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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, $\nu = 6{:}1$, $\varrho = 0.3$ 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. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments. Magnitudes have been computed from the following formulas:

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

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

July.

2 *ePP·ZN* 12h15m30s
eSKKS·N 22 24
ePS·ZNE 25 12
eSS·E 31 22
L·NE 50
$\Delta = 116°$. Sandwich Group.

3 *eP·Z'Z* 20 32 26 *Z*: 5s, 10 μ.
i·Z 32 31
iPP·Z 35 12
iS·NE 42 02
L·NE 57
L 20s·*NE* 21 01 *N*: 7 μ, *E*: 7 μ.
$\Delta = 74°$. $M(P) = 7.3$. $M(L) = 6.3$. Aleutian Islands.

3 *eP·Z* 23 03 59
Repetition.

4 *iP·Z* 4 39 41
i·ZNE 39 46 *C*
iPP·Z 42 03

4 *iP·Z* 4 39 41
i·ZNE 39 46 *C*
iPP·Z 42 03
iS·NE 48 51
L·NE 5 02
L 20s·*NE* 07 *N*: 11 μ, *E*: 20 μ.
$\Delta = 69°$. $M = 6.4$. Queen Charlotte Islands.

4 *eP·Z* 13 21 17
eS·E 30.2
L·NE 44
Repetition.

6 *iP·Z'Z* 5 24 31 *C*
epP·Z'Z 25 16
i·Z 27 22
iS·NE 30 43
esS·NE 32 02
i·E 34 09
$\Delta = 43°$. $h = 200$ km. Hindu Kush.

8 *iP·Z'Z* 13 03 26 *C*
$\Delta = 79°$. Japan.

9 *eP·Z* 0 54 50
ePP·Z 57 54
eS·N 1 05.1
L·NE 26
$\Delta = 82°$. Ryukyu Islands.

10 *iP·ZNE* 0 18 10 *C*
ePP·ZE 21 35
iSKS·NE 28 47 *N*: +, *E*: +.
eS·NE 29 05
L·NE 44
$\Delta = 88°$. Sumatra.

July.

10 *iP·Z'* 13h57m07s *D*
eS·E 14 03 13
$\Delta = 41°$. Persian Gulf.

11 *ePKP·Z* 12 14 37
i·Z 14 44
ePP·Z 17 36
ePKS·NE 18 22
$\Delta = 140°$. Tonga Islands.

13 *eS·NE* 10 27 46
L·NE 31
$\Delta = 17°$. Greece. No *Z'*-record.

13 *P·ZNE* 13 04 59 in the time-break.
eS·NE 08 09
L·NE 12
$\Delta = 17°$. Greece. No *Z'*-record.

14 *eP·Z* 10 40 43
ePP·Z 45 03
L·NE 11 22
$\Delta = 100°$. Molucca Strait.

17 *iP·Z'Z* 5 22 39
eS·NE 29.0
L·NE 38
$\Delta = 43°$. $h = 200$ km. Hindu Kush.

18 *ePP·Z* 2 03 20
L·NE 44
$\Delta = 119°$. $h = 200$ km. New Britain.

20 *iP·Z'Z* 9 42 03
i·Z' 42 09
iPcP·Z' 42 20
iS·NE 51 24
L·NE 10 08
$\Delta = 72°$. Kurile Islands.

20 *ePKP·Z* 21 18 37
ePP·ZNE 21 39
L·NE 22 03
$\Delta = 141°$. Deep. New Hebrides Islands.

24 *eP·Z'Z* 9 59 47
eS·NE 10 08 34
eSS·N 12 31
L·NE 20
$\Delta = 66°$. Kamchatka.

25 *iP·Z'Z* 3 51 58
eS·NE 4 00 51
eSS·E 05 06
L·NE 14
L 20s·*NE* 21 *N*: 16 μ, *E*: 21 μ.
$\Delta = 67°$. $M = 6.5$. Kamchatka.

July.

25	*iP·Z′Z*	11h22m50s		*Z′*: +, *Z*: −.
	i·ZNE	22 52		*D*. *Z*: 7s, 30 *μ*.
	epP·Z	23 26		
	i·ZNE	23 39		
	iS·NE	31 39		
	isS·NE	32 36		
	L·NE	45		
	Δ = 67°. *h* = 150 km. Kamchatka.			
26	*eP·Z′ZNE*	12 41 18		
	eS·NE	45 27		
	L·NE	51		
	Δ = 23°. Turkey.			
27	*ePP·ZE*	10 25 32		
	ePPP·Z	28 16		
	eSKS·E	31 02		
	eSKKS·E	32 43		
	ePS·E	35 41		
	L·NE	11 06		
	Δ = 125°. Chile.			
29	*ePKP·Z*	0 43 32		
	ePP·ZN	46 39		
	ePKS·NE	47 30		
	L·NE	1 26		
	Δ = 141°. Loyalty Islands.			
29	*eS·N*	11 01 34		
	L·NE	14		
	Δ = 62°. India.			
29	*eP·Z′Z*	14 42 01		
	eS·NE	48 38		
	L·NE	56		
	Δ = 45°. Afghanistan.			
29	*iP·Z′ZNE*	17 43 21	*C*	
	iPP·ZNE	46 12	*C*	
	iS·NE	52 56		
	iPS ZNE	53 15		
	L·NE	18 08		
	L 20s·*NE*	19		*N*: 90 *μ*, *E*: 135 *μ*.
	Δ = 75°. *M* = 7.3. Japan.			
31	*ePP·ZNE*	3 16 08		
	ePS·ZNE	26 10		
	L·NE	46		
	L 25s·*NE*	4 08		*N*: 18 *μ*, *E*: 45 *μ*.
	Δ = 119°. *h* = 100 km. New Britain.			
31	*ePP·Z*	15 15 44		
	ePS·Z	25 39		
	L·NE	55		
	Δ = 123°. Chile.			

July.

31	*iP·Z′Z*	22h34m38s	
	eS·NE	40 49	
	L·NE	48	
	Δ = 40°. Iran.		

August.

1	*iP·Z′Z*	2 28 26	*C*
	eS·NE	34 35	
	L·NE	42	
	Δ = 40°. Iran.		
2	*iPKP·Z′Z*	5 26 43	*C*
	iPP·Z	29 58	
	eSKP·Z	30 30	
	ePPP·Z	33 05	
	eSKSP·NE	40 08	
	L·NE	6 10	
	Δ = 142°. Loyalty Islands.		
2	*ePKP·Z*	9 50 18	
	Δ = 152°. Kermadec Islands.		
4	*iP·Z*	7 46 18	*C*
	eS·NE	55 41	
	L·NE	8 10	
	Δ = 72°. Aleutian Islands.		
5	*eP·Z*	22 39 04	
	L·NE	23 06	
	Repetition.		
9	*eP·Z*	7 51 26	
	eS·NE	8 01 29	
	L·NE	16	
	Δ = 79°. California.		
9	*iPKP·Z*	17 06 09	*C*
	L·NE	56	
	Δ = 148°. *h* = 100 km. Tonga Islands.		
9	*ePKS·NE*	23 59 26	
	L·NE	24 43	
	Δ = 131°. Santa Cruz Islands.		
11	*ePP·ZE*	3 11 16	
	L·NE	44	
	Δ = 101°. Celebes.		
12	*iP·Z′Z*	13 24 31	*C*
	ePP·Z	27 29	
	eS·E	34 23	
	eSKS·NE	34 41	
	L·NE	54	
	Δ = 78°. Japan.		

August.

13	$iP \cdot Z'Z$	7h22m46s		
	$i \cdot Z$	22 58		
	$iPP \cdot Z'Z$	25 35		
	$eS \cdot N$	32 24		
	$eSKS \cdot N$	32 48		
	$L \cdot NE$	50		
	$\Delta = 75°$. Japan.			
13	$iPKP \cdot Z'Z$	14 33 45	D	
	$ePP \cdot ZNE$	35 12		
	$iPPP \cdot ZNE$	37 45		
	$iSKS \cdot E$	40 47		
	$iSKKS \cdot NE$	42 14		
	$e \cdot E$	43 13		
	$iSKSP \cdot Z$	45 04		
	$i \cdot Z$	47 46		
	$L \cdot NE$	15 07		
	$L\ 20^s \cdot NE$	23	N: 12 μ, E: 16 μ.	
	$\Delta = 121°$. $M = 7$. Chile.			
17	$eP \cdot Z$	11 36 17		
	$eS \cdot N$	46 08		
	$L \cdot NE$	12 05		
	$\Delta = 79°$. South Atlantic Ocean.			
18	$iP \cdot Z'Z$	20 58 34		
	$L \cdot NE$	21 26		
	$\Delta = 74°$. Kurile Islands.			
20	$eSKS \cdot NE$	20 32 48		
	$eS \cdot NE$	33 20		
	$L \cdot NE$	51		
	$\Delta = 95°$. Tristan da Cunha.			
24	$eS \cdot NE$	2 03 45		
	$L \cdot NE$	16		
	$\Delta = 66°$. Kamchatka.			
25	$eP \cdot Z$	17 53 21		
	$eS \cdot NE$	18 02 57		
	$L \cdot NE$	18		
	$\Delta = 72°$. Aleutian Islands.			
26	$ePKP \cdot Z'Z$	18 46 31		
	$ePKS \cdot E$	50 03		
	$\Delta = 133°$. New Hebrides Islands.			
27	$eP \cdot ZN$	10 22 26		
	$eS \cdot NE$	26 36		
	$L \cdot NE$	32		
	$\Delta = 24°$. Crete.			
31	$eP \cdot Z'$	22 16 58		
	$eS \cdot NE$	21 03		
	$L \cdot NE$	27		
	$\Delta = 23°$. Turkey.			

September.

1	$eP \cdot ZN$	15h48m15s	C	
	$iS \cdot NE$	57 16		
	$L \cdot NE$	16 08		
	$\Delta = 68°$. Kodiak Island.			
2	$eP \cdot Z$	14 56 49		
	$eS \cdot NE$	15 05 26		
	$L \cdot NE$	17		
	$\Delta = 65°$. Tibet.			
2	$iP \cdot Z$	22 14 16		
	$PS \cdot NE$	23 33		
	$L \cdot NE$	36		
	$\Delta = 73°$. Aleutian Islands.			
3	$ePKP \cdot Z$	6 01 18		
	$e \cdot Z$	01 38		
	$\Delta = 145°$. Tonga Islands.			
3	$ePKP \cdot Z$	12 59 45		
	$e \cdot Z$	13 01 06		
	$iPP \cdot ZNE$	01 21		
	$eSKS \cdot NE$	06 07		
	$e \cdot NE$	07 41		
	$iSS \cdot NE$	17 30		
	$\Delta = 122°$. $h = 450$ km. Solomon Islands.			
3	$eP \cdot ZNE$	23 57 58	in the time-break.	
	$i \cdot ZNE$	58 13		
	$eS \cdot NE$	24 07 28		
	$eSKS \cdot E$	08 05		
	$L \cdot NE$	22		
	$\Delta = 73°$. Kurile Islands.			
6	$iP \cdot Z'Z$	15 36 09	C	
	$i \cdot Z'$	36 13		
	$\Delta = 74°$. Japan.			
7	$eP \cdot Z$	1 31 07		
	$iSKS \cdot NE$	41 48		
	$L \cdot NE$	2 08		
	$\Delta = 95°$. Tristan da Cunha.			
8	$iP \cdot Z'$	14 43 03	C	
	$\Delta = 68°$. Kamchatka.			
9	$eP \cdot Z'ZNE$	16 23 21		
	$L \cdot ZNE$	28		
	$\Delta = 18°$. Jan Mayen.			
9	$iP \cdot Z'ZN$	20 08 37	Z': D.	
	$L \cdot NE$	13		
	$\Delta = 18°$. Jan Mayen.			
10	$eS \cdot NE$	0 28 31		
	$L \cdot NE$	33		
	$\Delta = 24°$. Crete.			

September.

12 *iP·Z′Z* 12h29m22s *C.* *Z*: 5s, 2 *μ*.
L·NE 13 00
Δ = 81°. *M* = 6.2. Ryukyu Islands.

13 *iP·Z′* 3 21 07 *C*
Δ = 87°. *h* = 450 km. Bonin Islands.

14 *eP·Z′* 0 47 12
Δ = 87°. Philippine Islands.

15 *iPKP·Z′* 0 38 16 *C*
Δ = 145°. Tonga Islands.

17 *iP·Z* 8 04 07
L·NE 30
Δ = 71°. Kurile Islands.

17 *iP·Z* 8 16 47
eS·E 26 04
Repetition.

17 *ePKP·Z′Z* 20 15 49
L·NE 21 07
Δ = 145°. Tonga Islands.

19 *eP·Z* 3 52 20
eSKS·NE 4 02 45
e·E 05 17
L·NE 23
Δ = 86°. Philippine Islands.

19 *eP·Z′Z* 19 13 58
eSKS·NE 24 25
L·NE 41
Δ = 85°. Columbia-Panama border.

20 *iPKP* (2)*·Z′* 3 25 16
Δ = 158°. *h* = 200 km. New Zealand.

21 *iP·Z′* 16 20 05 *D*
Δ = 80°. *h* = 200 km. China Sea.

21 *iP·Z′* 23 12 02 *D*
Δ = 36°. Iran.

22 *iP·Z′Z* 5 48 27
eS·N 56 43
L·NE 6 12
Δ = 61°. Congo.

22 *iP·Z′Z* 9 15 48 *D*
eS·E 24 07
L·NE 37
Δ = 61°. Congo.

22 *iP·Z′Z* 9 25 08 *D*
Δ = 61°. Congo.

22 *iP·Z′* 22 58 32 *D*
Δ = 73°. Aleutian Islands.

September.

23 *iPKP·Z′Z* 23h22m06s *D*
Δ = 145°. Tonga Islands.

29 *iP·Z′Z* 11 31 31 *D*
iPP·Z′ZNE 35 31 *D*
ePPP·ZNE 37 36
iS·E 42 09
iSP·ZNE 43 28
e·N 44 27
Δ = 95°. *h* = 450 km. Mariana Islands.

October.

1 *iP·Z′Z* 16 22 25 *D*
iS·E 32 04
L·NE 45
Δ = 73°. Aleutian Islands.

2 *ePP·Z* 12 14 51
L·NE 56
Δ = 128°. Easter Island.

6 *e·Z′* 16 43 07

6 *L·NE* 16 44
Δ = 52°. Lake Baikal.

6 *iP·Z′Z* 6 00 56 *C*
iS·NE 05 19
L·NE 07
Δ = 24°. North Atlantic Ocean.

7 *iP·Z* 3 20 49 *D*
eS·NE 25 06
L·NE 27
Δ = 24°. North Atlantic Ocean.

7 *eP·Z* 15 33 19
ePKP·Z′ 37 08
ePP·ZE 37 44
iPPP·ZE 40 17
iSKS·E 43 48
eSKKS·E 44 53
ePS·ZE 47 16
i·ZE 48 20
eSS·E 53 11
L·NE 16 08
Δ = 112°. Banda Sea.

8 *iP·Z′ZNE* 6 03 22 *D*
ipP·ZNE 05 26
iPP·ZNE 06 13
iS·NE 11 46
iScS·NE 12 24
iSP·Z 12 28
isS·E 15 27
iSS·E 16 40
Δ = 71°. *h* = 600 km. Japan Sea.

October.

8	$eP \cdot Z$	20h52m03s		
	$eS \cdot NE$	21 02 04		
	$L \cdot NE$	18		
$\Delta = 78°$. Nicobar Islands.				
9	$iP \cdot Z'Z$	9 12 10	D.	Z: 4s, 3 μ.
	$ipP \cdot Z$	12 42		
	$iS \cdot NE$	21 35	7s.	N: + 5 μ, E: − 6 μ.
$\Delta = 75°$. $h = 150$ km. Japan.				
13	$iP \cdot Z'Z$	2 24 26	C	
	$eS \cdot N$	26 56		
	$L \cdot NE$	30		
$\Delta = 14°$. Rumania.				
13	$iP \cdot Z'Z$	15 03 27		
	$il \cdot Z'Z$	03 30	C.	Z: 5s. 5 μ.
	$ePP \cdot Z$	06 03		
	$iS \cdot NE$	12 21		
	$L \cdot NE$	25		
$\Delta = 67°$. $M = 6.7$. Kamchatka.				
14	$eP \cdot Z'Z$	21 30 39		
	$i \cdot Z'$	30 40	D	
	$iS \cdot E$	40 07		
	$L \cdot NE$	52		
$\Delta = 73°$. Aleutian Islands.				
14	$iP \cdot Z'Z$	23 01 18		
	$i \cdot Z'Z$	01 26		
	$L \cdot NE$	24 08		
$\Delta = 27°$. North Atlantic Ocean.				
15	$eP \cdot Z$	1 59 47		
	$eS \cdot NE$	2 04 25		
	$L \cdot NE$	07		
Repetition.				
20	$ePP \cdot ZN$	11 27 23		
	$iPKS \cdot ZN$	28 35		
	$L \cdot NE$	12.2		
$\Delta = 130°$, Santa Cruz Islands.				
27	$iP \cdot Z$	15 43 30	C.	Z: 6s, 1 μ.
	$eS \cdot NE$	46 59		
	$L \cdot E$	48.3		
$\Delta = 18°$. Jan Mayen.				
28	$iP \cdot Z'ZNE$	4 22 54	C.	Z: 6s, 10 μ.
	$iS \cdot NE$	26 23		
	$L \cdot NE$	27.5		
Repetition.				

October.

28	$iP \cdot Z'Z$	7h50m49s	C.	Z: 6s, 1 μ.
	$eS \cdot NE$	54 17		
	$L \cdot NE$	56.1		
Repetition.				
28	$iP \cdot Z'ZNE$	13 29 12	D.	Z: 5s, 12 μ.
	$ipP \cdot ZNE$	29 52		
	$iPP \cdot Z'ZN$	31 46	D	
	$iS \cdot NE$	38 07		
	$iScS \cdot ZNE$	38 54		
	$L \cdot E$	47		
$\Delta = 69°$. $h = 100$ km. Kamchatka.				
28	$eP \cdot Z'Z$	22 41 30		
	$ipP \cdot Z'$	41 44	C	
	$iS \cdot NE$	51 34		
	$esS \cdot N$	51 50		
	$L \cdot NE$	23 08		
$\Delta = 80°$. $h = 100$ km. Japan.				
30	$eP \cdot Z$	8 38 09		
	$eS \cdot E$	42 46		
	$L \cdot NE$	46		
$\Delta = 27°$. North Atlantic Ocean.				
30	$eP \cdot Z$	12 28 44		
	$ePP \cdot Z$	32 58		
	$eSKS \cdot E$	39 24		
	$iS \cdot N$	40 42		
	$ePS \cdot ZE$	42 12		
	$L \cdot NE$	13 01		
$\Delta = 105°$. Chile.				
30	$ePP \cdot Z$	21 51 03		
	$iSKS \cdot NE$	57 22		
	$iSKKS \cdot E$	58 05		
	$ePS \cdot E$	22 00 18		
$\Delta = 104°$. Chile-Bolivia border.				
November.				
1	$ePP \cdot ZE$	9 06 07		
	$iSKS \cdot E$	12 00		
	$iSKKS \cdot NE$	13 22		
	$iPS \cdot ZNE$	16 08		
	$L \cdot NE$	40		
	$L\ 20^s \cdot NE$	54		N: 22 μ, E: 22 μ.
$\Delta = 120°$. $M = 7.1$. Chile.				
5	$eP \cdot Z'ZN$	20 24 56		
	$eS \cdot ZNE$	28 13		
	$L \cdot NE$	29.5		
$\Delta = 17°$. Greece.				
6	$iP \cdot Z'Z$	4 49 20	C	
	$iS \cdot NE$	58 19		
	$L \cdot NE$	5 13		
$\Delta = 68°$. Kamchatka.				

November.

6 $eP \cdot Z'Z$ 22h21m30s
$L \cdot NE$ 49
$\Delta = 72°$. Aleutian Islands.

9 $ePKP \cdot Z$ 3 36 49
$ePP \cdot Z$ 38 28
$ePS \cdot ZNE$ 48 09
$L \cdot NE$ 4 14
$\Delta = 120°$. Sandwich Group.

9 $eP \cdot Z'Z$ 10 54 20
$eS \cdot NE$ 11 03 00
$L \cdot NE$ 15
$\Delta = 64°$. China.

9 $ePP \cdot Z$ 20 24 37
$eSKS \cdot E$ 31 10
$eP \cdot S \cdot E$ 33 56
$L \cdot NE$ 54
$\Delta = 105°$. Chile.

13 $iSKS \cdot NE$ 7 01 29
$eS \cdot N$ 02 45
$L \cdot NE$ 24
$\Delta = 102°$. Molucca Passage.

13 $iP \cdot Z'ZNE$ 9 32 07 *D*. Z: 10^s, 35 μ.
$iS \cdot NE$ 41 37
$L \cdot NE$ 53
$L\,20^s \cdot NE$ 10 05 N: 35 μ, E: 35 μ.
$\Delta = 73°$. $M(L) = 6.9$ Aleutian Islands.

16 $iP \cdot Z'$ 23 09 05
$i \cdot Z'$ 09 09
$L \cdot NE$ 27
$\Delta = 53°$. Sinkiang Province, China.

20 $eP \cdot Z$ 22 15 29
$iSKS \cdot E$ 26 13
$eS \cdot NE$ 27 00
$L \cdot NE$ 46
$L\,20^s$ 56 N: 12 μ, E: 12 μ.
$\Delta = 97°$. $M = 6.5$. Peru.

23 $ePKP \cdot Z'Z$ 14 32 11 6^s, 7 μ.
$i \cdot Z$ 32 17
$L \cdot NE$ 15 16
$\Delta = 148°$. Tonga Islands.

24 $ePKP \cdot Z'Z$ 7 12 26 6^s, 20 μ.
$i \cdot Z$ 12 34
$L \cdot NE$ 56
$\Delta = 148°$. Tonga Islands.

25 $eP \cdot Z'$ 22 05 53
$eS \cdot NE$ 15 29
$L \cdot NE$ 34
$\Delta = 76°$. Japan.

November.

27 $iP \cdot Z'$ 15 28 39 *C*
$ipP \cdot Z'$ 29 06
$\Delta = 73°$. $h = 100$ km. Japan.

December.

2 $ePS \cdot ZNE$ 9 38 31
$L\,20^s \cdot NE$ 10 03 N: 35 μ, E: 45 μ.
$\Delta = 106°$. $M = 7.5$. Chile. Strong microseisms.

3 $iP \cdot Z'Z$ 4 34 01 *D*. Z: 10^s, 20 μ.
$\Delta = 57°$. $M = 7$. Outher Mongolia. Strong microseisms.

13 $e(PKP2) \cdot Z$ 7 56 50
$L \cdot NE$ 8 47
$\Delta = 160°$. Macquarie Islands.

13 $iP \cdot Z'Z$ 10 18 08
$i \cdot Z'$ 18 22
$L \cdot NE$ 51
$\Delta = 87°$. Bonin Islands.

15 $iSKS \cdot E$ 0 15 59
$L \cdot NE$ 40
$\Delta = 101°$. Molucca Passage.

17 $eP \cdot Z'$ 16 56 15
$\Delta = 73°$. Kurile Islands.

21 $iP \cdot Z'$ 21 50 11 *C*
$e \cdot Z$ 50 48
$eS \cdot E$ 58 27
$iScS \cdot E$ 59 51
$\Delta = 63°$. $h = 100$ km. Alaska.

22 $eP \cdot Z'$ 3 14 22
$i \cdot Z'$ 14 25
$eS \cdot N$ 24 16
$L \cdot N$ 47
$\Delta = 77°$. Nicobar Islands.

22 $eSKS \cdot N$ 21 27 18
$eSS \cdot NE$ 38 51
$\Delta = 123°$. $h = 450$ km. Solomon Islands.

28 $eP \cdot Z'$ 5 44 33
$\Delta = 22°$. Crete.

29 $eP \cdot Z'$ 18 24 30
$L \cdot NE$ 32
$\Delta = 22°$. Crete.

February 1963. Henry Jensen.