

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

SCORESBYSUND

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

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'. $T_p = 1 \text{ sec.}$ $T_g = \frac{1}{4} \text{ sec.}$ 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 those given by BCIS or USCGS. C means compression and D dilatation.

Scoresbysund 1961

July

- 1 *iP·Z'* 13^h23^m50^s
 $\Delta = 93^\circ$. $h = 70$ km. Near coast of Peru.
- 1 *eP·Z'* 23 53 54
 $\Delta = 58^\circ$. Aleutian Islands.
- 3 *iP·Z'* 15 02 14 D
 $\Delta = 88^\circ$. $h = 60$ km. Near coast of Peru.
- 4 *eP·Z'* 05 05 27
L·NE 26
 $\Delta = 54^\circ$. Nevada.
- 4 *iP·Z'* 06 23 39
e·Z' 24 01
eS·NE 34 32
 $\Delta = 90^\circ$. $h = 145$ km. Mariana Islands.
- 5 *eP·Z'* 02 33 57
 $\Delta = 79^\circ$. Ryukyu Islands.
- 5 *iP·Z'* 06 44 10 D
L·E 07 06
 $\Delta = 56^\circ$. Sinkiang Province, China.
- 5 *eP·Z'* 13 21 15
 Local shock.
- 5 *eP·Z'* 13 23 56
 Local shock.
- 6 *eP·Z'* 00 43 54
iP·Z' 44 37
 Local shock.
- 6 *iP·Z'* 16 20 21 D
 $\Delta = 78^\circ$. Ascension Island region.
- 6 *iPKP·Z'Z* 22 28 37 C
ePP·ZN 30 46
ePKS·ZNE 32 01
ePS·NE 40 55
e·N 49 11
L·ZNE 23 12
 $\Delta = 129^\circ$. Loyalty Islands region.
- 7 *eP·Z'* 08 15 27
 $\Delta = 62^\circ$. Kurile Islands.
- 7 *ePP·ZN* 13 30 35
eSKS·N 36 32
ePS·NE 40 01
eSS·N 46 26
L·NE 14 07
 $\Delta = 115^\circ$. New Britain.
- 7 *ePKP·Z'* 22 38 36
e·Z' 38 46
 $\Delta = 129^\circ$. Loyalty Islands region.

July

- 8 *ePKP·Z'* 02^h54^m29^s
ePP·ZN 56 32
ePKS·N 57 44
L·NE 03 41
 $\Delta = 129^\circ$. Loyalty Islands region.
- 8 *iPKP·Z'* 15 53 44 C
ePP·Z 55 51
ePKS·N 57 09
eSKKS·N 16 02 49
L·NE 38
 $\Delta = 129^\circ$. Loyalty Islands region.
- 8 *L·NE* 22 19
- 8 *ePKP·Z'* 22 07 50
ePKS·N 11 16
L·NE 50
 $\Delta = 129^\circ$. Loyalty Islands region.
- 9 *eP·Z'* 06 43 42
L·NE 07 08
 $\Delta = 67^\circ$. Off Honduras.
- 9 *eP·Z'* 08 15 47
 $\Delta = 59^\circ$. Iran.
- 10 *eS·N* 13 14 40
L·NE 29
 $\Delta = 71^\circ$. Mexico.
- 11 *iP·Z'NE* 09 44 49 C
eS·NE 55 44
eSS·N 10 01 59
L·NE 21
 $\Delta = 90^\circ$. Nicobar Islands.
- 12 *eP·Z'* 02 55 58
 $\Delta = 38^\circ$. Near east coast of Greece.
- 12 *iP·Z'* 13 40 34 C
 $\Delta = 65^\circ$. Kurile Islands.
- 15 *L·NE* 01 13
- 16 *ePKS·N* 14 24 21
L·NE 15 12
 $\Delta = 132^\circ$. Loyalty Islands region.
- 17 *eP·Z'* 01 12 16
L·NE 38
 $\Delta = 69^\circ$. Mexico.
- 17 *eP·Z'* 02 12 53
- 17 *iP·Z'* 16 31 48 D
eS·NE 41 20
eSS·NE 46 20
L·NE 57
 $\Delta = 73^\circ$. Off Honshu, Japan.

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July

18	<i>iP·Z'NE</i>	14 ^h 15 ^m 39 ^s	D	$\Delta = 79^\circ$.	Northern Ryukyu Islands.
18	<i>eP·Z'</i>	15 28 14	C	$\Delta = 79^\circ$.	Northern Ryukyu Islands.
18	<i>iP·Z'</i>	16 32 06	C	$\Delta = 79^\circ$.	Repetition.
18	<i>eP·Z'</i>	17 00 39		$\Delta = 79^\circ$.	Repetition.
18	<i>eP·Z'</i>	19 41 11		$\Delta = 79^\circ$.	Repetition.
18	<i>eP·Z'</i>	23 54 38	C	$\Delta = 79^\circ$.	Repetition.
19	<i>eP·Z'</i>	06 45 20	D		
	<i>eS·E</i>	55 19			
	<i>L·NE</i>	07 25		$\Delta = 79^\circ$.	Repetition.
19	<i>eP·Z'</i>	10 47 41		$\Delta = 79^\circ$.	Repetition.
19	<i>iP·Z'</i>	12 10 46	C		
	<i>eS·E</i>	20 44		$\Delta = 79^\circ$.	Repetition.
19	<i>eS·N</i>	23 14 30			
	<i>L·NE</i>	24		$\Delta = 40^\circ$.	Ionian Sea.
20	<i>L·NE</i>	07 38			
20	<i>iP·Z'</i>	09 14 40	C	$\Delta = 78^\circ$.	Northern Ryukyu Islands.
21	<i>iP·Z'</i>	19 02 53			
	<i>eS·NE</i>	12 56			
	<i>L·NE</i>	27		$\Delta = 79^\circ$.	Repetition.
23	<i>ePKP·Z'</i>	14 22 42			
	<i>ePP·E</i>	24 43			
	<i>ePKS·E</i>	26 01		$\Delta = 128^\circ$.	New Hebrides Islands.
23	<i>ePKP·Z'</i>	14 35 37		$\Delta = 128^\circ$.	Repetition.
23	<i>iP·Z'Z</i>	14 50 43	D		
	<i>eS·NE</i>	15 01 26			
	<i>ePS·E</i>	02 31			
	<i>eSS·NE</i>	07 26		$\Delta = 88^\circ$.	Pacific Ocean.

July

23	<i>ePKP·Z'</i>	15 ^h 49 ^m 21 ^s		$\Delta = 128^\circ$.	New Hebrides Islands.
23	<i>ePKP·Z'ZNE</i>	22 10 11	C		
	<i>ePP·ZNE</i>	12 06			
	<i>i·NE</i>	13 23			
	<i>ePS·NE</i>	22 18			
	<i>ePPS·NE</i>	23 50			
	<i>L·E</i>	51		$\Delta = 128^\circ$.	New Hebrides Islands.
23	<i>iPKP·Z'</i>	22 21 00	D	$\Delta = 128^\circ$.	Repetition.
24	<i>ipPKP·Z'</i>	01 51 22	D	$\Delta = 128^\circ$.	$h = 600$ km. Fiji Islands region.
25	<i>iP·Z'Z</i>	02 59 32			
	<i>eS·N</i>	03 09 39		$\Delta = 86^\circ$.	$h = 600$ km. Western Brazil.
26	<i>iP·Z'</i>	09 38 23		$\Delta = 145^\circ$.	$h = 80$ km. North Island, New Zealand.
28	<i>iP·Z'NE</i>	01 17 32	C		
	<i>ipP·Z'NE</i>	18 08			
	<i>iS·NE</i>	27 29			
	<i>esS·E</i>	28 26			
	<i>e·N</i>	29 01			
	<i>eSS·E</i>	33 01			
	<i>L·NE</i>	43		$\Delta = 81^\circ$.	$h = 135$ km. Ecuador.
28	<i>ePP·N</i>	06 32 47			
	<i>ePKS·N</i>	34 09			
	<i>e·E</i>	41 05			
	<i>eSS·E</i>	50 05		$\Delta = 128^\circ$.	New Hebrides Islands.
28	<i>eP·Z'</i>	10 25 08			
	<i>eS·N</i>	34 16			
	<i>eSS·N</i>	38 48			
	<i>L·NE</i>	47		$\Delta = 70^\circ$.	About 500 km west of Mexico.
28	<i>iP·Z'</i>	15 30 27		$\Delta = 66^\circ$.	Off Hokkaido, Japan.
30	<i>L·NE</i>	08 44			

August

1	<i>ePKP·Z'</i>	05 58 46			
	<i>ePP·Z'N</i>	06 00 03			
	<i>eSKS·N</i>	05 46			
	<i>ePS·N</i>	10 03			
	<i>L·N</i>	39		$\Delta = 120^\circ$.	Solomon Islands.

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August

- 1 *ePKP·Z'* 07^h40^m19^s
L·N 08 23
 $\Delta = 128^\circ$. Sandwich Group.
- 1 *ePKP·Z'* 09 53 43
L·N 10 37
 $\Delta = 128^\circ$. Sandwich Group.
- 2 *ePKP·Z'* 01 36 49
L·NE 02 30
 $\Delta = 146^\circ$. South Pacific Ocean.
- 2 *L·NE* 03 35
- 3 *iP·Z'Z* 03 17 49 D
eScS·N 27 26
 $\Delta = 58^\circ$. $h = 135$ km. Puerto Rico.
- 3 *eP·Z'* 14 34 43
 $\Delta = 57^\circ$. Aleutian Islands.
- 4 *eP·Z'* 07 28 38
 $\Delta = 67^\circ$. Hokkaido, Japan.
- 4 *eP·Z'* 18 42 37
eS·NE 48 34
eSSS·E 51 29
L·NE 53
 $\Delta = 37^\circ$. North Atlantic Ocean.
- 4 *iP·Z'ZN* 23 03 28 D
eS·NE 12 06
L·NE 24
 $\Delta = 65^\circ$. Kurile Islands.
- 5 *iP·Z'* 02 34 23 C
L·NE 51
 $\Delta = 44^\circ$. Kenai Peninsula.
- 6 *eP·Z'* 03 33 01
 $\Delta = 83^\circ$. Bonin Islands region.
- 6 *eP·Z'* 09 12 08
 $\Delta = 44^\circ$. Crete.
- 7 *L·NE* 13 44
- 8 *iP·Z'ZNE* 12 28 05 D
e·E 28 13
eS·N 35 56
ePS·ZN 36 01
eScS·E 38 06
L·NE 46
 $\Delta = 57^\circ$. Aleutian Islands.
- 9 *iPKP·Z'* 16 21 37 C
ePKS·N 25 08
L·NE 17 06
 $\Delta = 128^\circ$. New Hebrides Islands.

August

- 10 *eP·Z'* 12^h14^m39^s C
 $\Delta = 71^\circ$. Off Honshu, Japan.
- 10 *iP·Z'* 12 16 11 C
 $\Delta = 65^\circ$. Eastern Hokkaido, Japan.
- 11 *L·E* 01 12
- 11 *eP·Z'* 06 20 03
 $\Delta = 76^\circ$. Eastern Kyushu, Japan.
- 11 *ePKP·Z'* 10 44 06
 $\Delta = 127^\circ$. New Hebrides Islands.
- 11 *iP·Z'ZE* 16 02 20 C
ePcP·E 03 10
i·E 03 51
iS·E 11 07
iPS·E 11 31
iSKS·E 12 06
eSS·E 15 14
i·E 19 12
L·ZE 23
ePKPPKP·Z' 30 56
 $\Delta = 66^\circ$. $h = 50$ km. Eastern Hokkaido, Japan.
- 11 *eSKS·N* 23 02 24
eSKKS·E 03 22
eS·E 03 59
 $\Delta = 108^\circ$. Celebes.
- 11 *iP·Z'Z* 23 44 37 C
eS·E 53 26
 $\Delta = 66^\circ$. $h = 50$ km. Eastern Hokkaido, Japan.
- 12 *e·NE* 10 40 20
L·NE 41
- 13 *eP·Z'* 06 13 24
L·E 44
 $\Delta = 82^\circ$. Near coast of Formosa.
- 14 *ePKP·Z'Z* 19 10 08
ePKS·ZNE 13 30
 $\Delta = 132^\circ$. Tonga Islands region.
- 14 *iPKP·Z'Z* 23 47 49 C
ePP·Z 49 58
ePKS·NE 51 12
SKKS·N 57 12
e·ZN 00 04 20
L·ZNE 30
 $\Delta = 129^\circ$. $h = 100$ km. New Hebrides Islands region.
- 15 *eP·Z'* 02 58 12
e·Z' 58 42
 Near shock.

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August

- 15 *iP·ZNE* 19^h15^m45^s D
ePP·ZN 18 37
eS·NE 25 32
L·N 41
 $\Delta = 76^\circ$. South of Honshu, Japan.
- 16 *eP·Z'* 09 09 29
 $\Delta = 77^\circ$. South of Honshu, Japan.
- 17 *iP·Z'ZNE* 21 26 43 D
ipP·Z'ZN 27 20
isP·N 27 36
iS·NE 35 02
esS·N 35 47
iScS·E 36 08
eSS·E 38 20
e·NE 40 14
L·ZNE 45
ePKPPKP·Z' 55 37
 $\Delta = 63^\circ$. $h = \text{abt. } 150 \text{ km.}$ Kurile Islands.
- 19 *iP·Z'* 02 53 47 C
 $\Delta = 66^\circ$. Eastern Hokkaido, Japan.
- 19 *iP·Z'ZNE* 05 21 35 D
ipP·ZE 23 46
isP·N 24 42
iSKS·NE 31 06
iS·N 31 27
iSP·NE 32 32
isS·N 35 17
L·NE 44
 $\Delta = 87^\circ$. $h = 650 \text{ km.}$ Peru-Brazil border.
- 19 *eP·Z'* 05 29 18
ipP·Z' 31 25
 $\Delta = 87^\circ$. Repetition.
- 19 *iP·Z'* 05 39 20 C
 $\Delta = 87^\circ$. Repetition.
- 19 *iP·Z'* 05 45 00 C
 $\Delta = 73^\circ$. Off Honshu, Japan.
- 19 *e·Z'* 06 07 46
- 19 *iP·Z'ZE* 15 02 24 C
epP·Z'ZE 02 49
ePcP·N 03 17
eS·E 10 27
ePS·N 10 34
esS·N 11 10
L·NE 22
 $\Delta = 59^\circ$. $h = 100 \text{ km.}$ Mona Passage.
- 19 *iP·Z'* 16 13 16 C
ipP·Z' 15 23
 $\Delta = 87^\circ$. $h = 600 \text{ km.}$ Peru-Brazil border.

August

- 20 *iPKP·Z'* 05^h22^m15^s C
ipPKP·Z'Z 24 12
 $\Delta = 127^\circ$. $h = 600 \text{ km.}$ Fiji Islands.
- 21 *iPKP·Z'* 16 25 50 C
 $\Delta = 126^\circ$. $h = 75 \text{ km.}$ Tonga Islands.
- 21 *iP·Z'* 17 11 36 C
 $\Delta = 68^\circ$. Off Honshu, Japan.
- 22 *eP·Z'* 23 45 59
eS·N 46 06
L·Z'N 46 23
 Local shock.
- 23 *L·NE* 04 44
- 24 *eP·Z'* 22 51 40 C
 $\Delta = 65^\circ$. Eastern Hokkaido, Japan.
- 25 *iP·Z'* 07 07 48 C
 $\Delta = 53^\circ$. Alaska Peninsula.
- 26 *iP·Z'* 07 56 35
iS·Z' 56 42
 Local shock.
- 27 *eP·Z'* 02 04 37
 $\Delta = 86^\circ$. South of Ascension Island.
- 27 *L·NE* 16 52
- 27 *eP·Z'* 17 00 57
 $\Delta = 90^\circ$. Mariana Islands.
- 27 *iP·Z'* 21 06 43
 $\Delta = 62^\circ$. Kurile Islands.
- 29 *L·NE* 15 22
- 31 *iP·Z'N* 02 00 26 D
ipP·Z' 02 33
iS·N 10 16
 $\Delta = 87^\circ$. $h = 625 \text{ km.}$ Peru-Brazil border.
- 31 *iP·Z'N* 02 08 52 D
ipP·Z' 11 02
iSKS·N 18 25
 $\Delta = 87^\circ$. Repetition.
- September
- 1 *iPKP·Z'* 00 28 31
ipPKP·Z' 29 09
ePP·N 30 57
i·Z' 31 41
iPKS·N 31 59
eSKS·N 35 34

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September

- 1 *eSKSP·N* 00^h40^m34^s
iPPS·N 42 41
L·N 01 09
 $\Delta = 130^\circ$. $h = 130$ km. Sandwich Group.
- 1 *iP·Z'ZE* 19 01 51 C
eS·NE 11 11
ePS·NE 11 29
L·NE 21
 $\Delta = 72^\circ$. Off coast of Guatemala.
- 2 *iP·Z'* 00 35 43 C
L·NE 57
 $\Delta = 56^\circ$. Aleutian Islands.
- 2 *iP·Z'* 11 03 34 D
 $\Delta = 92^\circ$. $h = 130$ km. Indian Ocean.
- 2 *eP·Z'* 14 23 39
 $\Delta = 39^\circ$. Aegean Sea.
- 4 *L·N* 10 20
- 5 *eP·Z'* 02 40 12
L·NE 43
 $\Delta = 11^\circ$. Svalbard region.
- 5 *e·E* 06 30 29
L·N 35
- 5 *iP·Z'* 11 42 52 D
i·ZNE 42 57
iPP·NE 44 59
eS·NE 49 38
eSS·NE 53 02
L·ZNE 56
 $\Delta = 46^\circ$. Kenai Peninsula, Alaska.
- 8 *L·ZNE* 05 16
- 8 *iPKP·Z'ZN* 11 45 22 C
ipPKP·Z' 45 49
iPP·ZN 47 21
epPP·NE 47 39
iSKS·N 52 19
iSKKS·N 54 09
i·E 55 27
ePS·N 57 01
eSS·NE 12 04 26
L·NE 25
 $\Delta = 126^\circ$. $h = 125$ km. Sandwich Group.
- 8 *i·Z'* 20 29 21
 Seismic?
- 9 *iP·Z'* 09 19 57 C
 $\Delta = 55^\circ$. Aleutian Islands.

September

- 10 *eP·Z'* 04^h58^m07^s
 $\Delta = 98^\circ$. $h = 520$ km. Argentina.
- 10 *L·E* 09 12
- 11 *eP·Z'* 02 56 37
 $\Delta = 57^\circ$. Aleutian Islands.
- 11 *iP·Z'* 22 25 28
 $\Delta = 64^\circ$. $h = 135$ km. Off Venezuela.
- 12 *iP·Z'* 11 30 19
 $\Delta = 88^\circ$. $h = 550$ km. Peru-Brazil border.
- 12 *iP·Z'* 12 37 48
 $\Delta = 65^\circ$. Kurile Islands.
- 12 *L·NE* 19 50
- 15 *iP·Z'* 01 54 35 D
iPcP·Z' 56 09
 $\Delta = 46^\circ$. Cyprus.
- 17 *iP·Z'* 08 54 16 C
L·NE 09 27
 $\Delta = 82^\circ$. Near east coast of Taiwan.
- 18 *L·NE* 02 50
- 18 *iP·Z'* 11 09 27 C
L·NE 20
 $\Delta = 46^\circ$. Caspian Sea.
- 19 *iSKS·NE* 02 48 01
ePS·N 51 27
is·E 52 32
i·N 54 25
 $\Delta = 95^\circ$. $h = 600$ km. Southern Bolivia.
- 19 *eS·N* 10 07 31
L·NE 19
 $\Delta = 75^\circ$. Off south coast of Panama.
- 20 *L·NE* 19 59
- October
- 2 *iP·Z'* 07 29 27 D
 $\Delta = 41^\circ$. Near coast of Greece.
- 5 *iP·Z'* 23 10 09 D
 $\Delta = 58^\circ$. $h = 500$ km. Sea of Okhotsk.
- 6 *eP·Z'* 01 35 54
 $\Delta = 61^\circ$. $h = 150$ km. Kurile Islands.
- 6 *L·E* 07 11

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October

- 6 *iP·Z'* 18 52^m40^s
L·E 54 44
 Near the station.
- 13 *ePKP·Z'* 05 18 01
e·Z' 18 31
e·Z' 21 03
 $\Delta = 126^\circ$. Sandwich Group.
- 13 *ePKP·Z'* 11 05 55
 $\Delta = 130^\circ$. Sandwich Group region.
- 14 *iP·Z'* 12 42 29 C
 $\Delta = 75^\circ$. South of Honshu, Japan.
- 18 *ePS·E* 17 21 19
eSS·NE 27 15
L·NE 50
 $\Delta = 113^\circ$. Off coast of southern Chile.
- 23 *iPKP·Z'* 00 27 52 C
iPKS·ZNE 31 20
L·NE 01 05
 $\Delta = 130^\circ$. Sandwich Group.
- 23 *L·E* 08 42
- 23 *eSKS·NE* 15 04 19
L·NE 28
 $\Delta = 103^\circ$. Molucca Passage.
- 25 *iP·Z'* 16 35 45 C
 $\Delta = 72^\circ$. $h = 100$ km. Gulf of Aden.
- 26 *e·N* 15 59 31
L·N 16 27
- 28 *iP·Z'* 10 55 50
 $\Delta = 52^\circ$. Western Iran.
- 29 *eP·Z'* 09 21 29
L·NE 36
 $\Delta = 50^\circ$. Vancouver Island region.
- 30 *eP·Z'* 02 26 13
 $\Delta = 56^\circ$. Off coast of Oregon.
- 30 *iP·Z'* 08 38 28 C
L·E 45
 $\Delta = 22^\circ$. Novaya Zemlya.
- 30 *iP·Z'* 21 27 46 C
 $\Delta = 80^\circ$. South of Honshu, Japan.
- 31 *iP·Z'* 01 53 41 C
 $\Delta = 58^\circ$. Aleutian Islands.

November

- 3 *eP·Z'* 22^h43^m56^s
 $\Delta = 9^\circ$. North Atlantic Ocean.
- 4 *iP·Z'* 18 26 35
 $\Delta = 56^\circ$. Aleutian Islands.
- 12 *eP·Z'* 02 27 14
 $\Delta = 78^\circ$. Congo.
- 13 *eP·Z'* 14 13 29
 $\Delta = 6^\circ$. Jan Mayen region.
- 13 *iP·Z'* 19 48 44 D
 $\Delta = 63^\circ$. Kurile Islands.
- 14 *iP·Z'* 10 13 47 D
 $\Delta = 73^\circ$. $h = 160$ km. Near east coast of Honshu, Japan.
- 15 *iP·Z'Z* 07 27 59 C
eS·N 36 49
L·Z 50
 $\Delta = 66^\circ$. Near east coast of Hokkaido, Japan.
- 17 *eP·Z'* 11 24 19
eS·Z' 24 37
 $\Delta = 2^\circ$. Local shock.
- 17 *eP·Z'* 14 58 36
 $\Delta = 55^\circ$. Aleutian Islands.
- 17 *ePKP·Z'* 19 22 37
 $\Delta = 126^\circ$. $h = 200$ km. Tonga Islands.
- 18 *eP·Z'* 22 22 13
 $\Delta = 82^\circ$. Near east coast of Taiwan.
- 19 *eP·Z'* 21 58 01
 Near shock.
- 20 *iP·Z'* 04 12 51 D
 $\Delta = 50^\circ$. Outer Mongolia-Siberia border.
- 20 *eP·Z'* 18 05 56 C
i·Z' 06 06
 $\Delta = 40^\circ$. Azores region.
- 20 *eP·Z'* 23 19 06
 $\Delta = 80^\circ$. $h = 525$ km. South of Honshu, Japan.
- 22 *eP·Z'* 11 44 31
 Near shock.
- 27 *iP·Z'* 06 08 59
 $\Delta = 77^\circ$. South of Kyushu, Japan.

December

- 1 *iP·Z'* 21 24 55 C
ipP·Z'Z 25 49
eSKS·N 34 55
eSS·N 40 04
 $\Delta = 80^\circ$. $h = 200$ km. East China Sea.

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December			December		
2	<i>L·N</i>	13 ^h 01 ^m	13	<i>eP·Z'</i>	08 ^h 53 ^m 09 ^s
3	<i>eP·Z'</i>	01 11 35		$\Delta = 82^\circ$.	Ryukyu Islands.
	$\Delta = 70^\circ$.	Mexico.	17	<i>eP·Z'</i>	21 45 07
3	<i>eP·Z'</i>	08 52 55 C		$\Delta = 92^\circ$.	Near coast of Peru.
	$\Delta = 82^\circ$.	Taiwan.	18	<i>eP·Z'</i>	21 43 03
3	<i>iP·Z'</i>	18 40 04 C		$\Delta = 39^\circ$.	Ionian Sea.
	$\Delta = 44^\circ$.	Armenia.	20	<i>iP·Z'</i>	13 36 52 D
3	<i>iP·Z'</i>	20 05 07 C		<i>epP·Z'</i>	37 33
	$\Delta = 65^\circ$.	$h = 400$ km. Japan Sea.		<i>isP·Z'</i>	37 52
4	<i>eP·Z'</i>	12 49 15		<i>iS·N</i>	46 13
	<i>e·Z'</i>	49 20		<i>eScS·N</i>	46 40
	<i>L·N</i>	13 17		<i>isS·N</i>	47 25
	$\Delta = 67^\circ$.	Tsinghai Province, China.		<i>eSS·N</i>	50 18
4	<i>eS·N</i>	17 39 57		<i>L·N</i>	56
	<i>iL·N</i>	40 25		$\Delta = 74^\circ$.	$h = 175$ km. Colombia.
	$\Delta = 5^\circ$.	East of Jan Mayen.	21	<i>eP·Z'</i>	02 09 31
5	<i>ePKP₁·Z'</i>	13 21 09			Near shock.
	<i>ePKP₂·Z'</i>	21 47	25	<i>L·NE</i>	00 48
	<i>L·N</i>	14 21	27	<i>eP·Z'</i>	16 58 05
	$\Delta = 159^\circ$.	Southwest of Tasmania.		$\Delta = 72^\circ$.	Atlantic Ocean.
5	<i>ePKP·Z'</i>	13 21 15	28	<i>ePKP₁·Z'</i>	00 07 47
	<i>e·Z'</i>	21 36		<i>ePKP₂·Z'</i>	07 58
	$\Delta = 125^\circ$.	$h = 200$ km. New Hebrides Islands.		<i>eSS·NE</i>	30 40
6	<i>iP·Z'</i>	06 01 16 C		<i>L·NE</i>	01 03
	<i>e·E</i>	13 49		$\Delta = 150^\circ$.	Near North Island, New Zealand.
	<i>L·E</i>	36	29	<i>L·E</i>	15 31
	$\Delta = 86^\circ$.	Andaman Islands.	30	<i>iP·Z'Z</i>	00 49 09 C
6	<i>eP·Z'</i>	16 49 44 C		<i>i·Z</i>	49 17
	<i>ipP·Z'</i>	50 09		<i>iS·NE</i>	57 04
	<i>eS·N</i>	57 59		<i>iPS·NE</i>	57 10
	<i>ePS·E</i>	58 14		<i>eSS·NE</i>	01 01 08
	<i>L·NE</i>	17 06		<i>L·ZNE</i>	07
	$\Delta = 60^\circ$.	$h = 60$ km. Kurile Islands.		$\Delta = 57^\circ$.	Aleutian Islands.
9	<i>iP·Z'</i>	02 24 09 D	30	<i>eP·Z'</i>	10 24 21
	<i>L·NE</i>	42		$\Delta = 57^\circ$.	Aleutian Islands.
	$\Delta = 49^\circ$.	Kodiak Island.	30	<i>eP·Z'</i>	16 51 36
9	<i>iP·Z'</i>	04 12 07 D		<i>L·E</i>	17 15
	$\Delta = 93^\circ$.	Near coast of Peru.		$\Delta = 57^\circ$.	Aleutian Islands.
9	<i>ePKP·Z'</i>	04 45 23	30	<i>eP·Z'</i>	23 29 59 C
	$\Delta = 144^\circ$.	North Island, New Zealand.		$\Delta = 57^\circ$.	Atlantic Ocean.
9	<i>ePKP·Z'</i>	11 37 00	31	<i>eP·Z'</i>	16 04 32
	$\Delta = 121^\circ$.	Off southern Chile.		$\Delta = 57^\circ$.	Aleutian Islands.
9	<i>L·N</i>	12 26	31	<i>eP·Z'</i>	17 58 07
12	<i>iP·Z'</i>	23 17 03 C		$\Delta = 55^\circ$.	Aleutian Islands.
	<i>i·Z'</i>	17 09	31	<i>L·NE</i>	18 41
	$\Delta = 66^\circ$.	East of Hokkaido, Japan.			

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