41 34 <i>eSS·NE</i> 46.8 <i>L·NE</i> 57 $\Delta = 78^\circ$. $\Delta = 78^\circ$. Deeper than normal. Ryukyu Islands.
19	<i>L·NE</i> 1 17
19	<i>L·NE</i> 4 58.2 8 ^s , 1 μ . <i>F·NE</i> 5 07
21	<i>L·E</i> 20 46 traces.
21	<i>L·E</i> 21 37 traces.
23	<i>(i)P·Z'Z</i> 2 27 25 in the time break. <i>iS·NE</i> 35 01 $E: 10^\circ$, 10 μ . <i>iScS·E</i> 37 16 <i>eSS·NE</i> 38 41 <i>L·NE</i> 44 <i>M·NE</i> 50 18 ^s . $E: 35 \mu$. $\Delta = 54^\circ$. Kamchatka.
26	<i>ePKP·Z'</i> 0 19 14 <i>ePP·Z'</i> 21 19 $\Delta = 126^\circ$. New Hebrides Islands.

June	
27	<i>e·Z'</i> 3 ^h 25.5 <i>e·Z'</i> 26 ^m 14 ^s <i>L·E</i> 26.4
27	<i>iP·Z'</i> 19 10 03 <i>L·NE</i> 46 $\Delta = 83^\circ$. Formosa.
28	<i>L·NE</i> 4 58
28	<i>L·NE</i> 18 00
28	<i>eP·Z'</i> 23 07 48 <i>eS·NE</i> 15 00 <i>eSS·NE</i> 18 30 <i>L·NE</i> 23 <i>M·E</i> 26 20 ^s , 35 μ . $\Delta = 50^\circ$. Vancouver Island.
29	<i>eP·Z'</i> 2 34 16 <i>ePP·E</i> 37.5 <i>eS·E</i> 44.5 <i>L·NE</i> 3 04 $\Delta = 82^\circ$. Formosa.
30	<i>eP·Z'</i> 1 57 34 <i>L·NE</i> 2 11 $\Delta = 37^\circ$. Black Sea.
July	
3	<i>e(S)·NE</i> 16 07.4 <i>L·NE</i> 23 $\Delta = 70^\circ$. Guatemala.
3	<i>iP·Z'Z</i> 23 35 43 <i>eS·NE</i> 43 24 <i>eSSS·NE</i> 49 51 $\Delta = 57^\circ$. $h = 200$ km. Hindu Kush.
4	<i>iPKP·Z'</i> 0 58 09 <i>epPKP·Z'</i> 1 00 06 $\Delta = 126^\circ$. $h = 450$ km. Fiji Islands.
4	<i>e(PS)·N</i> 3 33.9 <i>eSS·NE</i> 40.3 <i>L·NE</i> 59 $\Delta = 116^\circ$. Solomon Islands.
6	<i>eP·Z'</i> 2 31 38 <i>eS·NE</i> 39 23 <i>eSS·E</i> 43.4 <i>L·NE</i> 49 $\Delta = 56^\circ$. Off coast of Oregon.

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July	
6	<i>e·N</i> 4 ^h 30 ^m 17 ^s <i>e(L)·NE</i> 36.0
8	<i>(L)·NE</i> 15 12.1
9	<i>eP·Z'ZNE</i> 3 19 34 10 ^s . $N: 14 \mu$, $E: 25 \mu$. <i>i·Z'Z</i> 19 38 <i>iPP·NE</i> 21 11 7 ^s . $N: 22 \mu$, $E: 55 \mu$. <i>iS·NE</i> 25 51 14 ^s . $N: 90 \mu$, $E: 135 \mu$. <i>eNE</i> 29.1 15 ^s . $N: 100 \mu$, $E: 100 \mu$. <i>L·NE</i> 32.7 <i>M·NE</i> 34 20 ^s . $N: 160 \mu$, $E: 260 \mu$. $\Delta = 42^\circ$. Aegean Sea.
9	<i>eP·Z'</i> 3 31 59 <i>ePP·Z'</i> 33 42 Repetition.
9	<i>eP·Z'</i> 4 41 19 Repetition.
9	<i>eP·Z'</i> 6 27 01 Repetition.
9	<i>eP·Z'</i> 6 30 40 Repetition.
9	<i>iP·Z'ZNE</i> 10 06 07 <i>epP·Z'Z</i> 06 27 <i>ePP·E</i> 08 12 <i>ePPP·NE</i> 09 58 <i>eS·NE</i> 14 12 <i>isS·NE</i> 14 34 <i>L·NE</i> 24 $\Delta = 58^\circ$. $h = 100$ km. Haiti.
9	<i>i·Z'</i> 10 34 10
9	<i>e(P)·Z'</i> 10 35 52 <i>e(L)·Z'</i> 36 09
9	<i>e·Z'</i> 18 33 48
9	<i>eP·Z'</i> 20 21 51 Repetition, Aegean Sea.
9	<i>e·Z'</i> 21 36 36
10	<i>eP·Z'</i> 3 09 20 <i>ePP·NE</i> 10 59 <i>eS·E</i> 15 50 <i>L·NE</i> 22 Repetition. Aegean Sea.
July	
11	<i>e(L)·NE</i> 5 ^h 00.3
12	<i>iP·Z'</i> 15 13 ^m 15 ^s <i>eS·NE</i> 22 58 <i>L·E</i> 42 $\Delta = 76^\circ$. Burma.
12	<i>e·NE</i> 17 05 20
12	<i>L·NE</i> 18 02
15	<i>eP·Z'</i> 13 03 46 <i>e(SKS)·E</i> 13 14 $\Delta = 83^\circ$. $h = 500$ km. Bonin Islands.
16	<i>e(L)·NE</i> 6 56.7
16	<i>e(L)·NE</i> 7 14.2
16	<i>iP·Z'</i> 15 19 05 <i>ePP·E</i> 22 09 <i>eS·NE</i> 29 01 <i>isS·N</i> 29 21 <i>iPS·NE</i> 29 50 <i>L·NE</i> 45 <i>M·NE</i> 57 20 ^s . $N: 30 \mu$, $E: 45 \mu$. $\Delta = 78^\circ$. $h = 100$ km. Burma.
17	<i>epP·Z'</i> 7 49 50 <i>ePKP·Z'</i> 51 59 <i>ePP·NE</i> 53 00 <i>ipPP·Z'</i> 54 53 <i>iSKS·NE</i> 58 02 <i>iS·N</i> 59 57 <i>esS·NE</i> 8 03 00 $\Delta = 113^\circ$. $h = 450$ km. Banda Sea.
18	<i>eP·NE</i> 6 34 00 Z out of order. <i>ePKP·Z'</i> 38 00 <i>iPP·NE</i> 38 45 <i>ipPP·NE</i> 39 25 <i>iSKKS·NE</i> 45 25 <i>i(S)·E</i> 46 20 <i>ePS·NE</i> 48 05 <i>ipPS·NE</i> 48 50 14 ^s . $N: 20 \mu$, $E: 15 \mu$. <i>i·N</i> 49 12 <i>iSS·NE</i> 54 25 <i>iSSS·N</i> 59 25 <i>L·NE</i> 7 11 $\Delta = 112^\circ$. $h = 150$ km. Banda Sea.
19	<i>eSKS·NE</i> 21 04 29 <i>eSS·E</i> 11.2 <i>L·E</i> 26 $\Delta = 91^\circ$. Philippine Islands.

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July		July	
19	<i>eP·Z'</i> 23 ^h 37 ^m 50 ^s	30	<i>eP·Z'</i> 9 ^h 23 ^m 04 ^s
	<i>eS·E</i> 47.3		<i>eS·NE</i> 29 26
	<i>eSS·E</i> 52.7		<i>L·NE</i> 35
	<i>eSSS·E</i> 55.7		$\Delta = 43^\circ$. Aegean Sea.
	<i>L·NE</i> 24 01	30	<i>L·NE</i> 11 01
	$\Delta = 72^\circ$. Costa Rica.		
21	<i>eP·Z'</i> 0 19 45	31	<i>L·Z'</i> 23 03 Very short period.
	<i>eS·NE</i> 28 57		<i>L·Z'</i> 23 39 Very short period.
	<i>eScS·N</i> 29 42		Possibly calving of glaciers NE of the station.
	<i>L·NE</i> 40		
	$\Delta = 70^\circ$. Mid-Atlantic Ocean.		
21	<i>eP·Z'</i> 15 00 15		
	<i>e·Z'</i> 03 53		
	<i>eS·E</i> 07 37		
	<i>eScS·E</i> 08 59		
	$\Delta = 58^\circ$. $h = 600$ km. Sea of Okhotsk.		
21	<i>iP·Z'Z</i> 15 43 35		
	<i>ePP·E</i> 46 08		
	<i>eS·NE</i> 52 44		
	<i>eSS·N</i> 57 04		
	<i>L·NE</i> 16 05		
	$\Delta = 70^\circ$. India.		
22	<i>eP·Z'</i> 3 36 53		
	$\Delta = 42^\circ$. Aegean Sea.		
23	<i>L·E</i> 8 12		
23	<i>ePP·Z'E</i> 19 45 15		
	<i>ePS·E</i> 54.9		
	<i>ePPS·E</i> 56 13		
	<i>eSS·E</i> 20 01.3		
	<i>L·NE</i> 19		
	$\Delta = 112^\circ$. Eastern Island region.		
24	<i>e·N</i> 12 41 17		
24	<i>iP·Z'</i> 13 11 32		
	$\Delta = 78^\circ$. $h = 500$ km. Japan.		
26	<i>e(SK·P)·Z'</i> 18 10 02		
	$\Delta = 135^\circ$. $h = 650$ km. Kermadec Islands.		
27	<i>L·NE</i> 7 43		
27	<i>L·NE</i> 15 22.8		
28	<i>L·NE</i> 0 14.0		
28	<i>L·NE</i> 0 32		
28	<i>L·NE</i> 1 18		
28	<i>L·NE</i> 1 56		
	Probably local shocks.		
30	<i>e·NE</i> 5 58 49		
	<i>L·NE</i> 6 05		
	$\Delta = 43^\circ$. Aegean Sea.		

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August		August	
14	<i>eSS·NE</i> 3 ^h 29.0	20	<i>eP·Z'Z</i> 5 ^h 45 ^m 17 ^s
	<i>L·NE</i> 50 ^m		<i>eS·E</i> 54 41
	$\Delta = 128^\circ$. Indian Ocean.		<i>L·NE</i> 6 06
			$\Delta = 73^\circ$. Panama.
15	<i>ePP·E</i> 5 38 15 ^s	20	<i>L·NE</i> 7 46
	<i>iSKS·NE</i> 44 06		
	$\Delta = 101^\circ$. $h = 300$ km. Sumatra.		
15	<i>ePP·Z'</i> 11 09 49	23	<i>iP·Z'Z</i> 14 01 39
	<i>iSKS·NE</i> 15 50		<i>ePP·Z</i> 05 14
	<i>e·N</i> 18 58		<i>eSKS·NE</i> 11 59
	<i>e·E</i> 19 14		<i>eS·NE</i> 12 27
	<i>iPPS·E</i> 19 59		<i>ePS·N</i> 13 34
	<i>L·NE</i> 43		<i>eSS·E</i> 18.5
	$\Delta = 106^\circ$. $h = 100$ km. Celebes.		<i>L·NE</i> 32
			$\Delta = 92^\circ$. $h = 100$ km. Bolivia.
15	<i>eP·Z'</i> 12 09 36	24	<i>iP·Z'Z</i> 4 37 19
	<i>eS·N</i> 15 00		<i>iPPP·ZNE</i> 40 56
	<i>L·NE</i> 20		<i>iS·E</i> 45 12
	$\Delta = 34^\circ$. Yugoslavia.		<i>i·N</i> 45 33
15	<i>eP·Z'</i> 13 22 47		<i>eScS·E</i> 46 54
	<i>i·Z'</i> 22 51		<i>eSS·N</i> 49 10
	<i>iS·NE</i> 31 26		<i>L·NE</i> 55
	<i>ePS·E</i> 31 41		$\Delta = 56^\circ$. Aleutian Islands.
	<i>i·N</i> 31 47		
	<i>iScS·E</i> 32 44		
	<i>L·NE</i> 43		
	$\Delta = 65^\circ$. Kurile Islands.		
16	<i>eP·Z'</i> 0 46 26	25	<i>e·Z'</i> 18 02 52
	<i>eS·E</i> 52.8		<i>e·NE</i> 03.0
	<i>L·NE</i> 59		<i>e·Z'</i> 06 11
	$\Delta = 42^\circ$. South of Greece.		<i>e·N</i> 06 19
			Possibly one or two local shocks.
17	<i>(i)P·Z'NE</i> 1 27 17 in the time break.	25	<i>iP·Z'</i> 19 43 31
	<i>e·N</i> 28 18		<i>eS·E</i> 51 29
	<i>eS·E</i> 30 50		<i>eScS·E</i> 53.3
	<i>L·E</i> 33.0		$\Delta = 57^\circ$. Aleutian Islands.
	$\Delta = 18^\circ$. North Atlantic Ocean.	26	<i>eP·Z'</i> 16 58 06
			$\Delta = 57^\circ$. Aleutian Islands.
17	<i>iP·Z'NE</i> 2 03 41	28	<i>e·NE</i> 16 01 40
	<i>eS·E</i> 07 12		
	<i>L·NE</i> 08.4		
	$\Delta = 18^\circ$. North Atlantic Ocean.	30	<i>eP·Z'ZN</i> 4 33 44
			<i>eS·NE</i> 41 29
17	<i>e(P)·Z'</i> 11 11 15		<i>L·NE</i> 51
	<i>i(S)·N</i> 12 48		$\Delta = 56^\circ$. Aleutian Islands.
	$(\Delta = 8^\circ)$.	30	<i>e(S)·N</i> 5 42 30
			<i>L·NE</i> 52
17	<i>L·NE</i> 15 12		$\Delta = 56^\circ$. California.
19	<i>L·NE</i> 6 21		

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September		September	
6	L·NE 12h05m	29	eP·Z' 21h32m09s $\Delta = 70^\circ$. Japan.
8	eP·Z'NE 18 10 42 eS·NE 12 39 L·NE 13.1 $\Delta = 10^\circ$. West of Svalbard.	29	iP·Z' 23 32 21 $\Delta = 73^\circ$. Japan.
10	L·NE 3 23	October	
10	L·NE 14 48	2	iP·Z' 15 06 08 eS·N 13 53 L·NE 27 $\Delta = 56^\circ$. Kamchatka.
11	L·NE 10 32	2	L·E 16 32
11	eS·N 22 22 20 strong microseisms. L·NE 34 $\Delta = 60^\circ$. Kurile Islands.	6	eL·NE 7 33.5 $\Delta = 9^\circ$. Arctic Ocean.
15	eSKS·NE 8 02 54 eS·NE 03 42 eSS·N 10 12 $\Delta = 96^\circ$. $h = 100$ km. Northern Chile.	8	L·NE 15 56
16	eP·Z' 8 47 24 i·Z'Z 47 27 iS·NE 55 36 iScS·N 57 18 eSSS·N 9 01 40 L·NE 08 $\Delta = 59^\circ$. Pakistan-Afghanistan border.	10	eP·Z' 15 42 32 $\Delta = 67^\circ$. Northern India.
19	iP·Z' 23 59 26 iS·NE 24 09 03 e·E 09 41 i·N 09 56 $\Delta = 73^\circ$. $h = 150$ km? Central Burma.	11	iP·Z'Z 2 34 59 Z: 8 μ , 25 μ . ipP·Z 35 24 8 μ , 8 μ . iS·NE 43 24 10 μ . N: 25 μ , E: 25 μ . isS·E 44 08 10 μ , 15 μ . L·NE 54 M·N 58 30 μ , 65 μ . $\Delta = 63^\circ$. $h = 100$ km. Kurile Islands.
20	iP·Z'Z 22 01 56 eS·N 09 53 L·E 21 $\Delta = 58^\circ$. Kamchatka.	11	i·Z' 3 03 53 i·Z' 04 29 i·Z' 04 33 Possibly two quakes.
24	L·NE 7 02	11	eP·Z' 16 58 31 i·Z' 58 34 eS·NE 17 06 35 i·N 06 54 iSS·E 10 29 L·NE 13 M·NE 18 20 μ . N: 35 μ , E: 25 μ . $\Delta = 57^\circ$. California.
24	eP·Z' 10 30 39 eS·NE 38.8 L·NE 52 $\Delta = 59^\circ$. Pakistan-Afghanistan border.	12	eP·Z' 12 33 41 L·E 59 $\Delta = 66^\circ$. Japan.
28	eP·Z' 15 04 08 Masked by strong microseisms. $\Delta = 10^\circ$. West of Svalbard.	13	L·NE 19 52
29	L·E 9 58	19	iPKP·Z' 12 18 38 $\Delta = 128^\circ$. $h = 650$ km. Fiji Islands.

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October		October	
19	L·NE 15h15m	30	iP·Z'ZN 0h12m07s eS·N 12 46 eS·E 12 50 i(L)·E 13 10 i·N 13 15 $\Delta = 4^\circ$. North of Iceland.
19	iP·Z 20 57 22 iS·NE 21 05 14 iScS·E 07 14 eSS·NE 08 51 iSSS·NE 10 49 L·NE 14 $\Delta = 57^\circ$. Aleutian Islands.	31	iP·Z'Z 14 13 54 ePPP·NE 17 37 iS·NE 22 07 e·NE 22 22 iSS·NE 26 02 eSSS·NE 28 07 L·NE 32 $\Delta = 61^\circ$. Iran.
23	L·NE 9 29	31	eP·Z' 14 32 31 $\Delta = 61^\circ$. Iran.
24	iP·E 14 53 29 Z out of order. e·Z' 54 06 iPPP·E 57 59 eSS·NE 07 27 iSSS·NE 11 04 L·NE 16 M 24 20 μ . N: 125 μ , E: 150 μ . Strong microseisms. $\Delta = 71^\circ$. Nicaragua.	November	
25	L·NE 5 55	1	eP·Z' 6 02 46 $\Delta = 61^\circ$. Iran.
26	L·NE 23 46	2	iP·Z' 16 12 01 $\Delta = 39^\circ$. Greece.
28	ePKP·Z' 3 47 55 Strong microseisms. L·NE 4 37 $\Delta = 140^\circ$. Kermadec Islands.	4	eP·Z' 5 48 44 $\Delta = 74^\circ$. Japan.
28	eP·Z' 10 58 23 L·NE 11 40 Strong microseisms. $\Delta = 92^\circ$. Philippine Islands.	4	iPKP·Z' 7 24 52 iPKS·N 28 29 iPS·N 37 15 iSS·N 44 20 i·N 46 52 L·N 8 06 $\Delta = 129^\circ$. Tonga Islands.
29	iP·Z' 13 49 26 eS·Z' 50 08 (L)·NE 50.4 $\Delta = 4^\circ$. North of Iceland.	9	iP·Z' 13 17 00 ipP·Z' 17 26 isP·Z' 17 46 Galitzin disturbed by strong microseisms. $\Delta = 68^\circ$. $h = 150$ km. Mexico.
29	iP·Z' 15 54 50 ipP·Z' 55 11 $\Delta = 88^\circ$. $h = 60$ km. Peru.	11	eP·Z' 19 26 05 $\Delta = 65^\circ$. Kurile Islands.
29	iP·Z' 16 22 04 eS·Z' 22 46 i(L)·E 22 56 e(L)·N 23 02 $\Delta = 4^\circ$. North of Iceland.	13	e(L)·Z' 15 20 13
29	eP·Z' 16 32 55 i·Z' 33 00 iS·Z' 33 43 (L)·NE 33.9 In preceding shock. $\Delta = 4^\circ$. North of Iceland.	14	eP·Z' 1 01 11 epP·Z' 01 34 iS·NE 09 02 eSS·E 12.7 e·N 14 12 L·E 19 $\Delta = 58^\circ$. $h = 150$ km. Hindu Kush.

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November

15	<i>L·E</i>	15 ^h 11 ^m
15	<i>L·NE</i>	18 17
16	<i>L·NE</i>	3 54
16	<i>eP·Z'</i>	12 05 11
	<i>eS·N</i>	14.2
	<i>L·NE</i>	28
	$\Delta = 70^\circ$. Venezuela.	
17	<i>iS·E</i>	20 42 27
	<i>e·N</i>	42 56
	<i>L·NE</i>	48.7
	$\Delta = 46^\circ$. Queen Charlotte Islands.	
18	<i>L·NE</i>	19 35
21	<i>iP·Z'</i>	7 44 45
	<i>ipP·Z'</i>	45 06
	$\Delta = 70^\circ$, $h = 60$ km. Japan.	
27	<i>i·Z'</i>	23 51 53
28	<i>iP·Z'</i>	19 37 25
	<i>iS·NE</i>	45 39
	<i>i·N</i>	45 59
	<i>eSSS·E</i>	52.3
	<i>L·NE</i>	56
	$\Delta = 61^\circ$. Kurile Islands.	
29	<i>iPKP·Z'</i>	4 32 41
	$\Delta = 130^\circ$. South Orkney Islands.	
29	<i>iP·Z'</i>	9 27 43
	<i>ipP·Z'</i>	27 51
	<i>e(PS)·NE</i>	38 37
	<i>L·NE</i>	55
	$\Delta = 82^\circ$, $h = 60$ km. Bonin Islands.	

December

2	<i>eP·Z'</i>	3 09 31
	<i>L·NE</i>	31
	$\Delta = 55^\circ$. Aleutian Islands.	
2	<i>e·Z'</i>	9 04 24
2	<i>e·Z'</i>	9 08.3
	<i>e·Z'</i>	08 51
3	<i>eP·Z'</i>	7 29 40
	<i>L·NE</i>	48
	$\Delta = 55^\circ$. Aleutian Islands.	
4	<i>ePKP·Z'</i>	10 27 10
	$\Delta = 130^\circ$. South Pacific Ocean.	

December

4	<i>eP·Z'</i>	10 ^h 51 ^m 41 ^s
	<i>L·NE</i>	11 14
	$\Delta = 55^\circ$. Aleutian Islands.	
4	<i>eP·Z'</i>	21 12 05
	$\Delta = 82^\circ$, $h = 100$ km. Ryukyu Islands.	
4	<i>L·NE</i>	23 32
8	<i>eP·Z'Z</i>	16 20 12
	<i>eS·N</i>	28 08
	<i>L·NE</i>	38
	$\Delta = 57^\circ$. Aleutian Islands.	
9	<i>eP·Z'</i>	5 28 40
	$\Delta = 55^\circ$. Aleutian Islands.	
9	<i>e·Z'</i>	18 15.7
	<i>i·Z'</i>	19 36
	<i>i·Z'</i>	19 52
10	<i>i·Z'</i>	1 05 49
15	<i>iPKP·Z'</i>	15 43 07
	$\Delta = 122^\circ$, $h = 150$ km. New Hebrides.	
16	<i>eP·Z'</i>	1 53 26
	$\Delta = 74^\circ$. Columbia.	
18	<i>iSKKS·NE</i>	2 55 59
	<i>ePS·NE</i>	58 14
	<i>L·NE</i>	3 20
	$\Delta = 102^\circ$. Chile-Argentina border.	
18	<i>ePKP·Z'</i>	19 39 11
	<i>ePP·Z'</i>	41 09
	$\Delta = 127^\circ$. South India Ocean.	
18	<i>iP·Z'</i>	21 24 19
	$\Delta = 75^\circ$, $h = 100$ km. Japan.	
19	<i>iP·Z'</i>	1 28 09
	<i>iPcP·Z'</i>	28 59
	$\Delta = 58^\circ$. Kamchatka.	
19	<i>iP·Z'</i>	4 47 42
	$\Delta = 79^\circ$, $h = 450$ km. Bonin Islands.	
21	<i>eP·Z'</i>	9 07 42
	<i>eScS·NE</i>	17 44
	<i>L·NE</i>	23
	$\Delta = 49^\circ$. Queen Charlotte Islands.	

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December

21	<i>eP·Z'</i>	20 ^h 21 ^m 49 ^s
	<i>i·Z'</i>	21 56
	$\Delta = 75^\circ$. Japan.	
22	<i>L·NE</i>	23 50
23	<i>eP·Z'</i>	8 50 09
	<i>epP·Z'</i>	50 34
	$\Delta = 87^\circ$, $h = 100$ km. Mariana Islands.	
25	<i>iP·Z'</i>	3 03 48
	Strong microseisms. $\Delta = 23^\circ$. North Atlantic Ocean.	
25	<i>eP·Z'</i>	9 38 33
	<i>i·Z'</i>	38 45
	$\Delta = 23^\circ$. North Atlantic Ocean.	
27	<i>ePKP·Z'</i>	0 33 00
	<i>epPKP·Z'</i>	34 23
	<i>iSKP·Z'ZN</i>	36 08
	<i>ipPP·Z'ZNE</i>	36 27
	<i>i·Z'</i>	36 40
	<i>ipPKS·NE</i>	37 54
	<i>i·NE</i>	42 00
	<i>i·N</i>	48 01
	<i>iSS·NE</i>	52 15
	<i>isSS·E</i>	54 29
	$\Delta = 131^\circ$, $h = 300$ km. Tonga Islands.	

December

27	<i>eP·Z'</i>	10 ^h 16 ^m 20 ^s
	$\Delta = 44^\circ$. Turkey.	
27	<i>e·Z'</i>	15 33.1
	<i>e·Z'</i>	33.3
28	<i>e·Z'</i>	3 01.4
	<i>e·Z'</i>	02.2
28	<i>iPKP·Z'</i>	14 44 09
	<i>ipPKP·Z'</i>	44 48
	<i>L·E</i>	15 35
	$\Delta = 147^\circ$, $h = 150$ km. New Zealand.	

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HENRY JENSEN