

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:1/68
'B'

PRELIMINARY SEISMOGRAM READINGS

January 2	i P	00 39 55,7
	i (S)	41 14,7
"	i Pn	15 11 23,4
"	i Pn	19 38 54,6
	i Sg	39 46,6
January 3	ei Pn	00 13 58,8
	i Sg	14 52,8
"	i P	04 16 27,0 D
January 4	i P(KP)	04 10 27,0

Chief
Dr.N.Öcal

5 January 1968
R.Can

19 FEB 1968

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:2/68

PRELIMINARY SEISMOGRAM READINGS
at
(ISK) Kandilli - İstanbul
January 5, 1968 - January 12, 1968
.....

January 5	e Pn	23 12(44)
January 6	i Pn	10 25 04,3 DNW
	i Pb	12,8
	i Pg	20,3
	i Sg	26 09,3
"	i Pg	12 23 20,9
	i Sg	40,9
January 8	i P	20 33 11,1 C
January 9	i P	23 17 33,1 DN
	T:1.0 sec.	0.057 mic.
January 10	i Pg	06 58 23,7 C
	i Sg	41,7
"	i	19 14 47,2
	Local	
January 11	ei Pg	20 46 51,2
	i Sg	47 09,7

Chief
Dr.N.Öcal

12 January 1968
R.Can

19 FEB 1968

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

NO:3/68

PRELIMINARY SEISMOGRAM READINGS
at
(ISK) Kandilli - İstanbul
January 12, 1968 - January 19, 1968
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January 12	i Pg	19 11 48,0 C
	i Sg	12 10,0
January 13	ei(Pn)	22 47 27,1
	Masked by microseisms.	
January 14	i Pn	11 43 41,4 C
	i Sg	44 18,4
"	ei Pg	20 37 24,7
	i Sg	33,7
"	i Pg	20 54 58,5 DSE
	ii Sg	55 09,2
	Strongly felt at Sakarya.	
"	i Pg	22 53 01,2
	i Sg	16,2
January 15	ei P	01 36 05,1 (C)N
"	i P	02 04 06,6 C
"	i Pg	10 16 14,4
	i Sg	28,9
"	i Sg	23 04 44,5
January 16	i PKP	16 45 46,1
January 18	e P	12 21(39)
	i (S)	23 12,8
"	i Pg	12 00 45,8
	i Sg	01 03,3
"	ei Pg	12 44 51,3
	i Sg	45 07,8
"	i Pg	17 01 09,8
	ii Sg	27,3
"	i Pg	23 49 32,3 C
	i Sg	48,8



KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:4/68
 'A'
 19 FEB 1968

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 January 19, 1967 - January 26, 1967

January 19	i Pn	06 23 15,8 D
"	i Pg	10 39 55,8
	i Sg	40 16,8
"	i Pg	11 51 01,8 CSE
	i Sg	17,8
"	ei Pg	16 35 02,8
	i Sg	17,8
"	i Pg	16 57 03,3 D
	i Sg	16,8
"	<u>i P</u>	18 28 22,2 cD
	0.25 micron	T:1.5 sec.
January 20	i Pg	03 37 04,2 C
	i Sg	20,2
"	i Pg	07 50 49,2 C
	i Sg	51 02,2
"	i Pg	21 40 51,8 D
	i Sg	41 07,8
"	i Pg	23 28 52,8 C
	i Sg	29 12,8
January 22	i Pg	06 21 26,9 CNW
	i Sg	43,4
"	i Pg	07 53 10,0 CN
	i Sg	15,0
"	i Pg	17 01 08,5
	i Sg	26,0
"	e P	20 37(52)

Continued

19 FEB 1968

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:5/68
'A'

PRELIMINARY SEISMOGRAM READINGS
at

(ISK) Kandilli - İstanbul

January 26, 1968 - February 2, 1968
.....

January 26	i Pg	10 41 46,1 C
	i Sg	42 02,1
"	i Pg	10 44 08,1 C
	i Sg	23,1
January 27	i Sg	00 32 47,1
"	i Pg	01 49 08,6
	i Sg	21,1
"	ei P	14 08 12,3
	i	24,3
January 28	i Sg	14 23 59,1
January 29	ei Pn	05 06 20,7
"	ii P	10 31 06,3 CSW
	ei S	41(03)
	T:1.2 sec.	0.33 mic.
"	i Pg	15 57 59,8 C
	i Sg	58 13,3
"	i P	16 54 53,3 CS(W)
January 30	i Pg	01 21 45,8 CNW
	ii Sg	54,8
"	i Seismic?	03 56 20,8
	i "	58 28,8
January 31	i Pg	01 12 00,9
	i Sg	26,9
"	i Pg	03 17 18,4
	i Sg	43,9

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:6/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 February 2, 1968 - February 9, 1968

February 2	i Pg	10 05 15,9 C
	i Sg	18,4
"	e Pn	15 17(21)
"	e Pg	18 52(33)
	ei Sg	47,3
"	ei Pg	23 55 32,8
	i Sg	47,8
February 3	i Pg	00 04 11,8
	ei Sg	26,3
"	ei P	03 38 18,7 D
"	<u>i P</u>	11 42 47,7 D
February 4	<u>i P</u>	11 12 56,0 D
"	i Pg	14 27 09,5 CN
	i Sg	29,0
February 5	e Pn	23 01(23)
February 6	i Pn	21 32 58,9 D
	i Sg	33 45,4
February 7	i Pn	00 01 47,9 DN
"	ei Pn	11 48 14,4
"	<u>ii P</u>	22 23 29,9 DSW
February 8	i Pg	01 10 53,4
	i Sg	11 10,9
"	i Pg	02 26 09,0 CNE
	ii Sg	12,5
	Epicentral distance 35 km.	
"	e P	11 05(05)
"	e P	12 35(04)

R. Cal

19 FEB 1968

KANDILLI OBSERVATORY
Seismological Section
ISTANBUL TURKEY

No:5/68
'B'

PRELIMINARY SEISMOGRAM READINGS

January 31	i Sg	11 35 49,5	
"	i Pg	13 10 21,6	CNW
	ii Sg	34,1	
	Epicentral distance 110 km.		
	Felt at İznik, Geyve. ⊗		
"	i Pg	14 05 11,1	
	i Sg	36,6	
"	i Pg	16 15 35,7	D
	i Sg	50,7	
February 1	i Pn	08 21 13,5	D
"	i P	12 59 21,5	oD
"	i Pg	13 52 24,5	CSW
	i Sg	39,5	
	Epicentral distance 45 km.		
February 2	e Pg	04 57 06,4	
	i Sg	18,4	

Chief
Dr.N. Öcal

2 February 1968
R.Can

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:9/68
'C'

PRELIMINARY SEISMOGRAM READINGS

February 27	i Pn	08 26 53,4	
"	i Pn	10 22 07,4	
"	ei Pn	11 46 48,4	
"	ei Pn	13 17 24,5	
	i Sg	18 23,5	
"	i Pn	13 21 03,5	
"	i Pn	13 28 32,5	CS
	ii Pg	41,5	
	ii Sg	29 20,5	
"	ei Pn	14 59 45,5	
February 28	i Pn	00 32 41,3	
	i Sg	33 35,8	
"	i Pg	09 26 00	DSE
"	i Pg	11 33 43,5	
	i Sg	55,0	
"	i P	12 19 41,5	D
	i (S)	29 23	
"	i Pn	17 27 48,5	
"	e Pn	19 20(20)	
	i Sg	21 17,9	
"	ei Pn	19 30 31,9	
"	e Pn	19 47(56)	
February 29	ei Pn	01 27 22,9	
	i Sg	28 05,9	
"	i Pn	11 47 33,1	C
	i Pg	40,6	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:9/68
'D'

PRELIMINARY SEISMOGRAM READINGS

February 29	i Pn	12 48 35,6
"	i Pn	17 34 36,8 C
"	i Pg	20 24 40,7
	i Sg	56,2
March 1	i Pn	03 43 37,4
"	i Pn	05 28 08,8
	i Sg	54,3

Chief
Dr.N.Öcal

March 1,1968
R.Can

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:9/68

PRELIMINARY SEISMOGRAM READINGS

February 29	i Pn	12 48 35,6
"	i Pn	17 34 36,8 C
"	i Pg	20 24 40,7
	i Sg	56,2
March 1	i Pn	03 43 37,4
"	i Pn	05 28 08,8
	i Sg	54,3

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:10-11/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 March 1, 1968 - March 15, 1968

March 1	e Pn	13 00(22)
	i Sg	01 02,5
"	i Pn	13 20 04,0
	i Sg	42,5
"	i Pn	14 35 02,5
	i Sg	41,5
"	e Pn	17 45(23)
"	i Pg	21 30 55,1 D
	i Sg	31 10,1
March 2	i Sg	02 57 41,3
"	e Pn	04 07(59)
"	e Pn	04 10 27,3
	i Pg	36,3
	i Sg	11 16,3
"	e Pn	05 42(31)
"	i Pn	07 20 22,7 D
"	e Pn	22 44(31)
March 3	ei Pn	18 24 16,8
"	e (P)	23 09(25)
March 4	e Pn	02 10(32)
"	e Pn	04 45(09)
"	i Pn	06 27 46,8
"	i Pn	09 23 20,1
"	ei Pn	14 49 26,9

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 10-12/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

March 4	i Sg	18 22 37,9
"	ei Pg	18 38 46,2
	i Sg	57,2
March 5	ei Pg	09 40 39,7
	i Sg	41 06,7
"	ei P(KP)	14 56 15,3
"	e Pn	16 12(31)
"	e (P)	18 30(18)
March 6	i Pn	05 15 46,0 C
	i Sg	53,0
"	ei Pg	05 51 20,0
	i Sg	40,0
"	i Pg	08 46 10,0 DE
	i Sg	22,0
"	ei Pn	09 50 52,5
"	e Pn	13 52(30)
"	e Pn	14 07(24)
"	e Pn	17 37(53)
"	ei Pn	21 40 24,0
	i Pg	35,0
March 7	e Pn	01 08(48)
"	ei Pg	04 53 22,7
	i Sg	39,7
"	e Pn	08 16(16)
"	i Pn	14 35 16,0 C
"	e Pn	16 03(58)

Continued

KANDILLI OBSERVATORY
 Seismological Section
 ISTANBUL TURKEY

No: 10-12/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

March 8	ei Pn	13 34 36,3
"	e Pn	16 30(12)
March 9	ei Pn	02 59 52,0
"	e Pn	10 53(21)
	i Sg	54 07,3
"	ei Pn	14 47 00
"	e Pn	20 21(17)
"	i Pg	20 50 43,6 DE
	i Sg	51 00,1
"	e Pn	22 00(29)
March 10	ei Pg	02 00 09,0
	i Sg	19,5
"	i Pn	06 49 17,4 C
	i Sg	50 14,4
"	i Pn	07 12 03,9 DSW
	ii Sg	13 09,9
"	e Pn	07 18(45)
"	e Pn	07 34(06)
"	e Pn	08 06(28)
"	e Pn	08 52(23)
"	e Pn	09 30(41)
"	ei Pn	12 05 13,8
March 11	ei P	08 46 03,4
"	i Pg	14 19 54,9 DSE
	i Sg	20 05,9

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:11-12/68
'D'

PRELIMINARY SEISMOGRAM READINGS

March 11	i Pg	15 09 29,9 DSE
	i Sg	39,9
"	ei Pn	17 33 38,4
	ii Pg	49,9
	ii Sg	34 29,4
March 12	ei Pg	05 43 43,9 CNE
"	i Pg	22 07 51,9 CW
	i Sg	08 08,9
March 13	e Pn	02 27(51)
"	ei Pn	15 47 46,9
"	i Pn	15 51 11,9
	i Sg	50,9
"	e Pn	21 00(10)
"	ei P	20 44 22,9
"	e Pn	23 52(03)
March 14	e Pn	01 24(11)
"	i P	02 14 24,4 D
"	e Pn	04 43(27)
"	i Pg	06 56 11,9 D
	ii Sg	28,4
"	ei Pn	19 18 29,7
"	i Pn	20 44 12,2
March 15	e P	03 02(32)
"	i Pg	06 44 54,1
	i Sg	45 08,1

Chief
Dr.N.Öcal

15 March 1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:12/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 March 15, 1968 - March 22, 1968

March 15	i Pn	07 15 59,1
"	i Pg	11 45 56,0
	i Sg	46 13,6
"	ei Pn	14 41 19,1
	i Pg	24,1 D
	i Sg	55,6
"	ei Pn	19 31 14,6
"	ei Pn	21 16 50,6
"	e Pn	21 38(36)
"	e Pn	22 58(15)
March 16	i Pn	00 24 52,1 C
"	ei Pn	00 03 53,6
	i Pg	04 00,6
"	ei Pn	05 17 27,1
	ei Pg	11 25 20,1
	i Sg	28,6
"	i Pg	14 55 53,1 C
	i Sg	56 04,6
"	i Pn	18 11 58,6 D
	ii Sg	12 52,6
"	i Pg	18 49 06,1 CNW
	ii Sg	22,6
March 17	i Pg	10 54 33,1 D
	ii Sg	48,1
"	e Pn	11 57(19)

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:12/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

March 17	e Pn	15 25(41)
"	i P	20 27 47,6
March 18	i (P)	05 40 19,1
"	e Pn	12 08(20)
March 19	ei Pg	04 35 49,7
	i Sg	36 01,7
"	i Pg	05 36 10,2
	i Sg	23,2
"	ei Pn	09 18 18,2
	i Sg	19 09,7
"	i Pg	09 22 45,7
	i Sg	59,7
"	i Pg	14 08 14,2
	i Sg	30,2
"	i Pg	14 21 27,2
	i Sg	39,7
"	i Pg	15 19 42,7
	i Sg	20 00,7
"	e P	19 08(10)
March 20	i Pg	14 44 13,1
	i Sg	32,6
March 21	ei Pn	06 48 03,9
	i Sg	55,9
"	i (Pn)	08 02 20,0
"	i Pn	09 43 23,5
	ii Pg	30,5
	ii Sg	44 02,0

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:12/68
'C'

PRELIMINARY SEISMOGRAM READINGS

March 21	e Pn	16 02(19)
"	ei Pn	16 10 09,2
	ii Pg	16,2
	ii Sg	50,2
"	e Pn	16 16(55)
"	ei Pn	17 46 40,2
"	ei Pn	20 20 00,4
	i Sg	42,4
March 22	i Pg	02 49 48,0
	i Sg	50 06,0

Chief
Dr.N.Öcal

March 22, 1968
Ref'au Can

5 APR 1968

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 13/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 March 22, 1968 - March 29, 1968

March 22	e Pn	10 25(47)
"	e Pn	13 57(11)
"	e Pn	15 55(34)
"	e Pn	19 35(37)
"	ei Pn i Pg	20 25 01,1 09,6
"	e (P)	20 47(01)
March 23	ei Pn	03 00 46,3
"	i Pn i Sg	07 25 42,4 26 24,4
"	ei Pn i Sg	10 19 32,4 20 15,4
"	i Pn i Sg	13 11 59,6 12 43,1
"	ii Pn	17 17 19,8
"	i Pn	17 23 50,3
"	ii Pn	17 26 38,3
"	Felt throughout western Anatolia.	
"	e Pn	17 32(25)
"	i Pn	18 48 46,3
"	e Pn	20 03(41)
"	i Pn	20 28 01,5

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Continued

5 APR 1968

KANDILLI OBSERVATORY
Seismological Section
ISTANBUL TURKEY

No:13/68
'B'

PRELIMINARY SEISMOGRAM READINGS

March 26	e Pn	02 12(27)
"	e Pn	05 42(07)
	i Sg	53,7
"	i Pn	12 34 54,5 C
	ii Sg	35 41,0
"	e Pn	15 18(51)
"	i Pn	17 10 17,8
	i Sg	11 05,8
"	<u>i P</u>	19 53 34,0
March 27	i Pg	00 35 10,3 CNE
	i Sg	21,3
"	i Pn	05 18 01,5
"	i Pn	08 20 19,7
"	i Pn	12 55 35,4
"	e Pn	21 28(38)
March 28	e Pn	00 58(50)
"	e Pg	06 02 48,6
	i Sg	03 04,1
"	<u>i P</u>	16 39 27,7 CE
"	<u>ii P</u>	17 12 51,9 cDSW
"	e Pn	22 48(29)
March 29	e Pn	05 47(32)
"	e Pn	07 30(21)

Chief
Dr.N.Öcal

March 29, 1968
R.Can

5 APR 1968

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:13/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

March 23	i Pn	21 14 29,0
"	e Pn	21 18(04)
"	e Pn	21 23(17)
"	i Pn	21 53 26,5 C
"	e Pn	22 32(07)
March 24	i Pn	00 21 28,7
"	i Pn	00 56 54,7
"	e Pn	03 15(18)
"	i Pn	09 24 01,6 C
"	i Sg	49,1
"	i Pn	13 23 33,2 C
"	i Sg	24 23,2
"	e Pn	17 52(50)
"	e Pn	19 07(46)
"	e Pn	22 57(36)
March 25	e Pn	05 30(25)
"	e Pn	08 51(37)
"	i Pg	10 45 15,6
"	i Sg	26,6
"	i Local	10 49 56,1
"	e Pn	13 25(59)
"	e Pn	23 37(55)
March 26	i P	00 54 10,6 D
	i (S)	56 12,1

Continued

17 JUN 1968

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:14/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 March 29, 1968 - April 5, 1968

March 29	i Pg	11 07 53.9 08 16.4
"	e Pn	16 26(10)
"	i Pg i Sg	22 02 34.7 51.2
March 30	e Pn	01 11(25)
"	<u>i P</u> T:0.5 sec.	11 25 28.2 CNE 0.035 mic.
"	i Pn	16 02 41.4
"	e Pn	18 38(31)
March 31	e Pn	02 56(54)
"	e Pn	05 49(45)
"	i Pn i Sg	11 24 38.5 C 25 26.0
"	e Pn	13 24(36)
"	i Pg i Sg	20 07 23.5 30.0
"	e Pn	21 28(54)
April 1	<u>i P</u>	00 54 61.3 CN
"	e Pn	06 28(37)
"	<u>i P</u>	07 25 15.4 C
"	i Pg ii Sg	13 54 12.3 DSE 27.3
"	i Pn i Pg ii Sg	16 58 15.6 17.6 40.6

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:14/68
'B'

PRELIMINARY SEISMOGRAM READINGS

April 2	e Pn	11 07(26)
	i Sg	08 00.5
"	i Pn	15 35 47.7 C
	ii Sg	36 38.7
"	e (P)	18 20(11)
"	e (P)	21 13(12)
April 3	i Pn	20 58 57.5
	i Sg	59 36.0
"	e Pn	23 39(32)
April 4	e Pn	00 32(50)
"	i Pg	10 02 07.7
	i Sg	23.2
"	e Pn	12 08(37)
	i Sg	09 29.1
"	e Pn	17 57(45)
"	e Pn	21 15(50)
April 5	e P	02 20(01)
"	e Pn	06 05(05)

Chief
Dr.N.Öcal

April 5, 1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:15/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - Istanbul
 April 5, 1968 - April 12, 1968

April 6	e Pn	09 18(20)
"	e Pn	15 27(56)
April 7	e Pn	10 07(48)
"	i Pn	16 54 02.0
"	e Pn	20 33(28)
	i Sg	34 11.8
"	ei Pn	21 27 41.8
"	ei Pn	22 27 47.8
April 8	e (P)	00 18(47)
"	i Pg	08 59 59.4
	ii Sg	09 00 42.4
"	e (Pn)	10 12(06)
"	ei Pn	13 02 14.6
"	e Pn	23 23(36)
	i Sg	24 19.5
April 9	e (P)	02 42(42)
"	e P	11 46(08)
"	e Pn	13 16(50)
"	ei Pn	17 39 54.6
April 10	i	03 51 22.9 C
	Local	
"	i Pn	07 16 28.0
"	i Pg	14 14 57.0
	i Sg	15 03.5

Continued



KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:15/68
'B'

PRELIMINARY SEISMOGRAM READINGS

April 10	i Pg	14 17 38.5
	i Sg	46.0
"	e Pn	15 11 00
"	i Pg	23 24 57.6
	i Sg	25 06.6
April 11	i Pg	10 03 13.7 C
	i Sg	37.2
"	i Pg	14 21 39.4
	ii Sg	46.4
"	i Pn	21 34 30.4 D
"	e Pg	22 35 34.4
	ei Sg	53.9
April 12	e Pn	03 40(20)
"	i Pn	05 41 21.2

Chief
dr.N.Ocal

April 12,1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:16/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 April 12, 1968 - April 19, 1968

April 12	e Pg	11 57(21)
"	i Pg	13 38 32.2
	i Sg	49.2
"	ei Pn	14 35 18.8
April 13	e Pn	05 36(17)
"	i	10 34 26.3
	Local	
April 14	i Pn	02 14 15.5 C
"	i Pg	07 24 28.1 C
	i Sg	48.1
"	<u>i</u> P	08 49 36.1 C
"	i Pn	10 49 49.1
	i Pg	51.1 D
	i Sg	50 14.6
"	e Pn	10 53(48)
	i Pg	52.2
	ei Sg	54 15.2
"	e P	13 17 32.2
April 15	e Pn	14 07(30)
"	e Pg	12 56(56)
"	e Pn	18 23(18)
	i Pg	29.6
	i Sg	24 15.6
April 16	e Pn	11 18(46)
April 17	e Pn	11 48(55)

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:16/68
'B'

PRELIMINARY SEISMOGRAM READINGS

April 17	i Pg	16 08 12.5
	i Sg	20.5
"	i Pn	21 14 10.8
"	ei Pn	21 29 01.3
"	i Pn	23 25 56.2
	i Sg	20.5
April 18	e Pn	03 09(40)
"	i Pn	04 37 39.4 C
"	ei Pn	09 11 00.3
"	i Pg	09 42 39.8
	i Sg	58.3
"	i Pg	17 46 52.0
	i Sg	47 17.0

Chief
Dr. N.Öcal

April 24, 1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:17/68

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 April 19, 1968 - April 26, 1968

April 19	ei Pn	20 47 35.0
April 20	ei P	12 44 49.7
"	i Pn	17 58 38.5
"	i Pg	17 22 57.5 CW
	i Sg	23 13.0
April 21	ei Pn	03 24 11.3
"	e Pg	10 16(36)
	i Sg	51.2
"	e Pg	11 09(41)
	i Sg	50.1
"	ei Pn	21 41 41.7
April 23	i Pg	08 31 24.1
	i Sg	42.1
"	ei P	12 45 19.0
"	i P	20 41 26.4 D
April 24	ei Pn	06 01 47.8
"	ii P	08 18 58.3 DW
April 25	i Pn	04 29 11.6 C
"	i Pn	10 35 30.4
"	ei P	21 45 19.6
April 26	e Pn	01 02(16)
"	i Pn	03 02 31.9

Chief
 Dr. N.Öcal

April 26, 1968
 R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:18/68

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 April 26, 1968 - May 3, 1968

April 26	i Pn	11 58 24.2 C
	i Sg	59 03.2
"	ei P	15 13 27.6
	i S	17 19.1
April 27	i Pn	21 31 14.0 D
	i Sg	32 01.0
April 28	i Pg	00 41 52.9
	i Sg	42 09.4
"	i Pg	21 55 32.4 C
	i Sg	47.4
April 29	i Pg	02 26 25.8
	i Sg	41.8
"	i Local	12 42 25.7
"	i P	17 04 47.3 C
	i S	08 17.8
April 30	i Local	10 35 59.2
May 1	ei Pn	00 40 18.9
"	ei Pg	02 13 55.4
	ei Sg	14 17.9
"	i Pn	08 55 57.5 D
May 2	ei P	05 42 04.5
"	i Pg	22 59 09.5
	i Sg	31.5
"	e (P)	23 39(47)
May 3	i PKP	05 44 33.2

R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:19/68

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 May 3, 1968 - May 9, 1968

May 3	e Pn	18 50(36)
May 4	ei Pn	06 22 48.9
"	e Pn	06 25(09)
"	<u>i P</u>	18 12 27.4 C
May 5	e Pn	08 24(18)
"	ei Pn	10 55 53.0
"	e Pn	18 53(11)
May 6	e Pn	04 41(58)
	i Sg	42 41.7
"	i Pg	13 02 57.9 SE
	i Sg	03 08.9
"	e Pn	17 10(33)
	i Sg	11 13.0
"	<u>ii P</u>	09 39 01.8 DSE
May 7	e Pn	22 00(14)
May 8	<u>i P</u>	11 19 36.3 D
"	e P	12 30(24)
"	ei P	22 51 32.6
May 9	<u>ii P</u>	04 19 58.7
"	i Pn	10 22 14.7
"	e Pn	10 47(07)
May 10	e P	00 30(44)
"	e Pn	06 50(34)

R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:20/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 May 9, 1968 - May 17, 1968

May 10	e (P)	15 20(16)
"	i P	23 08 05.8 C
"	i Pn	21 55 56.3 C
May 11	i Pg	04 48 04.1
	i Sg	22.1
May 12	i Pn	06 59 16.3
	i Sg	51.3
"	e Pn	15 27(18)
May 13	i Pn	02 48 53.3 D
	i Sg	50 21.8
May 14	i Pg	02 11 05.7 DNE
	i Sg	19.7
"	ii Pg	02 49 25.2 NE
"	i PKP	14 16 48.0 C
"	i Pn	15 01 05.0
"	i Pg	15 13 41.5 CNE
	i Sg	52.0
"	e Pg	21 57(22)
	i Sg	48.7
"	e Pn	23 42(44)
May 15	e Pn	01 24(03)
"	i P	08 01 00.2

Continued

KANDILLI OBSERVATORY
Seismological Section
ISTANBUL TURKEY

No:20/68
'B'

PRELIMINARY SEISMOGRAM READINGS

May 15	e P	15 20(30)
May 16	ei P	00 01 03
	i (pP)	32.6
	i S	11 08.0
	Hokkaido, Japan.	
"	e Pn	02 43(06)
"	i P	06 48 51.8 C
"	e P	09 10(09)
"	i P	10 51 00.7
	i S	11 00 53.1
"	e Pn	16 40(02)
"	i Pg	16 57 41.9
	i Sg	53.9
"	i P	18 55 17.3 C
"	e P	20 34(13)
"	i P	23 17 01.7
	i S	27 17.7

Chief
Dr. N. Öcal

May 17, 1968
R. Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:21/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 May 17, 1968 - May 24, 1968

May 17	ei	P	10 54 53.4
"	e	Pn	12 21(23)
"	i	Pn	19 30 30.8
	i	Sg	31 21.8
"	e	P	22 48(19)
May 18	ei	Pg	10 15 20.1
	ei	Sg	37.1
May 19	i	Pn	18 24 06.2
May 20	i	P	07 32 54.9
"	ei	P	10 46 16.2
"	i	Pg	16 39 07.0
	i	Sg	25.5
"	ei	P	20 25 41.3
	i	S	29 43.8
"	i	P	21 21 50.2 C
	i	S	31 52.2
May 21	i	Pn	00 31 39.1
"	i	Pn	04 05 00
"	i	Pg	04 33 14.4
	i	Sg	27.9
"	i	P	08 32 05.2
"	e	P	11 16 00.8

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:21/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

May 21	e	Pn	13 02(01)
	i	Pg	12.5
"	i	Sg	50.0
"	i	Pg	17 56 54.2
	i	Sg	57 32.2
May 22	i	Pg	05 31 45.9
	i	Sg	32 01.9
"	ei	P	11 03 51.2
"	i	Local	18 01 49.0
"	i	P	18 40 13.5 D
"	i	P	19 41 27.0 C
"	e	Pn	22 58(33)
May 23	e	Pn	00 06(24)
"	e	Pg	17 35(13)
	i	Sg	29.3
"	e	P	17 44(01)
	i	(pP)	10.8

Chief
 Dr.N.Öcal

May 28, 1968
 R.Can

28 AUG 1968

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:22/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 May 24, 1968 - May 31, 1968

May 24	e P	14 18(26)
"	e P	18 00(47)
May 26	e P	00 32(037)
"	i P	12 05 01.9 D
"	i Pn	15 14 19.0
	i Sg	15 11.0
"	i Pg	16 55 58.0
	i Sg	56 14.5
"	e Pn	21 00(29)
May 27	i Pg	02 32 45.3
	i Sg	33 00.8
May 28	i Pn	08 25 30.0
"	i P	13 41 30.6
	i pP	45 05.6
"	i P	21 32 56.0
May 29	i Pg	02 45 48.1
	i Sg	46 00.1
"	i Pn	05 23 08.2 D
May 30	i Pn	00 31 56.7
	i Sg	32 34.2
"	i P	01 15 48.3 C

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:22/68
'B'

PRELIMINARY SEISMOGRAM READINGS

May 30	ei P	05 35 54.1
"	i Pg	11 46 20.1
	i Sg	37.6
"	i Pn	17 41 49.3 D
	i Pg	42 09.3
	i Sg	43 17.3
	Epicentral distance 580 km.	
"	i P	19 57 53.6 D
May 31	i Pg	00 06 57.5
	i Sg	07 11.5

Chief
Dr.N.Öcal

May 31, 1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:23/68

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 May 31, 1968 - June 1968

May 31	e Pn	04 31(59)
June 1	i P	10 43 49.2
"	i Pg i Sg	16 39 46.8 40 02.8
"	i Pn	18 29 52.9
"	e Pn	20 00(29)
June 2	i Pg i Sg	06 29 15.6 39.6
"	ei(P) i S	08 37 32.7 39 20.0
"	e Pn	18 53(49)
June 3	ei Pn	10 42 25.4
"	i Pg ii Sg	15 01 59.6 02 16.6
"	i Pg i Sg	15 32 10.6 24.5
June 4	ei P	06 54 08.2
June 5	i Local	20 34 50.7
June 6	i P	20 49 59.1 CNW

Chief
 Dr.N.Öcal

7 June 1968
 R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:24/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 June 7, 1968 - June 14, 1968

June 7	i Pn	23 36 34.1	
June 8	i Pn	05 41 23.9	
"	e Pn	06 40(13)	
"	e Pn	16 29(23)	
"	i Pg	22 04 24.5	
	i Sg	45.0	
"	e P	23 36(47)	
June 9	i Pg	18 42 12.0	
	i Sg	25.0	
"	i Pg	20 06 04.9	CSW
	i Sg	13.9	
"	i Pg	20 36 05.9	
	i Sg	21.9	
June 10	e Pn	07 25(51)	
"	e (P)	12 53(08)	
"	i Pg	21 24 03.9	
	i Sg	10.4	
June 11	ei P	10 36 29,3	
"	e Pn	11 49(43)	
"	ei Pn	13 29 28.7	
June 12	ei Pn	09 06(31)	
"	<u>i P</u>	13 53 55.8	C
	ei S	14 04 06	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:24/68
'B'

PRELIMINARY SEISMOGRAM READINGS

June 12	ei P	22 09 48.0 C
"	<u>i</u> P	23 38 37.9 C
June 13	e P	00 17(08)
"	e P	02 17(50)
"	e Pn	12 08(20)
"	i Pg	17 55 58.3
"	i Sg	56 25.3
"	e P	21 22(43)
"	ei Pn	23 08 46.4
June 14	i Pg	01 55 02.9 C
"	i Sg	20.4
"	i Pg	02 34 04.9 CNW
"	i Sg	19.9

Chief
Dr.N.Öcal

June 14, 1968
Ref'an Can

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:25/68

PRELIMINARY SEISMOGRAM READINGS
at
(ISK) Kandilli - İstanbul
June 14, 1968 - June 21, 1968
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June 14	i Pn	15 52 42.2
June 15	ei Pn	05 08 13.4
	i Sg	09 11.9
"	<u>i</u> P	06 10 54.3
"	i Pg	23 25 06.3
	i Sg	22.8
June 16	i Pg	02 19 15.2
	i Sg	27.7
"	i Pn	08 35 46.0 D
June 17	e Pn	11 51(07)
"	<u>i</u> P	12 05 01.1 DS
"	ei Pn	16 36 35.9
"	e Pn	17 08(21)
June 18	e Pn	12 05(22)
June 19	e Pn	03 48(57)
"	<u>i</u> P	05 12 58.8

Chief
Dr.N.Öcal

June 21, 1968
Ref'an Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:26/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 June 21, 1968 - June 28, 1968

June 21	ei Pn	22 01 51.2
"	e Pn	22 06(14)
June 22	i P	01 24 29.3
	e (pP)	28(31)
"	e P	16 01(36)
June 23	e Pg	09 14(47)
	i Sg	15 17.0
"	e	09 21(04)
	i P	06.5 cD
"	i Local	12 33 53.1 CNE
"	i Pg	15 12 25.7
	i Sg	39.7
"	i Pg	20 32 03.3
	ei Sg	20.3
"	e Pn	21 44(40)
June 24	ei Pg	03 57 23.0
	i Sg	37.3
June 25	e Pn	01 55(03)
"	i Pg	04 44 17.0
	i Sg	32.0
"	i Pg	04 46 42.0 D
	i Sg	56.5

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:26/68
'B'

PRELIMINARY SEISMOGRAM READINGS

June 26	i	P	01 59 32.5 D
"	i	Pg	02 51 50.6
	i	Sg	52 02.6
"	e		06 07 (09)
	i	Pn	18.6
	i	Sg	08 07.6
"	ei	Pg	12 23 22.8
	i	Sg	30.8
June 27	e	Pn	15 16(35)

Chief
Dr.N.Öcal

June 28,1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:27-28/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 June 28, 1968 - July 12, 1968

June 28	ei Seismic ?	09 34 15.0
June 29	ei Pg i Sg	00 41 12.9 27.9
"	e Pg i Sg	08 02(53) 03 02.2
"	ei Pg i Sg	17 08 58.6 15.1
"	e Pg i Sg	21 34(58) 35 08.6
June 30	i Pg i Sg	13 45 58.3 46 08.3
July 1	i Pn	00 12 25.1 C
"	<u>i</u> P	04 05 29.1 D
"	<u>i</u> P	11 57 16.0 CS
"	<u>i</u> P	17 01 20.3 DNE
July 2	ei P	04 03 15.7 C
"	ei Pg i Sg	06 54 53.6 55 16.6
"	ei Pn	22 39 04.8 D
July 3	ei Pg i Sg	01 27 42.3 28 03.3
"	e Pg i Sg	04 01(23) 48.3

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:29/1968

PRELIMINARY SEISMOGRAM READINGS

at

(ISK) Kandilli-Istanbul

July 12,1968-July 19-1968

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July 13	i Pg	00 51 58.3 C
	i Sg	15
"	e Pn	04 39 38.8 C
	ie Sg	40 23.8
"	i Pg	10 14 25 D
	i Sg	39.5
July 14	i Pn	12 10 05.5 D
	e Sg	(44)
"	e Pn	12 36 50
"	i Pn	18 02 09 D
	e Sg	(47)
"	i Pn	23 02 01
	e Sg	(42)
July 15	ei Pn	07 00 38.3
	i Sg	01 19.3
July 17	i Pg	16 27 37.8 C
	i Sg	28 02.3
"	i Pn	18 42 08.3
	ei Sg	56.3
"	i Pg	19 48 18.3
	ei Sg	35.3
July 18	e Pn	17 57(16)
July 19	<u>e Pn</u>	05 05(40)

Chief
 Dr.N.Öcal

July 20-1968
 R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:30/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 July 19, 1968 - July 26, 1968

July 19	i Pg	20 57 10.5 C
	ei Sg	38.5
"	e Pn	04 27(02)
	i Sg	45.0
July 20	i Pg	15 44 44.4 D
	i Sg	45 03.0
July 21	e Pg	07 45(21)
	i Sg	30.5
"	e (P)	17 15(59)
July 22	i Pn	03 04 41.0 C
"	i Pg	09 05 30.0
	ei Sg	06(29)
"	i Pg	09 22 53.0
	i Sg	23 41.0
"	i Pn	10 13 25.0 C
	i Sg	14 08.0
"	i Pn	13 57 47.0 C
July 23	<u>i</u> P	18 55 34.0 C
July 24	i Pn	10 36 43.0
"	i Pg	12 08 23.0
	i Sg	09 11.0

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:30/68
'B'

PRELIMINARY SEISMOGRAM READINGS

July 25	<u>i</u> P	07 28 56.0 cD
"	<u>i</u> P	11 02 26.5 D
"	i Pn	22 07 08.0
"	i Pg ei Sg	23 08 20.0 D 09 05.0
July 26	i Pn	06 54 39.8
July 27	ei Pn i Pg i Sg	02 47 14.7 D ✓ 35.7 48 51.7

✓ Felt in south-western part of Anatolia. X

Chief
Dr.N.Öcal

July 29, 1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:31/68

PRELIMINARY SEISMOGRAM READINGS

at

(ISK) Kandilli - İstanbul

July 26, 1968 - August 2, 1968

July 27	e Pn	19 24(50)	
July 28	e Pn	05 31(16)	
"	i Pg	16 42 28.4	DS
	i Sg	37.9	
July 29	e (P)	11 31(54)	
"	i Pg	20 27 06.4	
	i Sg	36.4	
July 30	e P	00 08(54)	
"	e Pn	01 19(27)	
"	e Pn	01 32(32)	
"	i Pg	02 36 59.0	
	i Sg	37 15.7	
"	i Pg	04 13 17.7	DSW
	i Sg	22.7	
"	e (P)	04 30(09)	
"	e (P)	20 57(17)	
July 31	i Pg	19 03 36.9	DNE
	i Sg	47.9	
"	i Pn	19 30 52.9	C
	i Pg	31 14.9	
	i Sg	32 03.9	
	i (L)	36.9	
August 1	i Pg	11 49 43.0	D
	i Sg	57.0	
"	<u>i</u> P	20 31 38.0	D

R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 32/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 August 2, 1968 - August 9, 1968

August 2	e Pn	11 41(05)	
	i Sg	17.6	
"	e P	14 24(30)	
	i	25 10	
	i S	34 16	
August 3	<u>i P</u>	05 06 43.7	DNE
"	i P	06 37 21.2	C
"	e Pn	09 29(21)	
"	i Pn	14 33 30.2	D
August 4	i Pn	00 43 05.7	D
"	i Pn	00 54 25.2	C
"	i Pn	09 17 51.2	D
"	i P	11 54 20.2	C
"	i Pn	18 20 04.2	
	i Pg	17.2	
	i Sg	21 01.2	
August 5	i Pg	02 24 51	D
	i Sg	25 04.5	
"	e Pg	02 37(27)	
	i Sg	44.5	
"	i Pg	05 38 50.0	DN
	i Sg	38 08.5	
"	i Pg	14 00 42.5	CS
	i Sg	01 04	
"	<u>i P</u>	16 28 59.0	D

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:32/68
'B'

PRELIMINARY SEISMOGRAM READINGS

August 6	ei Pg	05 31 05.6	D
	i Sg	15.1	
August 7	i Pg	00 30 05.8	D
	i Sg	19.8	
"	e Pn	02 36 10	
"	i Pg	03 14 40.8	
	i Sg	15 06.8	
"	e Pn	08 23(13)	
August 8	<u>i P</u>	05 07 22.8	C
"	e Pn	06 30(43)	

Chief
Dr.N.Ocal

August 9,1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:33/68
 'A'

PRELIMINARY SEISMOGRAM READINGS

at

(ISK) Kandilli - İstanbul

August 8, 1968 - August 16, 1968

August 8	i Pg	13 56 37.8 D
	i Sg	55.7
August 9	e P	03 27(34)
"	i Pg	09 40 34.8
	i Sg	38.5
August 10	<u>i</u> P	02 20 22.2 DE
	i S	31 02.2
"	i Pg	02 45 38.2
	i Sg	52.2
"	i Pg	04 01 30.0
	e Sg	02(08)
"	<u>i</u> P	04 19 08.7
"	<u>i</u> P	06 05 04.2 C
"	<u>i</u> P	07 23 33.0 (D)
"	ei Pg	16 59(47)
	i Sg	17 00 07.2
"	i Pg	17 47 44.0 D
	i Sg	48 05.0
August 11	<u>i</u> P	20 14 01.0
	i S	24.33.0
August 13	i Pg	13 38 19.4 (D)
	i Sg	34.0
"	e P	15 13(41)
	e Pn	15 24(44)
	e Sn	25(46)
August 14	i Pg	01 53 28.6 DNE
	i Sg	38.0

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:33/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

August 14	i Pg	02 06 39.0 (C)
	e Sg	07(29)
"	ei Pn	10 50(56)
	i Pg	51 05.0
	e Sg	(47)
"	e Pn	10 55(49)
	i Pg	57.6
	i Sg	56 38.0
"	i Pg	10 57 30.0
	i Sg	51.3
"	i Pg	11 01 26.6 (D)
	i Sg	55.0
"	e Pn	11 05(56)
	i Pg	06 06.0
	i Sg	48.0
"	i Pg	14 43 04.6 D
	i Sg	24.6
"	ei Pn	15 48(16)
	i Pg	24.0
	i Sg	49 08.0
"	i Pg	16 02 24.0
	i Sg	41.5
"	e Pn	18 24(52)
"	i Pg	20 11 42.0 CSE
	i Sg	12 01.2
"	<u>i P</u>	22 27 20.0 (D)
	i S	30 40.0
	i L	38 03.0
August 15	<u>i P</u>	02 31 12.6 C
"	e Pn	05 00(28)
	e Sn	01(26)

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 33/68
'C'

PRELIMINARY SEISMOGRAM READINGS

August 15	i Pn	10 47 21.4 D
	i Sg	42.6
"	i Pg	10 52 24.0 (C)
August 16	i Pg	04 22 33.2
	i Sg	54.2

Chief
Dr. N. Öcal

August 16, 1968
R. Can

15 OCT 1968

KANDILLI OBSERVATORY
 Seismological Section
 ISTANBUL TURKEY

No: 34/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 August 16, 1968 - August 23, 1968

August 16	i P	10:51:29.2
	f S	11:01:30.2
August 17	i P	04:13:54.9
	f S	24:13.9
"	e Pn	04:48:(37)
	i Sg	48.0
"	ei P	04:50:(29)
"	e Pn	05:14:(22)
"	e Pn	13:59:(12)
	i Sg	44.4
"	i Pg	15:56:24.0
	i Sg	39.0
"	ei Pn	20:45:(09)
	e Pg	(16)
	i Sg	51.0
"	ei Pg	20:55:(27)
	i Sg	56: 10.2
"	e Pn	21:09:(25)
	i Sn	37.6
"	e Pn	23:05:(06)
August 18	i Pg	06:30:07.7
	i Sg	24.2
"	i Pg	18:01:07.2
	i Sg	24.2
"	e PKP	18:27:(49)
	e PP	30:17.7
"	e P	18:40:(17)
	e S	50:(36)



KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:34/68

'B'

PRELIMINARY SEISMOGRAM READINGS

August 18	$\frac{i}{e} \frac{P}{PP}$	18:56:35.3 58:(38)	
"	$\frac{i}{i} \frac{Pg}{Sg}$	19:31:18.8 35.3	(C)
August 19	$\frac{i}{i} \frac{Pg}{Sg}$	05:33:37.8 58.3	(D7)
"	$\frac{i}{i} \frac{Pg}{Sg}$	13:31:02.8 06.3	(C)
"	$e \ S$	15:39:(13)	
"	$\frac{i}{\underline{\underline{P}}}$	16:01:58.8	D
"	$e \ P$	19:31:(10)	
August 20	$e \ (P)$	11:35:(36)	
"	$\frac{e}{e} \frac{Pn}{Sn}$	16:19:(36) 20:(08)	
August 21	$e \ (PKP)$	10:17:(23)	
"	$\frac{i}{i} \frac{Pg}{Sg}$	18:27:12.5 25.5	
"	$\frac{i}{i} \frac{Pg}{Sg}$	17:06:04.0 20.5	
"	$\frac{i}{i} \frac{Pg}{Sg}$	18:27:51.5 28:04.5	(D)
"	$\frac{ei}{i} \frac{Pg}{Sg}$	18:33:(24) 34:02.0	
"	$\frac{i}{i} \frac{Pg}{Sg}$	21:56:28.0 57:07.0	
"	$\frac{i}{i} \frac{Pg}{Sg}$	21:57:24.5 50:02.5	
August 22	$\frac{e}{e} \ P$	14:12:(19) 22:(19)	

KANDILLI OBSERVATORY
Seismological Section
ISTANBUL TURKEY

No:34/68
'C'

PRELIMINARY SEISMOGRAM READINGS

August 22	i Pn	14:29:58.7	
	i Pg	30:09.0	
	i Sg	43.2	
August 23	i Pg	01:36:09.3	(D)
	i Sg	19.0	

Chief
Dr.N.Öcal

August 23,1968
R.Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:35/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul

August 23, 1968 - August 30, 1968

August 23	i Pg	09 38 36.3	
	i Sg	48.3	
"	e Pn	16 06(32)	
"	e Pn	22 00(53)	
"	i Pn	22 14 51.8	(DS)
	i Pg	52.3	
	i Sg	15 04.8	
"	ei P	22 59(37)	
	i S	23 03 02.3	
August 24	i Pg	04 58 07.1	(D)
	i Sg	20.3	
"	ei Pn	09 24(23)	
"	i Pg	09 45 27.2	DNE
	i Sg	36.8	
"	ei Sg	13 29(28)	
"	i Pg	14 39 36.2	C
	Local		
August 25	e Pn	09 03(09)	
"	<u>i P</u>	09 19 37.7	C
	i S	29 38.2	
	T: 1.5 sec. 0.08 mic.		
"	<u>i P</u>	11 35 28.2	
"	i Pg	13 21 26.0	C
	i Sg	47.5	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 35/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

August 25	i Pg	20 47 18.0	(C)
	i Sg	39.0	
"	e Pg	23 44(45)	
	i Sg	54.5	
August 26	i Pg	01 54 30.0	DNE
	ii Sg	40.0	
	Epicentral distance 85 km.		
"	e Pn	02 39(20)	
"	e (S)	06 09(08)	
"	e Pn	11 53(28)	
"	i	12 01 16.5	
"	i Pn	20 58 38.5	
August 27	e Pn	00 16(14)	
"	e Pn	02 58(17)	
	ei Sg	59(00)	
"	i Pn	08 48 03.4	
"	e Pn	11 07(35)	
"	i	12 40 35.7	
	Local		
"	i Pn	20 10 53.4	(D)
August 28	ei Pn	03 25(35)	
"	e Pn	06 03(36)	
	i Sg	04 19.8	
"	i Pg	11 01 29.3	C
	i Sg	58.3	

Continued

KANDILLI OBSERVATORY
Seismological Section
ISTANBUL TURKEY

No: 35/68
'C'

PRELIMINARY SEISMOGRAM READINGS

August 28	e PKP	12 10(05)
"	e Pn	19 36(57)
"	<u>ii</u> P	20 54 38.3 oD
	e S	21 04(48)
	T: 1.2 sec.	0.13 mic.
"	e Pn	21 06(19)
August 29	<u>i</u> P	01 48 41.0
"	i Pn	12 00 43.2
	i Sg	01 19.7
"	ei Pn	16 25(33)
"	i Sg	20 01 31.7

No time marks from 21^h till to 07^h of
30 August.

Chief
Dr. N. Öcal

August 30, 1968
R. Can

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:36/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 August 30, 1968 - September 6, 1968

August 30	e P	21 17(16)	
"	e P	22 09(16)	
	i S	14 26.7	
	i L	19 07.7	
August 31	i Pn	02 55 56.6	D
	i Sg	56 25.6	
"	ei Pn	08 36(13)	
"	<u>i</u> P	10 52 59.1	(o)
	i S	57 38.1	
	Epicentral distance 3000 km.		
"	ei P	11 39(53)	
	T: 1 sec. 0.15 mic.		
"	<u>i</u> P	13 28 23.8	C
"	i Pg	13 56 36.4	
	i Sg	46.6	
	M _L : 3,4 Epicentral distance 86 km.		
"	<u>i</u> P	14 11 40.6	oD
"	e Pn	23 20(57)	
"	e Pn	23 52(03)	
September 1	e (P)	01 25(06)	
"	e (S)	02 42(22)	
"	e P	05 03(26)	
	ei S	08(10)	
"	e P	05 42(55)	
	i S	47 07.6	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 36/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

September 1	i P	07 32 46.6	D
	e S	37(15)	
	T: 0.9 sec	0.21 mic.	
"	e Pg	18 11(53)	
"	e (S)	19 30(28)	
"	e P	20 48(12)	
"	e Pn	23 33(32)	
September 2	e (Pn)	23 05(05)	
September 3	i Pg	03 37 27.1	D
	i Sg	40.1	
"	i Pg	08 20 36.6	NE
	i Sg	21 08.6	
	Epicentral distance 270 km. 29 killed, 200 injured at the villages of Bartın and Amasra in the western part of northern Anatolia. Max. intensity: VIII M.M. Felt at strongly Bolu, İzmit, Adapazarı, Kastamonu and Ankara (Press).		
"	i Pg	09 13 51.4	
	i Sg	14 23.4	
"	i Pg	09 35 21.6	
	i Sg	53.6	
"	i Pg	09 52 32.6	
	i Sg	53 04.6	
"	i Pg	10 56 58.6	
	i Sg	57 30.6	
"	i Pg	11 05 31.1	
	i Sg	06 03.1	
"	i Pg	12 22 42.8	
	i Sg	23 14.8	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 36/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

September 3	i Pg	12 30 43.6
	i Sg	31 15.6
"	i Pg	14 59 43.6
	i Sg	15 00 15.6
"	i Pg	16 40 07.1
	i Sg	39.1
"	i Pg	19 05 25.2
	i Sg	57.2
"	i Pg	21 08 56.1
	i Sg	09 28.1
"	i Pg	21 19 34.6
	i Sg	20 06.6
"	i Pg	22 15 35.6
	i Sg	16 07.6
September 4	i Pg	00 21 24.6
	i Sg	56.6
"	i Pg	05 55 24.1
	i Sg	56.1
"	i Pg	06 26 40.6
	i Sg	27 12.6
Approximately 64 aftershocks following the main shock till to 08 ^h of September 4.		
"	i Pg	08 09 36.4
	i Sg	10 08.4
"	i Pg	08 14 27.1
	i Sg	59.1
"	i Pg	08 20 20.6
	i Sg	52.6
"	i Pg	12 41 44.6
	i Sg	42 16.6

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 36/68
'D'

PRELIMINARY SEISMOGRAM READINGS

September 4	i Pg	14 16 38.6	
	i Sg	17 10.6	
"	<u>i P</u>	23 30 04.6	
	i S	34 23.6	
	Approximately 23 aftershocks from September 4, 08 ^h to September 5, 08 ^h .		
September 5	i Pg	08 55 21.7	
	i Sg	54.7	
"	i Pg	18 17 23.1	
	i Sg	55.1	
"	<u>i P</u>	18 43 47.6	D
"	i Pg	19 14 03.1	
	i Sg	35.1	
September 6	ei P	02 33(00)	
"	ei Pg	03 00(08)	
	i Sg	23.7	
	Approximately 10 aftershocks from September 5, 08 ^h to September 6, 08 ^h .		

Chief
Dr. N. Öcal

September 6, 1968
R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 37/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 September 6, 1968 - September 13, 1968

September 6	i Pn	09 38 55.7	
"	ei Pg	12 15(50)	
	i Sg	16 22.2	
"	e Pg	13 46(06)	
	i Sg	37.5	
"	e Pn	14 03(04)	
"	i Pg	14 22 11.2	
"	ei Pg	16 48(45)	
	i Sg	49 15.7	
"	i Pn	17 22 28.2	
	i Sg	23 12.7	
"	e P	19 35(04)	
	e (S)	43(44)	
"	e Pn	19 47(27)	
"	e Pn	22 06(20)	
	i Sg	55.2	
"	ei Pn	23 13(30)	
	i Sg	14 02.7	
"	ei Pn	23 20 48.2	
	i Sg	21 20.2	
September 7	ei Pg	01 22(59)	
	i Sg	23 30.6	
"	i Sg	15 53 14.4	
"	i Pg	16 22 40.6	N
	i Sg	23 12.6	
"	e Pn	16 26(04)	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 37/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

September 7	e Pg	18 09(05)	
	i Sg	36.2	
"	i Pg	19 26 45.1	
	i Sg	27 17.1	
"	i Pg	20 29 40.1	
	i Sg	30 12.1	
September 8	e Pn	00 19(51)	
"	e (P)	00 39(42)	
"	i Pg	03 27 45.0	
	i Sg	28 17.0	
"	ei Pg	06 13(35)	
	i Sg	14 17.0	
"	i Pg Local	13 39 42.0	NE
"	e Pg ei Sg	15 11(21) (53)	
"	ei P i S	15 31(33) 41 07.5	
"	e Sg	15 54(14)	
"	<u>i P</u>	22 59 23.2	W
September 9	e P	01 00(28)	
"	i Sg	02 09 14.0	
"	i Pg i Sg	02 18 50.5 19 22.5	E
"	e Pg i Sg	02 25(09) 40.5	
"	i Pn i Pg i Sg	05 12 42.5 47.5 13 13.5	ES

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

NO:37/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

September 9	ei Pg	08 30(33)	
	ei Sg	21(07)	
"	ei Pg	10 19(06)	
	i Sg	36.5	
"	i Pg	11 49 59.0	DNE
	i Sg	50 31.0	
	M _L : 4,2 Epicentral distance 270 km.		
"	ei Pg	15 48(56)	
	i Sg	49 26.5	
September 10	i Pg	01 49 21.6	C
	i Sg	52.9	
"	e (P)	10 16(36)	
	Masked by microseisms.		
"	i Sg	11 22 42.4	
"	i Sg	15 27 58.4	
"	e Pn	16 59(21)	
	Masked by microseisms.		
September 11	e Pg	00 59(58)	
	i Sg	01 00 24.3	
"	e Pn	13 23(20)	
	i Sg	51.8	
"	i Sg	15 08 43.8	
"	e Pg	18 02(10)	
	i Sg	42.3	
"	e Pg	19 06(13)	
	i Sg	45.3	
"	<u>i P</u>	19 22 37.4	
	i S	26 53.4	
	T: 0.8 sec. 0.06 mic.		

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 37/68
'D'

PRELIMINARY SEISMOGRAM READINGS

September 12	i Pg	04 25 34.1	dCE
	i Sg	26 06.6	
"	e Pg	04 42(50)	
	i Sg	43 19.1	
"	i Pg	17 15 58.7	DNE
	i Sg	16 30.7	
"	<u>i P</u>	23 02 41.6	dC
	i (PP)	47.6	
	i (S)	05 19.1	
September 13	ei Pg	02 18(55)	
	i Sg	19 27.3	
"	i Pg	04 05 10.3	
	i Sg	42.8	
"	i Pg	06 53 51.8	
	i Sg	54 09.3	

Chief
Dr.N.Öcal

September 13, 1968
R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 38/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 September 13, 1968 - September 20, 1968

September 13	i Pg	08 29 17.3	C
	i Sg	34.8	
"	e (P)	22 08(43)	
	e (S)	15(11)	
"	e Pn	22 32(18)	
September 14	<u>i P</u>	01 37 30.9	D
	T: 1.0 sec.	0.04 mic.	
"	<u>i P</u>	01 46 31.4	C
	i S	52 56.4	
	i L	58 54.4	
"	e Pn	02 46(42)	
"	e Pn	02 58(23)	
	i Sg	55.0	
"	i	07 17 05.8	CE
	Local		
"	i Pg	11 34 37.9	
	i Sg	35 15.4	
"	e P	13 53(35)	
	i	40.4	CNE
	i S	57 46.4	
	e L	14 02(05)	
	T: 1.0 sec.	0.18 mic.	
"	<u>i P</u>	18 10 23.4	C
	T: 0.7 sec.	0.01 mic.	
"	<u>i P</u>	19 25 29.9	C
	i S	29 23.4	
	i L	34 03.4	
	T: 0.9 sec.	0.03 mic.	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 38/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

September 15	<u>i</u> P	04 57 44.4	CSE
	i S	59 32.4	
	T: 0.9 sec	0.1 mic.	
"	i Sg	06 05 10.4	
"	ei Pn	09 24(31)	
"	ei P	09 47(40)	
	T: 1.2 sec.	0.04 mic.	
"	<u>i</u> P	11 02 16.4	C
	i S	12 30.4	
"	e (P)	14 30(44)	
"	i Pg	15 44 47.5	
	ii Sg	45 19.9	
"	i	20 50 53.4	
	Seismic?		
"	e Pg	21 02(47)	
	i Sg	03 18.9	
September 16	e (S)	03 02(02)	
"	i Pn	06 24 41.0	DN
	i Pg	42.8	
	ii Sg	25 04.6	
"	ei Pg	14 14(14)	
	T: 0.8 sec.	0.02 mic.	
"	<u>i</u> P	14 24 45.3	C
	T: 0.8 sec.	0.02 mic.	
"	i Pg	21 10 44.1	(C)
	i Sg	11 17.1	
"	e Pn	22 15(08)	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 38/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

September 16	i Pn	22 30 55.6 (C)	
	i Pg	31 01.1	
	i Sg	27.6	
September 17	i Sg	02 08 10.3	
"	i Pg	04 03 41.7	cD
	i Sg	04 13.1	
"	i Pg	08 11 18.3	C
	i Sg	34.2	
"	i	14 01 36.0	C
	Local		
"	i Pg	16 17 48.1	DNW
	i Sg	18 09.3	
"	ei P	17 47(46)	
	ei (PP)	49(11)	
	T: 0.9 sec.	0.03 mic.	
"	e P	18 09(28)	
"	ei P	19 29(41)	
	T: 0.8 sec.	0.02 mic.	
"	i Pn	21 15 20.7	
September 18	e Pn	01 54(29)	
"	<u>i</u> P	04 03 43.0	cDNW
	i S	05 51.0	
	T: 0.7 sec.	0.02 mic.	
"	<u>i</u> P	06 19 11.0	D
	i S	21 39.0	
	T: 1.1 sec.	0.04 mic.	
"	i Pg	11 07 33.7	
	i Sg	48.0	
	Epicentral distance	120 km.	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:38/68
 'D'

PRELIMINARY SEISMOGRAM READINGS

September 18	i Pg	23 50 31.5	
	i Sg	49.6	
September 19	e Pg	00 41(57)	
	i Sg	42 30.7	
"	<u>i P</u>	11 23 17.1	
"	i Pn	17 13 12.7	
	i Sg	14 09.7	
"	<u>i P</u>	20 23 55.7	
	T: 0.7 sec. 0.01 mic.		
"	<u>i P</u>	22 17 45.7	oD
	i S	21 55.7	
"	i Pg	23 31 14.3	C
	i Sg	22.7	
"	e Pn	23 41(06)	
September 20	e Pn	04 30(03)	
	i Sg	34.3	
"	<u>i P</u>	06 12 25.7	CSE
	i S	22 23.7	
	T: 1.0 sec. 0.3 mic.		
"	i Pg	07 04 49.6	
	i Sg	05 21.2	

Chief
 Dr.N.Öcal

September 20, 1968
 R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 39/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 September 20, 1968 - September 27, 1968

September 20	i	08 43 13.0	eD
	Local		
	Strong microseisms from 08 ^h of September 20 till to 01 ^h of September 22.		
"	ei Pg	09 53(26)	
	i Sg	56.7	
"	i	11 02 39.7	
	Seismic?		
"	e Pn	11 25(14)	
	i Sg	44.2	
"	e Pn	15 55(44)	
September 21	e Pn	04 29(02)	
"	ei Pg	04 42(54)	
	i Sg	43 12.8	
"	e Pn	05 59(40)	
"	i Pn	11 07 06.0	D
"	<u>i P</u>	13 17 53.3	C
	i S	27 49.8	
	T: 1.0 sec. 0.1 mic.		
September 22	i Pg	04 45 47.9	(C)
	i Sg	19.4	
"	<u>i P</u>	09 32 47.1	D
	i S	43 03.1	
"	e (S)	18 15(29)	
"	i Pg	20 13 55.6	D
	i Sg	14 29.1	
"	e (P)	21 35(19)	
"	i Sg	22 59 40.5	
"	i Pg	23 59 40.3	CS
	ii Sg	00 00 12.6	
	Epicentral distance 275 km.		

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 39/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

September 23	i Pg	00 38 59.8	CSW
	i Sg	39 31.0	
"	e (P)	05 16(10)	
	e (S)	25 01.3	
"	i Pn	07 07 49.9	D
"	i Pg	08 45 52.3	dC
	i Sg	46 25.3	
"	i Pg	09 11 41.3	eDSE
	i Sg	49.3	
"	i Pn	15 50 44.1	(C)
	i Sg	51 18.8	
"	i Pg	17 46 46.7	C
	i Sg	57.1	
"	e (P)	21 29(55)	
	i S	32 48.8	
September 24	<u>i P</u>	00 53 20.5	C
"	i Pn	01 50 33.5	C
	i Sg	51 06.0	
"	<u>i P</u>	03 46 56.2	D
"	<u>i P</u>	04 22 02.5	D
	i	05.5	
"	e P	04 58(10)	
"	i Pg	08 17 06.8	CW
	i Sg	39.4	
	Epicentral distance 275 km.		
"	i Pg	14 24 41.5	C
	i Sg	25 35.2	
"	e (P)	16 31(08)	
"	ei P	18 32(28)	
September 25	<u>i P</u>	07 22 39.1	dC
"	<u>i P</u>	10 52 23.7	
	i (PP)	55 17.7	
	i S	11 02 57.7	

Continued

KANDILLI OBSERVATDRY
 Seismological Section
 İSTANBUL TURKEY

No:39/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

September 25	<u>i</u> P e S	20 54 19.4 56(06)	
September 26	i Pg e Sg	06 43 01.8 (35)	
"	e Pn	08 16 08.1	
"	e (Pn)	11 51(16)	
"	<u>i</u> P	14 57 02.6	D
"	<u>i</u> P e (L)	18 22 41.8 26(46)	D
September 27	i Pg i Sg	04 55 16.6 31.1	C
	Epicentral distance 123 km.		

Chief
 Dr.N.Öcal

September 27, 1968
 R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:40/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 September 27, 1968 - October 4, 1968

September 27	<u>i</u> P	17 01 09.1	
	i S	12 01.1	
"	<u>i</u> P	19 26 01.2	
	i (S)	31 28.1	
	i (L)	39 32.1	
September 28	i Pg	00 54 00.2	CN
	i Sg	26.6	
	Epicentral distance 225 km.		
"	i Pg	03 26 31.2	dC
	i Sg	57.2	
"	ei (Pn)	09 58(20)	
	i Pg	25.2	CNE
	i Sg	35.7	
"	e P	14 11(30)	
	i S	18 32.2	
"	i Pg	21 18 38.6	
	i Sg	59.7	
September 29	i (Pn)	03 49 54.3	CNE
"	i (Pn)	10 44 25.9	D
	i Pg	29.1	DNW
	ii Sg	50.1	
	Epicentral distance 175 km.		
"	ei Pg	20 35(05)	
	i Sg	31.3	
September 30	<u>i</u> P	03 03 49.9	C
	i S	05 14.4	
"	e Pn	08 21(19)	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:40/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

September 30	i Pn	08 48 34.4	C
	i Pg	38.4	
	i Sg	49 07.4	
	Epicentral distance 155 km.		
"	i Pg	13 16 01.5	
	i Sg	24.4	
"	<u>i P</u>	11 57 39.4	
"	e Pn	17 09(40)	
October 1	e	01 11(46)	
	Seismic?		
"	i Pg	04 54 45.9	D
	i Sg	55.7	
	Strong microseisms from 06 ^h of October 1 till to 08 ^h of October 3.		
"	i Pg	07 47 50.2	CDW
	ii Sg	48 21.7	
	Epicentral distance 267 km.		
"	i Pg	18 08 44.2	W
	ii Sg	55.2	
"	e (P)	18 23(22)	
"	i Pg	18 30 33.7	DSW
	i Sg	44.2	
"	e (L)	22 50(52)	
October 2	e Pn	02 16(27)	
"	i Sg	13 15 12.5	
"	e Pn	16 23(37)	
	i Sg	24 06.5	
"	i Pg	16 49 51.0	
	i Sg	50 11.5	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:40/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

October 2	i Pg	22 42 12.7	DE
	i Sg	23.0	
October 3	e Pn	03 13(38)	
"	i Pg	04 49 37.7	DNE
	i Sg	48.2	
"	<u>i P</u>	10 26 46.7	
"	e Pg	11 09(48)	
	i Sg	10 17.0	
"	i Pn	11 12 46.1	DN
	i Sg	13 07.3	
"	<u>i P</u>	18 06 21.8	
"	<u>i P</u>	18 22 32.7	
"	<u>i P</u>	19 38 49.7	
"	i Pn	22 28 35.7	
	i Sg	29 17.7	
October 4	<u>i P</u>	01 22 50.3	
	i S	26 53.3	
"	<u>i P</u>	06 23 13.4	
	i S	29 15.3	

Chief
 Dr.N.Öcal

October 4, 1968
 R.Can - E.Alsan

3 DEC 1968

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:41/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 October 4, 1968 - October 11, 1968

October 4	i	08 57 44.7	CS
	Local		
"	i Sg	09 55 30.8	
"	i Pn	11 28 58.3	
	i Pg	29 02.5	C
	i Sg	29.3	
"	e Pn	12 12(24)	
"	e Pn	14 39(05)	
"	<u>i</u> P	17 53 26.8	
	e (S)	56(34)	
October 5	ei Pn	02 07(24)	
"	i Pg	02 42 14.0	C
"	i Pg	03 05 51.2	CS
	i Sg	06 04.1	
"	i Pg	09 42 55.9	CSW
	ii Sg	43 09.5	
"	e Pn	14 58(14)	
"	e P	15 16(26)	
	e (S)	19(44)	
"	i Pg	20 16 05.0	C
	e Sg	(26)	
"	e Pg	20 19(10)	
	i Sg	41.8	
"	e (Pn)	22 13(02)	
	i Pg	03.5	DN
	i Sg	25.0	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:41/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

October 5	i (Pn)	22 17 53.5	dC
	i Pg	18 14.0	
	i Sg	41.0	
"	i Pn	22 55 15.7	D
	i Pg	17.6	
	i Sg	38.5	
"	e Sg	23 46(29)	
October 6	ei Pn	00 42(26)	
"	e (P)	00 44(29)	
"	i Sg	01 06 11.7	
"	e Pn	01 21(27)	
"	e (Pn)	03 44(33)	
	i Pg	34.7	dC
	i Sg	57.2	
"	ei Pg	03 56(53)	
	i Sg	57 13.2	
"	e Pn	04 06(48)	
"	e P	05 35(01)	
"	ei P	09 06(46)	
"	i Pg	09 32 11.6	CS
	i Sg	29.7	
	M _L : 3,6 Epicentral distance 155 km.		
	Strong microseisms from 10 ^h of October 6 till to 20 ^h of October 7		
"	e (Pn)	12 37(47)	
	i Pg	52.7	cDN
	i Sg	38 23.7	
	Epicentral distance 260 km.		

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No:41/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

October 6	ei Pn	15 07(52)	
	i Pg	08 06.7	CSE
	i Sg	57.2	
	M _L : 2,5	Epicentral distance 425 km.	
"	i Pn	15 47 02.5	
	i Sg	33.5	
"	i Pg	22 08 02.7	CSW
	i Sg	52.7	
	M _L : 4,7	Epicentral distance 425 km.	
October 7	e Pn	17 08(33)	
"	<u>i P</u>	19 32 14.8	
	i (S)	35 48.8	
	Epicentral distance 2150 km.		
"	<u>i P</u>	21 00 57.3	C
	T: 0.9 sec.	0.05 mic.	
"	i Pg	23 39 43.5	
	i Sg	40 15.9	
October 8	i Pg	00 04 02.2	
	i Sg	20.2	
"	e Pn	02 01(27)	
	i Sg	02 00.5	
"	i Pg	07 27 35.7	CSW
	i Sg	28 06.7	
"	<u>i P</u>	07 56 51.5	D
	e S	08 00(53)	
"	i Sg	10 32 06.9	
"	ei Pn	11 53(51)	
"	ei Pn	14 15(01)	
	i Pg	06.7	D
	i Sg	49.2	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No:41/68
'D'

PRELIMINARY SEISMOGRAM READINGS

October 8	<u>i (P)</u>	15 17 00.7
"	i Pg	18 36 37.7
	i Sg	50.2
October 9	i Pg	03 11 00.1
	i Sg	21.6
"	ei P	03 58(27)
"	i Sg	07 28 33.3
"	e (S)	18 20(07)
October 10	i Pn	05 01 01.0 D
"	ei Pn	05 17(44)
	i Sg	18 45.1
"	e Pn	16 02(10)
	i Sg	35.4
"	e (P)	15 34(27)
	e (S)	41(39)
"	e Pn	16 32(59)
	i Sg	33 29.1
October 11	ei Pn	03 04(11)
	i Sg	05 19.0

Chief
Dr.N.Öcal

October 11, 1968
R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 42/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 October 11, 1968 - October 18, 1968

October 11	<u>i</u> P	08 04 09.8	
"	i Sg	09 15 45.8	
"	i Pg	09 21 46.0	
	i Sg	22 00.8	
"	i Pg	09 37 58.7	
	i Sg	38 13.8	
October 12	e (Pg)	04 01(36)	
"	i Pn	07 41 46.1	C
	i Pg	51.1	
	i Sg	42 30.6	
"	i	12 22 22.6	
"	ei Pg	14 41(24)	
	ei Sg	42(04)	
"	i Pg	15 24 47.1	(C)
	i Sg	25 18.9	
"	i Pg	16 25 26.6	cD
	i Sg	59.7	
"	<u>i</u> P	19 36 16.1	C
	i	21.6	
"	i (P)	19 38 41.6	C
"	e Pn	22 38(29)	
	i Sg	39 10.5	
"	ei P	23 26(32)	
"	i (P)	23 31 34.1	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 42/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

October 13	e (L)	05 01(07)	
"	ei Pn	05 38(01)	
	i Sg	40.1	
Strong microseisms from 10 ^h of October 13 till to 04 ^h of October 14			
"	i Pg	13 23 32.6	N
	i Sg	38.1	
"	i Pn	20 49 46.1	D
	i Pg	56.6	
	i Sg	50 19.6	
October 14	<u>i P</u>	00 12 09.0	
"	<u>ei P</u>	01 45(34)	
	T: 0.7 sec.	0.01 mic.	
"	<u>i P</u>	03 17 23.0	D
	i S	23 58.0	
	T: 1.0 sec.	0.026 mic.	
"	i Pg	04 20 47.5	
	i Sg	21 30.5	
"	<u>i P</u>	05 33 42.3	D
"	<u>i P</u>	08 30 12.0	
"	e (S)	10 01(46)	
"	i Pn	11 05 28.0	cD
	i Sg	06 13.0	
"	e (P)	23 01(47)	
October 15	<u>i P</u>	02 22 15.0	C
	T: 0.9 sec.	0.1 mic.	
"	i Pg	02 26 20.5	CS
	ii Sg	34.4	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 42/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

October 15	<u>i</u> P	02 31 48.0	
"	i Sg	05 41 39.4	
"	i Sg	08 18 48.0	
"	i (Pn)	15 09 31.5	
"	ei Pn	22 10(43)	
	i Pg	47.3	
	i Sg	11 27.5	
"	i Pn	23 22 33.5	D
	i Sg	23 26.0	
"	ei Pn	23 51(16)	
	i Sg	45.0	
"	ei Pn	23 54(18)	
October 16	<u>i</u> P	02 18 20.9	
"	e Pn	11 12(12)	
	i Sg	53.9	
"	e (Pn)	12 49(17)	
"	e (Pn)	13 55(42)	
	e Sg	(56)	
"	i Pg	14 48 50.9	
	e Sg	49(53)	
"	e (P)	15 37(53)	
"	e (P)	21 11(11)	
October 17	e (L)	06 07(05)	
"	i Sg	08 54 58.8	
"	i (Pg)	12 54 43.9	DS
	e Sg	55(16)	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 42/68
'D'

PRELIMINARY SEISMOGRAM READINGS

October 17	<u>i</u> P	21 21 39.3	
	i (S)	24 01.3	
"	i Pg	22 20 42.3	D
	i Sg	56.3	
"	<u>i</u> P	23 57 53.3	D
	e S	59(30)	
	T: 0.8 sec. 0.02 mic.		
October 18	e (P)	00 35(58)	
"	i Pn	00 41 57.3	
	i Pg	42 02.6	
	ii Sg	42.8	

Chief
Dr.N.Öcal

October 18, 1968
R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 43/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 October 18, 1968 - October 25, 1968

October 18	i Sg	07 22 12.8	
"	ei Pn	07 39(21)	
"	i Pg	11 31 59.9	cDSW
	i Sg	32 18.9	
"	e (L)	16 35(42)	
"	i Pn	19 42 17.1	CW
	i Pg	26.8	
	i Sn	47.8	
	i Sg	59.8	
October 19	i Pn	00 43 23.9	
	i Pg	32.2	
	i Sg	44 04.2	
"	ei P	02 40(10)	
	i S	47 29.2	
"	i Sg	05 26 41.0	
"	ei P	09 58(49)	
	i S	10 04 13.2	
"	i	14 10 46.2	
	Seismic?		
"	ei P	15 36(43)	
	i S	38 31.2	
	T: 0.8 sec. 0.04 mic.		
	Strong microseisms from 17 ^h of October 19 till to 03 ^h of October 23		
"	ei Pg	20 05(04)	
	i Sg	22.7	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 43/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

October 20	i Sg	00 15 04.7	
"	i (S)	07 29 54.7	
"	i Sg	08 31 25.2	
"	i Pg	10 24 46.2	CSW
	ii Sg	59.7	
	M _L : 3,5	Epicentral distance 115 km.	
"	i Sg	10 58 27.5	
"	e (S)	13 27(49)	
"	i Pg	19 38 53.7	(D)
	i Sg	39 02.2	
"	i Sg	21 36 12.5	
"	i (Pn)	23 16 16.6	DS
	i Sg	17 20.7	
"	<u>i P</u>	23 49 59.2	C
	T: 0.7 sec.	0.035 mic.	
October 21	i Pg	04 56 32.2	D
	ii Sg	48.2	
"	i Sg	05 47 52.7	
"	i Pg	14 15 58.2	
	i Sg	16 10.7	
"	i (S)	18 20 22.2	
October 22	i Pg	00 16 18.5	(D)
	i Sg	37.8	
"	e	05 18(09)	
	Seismic?		
"	i Pg	08 32 57.5	DW
	i Sg	33 33.0	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTARBUL TURKEY

No: 43/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

October 22	i (Pn)	21 51 33.3	D
	i Sg	52 04.0	
October 23	i Pg	01 50 48.5	
	i Sg	58.5	
"	e (L)	02 55(11)	
"	i Sg	03 47 06.0	
"	e (Pg)	12 07(02)	
	e Sg	(35)	
"	ei Pn	12 10(26)	
	ei Pn	12 22(23)	
"	<u>i</u> P	13 38 58.0	cD
"	e (P)	13 49(49)	
"	e Pn	14 50(54)	
"	ei P	21 19(19)	
	i S	23 55.0	
	i (L)	29 04.0	
"	e (P)	21 33(24)	
	Masked by previous shock		
October 24	<u>i</u> P	00 55 18.6	C
"	i Pg	02 13 21.0	
	i Sg	54.0	
"	ei Pg	08 34(33)	
	i Sg	54.0	
"	ei Pn	09 28(22)	
"	i Pg	10 03 07.6	DNW
"	i Pg	10 20 31.5	DNW

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 44/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

October 27	ei P	22 31(18)	
	i S	32 17.0	
October 28	ei Pg	06 30(53)	
	i Sg	31 05.0	
"	e Pb	11 59(29)	
	i Pg	40.5	
	i Sg	12 00 24.5	
"	i Pb	12 55 21.7	NE
	i Pg	30.5	
	i Sg	56 17.5	
"	e (Pn)	15 55(20)	
	i Pg	29.3	
	i Sg	56 12.5	
"	i Sg	16 00 03.5	
"	i Pg	16 27 41.5	
	i Sg	28 24.5	
"	<u>i P</u>	23 51 40.5	
	i S	55 08.0	
October 29	e Pn	19 33(32)	
	i Sg	34 18.0	
"	i (P)	17 24 32.0	
"	<u>i P</u>	22 27 54.2	DS
	i S	37 29.1	
	T: 0.9 sec. 0.09 mic.		
October 30	e Pg	13 54(36)	
	i Sg	55 08.3	
"	<u>i P</u>	16 53 33.8	CE
	i (S)	54 01.3	
	i L	55 57.3	
"	i Pg	19 02 22.8	D
	i Sg	36.9	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

NO: 44/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 October 25, 1968 - November 1, 1968

October 25	ei P	10 40(08)
	i	31.0 (D)
	i (S)	49 30.1
	T: 0.8 sec. 0.065 mic.	
"	e (L)	12 21(49)
"	e Pn	22 00(37)
	i Sg	01 17.1
October 26	e Pn	00 22(07)
"	ei Pg	04 39(07) (C)
	ii Sg	18.3
"	i Pn	09 47 55.0
"	i Pn	14 18 40.3
	i Sg	19 44.8
October 27	i Pn	01 47 10.0
	i Sg	42.2
"	i Pn	03 03 18.2
	i Sg	04 01.0
"	i Pg	05 34 24.3
	i Sg	53.9
"	i Pg	09 19 46.8
	i Sg	54.7
"	i Pg	10 55 55.0
	i Sg	56 40.0
"	i (S)	11 03 24.0
"	<u>i</u> P	22 07 57.1
	i S	08 55.1

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 44/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

October 31	i Pn	02 31 26.6	CNE
	i Pg	36.1	
	i Sn	58.1	
	i Sg	32 04.6	
"	i Pn	03 23 27.6	
	i Pg	46.0	CSW
	i Sg	24 37.6	
"	e Pn	05 43(39)	
	i Sg	44 13.1	
"	e P	09 19(56)	
	e (S)	26(50)	
	T: 1.2 sec. 0.1 mic.		
"	i	14 03 09.6	
	Seismic?		
"	e Pg	15 23(54)	
	i Sg	24 18.1	
"	i Pn	20 42 17.8	C
"	i Pg	22 17 25.6	
	i	30.6	
	i Sg	38.6	
November 1	i Pn	01 24 35.7	D
	i Pb	40.0	
	i Pg	44.2	
	i Sb	25 07.0	
	i Sg	15.0	
"	e P	01 52(09)	
	i	36.0	C
"	e Pb	03 26(41)	
	i Pg	48.0	C
	i Sg	27 31.5	
"	e (P)	04 23(54)	

Chief
 Dr.N.Ücal

November 1, 1968
 R.Can - E.Alsan

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 43/68
'D'

PRELIMINARY SEISMOGRAM READINGS

October 24	i Pn	11 40 14.0 (D)
"	<u>i</u> P	14 11 52.4 D
"	<u>i</u> (P)	14 22 23.6
"	i Pn	14 42 30.9 D
	i	39.1
	i Sg	43 01.1
"	<u>i</u> P	16 04 21.2 C
	i (PP)	07 30.2
	i (S)	14 50.2
"	e (P)	21 19(10)
"	<u>i</u> P	22 47 49.1 D
"	e (L)	23 17(36)
October 25	i Pn	03 06 33.8 dCN
	i Sg	07 28.6

Chief
Dr. N. Öcal

October 25, 1968
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 45/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 November 1, 1968 - November 8, 1968

November 1	i	15 39 41.5	C
	Seismic?		
"	e (S)	18 53(31)	
"	e Pn	20 16(21)	
	i Sg	17 06.5	
November 2	i	02 40 11.2	
	Seismic?		
"	ei Pn	02 52(16)	
	i Sg	58.6	
"	i Pg	10 13 20.6	
	i Sg	42.6	
"	e Pn	10 20(26)	
"	i Pn	11 58 18.1	
"	i Pg	14 20 49.4	
	i Sg	21 16.1	
"	e Pn	15 01(55)	
"	e Pn	19 53(36)	
	i Sg	54 17.6	
"	e P	22 45(40)	
"	i Pg	22 55 44.6	
	i Sg	56 02.6	
"	e (S)	22 56(09)	
"	e Pn	23 07(06)	
	i Sg	24.6	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 45/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

November 2	e (P)	23 27(52)	
	i	56.8	
"	ei Pg	23 55(14)	
	i Sg	46.6	
November 3	i (P)	02 36 13.2	D
"	i Pg	04 34 31.0	D
	i Sg	52.2	
"	<u>i</u> P	04 51 20.4	C
	i (S)	52 44.2	
	i L	53 20.2	
"	ei P	05 19(37)	
"	e (S)	08 22(16)	
"	i Pg	09 53 44.7	D
	i Sg	54 02.2	
"	i Pn	10 18 15.2	
"	i Pg	12 12 09.9	DE
	i Sg	29.2	
"	i Pg	12 40 58.1	CSE
	ii Sg	41 06.2	
"	e Pn	12 44(25)	
	i Sg	57.7	
"	i Pn	14 09 31.4	C
"	e (S)	15 39(09)	
"	i Pn	18 40 38.4	dCSE
	i Pg	43.2	
	i Sg	41 14.2	

Felt throughout Western Anatolia, and Marmara area.

Epicentral distance 265 km.

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 45/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

November 3	i Pn	18 44 43.2	
	i Pg	4 48.8	
	i Sg	45 19.4	
"	ei Pn	18 47(51)	
	i Pg	55.2	
	i Sg	48 25.2	
"	ei Pg	18 52(49)	
	i Sg	53 21.2	
November 4	ei Pn	00 20(46)	
	i Sg	21 38.9	
"	ei P	09 09(52)	
"	<u>i P</u>	09 25 50.9	D
	i (PP)	58.9	
"	<u>i P</u>	09 28 39.7	(D)
"	i Pn	17 24 45.5	
	i Sg	25 17.7	
"	e	20 07 08.7	
	<u>i P</u>	27.0	CSW
	i S	08 27.9	
November 5	e (S)	00 50(40)	
"	i Pg	01 55 05.4	
	i Sg	43.9	
"	<u>i P</u>	02 10 09.0	D
	T: 0.9 sec. 0.026 mic.		
"	i Pg	06 57 23.0	C
	Local		
"	i Pb	09 59 13.2	CS
	i Pg	15.7	
	i Sg	38.2	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 46/68
'E'

PRELIMINARY SEISMOGRAM READINGS

November 13 i P 17 50 00.3 CN
 i S 58.3
 T: 0.7 sec. 0.08 mic.

" i P 18 53 48.3
 i S 19 04 00.3

Strong microseisms from 19^h of November 13
to 08^h of November 15

" i Pg 23 54 41.3
 i Sg 55 03.3

November 14 e Pg 07 22(39)
 i Sg 54.3

" e Pg 08 34(56)
 i Sg 35 26.3

" e (L) 13 54(27)

" e Pn 16 47(43)

" i Sg 18 46 26.8

" i (L) 23 19 24.3

November 15 i P 03 09 32.3 D
 e (S) 10(31)

" e P 06 31(01)
 i S 35 01.3

Chief
Dr.N.Öcal

November 15, 1968
R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 45/68
 'D'

PRELIMINARY SEISMOGRAM READINGS

November 5	i Pg	13 46 00.7	dC
	i Sg	22.7	
"	i Pg	20 33 45.5	DN
	i Sg	34 08.2	
"	e Pn	20 59(14)	
November 6	e Pn	04 58(21)	
"	e (S)	05 14(44)	
"	i Pg	11 52 00.5	(C)
	i Sg	16.7	
"	<u>i P</u>	13 42 44.0	cD
	i S	44 30.5	
	T: 0.7 sec. 0.0055 mic.		
"	e Pg	13 58(49)	
	i Sg	59 15.0	
"	i Pg	14 50 42.7	
	ii Sg	51 13.5	
"	<u>i P</u>	17 10 35.0	D
	i (S)	14 17.5	
	i (L)	17 21.5	
"	i Pn	17 31 52.3	D
	i Pb	56.8	
	ii Sg	32 37.5	
"	e Pn	20 35(25)	
	i Sg	57.5	
"	e (L)	21 20(34)	
November 7	i Pg	01 22 32.9	
	i Sg	57.4	
"	e (L)	01 26(09)	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 45/68
'E'

PRELIMINARY SEISMOGRAM READINGS

November 7	e P	03 52(31)	
"	ei Local	06 34(51)	
"	e (P)	09 41(13)	
"	<u>i</u> P i (PP) i S T: 0.9 sec 0.2 mic.	10 08 57.4 09 58.9 13 16.0	CNW
"	i (Pg)	12 44 37.9	dC
"	i (Pg)	12 45 25.2	
"	i (Pg)	12 46 05.9	
"	i (Pg)	12 57 14.9	CNW
"	i Pb i Pg i Sg	19 51 10.4 13.4 35.4	D
"	i (S)	22 55 09.4	
November 8	e Pg i Sg	05 36(04) 20.5	

Chief
Dr.N.Öcal

November 8, 1968
R.Can - E.Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 46/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 November 8, 1968 - November 15, 1968

November 8	e Pn	13 42(52)	
	i Sg	43 23.5	
"	i Pn	15 27 39.3	CSW
	i Pg	51.0	
	i Sg	28 24.5	
"	e (S)	16 29(10)	
"	ei (P)	17 12(43)	
	ei (S)	14(39)	
"	i	18 45 58.7	
	Seismic?		
"	i Pg	22 52 41.0	DS
	i Sg	53 08.5	
November 9	i (Sg)	07 30 06.9	
"	i Pg	12 38 57.4	D
	i Sg	39 09.9	
"	i Pg	12 39 15.9	DNE
	i Sg	30.4	
	M _L : 4,3		
	Epicentral distance 125 km.		
	Felt in Marmara Area.		
"	<u>i P</u>	13 50 34.4	C
	i S	56 04.9	
"	i Pb	14 41 40.7	D
	i Pg	.45.9	
	i Sg	42 11.7	
"	ei	18 58(56)	
	Local		

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 46/68
'B'

PRELIMINARY SEISMOGRAM READINGS

November 9	i Pg	19 07 41.9	CSW
	i Sg	56.9	
"	ei P	20 43(54)	
	i S	54 24.0	
November 10	<u>i P</u>	17 14 01.3	C
	i S	23 56.3	
"	i Pn	17 27 52.3	D
	i Sg	28 36.3	
"	e Pn	17 42(05)	
	i Sg	48.3	
"	e Pn	21 26(55)	
"	<u>i P</u>	21 36 56.4	cD
	T: 0.7 sec. 0.026 mic.		
"	e Pn	22 47(15)	
	i Sg	54.4	
November 11	i	08 51 48.6	CS
	Local		
"	ei P	09 06(03)	
	T: 0.9 sec. 0.04 mic.		
"	e Pg	09 52(43)	
	i Sg	59.4	
"	e Pn	10 51(27)	
	ei Sg	(59)	
"	i Pg	12 48 00.6	D
	i Sg	21.6	
"	<u>i P</u>	14 53 19.7	C
	i S	15 03 22.7	
"	i Pg	19 51 41.7	(D)
	ii Sg	55.7	

Continued

12 FEB 1969

Istanbul-Kandilli (ISK) Seismic StationLocation: $41^{\circ}03'56''$ N - $29^{\circ}03'33''$ E

h : 132m.

Ground : Calcer

Instruments:

Mainka (NS-EW) Seismographs. M:450 kg. To:10sec.

Wiechert (NS-EW) Seismograph. M:200 kg. To:5.8sec.

Wiechert Vertical " M: 80 kg. To:2.5sec.

Vertical SP Coulomb-Grenet Seismograph.

Tp:1.5 sec. Tg:0.75sec.

NS,EW,Vertical SP Benioff Seismographs.

Tp:1.0sec. Tg:0.2sec.

NS,EW,Vertical LP Sprengnether Seismographs.

Tp:15sec. Tg:90sec.

Standard Wood-Anderson Torsion Seismometers.

To:0.8sec. h:0.8 Vo: 2800

January 24, 1969

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 46/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

November 11	i Pg	20 13 41.6	DNE
	i Sg	58.6	
"	ei P	23 35(33)	
	i	49.6	CN
18 houses completely destroyed and most of all seriously damaged at the region of Kığı (Bingöl) in Eastern Turkey. (Press)			
"	e P	23 54(16)	
	i	32.4	CN
November 12	<u>i</u> P	00 56 12.5	cD
	ei S	01 06(06)	
	T: 0.8 sec. 0.05 mic.		
"	<u>i</u> P	01 18 09.3	D
	e (S)	21(33)	
	T: 0.7 sec. 0.017 mic.		
"	e P	02 07(52)	
	ei (S)	11(29)	
"	ei P	03 38(47)	
	i	39 02.8	CN
	T: 0.6 sec. 0.02 mic.		
"	ei P	03 43(21)	
	T: 0.7 sec. 0.05 mic.		
"	<u>i</u> P	04 02 29.2	(D)
	e (PP)	03(28)	
	T: 0.5 sec. 0.02 mic.		
"	e Pn	06 01(12)	
"	ei P	06 10(05)	
	i	22.5	CN
"	i Pn	06 39 01.5	C
"	i Pn	06 53 57.5	C

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 46/68
 'D'

PRELIMINARY SEISMOGRAM READINGS

November 12	<u>i</u> P	09 09 24.5	C
	i S	19 30.5	
"	e (P)	09 27(56)	
"	i Pn	09 30 22.5	C
"	i Seismic?	09 31 34.5	
"	e Pn	11 17(10)	
"	e Pn	12 33(15)	
	i Sg	59.0	
"	e Pn	13 19(41)	
"	e Pn	18 55(08)	
	i Sg	27.5	
"	i Sg	21 09 56.0	
"	i Sg	21 20 33.5	
"	e P	22 20(28)	
"	e (S)	22 43(28)	
"	i (P)	23 10 11.5	
"	ei Pn	23 11(07)	
November 13	i Pn	11 10 44.8	D
	i Pg	47.2	DN
	i Sg	11 08.8	
"	e (Pn)	13 55(36)	
	i Sg	56 00.3	
"	<u>i</u> P	15 18 20.3	CSW
	i S	19 12.3	
T: 0.8 sec. 0.11 mic.			

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 47/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 November 15, 1968 - November 22, 1968

November 15		Strong microseisms from 08 ^h of November 15 to 20 ^h of November 16		
"	i Pg	13 29 42.5	DNE	
	i Sg	52.9		
"	e Pg	17 53(35)		
	i Sg	49.9		
"	e Pg	20 04(09)		
	i Sg	24.9		
"	e Pg	21 46(22)		
	i Sg	37.0		
November 16	e (L)	04 25(15)		
"	<u>i P</u>	08 05 43.3		
	i S	08 23.3		
"	i	08 22 56.3		
	Seismic?			
"	i (Sg)	08 46 46.0		
"	e Pn	11 29(26)		
"	ei Pn	11 40(20)		
"	i Pg	15 33 44.8	D	
	i Sg	34 07.8		
"	<u>i P</u>	22 51 56.8	C	
	i S	52 44.3		
	T: 0.8 sec.	0.046 mic.		
"	<u>i P</u>	23 26 42.3	C	
	i S	27 47.0		

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 47/68
'B'

PRELIMINARY SEISMOGRAM READINGS

November 17	<u>i</u> P i (S)	00 28 59.6 29 44.6	C
"	<u>i</u> P i S	00 39 15.0 41 06.1	
"	e Pn i Sg	01 43(16) 48.1	
"	e P i (PP) i (S)	07 50(39) 53 18.1 58 56.1	
"	e (S)	14 47(14)	
"	i Pg i Sg	17 42 00.6 33.0	
"	i Pg i Sg	17 46 07.6 39.1	DE
"	i Pg i Sg	17 51 30.9 52 02.3	D
"	i Pg i Sg	17 54 54.1 55 23.4	eDW
"	<u>i</u> P T: 0.5 sec. 0.08 mic.	20 33 17.5	DSW
November 18	i Seismic?	02 13 43.8	
"	i Sg	05 21 30.8	
"	i (S)	14 56 30.7	
"	e (S)	20 16(33)	
November 19	i Pn i Sg	07 34 37.6 35 09.6	D
"	i Pn i Sg	14 22 25.1 57.1	DW

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 47/68
'C'

PRELIMINARY SEISMOGRAM READINGS

November 20	ei Pn	00 23(50)	
	i Sg	24 43.3	
"	<u>i P</u>	01 52 26.8	DSE
	i (S)	53 22.3	
"	ei Pg	02 47(48)	
	i Sg	48 03.8	
"	i Pn	03 54 58.6	(c)
	i Sg	55 29.9	
"	ei Pn	04 30(52)	(D)
	e Sg	31(26)	
"	e (L)	09 23(20)	
"	i	11 55 00.8	
	Seismic?		
November 21	e P	02 56(12)	
	ei P	03 11(30)	
"	ei Pg	05 37(54)	
	e Sg	38(07)	
	Strong microseisms from 12 ^h of November 21 to 08 ^h of November 22		
"	i (S)	15 15 09.4	

Chief
Dr. N. Ücal

November 22, 1968
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 48/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 November 22, 1968 - November 29, 1968

November 22	Strong microseisms from 08 ^h of November 22 to 10 ^h of November 25		
"	ei P	09 11(42)	
	i S	21 52.3	
"	<u>i</u> P	11 50 48.7	D
	T: 1.2 sec.	0.13 mic.	
"	i Pn	12 19 48.7	C
	i (Sg)	20 44.7	
"	e (Pn)	16 09(24)	
"	i	23 38 36.8	
	Local		
November 23	i	11 48 05.5	C(SW)
	Local		
November 24	i Pg	04 23 34.6	DE
	ii Sg	50.1	
"	<u>i</u> P	21 32 59.2	C
	i PP	33 14.1	
	e (S)	35(30)	
	T: 1.0 sec.	0.1 mic.	
November 25	e Pn	02 26(08)	
	i Sg	27.0	
"	ei Pb	06 14(23)	
	i Pg	32.2	
	i Sg	15 13.5	
"	ei Pn	06 27(31)	
	ei Sg	28(16)	
"	ei Pn	10 20(38)	
	i Sg	21 24.0	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 48/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

November 25	e Pn	10 38(09)	
	i Sg	54.0	
"	i (S)	15 40 27.9	
"	i Pg	17 43 19.4	DNW
	i Sg	35.4	
"	<u>i</u> P	18 50 02.7	(D)
	i S	19 00 28.9	
"	e Pn	21 45(08)	
	i Sg	52.7	
	Strong microseisms from 22 ^h of November 25 to 08 ^h of November 29		
"	e Pn	23 10(19)	
November 26	e Pn	04 31(27)	
"	i Pg	09 55 00.2	
	i Sg	51.5	
"	ei Pg	10 06(25)	
	i Sg	41.5	
"	e (Pg)	10 58(31)	
	i Sg	47.9	
"	e (Pb)	16 56(54)	
	i Pg	57 04.0	
	i Sg	44.5	
November 27	No time marks from 13 ^h of November 27 to 09 ^h of November 28		
November 28	e Pn	09 56(13)	
	e Sg	(33)	
	Masked by microseisms.		
"	e (Sg)	09 59(18)	
"	e Pn	10 00(44)	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 48/68
'C'

PRELIMINARY SEISMOGRAM READINGS

November 28	e Pn	10 03(01)
	e Sg	(26)
"	e Pn	10 12(24)
	i Sg	13 17.5
"	e (P)	10 33(54)
	e (S)	37(52)

Masked by microseisms.

Chief
Dr. N. Ücal

November 29, 1968
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 49/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 November 29, 1968 - December 6, 1968

November 29	Strong microseisms from 08 ^h of November 29 to 02 ^h of November 30		
"	e (Pn)	14 07(13)	
"	i Pn	15 03 36.3	
	i Sg	04 45.3	
"	ei Pn	20 52(35)	
November 30	e Pn	01 50(57)	
	i Sg	51 41.1	
"	i Pg	02 09 55.3	DNE
	i Sg	10 10.8	
	M _L : 3,4	Epicentral distance 130 km.	
"	ei P	04 33(06)	
"	<u>i P</u>	04 44 47.6	C
	e (S)	49(18)	
"	i Pn	06 21 48.8	cD
	i Sg	22 42.3	
"	ei P	06 27(07)	
"	i	13 23 51.6	CSW
	Local		
December 1	i Sg	00 29 56.2	
"	i (Pn)	02 34 01.8	cD
	i Pg	05.2	
	i Sg	20.4	
"	e P	05 47(01)	
"	e (Pb)	11 51(49)	
	i Pg	58.0	
	i Sg	52 41.7	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 49/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

December 1	e Pn	13 09(08)	
"	i (S)	13 39 47.0	
"	i Pn	20 45 25.2	
	i Pg	27.0	
	i Sg	39.2	
December 2	Strong microseisms from 01 ^h of December 2 to 08 ^h of December 6		
"	i Pn	00 23 00.2	DW
	i Sg	41.7	
"	<u>i P</u>	02 43 14.7	C
	i	30.2	
	i (S)	51 00.7	
	T: 0.9 sec. 0.17 mic.		
"	e (L)	14 30(15)	
"	i Pg	17 48 07.4	C
	i Sg	28.7	
December 3	e (P)	20 59(38)	
	i (S)	21 02 11.0	
December 4	i Pg	01 45 10.2	(C)
	i Sg	20.5	
"	e Pn	18 00(52)	
	i Sg	01 41.2	
"	i Pg	18 07 41.4	CS
	i Sg	54.2	
"	ei (P)	18 43(59)	
"	e Pn	18 44(43)	
	i Sg	45 59.2	
"	ei Pn	18 53(29)	D
	i Sg	54 50.7	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 49/68
 'C'

PRELIMINARY SEISMOGRAM READINGS

December 4	e Pn	19 38(35)	
	i Sg	39 56.2	
"	ei Pn	20 12(27)	
"	i (P)	20 31 50.9	D
	e (S)	32(55)	
	T: 0.7 sec.	0.02 mic.	
"	e (Pb)	21 16(43)	
	i Sg	17 24.7	
December 5	i Pn	07 53 22.1	C
	i Sg	54 40.6	
"	e Pn	08 58(28)	
	i Sg	59 38.6	
"	e Pn	09 10(12)	
	ei Sg	11(21)	
"	i Pn	10 57 28.1	
	e Sg	58(38)	
"	e Pn	12 05(14)	
	i Sg	06 00.4	
"	ei (Pn)	14 20(29)	
"	i Pn	17 28 50.6	D
	ei Sg	29(58)	
"	e (S)	22 40(29)	
December 6	e Pg	02 47(38)	
	i Sg	54.0	

Chief
 Dr. N. Öcal

December 6, 1968
 R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 50/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 December 6, 1968 - December 13, 1968

December 6	Strong microseisms from 08 ^h of December 6 to 23 ^h of December 7		
"	ei Pn	13 16(06)	
	ei Sg	(29)	
"	ei (Pg)	14 31(08)	
	i Sg	26.8	
December 7	ei P	05 17(01)	
	i (S)	23 16.9	
"	e (S)	16 03(41)	
"	e (P)	20 56(09)	
	i (S)	57 52.8	
"	e (P)	21 55(39)	
	ei (S)	58(19)	
"	e (S)	22 16(09)	
December 8	i Local	07 06 40.5	DNW
"	e Pn	07 09(08)	
"	e Pn	07 55(27)	
"	e P	11 01(51)	
"	ei Pn	18 59(46)	
	i Sg	19 00 17.0	
December 9	i Pg	00 26 12.5	eD
	ii Sg	26.5	
"	e (S)	01 50(24)	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 50/68
'B'

PRELIMINARY SEISMOGRAM READINGS

December 9	ei P	04 16(58)
"	e (Pb)	04 46(48)
	i Pg	58.2 D
	i Sg	47 46.9
"	e Pn	18 38(08)
	i Sg	50.9
"	e (Pb)	20 23(28)
	i Pg	42.9
	i Sg	24 50.4
Strong microseisms from 04 ^h of December 9 to 08 ^h of December 13		
December 10	e Sg	08 48(49)
"	e (S)	11 30(44)
"	i Pg	22 39 01.2 C
	ii Sg	15.7
December 11	i Seismic?	08 55 57.0
"	i Pg	14 41 44.5 DSE
	i Sg	42 00.5
December 12	i Sg	03 33 09.9
"	i Pn	16 36 15.5
"	e L	17 16(01)
"	i Pg	18 58 12.0
	i Sg	35.0
December 13	ei Sg	04 54(20)

Chief
Dr. N. Öcal

December 13, 1968
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 51/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 December 13, 1968 - December 20, 1968

December 13		Strong microseisms from 08 ^h of December 13 to 08 ^h of December 20	
"	i	11 17 11.0	CS
	Local		
"	e (P)	12 44(22)	
	e (S)	45(16)	
"	i Pg	13 55 12.8	DSE
	ii Sg	28.0	
December 14	i Pg	03 01 59.1	S
	i Sg	02 19.6	
"	e (S)	10 21(47)	
"	e Pg	10 54(16)	
	i Sg	23.5	
December 15	i (P)	02 26 46.1	
"	<u>i P</u>	08 03 26.2	C
	T: 0.7 sec.	0.024 mic.	
"	e Pn	19 02(26)	
December 16	i (P)	09 57 23.3	
"	e (L)	22 07(34)	
"	e Pn	23 18(55)	
	i Sg	19 27.0	
December 17	e Pn	00 51(26)	
	ei Sg	(54)	
"	e Pg	02 57(30)	
	i Sg	46.5	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 51/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

December 17	e (P)	03 08(52)	
"	i (Sg)	08 09 53.8	
"	i Pg i Sg	08 40 16.3 41 05.0	CN
"	<u>i P</u> i S	12 14 11.5 23 40.0	C
"	<u>i P</u> T: 0.8 sec.	15 43 51.0 0.025 mic.	C
"	e Pn e Sg	23 08(23) (58)	
December 18	i Pg ii Sg	05 03 06.2 15.8	DNE
"	i Seismic?	09 53 41.9	
"	i Pg i Sg	15 41 54.9 42 09.4	
"	i (Pb) i Pg i Sg	18 53 33.9 36.6 57.9	C
"	ei Pg e Sg	18 56(29) (51)	
"	ei Pn ii Sg	19 01(25) 02 03.9	
"	ei P T: 0.6 sec.	20 22(49) 0.02 mic.	
"	i Pg i Sg	23 50 54.8 51 14.9	D
December 19	i Pg i Sg	02 08 14.6 37.0	D

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 51/68
'C'

PRELIMINARY SEISMOGRAM READINGS

December 19	i Pn	03 27 03.8	
	i Pg	06.1	
	ii Sg	21.1	
"	<u>i P</u>	05 24 06.6	eD
	e S	28(43)	
	T: 1.2 sec.	0.12 mic.	
"	i Pg	08 03 35.1	
	i Sg	51111	
"	i P	15 27 21.9	
	i (S)	32 26.9	
"	e P	17 00(30)	
"	i Pg	18 54 04.0	DNE
	ii Sg	14.0	
"	e (S)	21 31(05)	

Chief
Dr. N. Öcal

20 December 1968
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 52/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 December 20, 1968 - December 27, 1968

December 20	e Pn	12 29(52)	
"	e Pn	14 32(55)	
December 21	e (Pn)	00 37(48)	
	i Pg	38 05.4	DSW
	i Sg	39 06.7	
"	e Pn	03 05(56)	
	i Pg	06 12.5	
	i Sg	07 13.0	
"	e (Pn)	03 55(44)	
	i Pg	56 01.0	
	ei Sg	57(05)	
"	ei P	06 45(01)	
	ei S	46(02)	
"	e Pn	19 19(44)	
	e Sg	20(24)	
"	i Pg	21 26 05.4	D
	i Sg	32.4	
December 22	ei (Pg)	03 12(37)	
	i Sg	51.5	
"	e (Pb)	08 54(55)	
	i Pg	59.5	CNW
	i Sg	55 28.6	
"	e Pn	09 04(22)	
	e Sg	(52)	
"	<u>i</u> P	09 16 09.6	D
"	i (S)	09 41 53.6	
"	ei P	15 56(10)	
	i S	16 02 57.6	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 52/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

December 22	<u>i</u> P	16 57 10.6	D
	T: 0.8 sec.	0.017 mic.	
December 23	e Pn	00 22(06)	
	Strong microseisms from 04 ^h of December 23 to 08 ^h of December 27		
"	e Pn	11 20(44)	
"	i (Pn)	22 30 39.4	
	i Sg	31 01.6	
"	i (Pb)	23 05 58.4	D
	i Pg	06 01.9	
	i Sg	23.9	
December 24	i (S)	00 10 24.5	
"	ei Pb	01 17(30)	
	ei Pg	(38)	
	i Sg	18 10.5	
"	e Pg	02 34(23)	
	i Sg	35.0	
"	e Pn	07 07(23)	
	i Sg	08 12.6	
"	ei Pb	07 14(57)	
	i Pg	59.6	CNE
	i Sg	15 24.1	
"	i Sg	10 14 08.7	
"	ei Pg	13 54(32)	
	i Sg	42.2	
December 25	<u>i</u> P	04 08 36.7	C
	i S	18 24.7	
"	e	09 59(25)	
	Seismic?		

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 52/68
'C'

PRELIMINARY SEISMOGRAM READINGS

December 25	<u>i</u> P	12 19 03.5	CNW
	e S	21(13)	
	T: 0.7 sec.	0.075 mic.	
December 26	ei Pg	05 22(57)	
	i Sg	23 13.4	
December 27	e Pb	01 43(57)	
	i Pg	44 06.2	
	ii Sg	46.7	
"	e Pb	01 51(54)	
	i Pg	52 03.7	
	i Sg	44.7	
"	e Pb	05 26(37)	
	i Sg	27 24.7	

Chief
Dr. N. Ünal

December 27, 1968
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 53/68
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 December 27, 1968 - January 3, 1969

December 27	e (L)	07 53(18)	
"	i Pn	10 51 42.2	
	i Sg	52 21.7	
"	i	11 19 20.8	
	Seismic?		
"	i Pg	14 04 08.5	
	i Sg	27.5	
December 28	e Pn	01 15(26)	
	i Sg	16 10.1	
"	e Pn	10 02(40)	
"	i (Pn)	14 02 16.6	
December 29	e (P)	02 42(25)	
	i (S)	52 09.0	
"	i (S)	07 38 19.6	
"	i Pg	16 09 02.1	
"	e P	18 00(55)	
	e S	03(45)	
"	i	20 35 18.4	CSW
	Local		
"	e Pn	22 07(02)	
December 30	e Pn	02 28(19)	
"	e Pn	02 56(35)	
"	e Pn	09 56(27)	
"	<u>i</u> P	10 34 18.4	
	i S	39 57.4	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 53/68
 'B'

PRELIMINARY SEISMOGRAM READINGS

December 30	i Pn	12 21 21.2	D
	i Sg	53.9	
"	e (Pn)	12 28(29)	
	i Sg	47.1	
"	<u>i P</u>	20 33 28.1	
	T: 0.6 sec.	0.01 mic.	
"	<u>e P</u>	21 02(15)	
"	e Pn	21 27(50)	
	i Sg	28 21.3	
"	<u>i P</u>	22 33 30.6	C
"	e (L)	22 54(22)	
December 31	i Pn	20 05 11.5	
	i Sg	42.8	
"	i Pn	21 01 31.2	C
	e Sg	02(02)	
"	i Pg	21 42 46.0	
	e Sg	43(01)	
"	i Pg	22 06 15.9	
	i Sg	38.6	
"	i (Pb)	22 16 19.6	C
	i Pg	22.1	
	i Sg	43.6	
January 1	Strong microseisms from 09 ^h of January 1 to 08 ^h of January 3		
"	i Pg	09 09 55.0	(DN)
	i Sg	10 10.5	
"	e Pn	17 35(06)	
"	e P	21 41(50)	
	e S	44(58)	

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 53/68
'C'

PRELIMINARY SEISMOGRAM READINGS

January 1	i Pg	21 42 50.0	
	i Sg	43 04.0	
January 2	e Pn	00 37(41)	
	i Sg	38 11.8	
"	e P	15 19(24)	
	e (S)	20(53)	
"	i Pg	22 14 32.5	CSW
	ii Sg	14.3	
January 3	i Pg	03 01 44.3	DS
	i Sg	57.6	
"	<u>i P</u>	03 21 40.8	D
	i S	25 49.8	

All the very best for 1969.

Chief
Dr. N. Üoal

January 3, 1969
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 1/69
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 January 3, 1969 - January 10, 1969

January 4	Strong microseisms during the week.		
"	ei	09 19(53)	
	Local		
January 5	i Pg	11 17 30.0	
	ii Sg	47.5	
"	<u>i P</u>	13 45 34.5	D
	i (S)	47 24.5	
	T: 0.9 sec.	0.08 mic.	
"	i Pb	14 32 43.5	
	i Pg	53.7	
	i Sg	33 31.6	
"	e Pn	23 17(17)	
	e Sg	18(03)	
January 6	ei Sg	11 25(02)	
"	<u>i P</u>	15 58 12.4	
	i	16 00 30.0	
	i (S)	04 08.0	
"	e Pn	19 30(59)	
	ei Sg	31(29)	
January 8	e Pg	00 01(47)	
	i Sg	02 34.0	
"	i Pb	03 05 44.3	
	i Pg	55.0	DE
	i Sg	06 45.0	
"	ei Pn	16 25(55)	
"	ei Pg	23 50(05)	
"	ei	23 51(16)	
	Local		

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 1/69
'B'

PRELIMINARY SEISMOGRAM READINGS

January 9	i Pn	06 13 12.2	C
	i Pg	20.0	
	i Sg	44.5	
"	i (Pn)	13 28 14.0	C
"	e Pn	14 39(03)	
	i Sg	39.0	
"	i Pg	19 51 34.5	D
	ii Sg	49.0	
January 10	e Pn	04 33(43)	

Chief
Dr. N. Öcal

January 10, 1969
R. Can - E. Alsan

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 2/69
'C'

PRELIMINARY SEISMOGRAM READINGS

January 15	i Pg	10 36 11.2
	i Sg	43.4
"	i	13 33 10.4
	Seismic?	
"	ei Pg	22 32(21)
	i Sg	36.4
January 16	e Pn	08 07(04)
	i Sg	42.5
"	ei Pn	11 31(02)
	i Sg	35.3
"	e Pn	18 44(08)
	e Sg	(50)
"	e Pn	19 46(28)
January 17	e L	01 11(15)

Chief
Dr. N. Öoal

January 17, 1969
R. Can - E. Alsan

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 2/69
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 January 10, 1969 - January 17, 1969

January 10	Strong microseisms from 13 ^h of January 10 to 18 ^h of January 13		
"	i (L)	11 33 34.5	
"	ei (P)	16 24(50)	
"	i Pn	16 33 57.4	DSE
	i Pg	34 08.0	
	i Sg	38.0	
	M _L : 3,8	Epicentral distance 255 km.	
"	i (L)	23 27(08)	
January 11	ei P	04 46(21)	
	e S	53(48)	
"	i Pn	05 33 34.9	DE
	i Pg	45.1	
	i Sg	34 13.1	
"	ei S	10 25(48)	
"	ei Pn	13 07(46)	
	i Pg	58.5	
	ii Sg	08 31.7	
"	i	14 17 29.9	CW
	Local		
January 12	e P	18 36(03)	
	i S	49.2	
	T: 0.6 sec.	0.03 mic.	
January 13	ei (Pb)	01 22(37)	
	i Pg	44.0	D
	ii Sg	23 25.2	
"	<u>i</u> P	05 48 04.7	D
	e S	49(34)	
	T: 0.5 sec.	0.014 mic.	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 2/69
 'B'

PRELIMINARY SEISMOGRAM READINGS

January 13	ei Pn	06 46(42)	
"	e L	07 44(14)	
"	<u>i P</u>	07 58 52.1 (D)	
	T: 0.7 sec.	0.026 mic.	
January 14	ei (Pb)	03 22(22)	
	i Pg	26.3	DN
"	ei Pg	03 22(47)	
	i Sg	23 08.3	
	M _L : 3,6	Epicentral distance 185 km.	
"	i Pg	03 30 12.3	
	i Sg	34.8	
"	i Pg	04 03 15.3	
	i Sg	37.3	
"	i Pg	06 50 22.1	
	e Sg	(44)	
"	i Pg	08 12 21.2	
	i Sg	44.4	
"	i Pn	23 13 20.9	CN(W)
	e Sg	14(39)	
	M _L : 5,8	Epicentral distance 550-575 km.	
	Felt at South-Western part of Anatolia.		
	Heavy damage at Kaş (Antalya).		
"	e Pn	23 18(24)	
January 15	e Pn	02 21(35)	
"	e Pn	04 07(38)	
	Strong microseisms from 08 ^h of January 15 to 14 ^h of January 16		
"	i Pg	08 47 39.9	C
	e Sg	48(34)	

Continued

KANDILLI OBSERVATORY
 Seismological Section
 İSTANBUL TURKEY

No: 3/69
 'A'

PRELIMINARY SEISMOGRAM READINGS
 at
 (ISK) Kandilli - İstanbul
 January 17, 1969 - January 24, 1969

January 17	e (Pn)	08 37(12)	
	Strong microseisms from 18 ^h of January 17 to 08 ^h of January 24		
January 18	e Pn	06 56(33)	
"	e Pn	17 15(17)	
"	i Sg	11 43 31.6	
"	e Pg ei Sg	20 29(21) (36)	
January 19	ei Pn ei Sg	03 27(38) 28(11)	
"	<u>ii</u> P ii S T: 1.0 sec.	07 13 28.3 22 53.3 0.1 mic.	C
"	e Pg i Sg	12 21(03) 19.1	
"	i (Pb) i Pg i Sg	12 35 26.0 29.0 53.8	C
"	i Pg i Sg	15 51 19.4 40.9	
"	e Pn i Sg	16 27(54) 28 27.3	
"	<u>i</u> P T: 1.0 sec.	19 09 57.2 0.055 mic.	
January 20	i Pg ii Sg	06 38 26.0 50.5	D

Continued

KANDILLI OBSERVATORY
Seismological Section
İSTANBUL TURKEY

No: 3/69
'B'

PRELIMINARY SEISMOGRAM READINGS

January 20	i Pn	20 50 16.8	
	i Sg	49.3	
January 21	i Pg	02 19 17.0	
	i Sg	44.0	
"	i Local	13 48 21.4	DS
"	i Local	14 02 40.4	DS
"	e Pg	22 23(29)	
	i Sg	50.9	
January 22	e (Pn)	02 44(58)	
	Masked by microseisms.		
"	i Pg	04 03 42.6	
	i Sg	04 18.6	
January 23	e Pg	06 48(48)	
	e Sg	(59)	
"	e Pg	11 16(29)	
	i Sg	50.5	
"	i Pg	16 35 28.3	
	e Sg	(38)	
"	i Sg	17 18 52.2	
January 24	<u>i</u> P	00 24 47.3	
	i S	25 30.3	
	T: 0.7 sec. 0.06 mic.		
"	<u>i</u> P	02 51 41.2	
	i	46.7	CS
	i (S)	54 05.2	
"	i Pg	05 56 53.8	CSE
	e Sg	57(03)	

Chief
Dr. N. Öcal

January 24, 1969
R. Can - E. Alsan