

HELSINKI UNIVERSITY
Seismological Station

Bulletin No. 6

January - March 1948



Jan.	04	ePKS	09-18-29	Deep.
		epPKS	09-20-42	
		eSKS	09-21-15	
		esPKS	09-21-43	
		e	09-32-46	
		e	09-40-15	
		e	09-43-51	
Jan.	06	ePP	17-40-02	
		e	17-42-31	
		eSKS	17-46-41	
		eSKKS	17-47-06	
		e	17-47-29	
		ePS	17-48-41	
		ePPS	17-49-11	
		e	17-50-03	
		e	17-51-02	
		e	17-54-00	
		e	17-55-25	
		e	17-57-46	
		eL	18-07	
Jan.	10	eL	06-16	Distance = 67°4
Jan.	14	eL	03-33	
Jan.	16	eP	11-19-19	
		eS	11-28-07	
		e	11-29-27	
		eSS	11-32-41	
		eL	11-43	
Jan.	17	eL	02-40	
Jan.	17	eL	07-52	
Jan.	20	e	10-04-07	
		eL	10-55	
Jan.	22	ePKS	14-18-09	Deeper than normal.
		e	14-18-22	
		e	14-19-06	
		eSKS	14-21-32	
		e	14-25-14	
		ePS	14-27-52	
		eSKKS	14-30-46	
		e	14-31-10	
		e	14-32-43	

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Jan.	24	iP	17-59-15	c Distance = 84.0
		i	17-59-28	
		i	18-00-00	
		i	18-00-20	
		i	18-00-34	
		i	18-01-03	
		ePP	18-02-40	
		e	18-06-58	
		e	18-08-50	
		eS	18-09-36	
		e	18-11-05	
		e	18-12-23	
		e	18-13-55	
		eSS	18-15-15	
		e	18-19-00	
		eL	18-22	
Jan.	26	eP	14-23-12	Distance = 84.0
		eS	14-33-32	
		eSS	14-39-21	
		eSSS	14-41-17	
		eL	14-50	
Jan.	27	ePKP	12-16-45	Deep.
		e	12-17-41	
		iSKP	12-19-24	
		ePP	12-19-38	
		iPKS	12-20-20	
		ePPP	12-23-03	
		isSKP	12-23-46	
		ipSKS	12-29-42	
		e	12-31-38	
		e	12-34-28	
		e	12-38-16	
		e	12-42-30	
		e	12-45-25	
		e	12-49-51	
Jan.	28	eP	04-00-38	
		eSKS	04-11-03	
		eS	04-11-45	
		ePS	04-12-53	
		e	04-18-04	
		eL	04-27	
Jan.	28	iP	15-58-19	d Distance = 35.9
		e	15-59-26	
		e	15-59-42	
		iS	15-03-58	
		e	15-05-58	
		e	15-06-56	
		eL	15-08	

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Jan.	30	eP iPP eS eL	08-52-00 08-53-49 08-58-20 09-01	c	Distance = 42°8
Feb.	06	eL	23-08		
Feb.	09	iP iS eL	13-03-36.7 13-08-00 13-10.5	d	Distance = 25°1
Feb.	09	e e e e e	15-17-42 15-18-10 15-24-31 15-27-58 15-36-55		
Feb.	11	eL	16-12		
Feb.	11	eL	18-21		
Feb.	12	eL	22-40		
Feb.	13	eP e e e ePP ePPP e eS e eScS eL	05-05-06 05-05-21 05-05-34 05-06-05 05-06-50 05-07-24 05-07-38 05-11-36 05-12-42 05-15-21 05-18.5	c	Distance = 44°4
Feb.	14	eL	22-58		
Feb.	15	iP ipP i eS eL	18-00-18.5 18-00-27 18-00-37 18-04-38 18-07	e	Distance = 24°7
Feb.	18	eP iP iPP iS iSS eL	20-34-51 20-34-52.3 20-35-17 20-38-57 20-39-34 20-40.0	c	Distance = 22°6
Feb.	23	eL	10-30		
Feb.	28	eL	02-28		

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March	01	eP	01-26-15	
		e	01-29-36	
		iPP	01-30-17	
		ePPP	01-32-30	
		iSKS	01-36-37	
		iSKS	01-37-41	
		ePS	01-38-58	
		e	01-40-03	
		e	01-42-06	
		eSS	01-44-12	
		e	01-52-10	
		eL	01-56	
March	03	eP	09-21-40	Distance = 77°0
		iP	09-21-41.2	
		i	09-21-53	
		eS	09-31-19	
		i	09-31-35	
		eSS	09-36-14	
		e	09-38-24	
		eL	09-41	
March	04	eL	02-48	
March	06	eL	20-25	
March	07	eL	19-18	
March	08	eL	16-58	
March	09	eSKS	19-13-49	
		ePS	19-16-09	
		e	19-17-43	
		eSS	19-22-05	
		e	19-24-45	
		e	19-29-03	
		e	19-32-20	
		eL	19-36	
March	10	eL	12-33	
March	13	eSKS	20-27-01	
		eS	20-28-08	
		ePS	20-28-33	
		e	20-30-08	
		e	20-30-29	
		eSS	20-33-30	
		eL	20-44	
March	14	eL	21-40	
March	15	eL	02-13	
March	15	eL	12-00	

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March	16	e eL	03-02-12 03-21
March	16	eL	18-10
March	17	eL	20-40
March	21	eL	22-41
March	22	eL	22-20
March	23	e e e eL	18-30-39 18-31-06 18-37-11 18-46
March	24	iP ePP eS eL	05-32-41 05-36-11 05-43-06 06-01
March	26	eL	03-12
March	29	e e eL	02-38-18 02-38-30 02-47
March	29	e(P) e(S) eL	10-28-02 10-32-21 10-35
March	29	eL	12-48

e Distance = 84.8

April 1948

Eijo Vesanen

HELSINKI UNIVERSITY
Seismological Station

Bulletin No. 7

April - June 1948

April	09	eL	15 20	
April	12	eL	09 45	
April	15	eL	20 35	
April	17	iP	16 22 49.5	c Distance = 68°6
		ePP	16 25 28	
		eS	16 31 44	
		eL	16 45	
April	18	eL	13 18	
April	21	eL	16 30	
April	21	eP	20 33 51	c Distance = 77°0
		e	20 33 56	
		eS	20 43 30	
		eL	20 49	
April	22	eP	00 40 10	c Distance = 76°1
		eS	00 49 44	
		eL	01 03	
April	22	iP	10 47 37	c Distance = 21°7
		iS	10 51 33	
		eL	10 54	
April	23	eL	12 25	
April	26	eL	09 50	
May	01	eL	02 20	
May	07	eL	15 12	
May	08	eL	03 30	
May	09	iP	02 20 20	c Distance = 71°7
		iS	02 29 31	
		eSS	02 34 06	
		eL	02 42	
May	11	e	09 13 23	
		i	09 14 27	
		i	09 14 44	
		e	09 20 37	
		eL	09 43	



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May	12	iP ipP eS eL	01 08 07 01 08 21 01 17 13 01 28	c Distance = 70°8
May	14	iP eS e eL	22 42 28.0 22 51 10 22 52 11 23 01	c Distance = 66°2
May	17	eL	18 26	
May	20	eL	07 23	
May	22	eL	20 41	
May	23	eL	05 16	
May	25	eP e eS eL	07 21 13 07 21 32 07 29 15 07 41	c Distance = 58°6
May	25	eL	19 20	
May	29	iP i iS eL	04 52 10 04 52 17 04 54 39 04 56	d Distance = 13°0
May	29	eL	14 44	
June	01	eL	19 39	
June	15	eP eS eL	11 56 01 12 05 07 12 23	e? Distance = 70°8
June	16	eL	00 55	
June	17	eL	07 05	
June	18	eL	01 52	
June	18	eL	19 07	
June	27	eL	00 47	
June	27	eL	13 26	
June	27	eL	22 18	
June	28	eP eS eL	07 24 34 07 33 28 07 45	d? Distance = 68°6

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June	29	e	10 47 49
		i	10 51 19
		eL	11 29

June	29	iP	16 11 25
		iS	16 15 26
		eL	16 19

c Distance = 22°3

June	30	iP	12 25 06
		iS	12 29 50
		eL	12 32

c Distance = 27°6

July 1948

H. Harkkomaa

HELSINKI UNIVERSITY
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Bulletin No.8
July - September 1948.



July	05	e	14 00 40	
		eL	14 09	
	20	e	11 21 01	
		e	11 27 07	
		e	11 30 34	
		eL	11 53	
	24	iP	06 08 37	comp. Distance (S-P) = 24 ^o 6
		i	06 08 57	
		iS	06 12 56	
		eL	06 16	

Long waves were recorded:

07 th: 03 h, 08 th: 13 h, 14 th: 23 h, 16 th: 08 h,
18 th: 08 h, 23 rd: 13 h, 29 th: 01 h, 30 th: 04 h.

August	07	eP	14 51 45	Distance (S-P) = 72 ^o 5
		eS	15 01 00	
		ePS	15 02 04	
		eSS	15 05 05	
		eL	15 13	
	11	ePP	10 51 26	Deeper than normal
		e	10 52 24	
		eSKS	10 59 21	
		eSKKS	10 59 38	
		eS	10 59 50	
		ePS	11 00 30	
		ePPS	11 01 09	
		eSS	11 05 04	
		eSSS	11 08 12	
		eSSSS	11 10 19	
		eL	11 14	
	25	ePP	06 28 03	Deeper than normal
		eSKS	06 34 00	
		ePS	06 37 56	
		eSS	06 45 03	
		eL	06 59	

August 27	eP	10 48 28	Distance (S-P) = 19°0
	eS	10 52 00	
	eL	10 54.5	

Long waves were recorded:

21 st: 20 h, 27 th: 11 h, 28 th: 03 h,
29 th: 19 h and 24 h.

September 02	eP	23 47 35	Distance (S-P) = 95°7
	eSKS	23 58 04	
	eS	23 58 50	
	ePS	23 59 42	
	ePPS	00 00 10	
	e	00 01 54	
	eL	00 13	

07	eP	08 22 16	Deep!
	ePP	08 23 19	Distance (S-P) = 35°4
	ePP	08 23 42	
	e	08 24 22	
	e	08 24 41	
	eS	08 27 51	
	esS	08 29 04	
	e	08 30 05	

08	ePKP	15 28 30
	e	15 28 46
	e	15 29 12
	ePP	15 31 30
	e	15 31 39
	e	15 31 55
	e	15 32 20
	e	15 32 34
	e	15 32 48
	ePPP	15 34 56
	ePcPPKP	15 36 59
	ePKKP	15 37 51
	eSKSP	15 41 05
	ePS	15 41 36
	eScSPKP	15 44 05
	eSKKKS	15 46 49
	e	15 49 03
	eSS	15 49 43
	e	15 54 50
	eL	16 04

September 10	eP	13 59 21	comp. Distance (S-P) = 66°0
	e	13 59 24	
	ePcP	13 59 43	
	ePPP	14 03 35	
	eS	14 08 02	
	e	14 08 24	
	eScS	14 09 28	
	eSS	14 12 21	
	eSSS	14 15 46	
	eL	14 18	

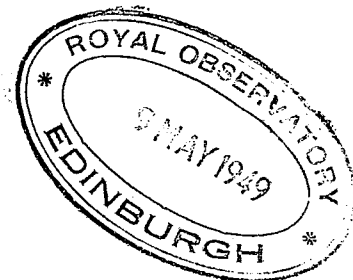
11	eP	08 57 34	Deep!
	e	08 57 59	Distance (S-P) = 22°2
	e	08 58 04	
	e	08 58 15	
	eS	09 01 34	
	e	09 02 15	
	e	09 05 08	

Long waves were recorded:

04 th: 16 h, 06 th: 09 h, 10 th: 12 h, 21 st: 18 h,
23 rd: 02 h, 24 th: 22 h and 24 h, 28 th: 22 h.

~~December 1948~~

H. Harkkoma.



HELSINKI UNIVERSITY
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Bulletin No.9

October - December 1948.

October 05 eP 20 18 22 dil. Distance (S-P) = 30.0
 i 20 18 26
 e 20 18 40
 ePP 20 19 08
 e 20 19 12
 iS 20 23 21
 eL 20 27

18 iP 09 05 14 comp. Distance (S-P) = 24.3
 e 09 05 25
 e 09 05 30
 e 09 05 40
 e 09 06 35
 eS 09 09 31
 eL 09 12.5

Long waves were recorded:

04th: 07h, 10th: 18h, 16th: 01h, 21st: 06h, 23th; 05h
 28th: 21h

November 01 eP 12 15 57 comp. Distance (S-P) = 58.8
 eS 12 24 01
 eL 12 33

13 e 04 55 10
 eL 04 56

22 eP 23 37 51 comp. Distance (S-P) = 23.6
 eS 23 42 02
 eL 23 44

Long waves were recorded:

03rd: 06h, 19th: 01h, 22nd: 09h, 26th: 06h, 28th: 22h.

December 15 e 19 33 15
 eL 19 55

23 eS 08 59 37
 eSS 09 04 01
 eL 09 12

Long waves were recorded:

04th: 01h, 05th: 07h, 10th: 10h, 12th: 14h, 13th: 16h,
 16th: 08h, 31st: 03h.

March 1949
 H. Harkkoma.