

ATHENS etc (Network)
Sept. 1965.

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE
SEISMOLOGICAL STATIONS NETWORK - GREECE
PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T _g sec.	T _g sec.	V:1	V	Drum speed mm/min.	
ATHENS (ATH) (Attica)	37°58'20"N 23°43'0"E h=95m Cretaceous Limestone	Benioff	Z	107.5	1	0.25		12,500	60	
		"	N-S	107.5	1	0.25		12,500	60	
		"	E-W	107.5	1	0.25		12,500	60	
		Sprengnether	Z	11.2	15	100		1,500	30	
		"	N-S	10.75	15	100		1,500	30	
		"	E-W	10.75	15	100		1,500	30	
		Wood-Anderson	N-S			0.8		50	2,800	60
		"	E-W			0.8		50	2,800	60
		Hiller	Z	1	0.82	0.25	10	5,000	60	
		"	N-S	1	0.82	0.25	10	5,000	60	
		"	E-W	1	0.82	0.25	10	5,000	60	
		Wiechert	Z	1300	1.5		1.2	115	30.5±0.	
		"	N-S	1000	5.6		6.2	116	30.5±0.	
		"	E-W	1000	5.6		6.0	120	30.5±0.	
Mainka	N-S	135	3.5		2.0	40	30 - 32			
"	E-W	135	3.5		9.0	52	30 - 32			
Kritikos	N-S	40	2.0		2.8	4	38 - 42			
PATRAS (PAT) (North Pe- loponnesus)	38°14'11"N 21°44'48"E h=40m Alluvium	Wiechert	Z	80	2.8		2.9	130	29 - 31	
ST. PARASKEVI (STP) (Lesbos Is- land)	39°14'46"N 26°16'18"E h=100m Rhyolite	Spengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	
VALSAMATA (VAL) (Cephalonia Island)	38°10'36"N 20°35'24"E h=405m Cretaceous Limestone	"	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	

SHOCKS IN THE AREA OF GREECE

ATHENS

SEPTEMBER 1965

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N°	Date	Station	Phase	h	m	s	D	Km	Remarks
1	Sept. 2	STP	ZNE	eiPg	05	29	49.9	85	<p>H=05:29:27.5.- 39°7N, 27.1E.- Ms < 4.2 .</p>
			E	iSg		30	04.4		
		ATH	Z	ePn	05	30	18.5	345	
			Z	ei			23.2		
			Z	e			25.7		
			E	e			45.5		
			E	ei			49.6		
			NE	e			53.8		
			NE	ei			58.6		
			NE	eiSy		31	05.1		
VAL	N	ePn	05	30	49.0	480			
2	4	ATH	Z	eiPg	11	55	13.8D	100	<p>H=11:54:50.5.- 37°5N, 24°6E.- Ms < 3.0 .</p>
			NE	eiSg			28.7		
		STP	Z	e?Pn	11	55	25.8	230	
			Z	ePg			30.3		
			Z	e			34.5		
		VAL	N	eSy			56.5		
			E	e(Sg)			58.3		
			Z	ePn	11	55	39.4	350	
			Z	ePb			42.4		
			N	e		56	10.4		
N	eSn			22.0					
3	4	STP	Z	ePg	21	20	14.2	110	<p>H=21:19:48.5.- 39°1/4N, 27° 1/2 E.-</p>
			NE	eiSg			30.7		
4	5	STP	Z	ePn	15	03	46.8	370	<p>H=15:02:52.- 37°1/2N, 29° 1/2 E.-</p>
			Z	ePb			50.2		
			Z	ePg			58.4		
			E	e		04	08.6		
			Z	e			38.1		
			N	e			40.1		
			E	ei			42.6		
			Z	eiSg			43.5		
			N	ei			44.1		
			5	5	ATH	Z	ePn	16	
Z	e						30.1		
N	e						42.1		
E	e						46.0		
E	e						57.1		
STP	E	eSb				36	04.2		
	E	e					05.9		
	E	e(Sy)					08.3		
	Z	ePn			16	35	39.0	430	
	E	e					39.9		
E	e			42.0					
E	e			45.5					
E	ePy			48.5					
E	eSb		36	31.8					
6	5	ATH	Z	eiPg	20	26	27.9D	85	<p>H=20:26:08.- 38° 1/2 N, 24° 1/2 E.- Ms=3.2 .</p>
			Z	ei			31.3		
			Z	ei			33.4		
			Z	eiSg			40.6		
			NE	ei			41.7		
			N	ei			45.8		
			E	ei			48.5		
		STP	Z	ePn	20	26	36.2	170	

Note : Magnitudes determined from Standard Wood-Anderson records are marked by Ms.
Magnitudes determined from Macroseismic data are marked by M. M.-

No.	Date	Station	Phase	h	m	s	D	Km	Remarks
			NE ePg			37.5			
			Z e			38.5			
			E e			40.0			
			N e			40.5			
			Z e			41.7			
			E e			44.0			
			E e			56.3			
			Z eiSg			59.0			
			E ei	27		01.0			
			E ei			02.0			
			N e			02.5			
7	6	STP	ZNE eiPg	01	06	50.6	110		H=01:06:23.5 - 39° 0N, 27.5° E
			Z ei			53.2			
			Z ei			54.2			
			E eiSg	07		07.0			
			N ei			07.5			
8	6	PAT	Z ePg	23	07	13.2	135		H=23:06:48.5 - 39° 3N, 21° 9E.
			Z eSg			29.5			Ms < 3.6
			Z e			33.7			
		VAL	Z ePn	23	07	17.8	170		
			Z e			18.2			
			ZN ePg			18.8			
			Z e			20.8			
			Z e			23.2			
			N eiSn			38.8			
			N eiSg			40.3			
			N ei			42.8			
			N i!			45.6			
		ATH	Z ePn	23	07	23.2	215		
			Z ePb			24.1			
			Z i			26.2			
			Z ei(Pg)			26.6			
			NE ei			47.3			
			N iSn			48.4			
9	7	STP	ZNE eiPn	06	35	30.7	300		H=06:34:45 - 37° 8N, 29° 2E
			N eiSn		36	04.0			
			E ei			05.3			
			NE eiSb			07.9			
			E ei			09.7			
10	8	VAL	Z ePn	01	23	00.8	215		H=01:22:26.5 - Probably 36° 1/4 N, 21° E. Ms < 3.0
			Z eiPy			02.3			
			Z eiPg			04.4			
			Z ei			06.8			
			Z ei			08.7			
			N ei			23.8			
			Z eiSn			25.8			
			Z eiSy			29.5			
			Z ei			34.3			
		PAT	Z ePn	01	23	05.5	250		
			Z eSy			35.2			
			Z eSg			37.3			
		ATH	Z ePn	01	23	10.3	290		
			Z ei(Py)			15.4			
			Z eiPg			18.4			
			E e			38.6			

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			E ei(Sy)			49.2			
			N eiSg			54.5			
			E ei			55.8			
			N ei			57.0			
			N ei	24		00.3			
11	8	STP	ZNE eiPg	04	26	56.2	130		H=04:26:31.- Epicenter Northwestern Turkey. Ms < 4.6 .
			ZE ei			56.0			
			N ei!			57.4			
		ATH	N i!Sg	27		12.4			
			Z ePn	04	27	33.1	430		
			Z e			36.4			
			Z ei			44.9			
			NE ei	28		08.1			
			E ei			13.6			
			E ei			19.3			
12	8	STP	Z ePg	10	41	30.4	140		H=10:41:04.- Epicenter Northwestern Turkey.
			ZNE e			31.1			
			NE eiSg			47.9			
13	9	STP	Z ePg	03	01	00.7	135		H=03:00:35.- Epicenter Northwestern Turkey.
			ZNE ei			01.2			
			E ei			02.2			
			N iSg			17.2			
			E i			17.7			
14	10	STP	Z ePn	13	15	45.5	200		H=13:15:13.-Epicenter Northwestern Turkey.
			NE e(Py)			46.0			
			E e(Pb)			46.8			
			E e			47.8			
			Z ePg			48.4			
			NE eSn	16		09.3			
			NE eSy			11.8			
			NE e(Sg)			13.8			
15	11	PAT	Z ePg	04	49	24.5	100		H=04:49:05.5.- 39°1/4 N, 22° E. Ms = 3.7 . Felt in Phthiotis (V at Leukas IV at Makrakomi) and in Evrytania (IV+ at Phourna, Karpenisi). Area at felt shaking a- bout 5.000 Km ² . M.M=3.8*.
			Z ei			34.6			
			Z eiSg			39.4			
		VAL	ZN ePn	04	49	36.9	190		
			ZN eiPy			38.0			
			Z iPg			39.8			
			N iSn	50		00.0			
		ATH	Z eiPg	04	49	41.2C	195		
			Z i!			45.1			
			N iSn	50		01.7			
		STP	Z ePn	04	50	03.3	385		
			E e			05.8			
			N e			06.7			
			Z e			09.7			
			N e			59.2			
			N e	51		02.8			
			NE eSg			04.8			
16	13	STP	ZE ePg	21	36	14.6	135		H=21:35:49.- Epicenter Northwestern Turkey.
			N e			15.1			
			E eiSg			31.5			
17	14	PAT	Z ePn	08	15	25.6	135		H=08:15:05.5.- 37°3 N , 21°0 E. Ms = 3.8 . Felt on Zante Island
			Z eiPg			27.8			
			Z eSg			44.8			

No.	Date	Station	Phase	h	m	s	D Km	Remarks
15		ATH	Z ei			47.8	260	(IV at Zante) and in the region of Elis (III at Strephi). area of felt shaking about 25,000 Km ² . H=08:15:04. - 37.5°N, 19.5°E. Ms=3.5. M=4.2 (USCGS estimate) 33 KM.
			Z eil			50.0		
			Z il			57.0		
			Z eiPn	08	15	45.78		
			Z il(Py)			49.50		
			Z il(Sg)			51.7		
			Z l			54.7		
			Z l			57.3		
			N ei(Sn)	13		14.5		
			E iSy			21.0		
			43.5					
		STP	Z ePb	08	16	27.9	505	
			Z ePg			37.1		
18	15	ATH	Z eiPg	19	52	14.00	115	H=19:51:52. - 39°N, 24 1/4°E. Ms=3.5.
			NE iSg			27.6		
			N t			30.6		
		STP	Z ePn	19	52	22.3	185	
			N e			23.4		
			ZE ePg			25.6		
			N e			26.1		
			E ei			28.8		
			E ei			43.8		
			E eiSg			47.3		
Z e			48.0					
E ei			49.0					
E ei			50.8					
19	16	STP	Z ePg	10	31	14.0	150	H=10:31:15. - Epicenter Northwestern Turkey.
			NE e			17.0		
			E eiSg	33		01.2		
			N ei			03.7		
20	16	STP	ZNE ePg	16	22	26.5	135	H=16:22:01. - Epicenter Northwestern Turkey.
			NE eiSg			43.1		
21	16	STP	ZNE ePg	17	50	16.8	145	H=17:49:49. - Epicenter Northwestern Turkey.
			N e			29.8		
			N e			33.3		
			E eiSg			35.8		
			N ei			35.8		
22	17	VAL ATH	Z ePn	22	16	37.9		
			Z ePn	22	16	49.1		
23	18	VAL	ZN ePn	03	06	50.1	140	H=03:06:26. - Epicenter Northern Peloponnesus. Ms < 3.4. Felt in Achaia (II+ at Patras).
			Z ei			51.8		
			Z e			53.3		
			Z ei			55.2		
			N iSn	07		06.1		
		ATH	Z ePn	03	07	01.0	170	
			NE eiSn			20.1		
			E i			22.2		
24	18	STP	ZE ePg	13	04	42.4	125	H=13:04:18. - Epicenter Northwestern Turkey.
			N e			42.8		
			N eiSg			57.8		
			N ei			59.8		
			E ei	05		00.8		

ATH ↑

H=08:15:04. - 37.5°N, 19.5°E. Ms=3.5. M=4.2 (USCGS estimate) 33 KM.

H=19:51:52. - 39°N, 24 1/4°E. Ms=3.5.

H=10:31:15. - Epicenter Northwestern Turkey.

H=16:22:01. - Epicenter Northwestern Turkey.

H=17:49:49. - Epicenter Northwestern Turkey.

H=03:06:26. - Epicenter Northern Peloponnesus. Ms < 3.4. Felt in Achaia (II+ at Patras).

H=13:04:18. - Epicenter Northwestern Turkey.

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			E ei	05		00.8			
			N ei			02.8			
25	18	VAL ATH	ZN i(Pg)	21	58	56.9			Felt in Cephalonia
			N ei(Sg)	21	59	18.7			Island (III at Argostoli).
26	19	STP	ZE iPg	14	03	56.7	155		H=14:03:27.2.-38°8N, 27°9E. Ms <4.3
			N ei			57.2			
		ATH	Z ePg	14	04	37.9	365		H=14:03:34.- 38°8N, 28°0E. (BCIS).
			Z ei			46.1			H=14:03:34.6.-38°9N, 27°9E; h about 33 Km. M=4.5(USCGS).
			Z ei			52.0			
			N e(Sn)	05		06.5			
			E e(Sy)			17.0			
			N e			18.4			
			N ei			20.4			
			E eiSg			22.6			
			N ei			25.6			
27	19	STP	ZNE ePg	14	08	26.8	140		H=14:08:00. Aftershock of Sept. 19.
			E ei			43.7			
			N eiSg			44.1			H=14:08:05.- Aftershock of Sept. 19. (BCIS).-
28	19	STP	Z ePg	14	10	59.6	140		H=14:10:33. Aftershock of Sept. 19.
			NE eiSg	11		17.2			H=14:10:39.- Aftershock of Sept. 19. (BCIS).-
			Z ei			17.6			
			Z ei			19.7			
29	19	STP	Z ePg	14	15	20.2	140		H=14:14:53.- Aftershock of Sept. 19.
			NE eiSg			37.8			
30	19	STP	ZNE ePg	17	56	18.6	140		H=17:55:52. Aftershock of Sept. 19.
			N eiSg			35.7			H=17:55:58.- Aftershock of Sept. 19. (BCIS).-
			E i			36.6			
31	19	STP	ZE ePg	21	40	55.0	140		H=21:40:28.- Aftershock of Sept. 19.
			N e			55.5			H=21:40:34. Aftershock of Sept. 19. (BCIS).
			N iSg	41		11.2			
			E i			12.4			
32	20	STP	Z ePg	00	57	05.5	140		H=00:56:39.- Aftershock of Sept. 19.
			NE iSg			23.2			
33	20	ATH	Z ePn	02	46	26.4	395		H=02:45:29.- 35°4 N , 26°5 E. Ms <4.4 . Felt on Crete Island ; especially in the region of Lasithi (IV at Zakros). Area of felt shaking about 5.000 Km ² . M. M. =3.7*.
			Z ei(Pb)			30.2			
			Z ei(Py)			34.0			
			Z ei			35.5			
			N ei	47		04.4			
			E ei			05.7			
			E e			12.2			
			N ei			12.7			
			E eiSb			15.3			
			N ei			18.3			
			E eiSy			21.1			
		STP	Z e?(Pn)	02	46	27.5	405		
			E e			33.0			
			Z e			33.5			
			N e(Py)			35.3			
			E eSn	47		10.6			

Nº.	Date	Station	Phase	h	m	s	D	Km	Remarks
			N e			21.5			
			E eSy			23.0			
		VAL	Z ePy	02	47	10.5	620		
			N e			12.5			
			N e			52.2			
			N e		48	06.1			
			N eSb			12.0			
34	21	VAL	ZH e(Pn)	06	27	21.0			
		ATH	Z e(Pn)	06	27	25.2			
35	22	VAL	Z e	17	54	45.7			Epicentre in Ionian Sea.
		ATH	Z ePn	17	55	14.5			
		STP	Z ePn	17	55	34.1			
36	22	STP	ZE ePg	18	40	24.3	140		H=18:39:57.7.-38°6N, 27°7E.
			E eiSg			41.3			
37	23	PAT	Z ePg	01	59	28.6	125		H=01:59:05.5.-37°0N, 22°0E. Ms=3.6
			Z e			32.0			
			Z eSg			43.6			Felt in Messenia (V at Kopanaki, IV at Zevgolatio, Kalamae, III+ at Dorion, II+ at Arios) and Laconie (IV at Longanikos).
			Z e			45.0			Area of felt shaking about 5.000 Km ² . M. M. = 3.8*
		ATH	Z eiPg	01	59	37.7D	180		
			E iSy			59.4			
		VAL	ZN ePn	01	59	38.2	190		
			ZN eiPg			40.9			
			Z ei			43.6			
			N ei			44.4			
			Z ei			44.9			
			Z ei			47.6			
			N ei(Sn)	02	00	02.1			
			N eiSg			05.6			
		STP	E ePb	02	00	15.9	460		
			N e			19.3			
			E e			24.8			
			N eiPg			27.3			
			E ei			29.2			
38	23	VAL	ZN e(Pn)	20	37	17.7			
		ATH	Z e(Pn)	20	37	47.3			
39	24	STP	Z e	13	41	21.8	280		H=13:40:36.- 37°8N, 29°0E.
			Z ePg			26.3			
			N e			26.8			
			E e			28.3			
			E e			59.0			
			N e		42	00.8			
40	24	PAT	Z ePg	14	56	38.9	20		H=14:56:35.0.-38°4N, 21°7E. Ms < 3.4
			Z eSg			42.4			Felt in Achaia (IV at Patras)
		VAL	ZN eiPg	14	56	53.2	95		
			N iSg		57	08.5			
		ATH	Z ePg	14	57	06.1	180		
			Z e			07.1			
			Z e			09.1			

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No.	Date	Station	Phase	h	m	s	D	Km	Remarks
			E ei			25.3			
			Z eiSn			26.1			
41	25	ATH VAL	Z eiPn	10	09	19.00			
			ZN e(Sg)	10	09	37.0			
	25	ATH	Z eiPg	22	34	57.90	130		H=22:34:33.5.-39:3N, 23:9E.- Ms = 3.7 .
			NE iSg		35	13.6			
		STP	Z ePn	22	35	07.5	215		
			ZNE eiPg			11.5			
			ZN ei			12.6			
			E e			13.7			
			Z ei			14.5			
			Z ei			16.6			
			NE eiSb			34.4			
			N eiSy			36.0			
			E eiSg			38.0			
			N ei			39.5			
			E ei			44.6			
		VAL	Z e?Pn	22	35	20.7	305		
			ZN ePb			23.7			
			ZN ePg			29.7			
			N eSn			55.2			
43	26	STP	ZN ePn	01	59	08.5	170		H=01:58:36.5.-37:8N, 26:8E
			E e			08.9			
			E e			09.5			
			Z eiPg			10.0			
			NE iSb			29.9			
			E iSg			30.9			
44	26	STP	ZNE ePn	12	55	03.5	125		H=12:54:42.- 38:3/4N, 27: 1/2 E,
			ZE eiPg			05.1			
			N ei			05.4			
			E ei			06.4			
			N iSn			18.4			
			E eiSg			20.3			
			N i			21.3			
			E i			23.3			
45	27	ATH	ZNE eiPg	21	05	29.8CSW	120		H=21:05:07.0.-39:1 N, 23:9 E. Ms = 3.7 .
			Z ei			30.3			
			Z i!!			32.1			
			Z i!!			32.4			
			E iSg			44.5			
		STP	Z ePn	21	05	41.0	210		
			E e			41.5			
			ZN ePy			42.7			
			Z ei			45.0			
			E ePg			45.5			
			NE ei			46.0			
			ZN ei			47.0			
			N ei			48.0			
			Z i			49.3			
			N i			50.8			
			E i			52.0			
			N eiSn	06		05.9			
			N iSg			10.8			
			E i			12.5			

N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks
		VAL	ZN ePn	21	05	52.5	300		
			N ePb			55.4			
			N ePy			57.0			
			N e			59.4			
			Z iPg		06	00.4			
			N ei			00.9			
			N ei			23.8			
			N eiSn			25.6			
			Z ei			27.9			
			Z ei			29.2			
			Z eiSb			30.9			
			Z iSg			37.4			
			N ei			37.8			
46	28	VAL	Z e	09	09	23.1			
		ATH	Z ePn	09	10	04			
47	28	VAL	Z e	18	04	25.6			
		ATH	Z e(Pn)	18	04	38.8			
48	30	STP	ZE iPg	19	37	01.8	120		
			N ei			02.3			
			E iSg			16.4			
			N i			17.0			
		ATH	Z e	19	37	40.7	370		
			Z eiPy			43.2			
			Z e			44.8			
			Z e			52.0			
			N eSy		38	26.6			
			E e			29.8			
			E eiSg			32.7			

H=19:37:40.- 38°9N,
27°9E, Ms < 4.3 .-

LONG DISTANCE SHOCKS

ATHENS

SEPTEMBER 1965

Page 1

N°.	Date	Station	Phase	h	m	s	D	Remarks	
1	Sept. 1	STP	Z eP	04	40	23.5			
		VAL	Z eP	04	40	39.9			
2	1	STP	Z eP	06	57	38.8			
		ATH	Z eP	06	57	43.0			
		VAL	Z eP	06	57	43.3			
3	2	STP	Z eiP	04	39	12.7			
		ATH	Z eP	04	39	19.7	84°5		
			Z e			19.8			
			Z ePP		42	42.4			
			E e		48	46.8			
			E e		49	10.0			
			N eS			42.2			
			Z ePPS		51	05.2			
			VAL	Z eP	04	39	23.6		
4	4	STP	Z eP	10	32	06.7			
		VAL	Z eiP	10	32	28.3			
5	4	STP	Z eiP	14	45	11.8			
		VAL	ZN eiP	14	45	17.5	83°5		
			N eiSKS		55	39.9			
		ATH	Z eiP	14	45	18.1C	82°5		
			ZNE i			18.4CS			
			E e			27.6			
			Z iiPP		48	37.0C			
			Z ei		49	48.0			
			Z ei		55	37.4			
			E i!S			40.2			
			N e			44.8			
			N i!SKS			45.2			
			N eiPS		56	36.8			
			Z i		58	49.0			
6	8	STP	Z eP	03	38	48.5			
		ATH	Z eP	03	38	53.7	85°		
			N eS		49	15.7			
			NE eiSKKS			20.7			
		VAL	Z eP	03	38	55.6			
7	9	ATH	Z eiP	10	16	11.6D	100°5		
			Z ei		19	18.6			
			Z e		26	44.4			
			N eiSKS			51.8			
			E ei		29	18.2			
			N eiPS			24.0			
8	11	STP	Z eP	07	11	36.7			
			Z e			49.3			
		ATH	Z eiPKP	07	11	53.0D	124°		
			Z ei			53.6 ⁿ			
			Z ei!		13	51.2			
			Z e		14	43.8			
			E iSKS		18	52.2			
			E i		20	30.8			
			Z i!PS		23	30.4			
			E i			31.2			

N°.	Date	Station	Phase	h	m	s	D	Remarks
9	12	VAL	Z e	07	11	59.5	122°	
		STP	Z ePKP	08	59	02.8		
		ATH	Z eiPKP	08	59	06.4D		
			Z e			06.8		
			Z iPP	09	00	41.4		
			E eSKS		06	11.4		
			E eiSKKS		07	32.4		
			E eiPS		10	35.8		
			Z i			40.4		
			VAL	Z e	09	00		
10	12	STP	Z eiP	22	12	48.4	65°	
		ATH	Z eiP	22	12	53.6D		
			ZE i!			54.0DE		
			N ei			54.6		
			Z ei!PcP	13		33.6D		
			Z ei	14		17.6		
			Z eiPPS	21		14.0		
			NE ei			16.6		
			VAL	Z ei	22	13		
11	12	STP	Z ePKP	22	42	10.7		
		ATH	Z ePKP	22	42	11.1		
12	13	STP	Z eP	13	19	55.5	85°	
		VAL	Z eP	13	20	09.7		
		ATH	Z eP	13	20	11.1		
			Z e			12.3		
			Z ePP		23	24.1		
			E e		30	14.1		
			N eS			26.1		
			E e		34	41.5		
13	13	ATH	Z eP	16	36	28.0		
14	14	ATH	Z eP	08	40	29.0	97:5	
			E eiSKS		51	08.4		
			N eS			49.4		
			E eiPS		53	18.0		
15	17	VAL	Z eP	11	27	10.6	99°	
		ATH	Z eP	11	27	20.8		
			Z e			21.6		
			Z ei		28	07.0C		
			Z ei			07.8		
			ZE eiPP		31	26.6C		
			Z ei		32	06.6C		
			E ei			27.2		
			E i!SKS		37	41.8E		
16	17	STP	Z eP	16	33	46.0	85°	
		ATH	Z i!P	16	33	57.6C		
			Z ei			57.0		
			Z i!PP		37	20.1C		
			Z iPPP		39	25.7D		
			NE eiS		44	16.5		

Nº.	Date	Station	Phase	h	m	s	D	Remarks
		VAL	Z eP Z eiPP	16	34	06.5	85°5	
					37	43.0		
17	18	ATH	Z eiP E e N e	20	59	07.2D		
				21	09	19.8		
						20.6		
18	18	ATH	Z eP Z e	22	18	10.2		
					27	09.0		
19	19	ATH	Z eP Z ei	01	46	41.2		
					50	55.2D		
20	19	ATH	Z e(P)	02	42	30.0		
21	21	STP	Z eP Z ei	01	50	21.2		
					51	11.2		
		ATH	Z i!P E ei N ei Z iPP NE eiS E i N ei E ei N ei N i	01	50	33.3D 34.1E 34.7N 48.7 06.7	57°	
				02	00	33.3		
					01	05.7		
						38.3		
						56.7		
					02	47.3		
		VAL	Z eiP	01	50	43.9		
22	21	VAL	Z eP	03	35	53.9	53°	H=03:26:37.2 .- North Atlantic Ocean 40°7N, 50°0W ; h about 23 Km. M = 5.3 (USCGS).
		ATH	Z eP	03	36	11.6	55°	
		STP	Z eP	03	36	15.8	55°	
23	21	ATH	Z e	15	58	15		
24	22	ATH	Z eP E ei	04	47	29.2		
					49	10.6W		
25	22	ATH	Z eP	20	22	18.7		
26	22	STP	Z eP Z e	22	20	27.8		
						41.2		
		ATH	Z iP Z i!PP NE eiSKS E eiSS	22	20	38.1D	87°5	
					24	02.1D		
					30	58.1		
					37	05.1		
		VAL	Z eP	22	20	47.5		
27	24	ATH	Z e(P)	04	37	12.0		
28	25	ATH	Z ei(P)	00	18	25.1D		
29	25	ATH	Z e	11	13	45		

No.	Date	Station	Phase	h	m	a	D	Remarks
		ATH	Z eP	14	49	42.1	84°	
			Z e		52	05.2		
			Z e		54	00.1		
			NE eSKS	15	00	09.9		
			E e		05	28.3		
		VAL	Z eP	14	49	55.2		
		ATH	Z eP	20	18	23.7	42°5	H=20:10:06.6.- North Atlantic Ocean 54°1 N, 35°2W. h about 33 Km. M = 4.8 (USCGS).
			ZE e		20	27.7		
			Z e			31.7		
32	26	ATH	Z eP	10	11	15.4	42°5	H=10:03:18.4.- North Atlantic Ocean 54°3 N, 35°2W; h about 33 Km. M = 4.8 (USCGS).
			E eS		17	43.4		
			E e			45.4		
33	26	ATH	Z eP	21	48	08.9		
			ZNE ei		52	30.5C		
			NE e		58	45.5		
			N e	22	02	18.1		
			E e			27.5		
34	27	ATH	Z eP	01	21	30.1	64°	H=01:10:59.- Eastern Siberia 67°5N, 140°1E; h about 33 Km. M=4.6 (USCGS).
35	27	STP	Z eP	05	21	43.0		
		ATH	Z eP	05	21	55.2		
36	28	ATH	Z ePKP1	05	26	35.1	157°5	H=05:06:36.8.-Kermadec Islands 28°0 S, 178°1W; h about 33 Km. M = 5.2 (USCGS).
			Z e		28	13.2		
			Z e		38	17.1		
			Z e		44	25.7		
		STP	Z ePKP1	05	27	09.4		
37	29	ATH	ZN eP	21	21	14.5		
			N e			18.2		
			Z e			46.0		
			E e			49.0		
			E e		26	40.0		
38	29	ATH	Z eiP	23	27	43.0	39°	H=23:20:19.0.- North Atlantic Ridge. 45°1 N, 28°2 W. h about 33 Km. M = 5.4 (USCGS).
			Z ePP		29	11.0		
			N eS		33	41.0		
			E e			44.6		
		STP	Z eP	23	27	54.2	40°	
39	30	ATH	Z eP	08	27	41.1		

The Director
of the Seismological Institute

Prof. A. Galanopoulos

The Assistant
P. Komninakis.

ATHENS
 & Associated Stns. } Oct 65.

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE
 SEISMOLOGICAL STATIONS NETWORK - GREECE
 PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T ₀ sec.	T _g sec.	r:l	V	Drum speed mm/min.	
ATHENS (ATH) (Attica)	37°58'20"N 23°43'0E h=95m Cretaceous Limestone	Benioff	Z	107.5	1	0.25		12,500	60	
		"	N-S	107.5	1	0.25		12,500	60	
		"	E-W	107.5	1	0.25		12,500	60	
		Sprengnether	Z	11.2	15	100		1,500	30	
		"	N-S	10.75	15	100		1,500	30	
		"	E-W	10.75	15	100		1,500	30	
		Wood-Anderson	N-S			0.8		50	2,800	60
		"	E-W			0.8		50	2,800	60
		Hiller	Z	1	0.82	0.25	10	5,000	60	
		"	N-S	1	0.82	0.25	10	5,000	60	
		"	E-W	1	0.82	0.25	10	5,000	60	
		Wiechert	Z	1300	1.5		1.7	124	30.5±0.5	
		"	N-S	1000	5.4		8.0	128	30.5±0.5	
		"	E-W	1000	5.5		9.0	154	30.5±0.5	
Mainka	N-S	135	3.5		2.7	62	30 - 32			
"	E-W	135	3.5		3.6	79	30 - 32			
Kritikos	N-S	40	2.0		2.2	3	38 - 42			
PATRAS (PAT) (Northern Peloponnese)	38°14'11"N 21°44'48"E h=40m Alluvium	Wiechert	Z	80	2.8		2.9	129	29 - 31	
ST. PARASKEVI (STP) (Lesbos Island)	39°14'46"N 26°16'18"E h=100 m Rhyolite	Sprengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	
VALSAMATA (VAL) (Cephalonia Island)	38°10'36"N 20°35'24"E h=405m Cretaceous Limestone	Sprengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	
VAMOS (VAM) (Crete Island)	35°24'26"N 24°11'59"E h=225 m Marly Limestone	Sprengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	

SHOCKS IN THE AREA OF GREECE

ATHENS

OCTOBER 1965

Page 1

N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks
1	Oct. 2	STP	Z e Z ePg E ei NE eiSg	01	41	39.0 40.7 57.5 58.3	145		H=01:41:13.5.-39°1 N, 27°9 E.
2	2	STP	ZNE eiPg NE iSg	19	17 18	52.9 10.4	145		H=19:17:36.-39°N, 28° E. -H=19:17:35.- 39°0 N, 28° 1/4 E. (BCIS)
3	4	STP	Z ePn NE eiSy N eiSg N ei E ei N ei	01	50 51	56.1 26.9 29.1 37.1 38.6 39.1	230		H=01:50:19.5.-38°3 N, 28°8 E. H=01:50:12.-37° 3/4 N, 29° E. (BCIS).
4	4	STP ATH	ZNE iPg Z e?(Pn) Z e N ePb Z eiPy Z ei N eiPg E ei Z ei N ei E ei E ei!Sn E ei! NE ei N iSy E i E i N iSg	12	55 55	04.3 42.5 45.0 45.5 47.0 49.7 51.0 52.4 53.4 55.2 56 10.2 15.5 17.5 20.0 23.9 25.5 26.1 28.5 29.1	45 310		H=12:54:55.5.-39°6 N, 26°5 E. M _L = 4.1 Felt on Lesbos Island (IV at Petra, III+ at Ippios). Area of felt shaking about 5,000 Km ² . M. M. = 3.7 *
		VAM	Z e?(Pn) Z e N e N e N eiPy N ePg E ei N ei E ei E ei E ei!Sn E ei! NE ei N iSy E i E i N iSg	12	56	05.6 07.4 13.7 15.1 17.6 24.7 29.1 30.6 34.6 44.0 54.1 57.0 57 06.1 13.6 14.6 18.8 23.1 26.0 29.6	500		
5	6	ATH	Z ePg Z e	19	05	50.4 52.6	180		Felt in Magnesia (IV+ at Volos, Drakia).

Note : Magnitudes determined from Standard Wood-Anderson records are marked by M_L.
Magnitudes determined from Macroseismic data are marked by M. M.-

N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks			
6	6	ATH	E	ei	06	07.5			<p>H=22:26:25.-38°N, 20°1/2E. M_L < 4.0. Felt on Cephalonia Is- land (IV+ at Lixouri, IV at Valsamata).</p>			
			N	eSn		10.7						
			E	eiSb		11.1						
			N	ei		12.5						
			E	eiSg		12.9						
			N	ei		15.6						
			Z	ePn		23				27	06.1	290
			Z	ePb							10.1	
			Z	e							17.2	
		Z	e			18.5						
		Z	ei			21.1						
		N	ei			34.3						
		E	ei!			35.2						
		N	ei			47.6						
E	eiSg			48.6								
7	7	ATH	Z	ePn	23	27	27.4	435	<p>H=05:00:39.-37°9 N, 22°1E. M_L = 3.3. Felt in Achaia (IV+ at Kalavryta).</p>			
			E	eSn						28	13.1	
			E	e							14.9	
			E	e							42.7	
			Z	ePg						05	01	05.9
Z	ei!			06.7								
Z	ei			07.8								
Z	ei!			09.3								
N	e			22.2								
NE	i!Sg			23.2								
N	i!			23.8								
8	9	STP	Z	eiPg	22	46	53.9	145		<p>H=22:46:26.- Probably 38° 3/4 N, 27° 3/4 E.</p>		
			E	eiSg							47	12.0
		VAM	Z	ePg	05	01	38.1	330			<p>H=14:49:31.5.- 34°9 N, 22°9 E. M_L < 4.3 .</p>	
			E	eSb					02			09.5
			N	e								11.7
			E	ei								12.5
			N	ei								13.0
E	eiSg		17.8									
N	ei		21.9									
9	10	VAM	ZNE	ePn	14	49	53.1	120	<p>H=19:17:29.0.-35°N, 25° 1/2 E. M_L < 4,3 . Felt on Crete Island; especially in Lasithi (II+ at Kato-Chorio).</p>			
			ZN	ei						54.2		
			ZNE	i!Pg						54.6		
			E	i						50		08.4
			N	i!Sg								09.7
			Z	i!								11.0
		VAL	Z	ePn	14	50	27.6	400				
		ATH	Z	ePg	14	50	37.0	360				
			E	e			59.6					
			N	eiSn	51	04.6						
E	e			14.7								
10	10	VAM	ZNE	e	19	17	53.5	125				
			ZNE	eiPg					53.9			
			Z	i					18	08.9		
			N	iSg						09.2		
			Z	i!						12.0		

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks		
11	12	ATH	Z ePg	19	18	36.1	370		H=19:17.7 About 35°0 N, 26° 1/2 E. (BCIS).		
		Z e			44.3						
		Z e			50.7						
		E eiSb	19	09.4							
		E ei		10.8							
		NE ei		22.4							
		E ei		31.0							
		NE ei		41.9							
		VAM	ZN ePn	18	34	20.5				280	<p>H=18:33:37.5.-34° 1/4 N, 27° E. M_L 4.8.</p> <p>H=18:33:44.- 34° N, 26°0E. (BCIS).</p> <p>H=18:33:45.-34°4 N, 26°3E; h about 33 Km. M=4.3 (USCGS).</p>
		E e			21.0						
ZN eiPb			22.3								
N ei			23.4								
E eiPy			24.0								
ZNE ei			25.0								
Z iPg			27.6								
E i			29.2								
E i			46.0								
N i			48.1								
E i			49.8								
E i!Sn			51.9								
N i!			53.6								
E i!Sb			55.5								
N i!			55.8								
N i!			57.6								
E i!Sy			58.5								
E i!Sg	35	02.3									
E i!		03.0									
ATH	Z eiPn	18	34	50.8C	520						
N e			51.1								
ZE ei!			52.1								
Z e			53.7								
E eiPb			57.4								
Z ei			58.2								
ZE eiPy	35	02.8									
ZN eiPg		05.6									
E ei(Sn)		46.0									
N eiSg		58.1									
STP	Z ePn	18	34	54.8	550						
E e			55.7								
N e			56.3								
Z e			57.1								
NE e	35	02.7									
Z e		04.6									
ZN e		07.2									
E ei		10.5									
N ei		12.2									
Z e		12.7									
E ei		41.3									
N e		55.6									
E e		56.8									
E ei		59.7									
E e(Sb)	36	02.7									
NE e		12.1									
VAL	Z ePn	18	35	14.5	710						
E e			36 22.2								
12	13	VAM	Z ePn	17	38	09.8	200	<p>H=17:37:23.- Probably 36° 3/4 N, 25° 3/4 E.</p>			
		N e			31.3						
		E eiSg			37.5						
		N ei			38.4						
		E ei			42.0						
		N ei			42.4						

Nº.	Date	Station	Phase	h	m	s	D	Km	Remarks						
13	14	STP	E	ei		43.9	290								
			N	ei		44.4									
			E	ei		45.9									
			Z	ePn	17 38	12.2									
			ZNE	e		13.8									
			E	e(Pb)		15.0									
			Z	e		15.5									
			ZN	e		17.0									
			E	ePg		20.0									
			E	e		39.5									
			E	eSn		44.3									
			E	e		46.9									
			N	eSy		51.3									
		NE	ei		53.4										
		E	ei		54.0										
		N	ei		54.6										
		E	eiSg		55.0										
		N	ei	39	01.0										
		14	16	VAM	ZN	ePn				00 39	55.6	240		H=00:39:17.5.- Probably 36° 17'2" N, 26° 1'2" E.	
					E	ei					56.3				
N	eiPb					56.9									
NE	ei(Py)					58.6									
E	ei(Pg)				40	01.2									
E	eiSn					22.8									
N	ei					24.0									
E	ei					24.7									
E	eiSb					25.4									
E	ei					27.2									
N	eiSy					27.8									
NE	ei					28.3									
STP	ZN				ePn	00 40	01.7	290							
	ZE			ePb		03.8									
	ZN			ePy		06.3									
	E			e		07.2									
	N			e		07.9									
	Z			e		08.1									
	N			eiPg		09.4									
	Z			e		10.2									
	E	eSn		33.6											
	N	e		35.2											
	E	e		36.4											
	NE	eSb		37.9											
	NE	ei		39.9											
E	ei		43.6												
N	eiSg		44.9												
E	ei		46.7												
VAM	16	ATH	ZNE	iPg	10 45	58.1	80		H=10:45:42.5.- 34°7' N, 24.4 E.						
			Z	ePn	10 46	37.0									
			Z	e(Pg)		49.6									
			N	e	47	17.0									
			E	ei		19.5									
			N	ei(Sb)		22.1									
			E	eiSy		27.5									
			N	eiSg		33.9									
			VAL	16	ATH	Z				ePn	10 46	54.7	510		
						E				e	47	41.8			
						ZE				ei		43.7			
						Z				eiSn		46.2			
			STP	16	ATH	ZNE				ePn	10 47	57.4	530		

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
15	16	STP	ZNE	ePn	15	46	02.6	255	H=15:45:23.5.-Probably 40° N, 29° E.
			Z	e			07.4		
			Z	e			10.2		
			N	eiSn			31.3		
			E	eiSy			37.3		
			E	ei			38.9		
			N	ei			39.3		
			N	eiSg			41.3		
		NE	ei			42.8			
16	17	VAM	ZE	ePn	07	54	29.4	250	H=07:53:50.- 36°4 N, 26°5 E.
			N	e			30.1		
			NE	eiSb		55	00.5		
			E	eiSy			02.7		
			E	eiSg			05.5		
		ATH	Z	ePn	07	54	34.3	285	
			Z	ePb			36.8		
			Z	e			39.4		
			Z	eiPg			41.8		
			N	eiSn		55	05.8		
			E	ei			06.8		
			E	ei			08.8		
			N	eiSb			09.8		
		N	ei			11.3			
		NE	ei			11.6			
		STP	ZN	ePb	07	54	39.6	335	
			N	ePy			43.1		
			Z	ePg			45.6		
			E	e		55	07.6		
			N	eiSn			12.6		
N	ei				17.1				
E	eiSb				17.7				
E	eiSy				22.3				
E	ei			25.6					
17	17	ATH	Z	ePn	09	53	12.7	160	H=09:52:44.5.-39° 1/2 N, 22° 1/2 E.
			N	eiSg			35.6		
		VAL	Z	ePn	09	53	24.5	260	
			ZE	e			25.5		
		STP	Z	ei			25.9	345	
			Z	ePn	09	53	35.6		
N	e			59.9					
18	18	STP	ZNE	i!Pg	14	33	09.1	130	H=14:32:44.0.-39°0 N, 27°8 E. M _I =4.6
			ATH	Z	ePn	14	33		
		ZNE	ei			52.6DW			
		Z	ei			55.0C			
		N	e			55.8			
		Z	ei			58.0C			
		Z	eiPy			58.5D			
		N	ei		34	09.7			
		N	ei			25.0			
		N	ei!			30.1			
		E	e			31.0			
		E	ei			33.6			
		N	i			34.3			
		N	i			35.7			
		NE	iSn			36.2			
		NE	i			37.5			
		E	i			40.2			
		E	i			41.6			
		N	i			42.0			

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
		VAM	Z ePn	14	33	56.3	510		
			NE e			57.4			
			N ei		34	04.8			
			E e			06.0			
			E ei			07.0			
			E eiPy			08.8			
			N ei			09.6			
			NE ei			13.1			
			N eiPg			14.3			
			E ei			38.5			
			N ei			38.9			
			E ei			43.0			
			N ei			46.0			
			E ei			50.2			
			N ei			50.8			
			E ei			53.5			
			N ei			54.6			
			NE ei			57.2			
			E eiSb			59.0			
			N ei		35	00.2			
			N ei			11.0			
			E ei			11.5			
			E eiSg			17.3			
			N ei			18.5			
19	19	ATH	ZE e	17	08	50.00	120		<div style="border: 1px solid blue; border-radius: 50%; padding: 10px; display: inline-block;"> H=17:08:29.5.-38°8 N, 22°7 E. M_L = 3.3. Felt in Boeotia (IV+ à Davlia) </div>
			ZNE eiPg			51.00	SE		
			ZN i!			51.90	D		
			N ei		09	04.3			
			E iSg			04.9			
			E i			05.2			
		VAL	Z ePn	17	09	00.9	190		
			E ePb			01.4			
			E ePg			03.4			
			Z e			03.7			
			ZE ei			05.3			
			E ei			20.5			
			E eiSn			23.9			
			E eiSb			25.4			
			E eiSy			26.4			
			E eiSg			27.9			
			E ei			30.9			
		VAM	ZE ePn	17	09	24.4	365		
			N e			25.3			
			N ePb			28.1			
			Z ePy			31.3			
			NE e			31.8			
			N e			34.8			
			N e			38.1			
			Z ePg			44.8			
			N eSn		10	03.8			
			E e			05.8			
			NE eiSb			08.8			
			N ei			10.4			
			E e			11.3			
			N eSy			14.3			
			N eiSg			20.3			
		STP	Z ePn	17	09	27.4	390		
			N ePb			32.5			
			E ePg			40.8			
			N e		10	01.1			
			N e			05.0			
			E e			07.4			
			E eSn			09.5			

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
20	19	VAL	N e			10.4			<p>H=18:53:47.5.- About 38° N, 20° 1/2 E. M_L < 4.0. Felt on Cephalonia Island (IV at Lixouri, Valsamata).</p>
			E e			13.9			
		ATH	ZE iPg	18	53	49.7	10		
			Z ePn	18	54	30.4C	295		
			Z e(Py)			33.9D			
			E e			34.7			
			NE ei			36.0W			
			Z eiPg			38.0			
			N e			39.9			
			NE eSn		55	02.9			
			E eSb			07.0			
			E ei			08.4			
			N ei			09.4			
			E ei			11.5			
			N ei			11.9			
			N ei			12.9			
			E eiSg			14.0			
			NE ei			14.9			
			N i			16.9			
			E ei			18.4			
VAM	Z ePn	18	54	47.9	420				
	E eSn		55	31.9					
	E e			34.6					
	N e			35.2					
	E ei			36.1					
	N e			39.5					
	E eiSb			39.9					
E eiSy			45.9						
STP	Z ePn	18	55	01.3	525				
21	19	VAL	Z ePn	22	04	20.3	210	<p>H=22:03:46.3.-39°7 N, 19°1 E M < 4.6.</p>	
			E e(Pb)			20.7			
			Z eiPy			21.8			
			Z ei			24.9			
			ZE eiSn			44.8			
			E eiSb			46.2			
			Z ei			48.9			
			E eiSg			49.3			
		ATH	Z ePn	22	04	47.9	435		
			Z ePb			52.4			
			Z e			55.9			
			Z e		05	02.4			
			Z ei			03.9			
			E ei			25.2			
			E ei			28.2			
			E ei			30.9			
			NE eiSn			33.4			
			NE ei			34.4			
			E eiSb			41.9			
			E ei			44.2			
N ei			44.6						
N eiSy			47.1						
N ei			51.9						
N ei			53.1						
E eiSg			56.4						
STP	Z ePn	22	05	12.5	620				
VAM	Z ePn	22	05	15.3	650				
	E eSn		06	20.9					
	N e			24.6					
	E ei			30.3					

Nº.	Date	Station	Phase	h	m	s	D Km	Remarks
22	20	STP	ZNE iPg	03	15	39.7	85	H=03:15:23.5.-Probably 39°9 N, 25°5 E.
			Z i!Sg			50.2		
		ATH	Z ePn	03	16	04.2	265	
			Z e			14.0		
			E e			29.7		
			N eiSb			37.5		
23	21	ATH	Z ePg	18	29	14.60	60	H=18:29:03.- Probably 38° 1/4 N, 24° E.M<2.8.
			E iSg			22.1		
		STP	NE e	18	29	41.6	225	
			Z e			42.6		
			N ePg			43.1		
			N eSn		30	05.3		
			NE eiSb			07.0		
			E e (Sy)			09.8		
24	21	ATH	Z ePg	22	59	54.6D	125	Felt in Phthiotis (IV at Tithorea) and Boe- otia (IV at Davlia).
			NE iSg	23	00	10.1		
			N i			11.0		
25	23	VAL	ZE eiPg	04	13	39.7	50	H=04:13:30.5.- About 37° 3/4 N, 20° 3/4 E. M _L < 3.8. Felt on Zante Island (III at Zante).
			E iSg			45.9		
	ATH	Z eiPb	04	14	12.00	255		
		E eiPy			13.3W			
		Z i(Pg)			14.90			
		Z i			17.2D			
		NE ei(Sb)			41.1			
		NE ei			43.1			
		N ei			44.0			
		E i!			46.8			
N i!Sg			47.4					
26	23	ATH	Z ePn	19	33	18.6D	240	H=19:32:40.5 .-40°2 N, 23°3E. M _L < 3.7 . Felt in Salonica (IV+ at Gerakarou, IV at Va- silika). Area of felt shaking about 5,000 Km ² . M. M. = 3.7* .
			ZE eiPb			20.2D		
			Z e(Py)			21.7		
			Z ePg			24.2D		
			Z e			25.7		
			N ei			43.5		
			N eiSn			46.2		
			NE ei(Sb)			49.3		
			NE eiSy			50.7		
			E eiSg			53.2		
		STP	Z e(Pn)	19	33	21.2	275	
			ZE ei(Py)			26.2		
			N e			27.0		
			E ei			27.7		
			Z eiPg			28.7		
			N ei			29.7		
			N ei			31.5		
			N ei			32.2		
			E ei			50.2		
E eiSb				55.4				
NE ei		34	00.5					
E eiSg			02.4					
N ei			03.3					
E i			04.6					
E i			05.7					
E ei			06.4					

N°.	Date	Station	Phase	h	m	s	D Km	Remarks
27	24	VAL	Z ePn	19	33	29.3	325	<div style="border: 1px solid blue; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> H=05:54:46.5.- 37°8 N, 20°9 E. </div>
			Z e			30.6		
			E e			33.8		
			Z eiPy			35.1		
			Z ei		34	07.7		
			ZE eiSb			09.3		
		VAL	Z ePg	05	54	54.2	40	
			ZE i			54.9		
		ATH	E i!		55	00.2	250	
			ZNE eiPn	05	55	26.5D		
			Z eiPb			27.6		
			Z ei!Py			29.2		
			Z ei			30.2		
			Z ei!Pg			31.8D		
			Z ei!			35.5		
			N eiSn			54.7		
			N ei			56.2		
			E ei			58.2		
			N ei			58.7		
			NE i(Sy)			59.4		
E ei			56	01.2				
NE i!Sg				02.2				
VAM	ZE ePn	05	55	45.0	400			
	N e			45.9				
	E e			48.4				
	N e			50.0				
	E e			53.7				
	N e		56	21.5				
	E ei			28.7				
	N ei			29.8				
	E eSy			30.8				
	E eiSg			36.3				
	E ei			38.3				
	NE ei			40.5				
	E ei			42.3				
	E ei			45.5				
E ei			50.0					
28	24	VAL	ZE ei!Pg	16	41	18.7	55	<div style="border: 1px solid blue; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> H=16:41:10.-37°6 N, 20°9 E. M=4.2. H=16:41:05.-37° 1/2 N, 20° 1/2 E (BCIS). H=16:41:11.4- 37°9 N, 20°6 E; h about 33 Km. M = 4.2 (USCGS). </div>
			E i!Sg			25.7		
		ATH	ZE ei!Pn	16	41	50.2C	260	
			Z ei!			51.0		
			Z ei!			52.6D		
			Z eiPy			53.5C		
			Z ei!			55.0C		
			Z iPg			56.2C		
			E i		42	13.0		
			E ei!			14.3		
			E ei!			15.0		
			E ei			16.9		
			N ei			18.0		
			E i			18.5		
			N iSn			19.5		
			NE i			21.0		
			N iSb			22.5		
			N i			26.5		
			E i!Sg			27.7		
			VAM	ZNE ePn	16	42		
NE ei				09.4				
E e(Pb)				11.6				
E e				16.6				

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N°.	Date	Station	Phase	h	m	s	D Km	Remarks		
29	24	VAL	N ei			38.2	215	<p>H=22:21:07.5.-39°9N, 19°7E. M_L=4.5.</p> <p>H=22:21:18.-40° 1/4 N, 21° 1/4 E. (BCIS) .</p>		
			E ei			44.5				
			N eiSn			47.7				
			E ei			49.0				
			E ei			50.5				
			E ei			56.5				
			E ei	43		08.5				
			N ei			09.7				
		N ei			14.5					
		Z ePn	22	21	42.0					
		Z eiPb			43.5					
		Z ei(Pg)			44.2					
		E eiSb	22		08.5					
		ZE iSg			12.0					
E ei			19.0							
30	26	ATH	Z ePn	22	22	08.2	420			
			Z ePb			12.3				
			Z ei			15.1				
			N ei			44.1				
			E ei			44.6				
			N ei			45.6				
			E ei			47.0				
			E ei			49.7				
			E eiSn			52.1				
			E ei			54.1				
30	26	VAM	N eSn	22	23	37.0	620			
			Z e			40.5				
30	26	VAL	Z ePg	00	51	23.6	100			
			Z e			24.6				
			Z i			25.3				
			Z i			26.1				
			E iSg			36.1				
		ATH	Z e(Py)	00	51	46.8		260		
			Z e			49.0				
			Z e(Pg)			50.6				
			ZNE eiSn	52		12.8				
			E ei			14.3				
30	26	ATH	N ei			14.8				
			E ei			15.1				
			N eiSb			15.8				
			E e			16.4				
			N ei			17.3				
			E ei			17.7				
			E eiSy			18.3				
			N eiSg			21.8				
			30	26	VAM	Z ePn	00	52	05.8	440
31	28	ATH	Z eiPn	04	27	32.2D	135			
			Z i!!			35.1				
			E i			45.7				
			E i!!Sn			47.9				
		VAL	E ePn	04	27	35.6		150		
E ei				37.0						
E i				39.2						
E i				41.0						
E iSn				52.8						
31	28	VAM	ZE eiPn	04	27	01.3	340			
			N e			01.8				

H=22:21:07.5.-39°9N,
19°7E. M_L=4.5.
H=22:21:18.-40° 1/4 N,
21° 1/4 E. (BCIS) .

H=00:51:04.- 38°6 N,
21°0 E.

H=04:27:10.5.-38°4 N,
22°5 E. M_L = 4.1.
Felt in Corinthia (V
at Derveni, IV+ at Ne-
mea), Fokis (V at It-
ea, IV+ at St.-Euthy-
mia, IV at Kastellia),
Boeotia (IV+ at Davli-
a), Aetolia (IV at Pa-
laeochoraki). Area of
felt shaking about
15,000 Km². M.M.=4.4*.
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No.	Date	Station	Phase	h	m	s	D	Km	Remarks
			Z ei			02.2			H=04:27:13.- 38°3 N, 22°4 E. (BCIS). H=04:27:10.6.-38°4 N, 22°3 E; h about 15 Km. M=4.5 (USCGS).
			NE ei			02.7			
			E ei			05.0			
			N ei			05.7			
			E ei(Pb)			06.2			
			Z ei			06.5			
			N ei(Py)			06.8			
			Z ei			08.7			
			E ei			10.2			
			E ei			14.4			
			N i			31.2			
			N i			35.2			
			N i			36.7			
			N iSn			37.9			
			N i			38.7			
			E i			39.2			
			N i			41.2			
			E i			41.7			
			N iSb			43.2			
			E i			44.2			
			E i			45.9			
			E i			50.9			
		STP	ZN ePn 04	28		01.6		340	
			E e			02.7			
			Z eiPb			04.3			
			N ei			06.2			
			Z eiPy			07.6			
			N ei			08.3			
			E eiPg			11.7			
			ZN ei			12.2			
			Z ei			13.9			
			NE ei			14.2			
			N ei			17.5			
			E eiSn			38.3			
			N ei			41.7			
			E eiSb			42.3			
			E eiSy			47.4			
			E ei			55.3			
			E ei		29	00.6			
32	28	VAL	Z ePn 14	40		23.8		300	H=14:39:38.- 40°9 N, 20°0 E. M _L 4.6. H=14:39:30.- 41°8 N, 19°6 E. (BCIS). H=14:39:25.- 41°7 N, 19°2 E; h about 14 Km. M = 4.5 (USCGS).
			E e			24.5			
			Z eiPb			26.5			
			E ei			29.9			
			Z ei	41		05.1			
			E eiSg			08.4			
			Z ei			08.9			
		ATH	Z ePn 14	40		44.3D		460	
			Z ei			47.3D			
			Z eiPb			49.6D			
			Z ei			52.2C			
			Z eiPy			53.7D			
			E ei(Sn)	41		33.2			
			N ei			40.9			
			E eSb			41.4			
			N ei			42.2			
			E ei			43.7			
			NE ei			46.0			
			E eiSy			47.7			
			NE ei			51.3			
			NE eiSg			55.7			
			E ei			58.2			
			NE ei	42		03.7			

N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks
		STP	ZNE ePn	14	40	56.4	560		
		VAM	Z NE Z Z N E N E E N E	14	41	15.2 17.6 19.3 20.4 22.3 24.7 32.3 32.7 37.2 40.9 42.5 46.7 48.7	710		
33	30	ATH	Z ZN E N ZE Z E N N N E	03	46	40.2C 40.7CS 41.1 41.6S 42.5 42.9 54.0 54.6 55.3 55.9 57.0	110		H=03:46:20.- 39°N. 23°5 E. M _L < 3.1.
		STP	Z	03	46	56.7	230		
		VAM	Z	03	47	18.9	400		
34	30	ATH	Z ZN E Z N E E N N E NE N E N N	04	47	34.5D 35.6D 36.1 36.7 37.6 39.6 40.7 44.7 51.2 53.6 54.8 56.8 59.0 00.8 02.8 05.6	145		H=04:47:10.- 39°1 N, 23°0 E. M _L < 3.3.
		STP	E N	04	48	33.8 34.5	275		
		VAM	Z	04	48	11.6	425		
35	31	ATH	Z	06	27	42.8			
		VAM	Z	06	27	51.1			
36	31	ATH	ZNE E Z Z	09	58	01.1DNW 01.7 02.5C 04.0	145		H=09:57:37.- 38°2 N, 22°2 E.

Nº.	Date	Station	Phase	h	m	s	Km D	Remarks
			Z			36.5		
			Z			03.0		
			ME			17.1		
			ME			20.6		
			E			21.5		
		VAM	Z	09	58	27.5	335	
		STP	Z	09	58	30.2	360	

LONG DISTANCE SHOCKS

ATHENS

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Nº.	Date	Station	Phase	h	m	s	D	Remarks
1	Oct. 1	STP	Z eP	09	04	52.2	87°5	H=08:52:05.8.- Rat Islands, Aleutian Islands 50°1 N, 178°3 E; h about 32 Km. M=6.3 (USCGS).
		ATH	Z i!P	09	05	00.0D	89°	
			Z i!PP		08	35.2D		
			Z i!PPP		10	30.3D		
			NE iSKS		15	32.8		
			N iPPS		16	54.2		
			E i			58.4		
2	1	STP	Z e?(PKP)	13	40	09.7		
		ATH	Z ePKP	13	41	11.2	130°	
			Z ei			14.4		
			Z e			15.4		
			Z e			21.6		
			Z e		44	18.0		
			Z eSKS		47	42.2		
3	1	ATH	Z eP	22	48	38.5	105°	H=22:34:25.5.-South Sandwich Islands; region 60°7 S, 24°9 W; h about 33 Km. M=6.0 (USCGS).
			Z e		52	38.5		
			Z e(PP)			54.7		
			E ePS	23	02	12.7		
			N e			18.1		
4	3	ATH	Z eP	05	24	27.2	81°5	H=05:12:22.5.-Atlantic-Indian Rise. 38°2 S, 48°4 E; h about 20 Km. M=5.5 (USCGS).
						29.8		
5	3	STP	Z eiP	14	57	41.2	81°5	H=14:45:26.8.- Kurile Islands 49°5 N, 156°5 E; h about 33 Km. M=5.9 (USCGS) ..
		ATH	Z eP	14	57	51.3	83°	
			Z i			51.7		
			Z eiPP	15	01	06.3		
			Z eiS		08	07.1		
6	3	ATH	Z eiPP	16	35	17.1D	121°	H=16:14:54.9.- Off coast of Southern Chile 42°9 S, 75°4 W; h about 28 Km. M = 6.0 (USCGS).
			E e		42	28.7		
			Z ei		44	57.7		
			N eiPS		45	02.7		
			E ei			03.8		
			E ei			16.5		
7	7	STP	Z eP	03	48	14.0	81°	H=03:35:59.6.- Shouth China sea 12°6 N, 114°5 E; h about 17 Km. M=4.6 (USCGS).
		ATH	Z eiP	03	48	24.8C		
			Z eiPS		59	45.4	83°5	
		VAM	ZNE eP	03	48	27.6	84°	
8	8	VAM	Z ePKP ₁	22	20	22.4	159°	H=21:59:45.7.-South of Fiji Islands 25°7 S, 176°5 W; h about 33 Km. M=5.6 (USCGS).
		VAL	Z ePKP ₁	22	20	25.5	159°	
9	12	VAL	Z eP	13	53	38.4	86°	H=13:40:55.9.- Kodiak Island region 56°3 N, 153°7 W; h about 11 Km. M = 5.3 (USCGS).
		ATH	Z eiP	13	53	39.6	86°	
			Z e		57	12.0		

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N°	Date	Station	Phase	h	m	s	D	Remarks
			N e	14	04	02.0		
			E ei			12.0		
			N ei		05	32.0		
		VAM	Z eP	13	53	51.5	89°	
10	13	STP	Z ePKP ₁	15	06	02.2	144°5	H=14:46:25.0.- Loyalty Islands region 22°6 S, 171°0 E; h about 24 Km. M = 5.6 (USCGS).
		ATH	Z ePKP ₁	15	06	10.3	145°	
		VAM	Z ePKP ₁	15	06	14.3	145°5	
11	16	VAL	Z eP	20	14	05.6	81°	H=20:01:52.5.- Komandorsky Islands region 56°2 N, 164°7 E ; h about 33 km. M=5.3 (USCGS).
		VAM	Z eP	20	14	27.8	85°	
12	17	STP	Z eP	02	12	37.5	117°	H=01:53:42.7.- Solomon Islands 8°0 S, 155°9E; h about 93 Km. M.=5.5 (USCGS).
		VAM	Z eP	02	12	43.0	117°5	
		VAL	Z eP	02	12	45.6	118°	
13	18	ATH	E eP	22	09	25.9		
			E e			33.9		
			E e		11	20.9		
			E ei		14	24.3		
			E ei			35.1		
			E e		16	09.9		
			E ei			32.1		
14	19	STP	Z eiP	21	01	17.6	85°	H=20:48:47.4.-Aleutian Islands 52°3 N, 174°3E; h about 48 Km. M=5.6 (USCGS).
		ATH	Z ei!P	21	01	28.3C	86°	
			Z ei		04	51.6C		
			Z e		06	39.7		
			N ei		11	48.3		
			E ePS			59.5		
			N ei		12	07.5		
			E ei			21.9		
			E ei		13	15.7		
			E ei			16.1		
		VAM	Z e	21	01	40.5	89°5	
15	21	ATH	Z e(P)	00	12	30.1		
			E ei		18	29.5		
			Z ei		20	59.1		
16	24	STP	Z iP	18	27	18.3	80°5	H=18:15:04.9.-Kurile Islands 49°7 N, 156°1 E; h about 30 Km. M=5.7 (USCGS).
		ATH	Z ei!P	18	27	28.3C	83°	
			Z ei			28.9		
			N ei		28	58.1		
		VAL	Z iP	18	27	34.1	84°5	
		VAM	Z eP	18	27	34.7	84°5	
17	24	VAM	Z e(P)	18	57	14.3		
		VAL	Z e(P)	18	58	10.6		
			Z ei			22.5		
18	24	STP	Z ei(P)	21	28	36.4		

N ^o .	Date	Station	Phase	h	m	s	D	Remarks			
19	25	STP	Z eP	22	46	17.4	78°5	H=22:34:24.3.-Hokkaido, Japan region 44°2 N, 145°3 E; h about 180 Km. M=6.2 (USCGS).			
			N ei(S)		56	18.4					
		ATH	Z eiP	22	46	28.8D	80°				
			E e		52	41.9					
			E eS		56	27.7					
			N ei			32.0					
		VAL	Z eiP	22	46	35.4	81°				
			E eS		56	42.8					
		VAM	Z eP	22	46	38.8	81°				
			N eS		56	44.6					
		20	26	ATH	Z iPKP	10	41		20.0D	143°	H=10:21:46.1.-Loyalty Islands 20°1 S, 168°8 E; h about 37 Km. M=5.2 (USCGS).
					Z i				26.4		
VAM	Z ePKP			10	41	23.4	143°				
		VAL	Z ePKP	10	41	28.3	141°				
21	29	VAM	Z e?(P)	16	04	14.0					
			Z e			15.1					
		VAL	Z e?(P)	16	04	38.0					
22	29	STP	Z eP	21	12	41.7	86°5	Nuclear Explosion. H=21:00:00.1.-Rat Islands, Aleutian Is- lands 51° 26' 17"N, 179° 10' 57"E; h=0 Km. M=6.1 (USCGS).			
		VAL	Z eiP	21	12	51.8	88°5				
		VAM	Z eP	21	13	02.0	91°				
23	30	STP	Z e(PKP)	07	16	39.4					
24	31	STP	Z eiP	17	36	32.9	83°5	H=17:24:06.4.- South Indian Ocean 14.2 S, 95°2 E; h about 33 Km. M = 5.4 (USCGS).			
		ATH	Z eP	17	36	44.0	85°				
			Z e		38	42.0					
			NE eiS		47	02.4					
			E ei		53	03.0					
		VAL	Z eP	17	36	50.0	86°5				

The Director
of the Seismological Institute

Prof. A. Galanopoulos

The Assistant
P. Comninakis

ATHENS
Nov. 65

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE
SEISMOLOGICAL STATIONS NETWORK - GREECE
PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T ₀ sec.	T _g sec.	γ:1	V	Drummm speed	
ATHENS (ATH) (Attica)	37°58'20"N 23°43'0"E h=95 m Cretaceous Limestone	Benioff	Z	107.5	1	0.25		12,500	60	
		"	N-S	107.5	1	0.25		12,500	60	
		"	E-W	107.5	1	0.25		12,500	60	
		Sprengnether	Z	11.2	15	100		1,500	30	
		"	N-S	10.75	15	100		1,500	30	
		"	E-W	10.75	15	100		1,500	30	
		Wood-Anderson	N-S			0.8		50	2,800	60
		"	E-W			0.8		50	2,800	60
		Hiller	Z	1		0.82	0.25	10	5,000	60
		"	N-S	1		0.82	0.25	10	5,000	60
		"	E-W	1		0.82	0.25	10	5,000	60
		Wiechert	Z	1300		1.5		1.2	130	30.5±0.5
		"	N-S	1000		5.4		8.0	129	30.5±0.5
		"	E-W	1000		5.5		6.8	140	30.5±0.5
Mainka	N-S	135		3.5		2.5	44	30 - 32		
"	E-W	135		3.5		4.4	80	30 - 32		
Kritikos	N-S	40		2.0		3.7	4	38 - 42		
ST. PARASKEVI (PRK) (Lesbos Island)	39°14'46"N 26°16'18"E h=100 m Rhyolite	Sprengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	
VALSAMATA (VLS) (Cephalonia Island)	38°10'36"N 20°35'24"E h=405 m Cretaceous Limestone	Sprengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	
VAMOS (VAM) (Crete Island)	35°24'26"N 24°11'59"E h=225 m Marly Limestone	Sprengnether	Z	1.14	0.5	0.5		20,000	60	
		"	N-S	1.14	0.5	0.5		20,000	60	
		"	E-W	1.14	0.5	0.5		20,000	60	
RHODES (RH.D) (Rhodes Island)	36°26'14"N 28°13'25"E h=45 m Alluvium	Sprengnether	Z	1.14	0.5	0.5		10,000	60	
		"	N-S	1.14	0.5	0.5		5,000	60	
		"	E-W	1.14	0.5	0.5		5,000	60	
PATRAS (PAT) (Northern Pe- loponnesus)	38°14'11"N 21°44'48"E h=40 m. Alluvium	Wiechert	Z	80.	2.8		3.1	133	29-31	

SHOCKS IN THE AREA OF GREECE

ATHENS

NOVEMBER 1965

Page 1

N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks				
1	2	PRK	ZNEi!Pg	03	27	24.8	85		<p>H=03:27:08.5.- 39°25' N, 25°30' E. M_L=5.2</p> <p>H=03:27:12.- 39°3' N, 25°5' E (B.C. I.S.).</p> <p>H=03:27:07.2.- 39°6' N, 25°2' E; h=11 Km M=4.6 (USCGS). Felt on the Islands of <u>St. Eustratios</u> (IV+ at St. Eustratios), <u>Lesbos</u> (IV at Methymna, Skalochoori, Kalloni, Stypsi, and Kapi), <u>Lemnos</u> (IV at Myrina) <u>Skyros</u> (IV at Skyros) and in the region of <u>Attica</u> (III+ at Cholargos). Area of felt shaking about 120,000 Km². M, M. = 5.7</p>				
		ATH	SPZi!Pn HZ i! HZ i!Pg HZ i!! HNEi!	03	27	40.3C 42.9 44.2 53.9 11.6	195						
		PAT	Z ePn Z ePy Z eSg	03	27	56.8 02.5 46.4	325						
		VLS	ZE eiPn Z eiPb Z eiPg Z eiSn	03	28	09.6 14.9 24.0 59.5	420						
		VAM	Z ePn ZE e Z ei Z ei N ei ZN ei E ei E ei N ei!Sb E i E iSg	03	28	11.7 13.3 15.5 26.0 26.5 29.3 37.4 05.0 07.5 16.4 20.5	440						
		2	2	PRK	Z ePn NE eiSg	13	10	32.1 11 32.4		395	H=13:09:35.- 40°5' N, 30°6' E (BCIS).		
		3	4	VLS	ZE iPg ZE iSg	10	29	51.2 55.0		30	H=10:29:45.0 37°8' N, 20°5' E. M _L = 4.0		
				ATH	SPZ ePn SPE i SPNE i!!Sy SPN iSg SPE i SPE i!	10	30	28.6 05.9 07.6 11.0 15.1 18.6		290			
				VAM	Z e N eSn E eiSg	10	30	56.5 31 30. 51.5		420			
				PRK	Z e?Pb E eSn	10	31	01.7 57.8		540			
				4	4	VLS	ZeP22P ZeiPg EeiSg	10		40	25.1 25.9 39.4	115	H=10:40:00, 37° 1/4 N, 19° 3/4 E.
				ATH VAM	ZePn ZePn	10 10	40 41	55.0 04.5		350 420			

Note : Magnitudes determined from Standard Wood-Anderson records are marked by M_L
Magnitudes determined from Macro seismic data are marked by M. M.-

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
5	4	VLS	Z ePg Z eiSg	16	32	29.5 38.6	50		Felt on the Island of Ithaka (IV at Ithaka).
6	4	PRK	Z ePn N eiSn	17	04	40.9 57.5	440		
7	5	ATH	Z eiPg N i!Sg	23	01	19.60 26.4	55		H=23:01:09 37° 3/4 N, 23° 1/4 E. M _L = 3.3 .
		VLS	Z ePn Z e Z ePy 7 ² eiSb	23	01	52.2 53.7 56.0 27.0	275		
		VAM	Z eiPn Z eiPy N eiSy E ei	23	01	53.8 58.7 33.7 36.2	300		
		PRK	Z e?(Pb) Z e N eSb E e(Sg)	23	02	01.2 06.7 44.1 46.9	(320)		
8	5	VAM	Z eiPn Z iPg Z ei! E ei E eiSn	23	14	56.2 58.1 00.7 17.2 18.3	200		H=23:14:26.0 - 36° 2 N, 22° 1 E. M _L < 3.8
		ATH	SPZ eiPn SPZ eiPb SPZ iPg SPN i SPN iSn SPE i SPN iSb SPNE ei!Sg	23	15	06.40 08.6 12.2 31.8 36.7 37.4 38.8 44.6	260		
		VLS	Z ePn Z ePb Z ei(Pg) E eiSg E ei	23	15	07.2 08.6 13.9 38.3 44.5	260		
		PRK	Z ePn	23	15	36.4	500		
9	7	VAM	Z ePn E i!Sn	05	25	58.0 16.8	160		H=05:25:31 34° 3/4 N, 25° 3/4 E. Felt on Crete Island especially in the region of Lasithi (IV+ at Anato-li, IV at Kato-Chorion).
		ATH	SPZ ePn SPE eiSn SPE eiSb SPN eiSy SPE ei SPN ei	05	26	32.1 15.4 20.9 26.1 29.6 30.9	425		
		PRK	Z ePn	05	26	42.1	505		
10	8	VAM	Z ePn Z ei Z eiPy N ei E iSg	19	13	23.6 29.2 31.6 07.6 14.2	300		H=19:12:37.- 36° N, 27° E. M _L < 4 .

N ^o .	Date	Station	Phase	h	m	s	D Km	Remarks			
8		PRK	Z ePn	19	13	26.5	410				
			Z eiPy			35.3					
			N ei	14		12.5					
			NE iSb			16.7					
			E i			18.6					
		ATH	SPZEeiPg	19	13	40.6CW	350				
			SPZ ei			42.6C					
			SPE eiSb	14		12.0					
			SPN ei			13.0					
			SPN ei			15.9					
SPE ei				19.0							
11	8	VAM	Z ePn	23	03	11.7	300	H=23:02:27.- Probably 35° 1/4 N, 27° 1/2 E.			
			Z eiPy			15.8					
			Z i			21.0					
			E ei			48.7					
			E iSg			54.7					
		PRK	Z ePn	23	03	31.5	450				
			ZE eiSy			32.7					
			N ei			36.2					
		12	9	VAM	Z iPn	23	29		21.5	160	H=23:28:55.5.- 36°5 N, 23°2 E . M _L < 3.1 .
					E i!Sn				39.3		
E i!Sg						44.4					
ATH	SPZ ePn			23	29	24.3	170				
	SPZ ei					26.3					
	SPZ i					28.7					
	SPN i					40.8					
	SPNE iSn					43.3					
	SPN i!					45.9					
VLS	Z ePn			23	29	37.3	290				
	Z e			41.4							
	N eiSn	30		08.9							
13	10	PRK	Z ePn	23	29	54.2	405				
			N eSn	30		36.3					
14	11	ATH	SPZ iPg	20	25	21.8C	70	H=20:25:08.4.- 38° 1/2 N, 23° 1/4 E. M _L = 3.1 .			
			SPZ i			23.1					
			SPZ i			26.1					
			SPZ iSg			30.4					
			SPN i			31.8					
			SPE i!!			33.3					
		PRK	Z ePr	20	25	49.3	260				
			Z e(Ig)			53.2					
			N ei	26		25.5					
			N eiSg			26.4					
VAM	E eSg	20	26	47.7	330						
VAM	Z ePn	18	57	59.1	350	Souther coast of Turkey.					
	Z ePb		58	01.9							
	Z e			11.1							
	N eiSn			36.4							
	N eiSb			42.6							

Nº.	Date	Station	Phase	h	m	s	D Km	Remarks
			E eiSg N ei			45.8 47.1		
	11	PRK	Z ePn N eSn	18	58	15.4 19.3	480	
15	11	VAM	Z ePn Z eiPb Z iPg N i N i!	21	49	50.7 52.7 55.1 15.5 19.1	315	Southern coast of Turkey.
	11	PRK	E eSg	21	51	23.4	470	
16	16	VAM	Z ePn Z iPg NE i!Sg N i	18	45	54.0 56.2 12.3 16.3	135	H=18:45:31 34° 3/4 N, 25° 1/2 E.
		ATH	SPZ e?(Pn)	18	46	32.4	425	
		PRK	Z ePn N e N eSn	18	46	35.7 13.4 21.1	445	
		VLS	Z ePn	18	46	54.2	600	
17	17	VAM	Z e?(Pn) Z eiPy Z eiPg N eiSn E eiSg	19	49	44.8 45.9 47.9 08.9 11.9	200	H=19:49:12 Probably in the south of Crete Island.
		ATH	SPZ e?(Pn)	19	50	11.0	405	
18	20	VAM	Z ePn Z ei(Pg) Z ei N iSg E i	03	40	41.9 43.7 47.5 00.3 02.8	130	H=03:40:20 Probably in the south of Crete Island.
		PRK	Z ePn	03	41	23.0	475	
19	20	VAM	Z ePn E eiSg N ei	05	15	21.3 39.5 40.3	130	Felt on Rhodes Island (IV+ at Malon)
20	20	PAT	Z ePn Z eiSg	19	58	33.2 58.0	180	H=19:58:03.0.- 39° 80 N, 22° 25 E. M _L < 4.0 . Felt in Larisa (V at A- mouri), Grevena (IV+ at Deskati). Area of felt shaking about 5,000 Km ² . M. M = 3.8 *
		VLS	Z ePn Z i E iSg	19	58	39.7 41.2D 12.7	230	
		ATH	SPZ iPn SPZ i SPZ i SPE i SPN i SPE i SPN i!	19	58	40.7D 48.6 52.7 18.8 19.6 21.6 25.1	240	
		PRK	Z ePn Z i	19	58	55.0 56.6	350	

No.	Date	Station	Phase	h	m	s	D	Km	Remarks
			Z ei		59	0.01			
			E ei			08.0			
			N ei			19.5			
			N eiSn			33.5			
			N eiSg			40.5			
		VAM	Z ePn	19	59	15.8	520		
			N ei			45.3			
			E eSn	20	00	11.8			
			E ei			27.8			
			N eiSg			43.3			
21	22	RHD	Z ePn	05	24	03.7	140		H=05:23:36.6, -37°25' N, 27°00' E. M _L = 4.2
		PRK	Z iPg	05	24	12.1	230		H=05:23:42.5, -37°2' N, 27°0' E. (BCIS). H=05:23:41.- 37°4' N, 27°1' E; h = 33 Km. (USCGS). Felt on Kalymnos Is- land (IV+ at Kalymnos).
			Z i			14.3			
			Z eiPy			15.8			
			Z i			17.9			
			Z iSy			42.8			
			NE i!Sg			45.2			
		ATH	SPZ iPn	05	24	22.1D	300		
			SPZ iPg			30.3C			
			SPZ i			33.5			
			SPZ i!Sy	25		03.0			
			SPN i!			03.6			
			SPN i!			09.3			
		VAM	Z ePn	05	24	25.4	330		
			Z ei			28.0			
			Z ei			32.8			
			Z ei			37.0			
			N eiSn	25		02.2			
			N eiSy			07.4			
			E ei			09.5			
			N iSg			16.7			
		VLS	Z ePn	05	24	59.0	600		
			Z ePy	25		14.7			
			Z ePg			24.0			
22	24	RHD	Z e?(Pn)	23	35	32.5	160		Southwestern Turkey,
			NE e			53.1			
		PRK	ZN eiPn	23	35	36.5	180		
			ZN ei			37.5			
			Z ei			41.5			
			N eSn			58.9			
			NE eiSg	36		01.4			
			N i			02.5			
23	26	VLS	Z ePg	03	30	19.8			Felt in Aetolia (IV+ at Palaeochoraki)
24	26	ATH	LPZNE eiPn	09	04	13.2	110		H=09:03:51.2, -39°0' N, 24°2' E. M _L = 4.4
			SPZNE i!			13.3	CSW		H=09:03:52.- 39°0' N, 24°1/2' E (BCIS). H=09:03:56, -38°8' N, 24°6' E. h=33 Km. M=3.8 (USCGS). Felt on Skyros Island (IV at Skyros).
			HZ eiPg			14.0			
			LPZ i			17.0			
			LPNE iSg			27.4			
			LPE i!			31.0			

N°	Date	Station	Phase	h	m	s	D	Km	Remarks
25	26	PRK	Z	iPn	09	04	21.4	140	
			N	i			25.6		
			E	eiSg			44.6		
		VLS	Z	eiPn	09	04	40.8C	320	
			Z	eiPb			43.1C		
			Z	ei!Pg			49.3C		
			Z	eiSn	05		14.8		
			N	ei(Sy)			24.8		
			E	eiSg			28.3		
		VAM	Z	ePn	09	04	49.1	400	
			Z	eiPb			53.0		
			Z	ei			55.9		
Z	eiPg		05		02.9				
N	eiSn				31.6				
E	eiSy				43.8				
N	ei!Sg				49.9				
E	ei!				51.3				
VAM	Z	eiPn	13	13	54.5	200			
	Z	eiPg			57.6				
	E	eiSy	14		21.1				
	N	eiSg			22.1				
ATH	SPZ	ePn	13	14	09.5	320			
	SPE	ei			48.2				
VLS	Z	ePn	13	14	11.7	340			
	Z	ei			28.2				
	Z	ei			38.3				
	Z	eiSn			48.4				
26	26	VAM	Z	eiPn	16	33	21.5	190	H=16:32:50
			Z	ei			23.3		
			Z	ei			25.5		
			Z	ei			28.1		
			NE	ei			41.8		
			E	ei!Sg			47.1		
		ATH	SPZ	eiPn	16	33	22.0C	190	
			SPE	i			44.0		
		VLS	Z	e(Pn)	16	33	40.9	340	
			Z	ei			45.8		
Z	ei		34		08.9				
27	26	PRK	Z	ePn	16	35	50.4	315	South of Turkey
			N	eiSg	36		37.3		
28	27	PRK	Z	eiPn	02	34	56.3	315	South of Turkey
			N	ei!Sg	35		22.8		
29	27	ATH	SPZ	ePn	04	56	55.1	120	H=04:56:33. Probably 39° N, 24° 1/4 E. M _L 3.1
			SPE	iSn	57		09.1		
PRK			Z	ePn	04	57	03.5	180	
			Z	eiPy			04.5		
			Z	ei			09.2		
			N	ei			17.3		
			E	eiSg			28.1		

N°	Date	Station	Phase	h	m	s	D Km	Remarks
30	27	ATH	SPZ eiPn	08	06	31.7C	145	<p>H=08:06:06.0.- 39°2 N, 24°0 E. M_L = 3.7</p>
			SPZ i!			32.3		
			SPN i!			45.2		
			SPN i!			46.5		
		PRK	Z eiPn	08	06	38.7	200	
			Z eiPg			40.4		
			Z ei!			46.6		
			N eiSn	07		02.2		
			E eiSb			03.8		
			N ei!Sy			05.1		
		VAM	NE ei!Sg			06.5	420	
			Z eiPn	08	07	06.5		
Z ei(Pg)				22.6				
		E eiSy	08		02.9			
31	27	RHD	ZNE eiPg	11	03	11.3	120	<p>H=11:02:47.8.- 35°9 N, 29°4 E. M_L = 4.8</p>
			ZNE ei			12.0		
			E ei			13.8		
			N i			27.1		
		PRK	ZNE eiPn	11	03	57.4	460	
			Z ei			59.0		
			ZN eiPy	04		04.1		
			E eiSn			43.5		
			N i			57.6		
			N iSg	05		08.1		
		VAM	ZN eiPn	11	03	55.0	480	
			ZNE ei			56.1		
			Z iP ₆	04		00.5		
			N i			39.5		
			N i			44.5		
			E iSn			45.5		
		ATH	SPZ iPn	11	04	06.6	560	
			SPZ i			09.2		
			SPZ i			17.3		
			SPNE i	05		00.4		
			SPE i			07.5		
			SPN i			08.8		
			SPN i			13.0		
			SPN i			15.5		
VLS	Z eiPn	11	04	39.2C	820			
	Z e	05		00.9				
	E eSn	06		06.2				
VLS	Z ePn	13	53	57.0	550			
	N e	54		56.5				
	Z ei			57.0				
VAM	Z ePn	13	54	45.5	930			
	N e	56		25.0				
	NE ei			37.2				
33	28	RHD	ZNE iP	05	26	21.5	55	<p>H=05:26:02.0.-35°9 N, 27°9 E. M_L = 5.4</p> <p>H=05:26:05.0.- 36°1 N, 27°7 E; h about 90 Km. M=6.2 (Pruhonice), 5.6 (Ksara), BCIS 5 1/4 - 5 1/2 (Strasbourg) (B.C.I.S). H=05:26:05.6.- 36°1 N, 27°7 E. h=89 Km. M=5.9 (CGS); 5 1/4 - 5 1/2 (PAL) (USCGS). ./.</p>
		PRK	ZNE i!P	05	26	56.6	395	
		ATH	SPZNE iP	05	27	0.07DSE	430	
			LPZNE i!			0.09		
			LPZN i!			02.3		
			LPN i			13.7		
			LPNE iS			34.1		
			LPN i!			38.5		
			LPN i!			46.1		

No.	Date	Station	Phase	h	m	s	D	Km	Remarks
		PAT	Z eiP	05	27	21.40		610	Felt on the Islands of Rhodes (VI at Kapadia, V at Rhodes), Tilos (V at Livadia), Karpathos (IV at Olympos), Kasos (IV at Kasos), Kos (II+ at Kardamaeni), Symi (III+ at Symi) and Crete; particularly in Lasithi (VI at Limnae, Phourni, III at St. Nicolaos), and Heraklion (III at Heraklion). It was reported from Cyprus Island (III+ at Lemesos). Area of felt shaking about 635,000 Km ² . M. M. = 6.8* Area of felt shaking about H=16:18:10.1. M. M. = 6.8* H=16:18:10.1
			Z eiS		28	26.4			
		VLS	Z eP	05	27	31.8		720	
			Z ei!			34.4			
			Z ei			59.8			
			N ei		28	15.8			
			N ei!			26.0			
			N ei!			34.9			
			E ei!			36.3			
			E ei!			39.8			
33	28	PRK	ZNE ei!Pg	16	18	18.8		40	
			NE iSg			23.4			
34	28	PRK	Z eiPn	20	57	42.2		250	H=20:57:03.- 37° 3/4 N, 28° 3/4 E. H=20:57:03.- 37° 3/4 N, 28° 3/4 E.
			Z ei			49.4			
			NE eiSg		58	18.7		250	
35	29	VLS	Z ePn	02	15	13.6		240	H=02:14:36. M _L < 3.4
			Z eiPb			15.4D			
			Z ei			21.6		240	H=02:14:36. M _L < 3.4
			E eiSn			41.4			
			N eiSy			45.8			
		ATH	SPZ iPn	02	15	18.4		280	
			SPE ei			39.1			
36	29	VLS	Z eiPn	14	34	37.5		190	H=14:34:07.9.- 39°4 N, 22°OE. Felt on Karditsa (IV at Anavra, II+ at Kedros)
			Z ei			39.3			
			N eiSg		35	03.3		190	
		ATH	SPZ ePn	14	34	41.3		205	
			SPZ ei			46.2			
			SPE ei		35	03.7		205	
			SPE i(Sn)			06.4			
			SPE iSg			09.4			
		PRK	Z ePn	14	35	04.2		375	
			E eiSn			46.0			
37	30	PRK	Z ePn	04	00	33.5		120	H=04:00:09.
			Z ei			34.9			
			NE eiSg			49.4		120	H=04:00:09.
38	30	PAT	Z ePg	10	54	48.0		60	H=10:54:36.5.- 37°7 N, 22°OE. M _L < 3.8
			Z e			55.7			
			Z eSg			57.3		60	
	30	VLS	Z eiPn	10	54	59.2		130	
			Z ei		55	01.0			
			N eiSg			14.3		130	
			E ei			15.0			
			N ei			17.6			
		ATH	SPZ eiPn	10	55	02.0		150	
			SPE eiSn			17.5			

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
		VAM	Z ePy	10	55	29.2	315		
			Z ei			31.3			
			E eSb		56	03.6			
			N ei			09.9			
39	30	PRK	Z ePn	13	13	07.2	170		H=13:12:38.- South-west of Turkey.
			Z eiPg			08.7			
			E eiSn			38.4			
			N iSg			38.9			
40	30	PAT	Z ePg	20	50	22.7	60		H=20:50:11.2.- 37° 3/4 N, 22° 1/4 E. M _L 3.3
			Z ei			28.3			
			Z ei			33.1			
		VLS	Z eiPn	20	50	36.2	150		
			Z ei			40.6			
			N eiSn			57.3			
			E iSg			57.9			
		ATH	SPZ eiPn	20	50	37.8C	160		
			SPE ei			55.1D			
			SPN iSn			55.8			
		PRK	Z e(Pn)	20	51	08.4	390		

LONG DISTANCE SHOCKS

ATHENS

NOVEMBER 1965

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N°	Date	Station	Phase	h	m	s	D	Remarks	
1	1	PRK	Z ePKP	18	22	01.3	155°	H=18:03:09.6.- South of Fiji Islands, 24°1 S, 178°9 E; h about 546 Km, M = 5,6 (USCGS).	
			Z ei			05.4			
			Z e			18.1			
	1	VAM	Z ePKP	18	22	12.7	156°		
	1	VLS	Z e?	18	22	33.2			
2	3	VAM	Z eP	01	51	45.2	101°	H=01:39:02.5.- Peru-Brazil Border re- gion 9°1 S, 71°4 W; h about 583 Km. M=6,2 (USCGS).	
			N eiS	02	01	22.2			
	3	ATH	SPZE eiP	01	51	45.4DW	101°		
			LPZE ei!			45.6			
			LPZ ei		53	53.4			
			SPZ ei			53.4			
			SPE iSKS02	01		25.1			
			LPNE i!			25.8			
			LPE i!		02	24.6			
			LPZ ei!		04	05.4			
	3	PRK	Z e	01	56	32.5			
			Z e	02	07	58.0			
3	3	ATH	LPZ ePP	08	07	03.0	42°	H=07:57:34.9.-North Atlantic Ocean 58°4 N, 32°2 W; h about 33 Km. M=4,8 (USCGS).	
4	3	ATH	LPZ ePKP	18	40	35.2	142°	H=18:21:05.0.- Eastern Island region 22°3 S, 114°1 W; h about 12 Km. M=5,8 (USCGS).	
5	4	ATH	LPZ e(R)	07		42.2			
6	5	ATH	LPZ e(R)	11		35.1			
7	5	ATH	LPZ e(R)	28		50.0			
8	7	PRK	Z eiPKP	21	47	12.0			
			N e			53 09.3			
	7	ATH	SPZ eiPKP	21	47	17.2			
	7	VAM	Z eiPKP	21	47	20.3			
	7	VLS	Z e?(PKP)	21	47	23.8			
9	8	PRK	Z eP	02	03	12.0	28°	H=01:57:25.0.- Southern Iran 27°9 N, 57°0 E; h about 38 Km. M=5,1 (USCGS).	
			Z eP	02	03	22.0	29°0		
			Z eSS	02	09	08.2	30°0		
			Z eiP	02	03	47.5	31°5		
10	9	ATH	LPZ e(R)	12		32.2			
			LPZ e(R)	15		42.1			
11	9	ATH	LPZ e(R)	15		42.1			
12	10	ATH	LPZ e(R)	10		14.5			
13	11	ATH	LPZ e(R)	03		08.1			

No.	Date	Station	Phase	h	m	s	D	Remarks
14	12	ATH	LPZ e(R)	18	15	.5		
15	12	ATH	LPZ e(R)	00	48	.5		
16	12	ATH	LPZ e(R)	03	03	.2		
17	12	PRK	Z eiP	18	05	08.1	86°	H=17:52:24.1.- South of Honshu, Japan 30°5' N, 140°2' E; h about 40 Km. M=6.6 (USCGS).
			Z ei			15.2		
	12	ATH	LPZ iP	18	05	21.6C	88°5'	
			LPZ iPP		08	41.2		
			LPN ei		16	12.4		
			LPN eiPPS		17	12.2		
	12	VAM	Z eP	18	05	25.8	90°5'	
18	13	PRK	Z iP	04	42	08.1C	44°5'	H=04:33:53.0.-Northern Sinkiang Prov., China 43°8' N, 87°8' E; h about 53 Km. M=6.3 (USCGS).
			Z i			48.0		
	13	ATH	SPZNE iP	04	42	25.2CSW	46°5'	
			LPZE i!!			26.1CW		
			LPN i			26.5S		
			LPZ i!PP	44		17.1		
			LPZNE i!!S	49		20.9		
			LPZ i!			33.1		
	13	VAM	Z eiP	04	42	32.0	47°	
	13	PAT	Z eiP	04	42	37.1	47°5'	
	13	VLS	Z eiP	04	42	39.4	48°	
19	13	ATH	LPZ e(R)	18	53	.1		
20	14	ATH	LPZ e(R)	04	03	.1		
21	14	VAM	Z eP	06	06	57.0	80°	H=05:54:16.7.- Near east coast of Honshu, Japan 36°8' N, 140°8' E; h about 67 Km. M=5.9 (USCGS).
	14	ATH	LPZ e(R)	06	55	34.2		
22	14	ATH	LPZ e(R)	17	32	.4		
23	15	VLS	Z eP	11	28	03.5	52°5'	H=11:18:49.9.-Central Mid-Atlantic Ridge 0.3°S, 18°7' W; h about 24 Km. M=5.6 (USCGS).
	15	VAM	Z eP	11	28	10.4	53°	
	15	ATH	LPZNE i!	11	28	18.0CNE	54°5'	
			LPZ i		31	26.2		
			LPNE i!S			56.0		
		PRK	Z eiP	11	28	35.2	57°	
24	16	VLS	Z eiP	15	33	45.0	50°5'	H=15:24:42.9.- North Atlantic Ridge 31°0' N, 41°5' W; h about 17 Km. M = 6 (USCGS).
	16	ATH	SPZ eP	15	34	03.1	53°	
			LPZ ei			03.2D		
			LPZ iPP	35		47.4D		
			LPNE eiS	41		38.0		
			LPZ i			42.4		
	16	VAM	Z eP	15	34	09.9	53°5'	
	16	PRK	Z eiP	15	34	16.6	54°5'	

No.	Date	Station	Phase	h	m	s	D	Remarks
25	16	VAM	Z eP	17	18	01.7		
	16	VLS	Z eiP	17	18	06.8		
26	18	PRK	Z eiPKP	20	19	23.1C	154°	H=20:00:19.0.-Fiji Islands region 18°8 S, 179°9 W; h about 421 Km. M=5.6 (USCGS).
			Z i!			35.0D		
	18	RHD	Z ei	20	19	25.4C		
	18	ATH	SPZ iP	20	19	29.1D		
			LPZ i			42.1		
		VAM	Z eiPKP	20	19	33.0D		
			Z ei			50.8		
		VLS	Z ePKP			34.0		
			Z i!			51.0D		
27	18	PRK	Z eiP	22	10	19.0	79°5	H=21:58:12.4.-Near east coast of Kamchatka 53°9 N, 160°7 E; h about 12 Km. M=6.0 (USCGS).
			NE ei			19.7		
	18	ATH	SPZ iP	22	10	29.3C	80°0	
			LPZ i			29.7C		
	18	RHD	Z eiP	22	10	29.4	80°0	
	18	VLS	ZN, eiP	22	10	34.1	81°5	
	18	VAM	Z ei	22	10	40.2	83°5	
28	20	ATH	LPZ e(R)	09	23	30.0		
29	20	ATH	LPZ ePKP	15	23	45.0	107°	H=15:05:39.0.- Banda Sea 7°3 S, 129°2 E; h about 132 Km. M=6.1 (USCGS).
			LPZ ei		24	03.0		
	20	VAM	Z ePKP	15	23	50.5	110°	
30	21	PRK	Z ei!P	05	05	17.8	39°	H=04:57:57.9.-Eastern Kazakh S S R 49°8 N, 78°1 E; h about 0 Km. M=5.8 (USCGS).
	21	VAM	Z eP	05	05	45.7	41°	
	21	VLS	Z ei!P	05	05	51.0	43°	
31	21	PRK	Z eiPKP	10	45	47.2	105°	H=10:31:49.7.- Banda Sea 6°1 S, 130°4 E; h about 93 Km M=6.3 (USCGS).
			Z e		49	49.5		
			Z ei		50	00.9		
	21	ATH	LPZ eiP	10	45	55.6C	106°	
			LPZ ei		46	37.0D		
			LPZ eiPKP		50	12.0C		
			LPE ei			20.0		
			LPE i		56	24.0		
			LPN eiS		57	41.2		
			LPE i		59	49.0		
	21	VAM	Z e?(P)	10	45	56.2	106°	
			Z e		50	07.8		
	21	VLS	Z eP	10	46	15.6	109°	
			Z e		47	11.8		
			Z ei			39.3		
32	22	ATH	LPZ e(R)	12	48.3			

No.	Date	Station	Phase	h	m	s	D	Remarks
33	22	ATH	LPZ e(R)	14	51.3			
34	22	ATH	LPZ eiP	20	38	21.30	86°5	H=20:25:30.4.- Andreanof Islands, Aleutian Islands
			LPZ eiPP	41	48.1			51°3 N, 179°4 W; h about
			LPN eS	48	53.1			40 Km. M=5.9 (USCGS).
			LPE ei	49	08.1			
35	23	ATH	LPZ eP	01	32	43.1		
			LPZ e	37	42.5			
			LPN e	46	08.1			
36	25	PRK	Z eP	02	08	32.3	8°	H=02:06:30.- 37°6 N,
	25	VAM	Z eP	02	08	46.9	9°5	36°6 E. (BCIS).
	25	ATH	LPZ eS	02	11	05.1	11°	
37	25	ATH	LPZ e(P)	02	11	05.1		
38	27	PRK	Z eiP	03	17	05.0	87°	H=03:04:20.6.-South of
	27	ATH	LPZ e(P)	03	17	11.0	88°5	Honsu Japan 30°6 N,
			LPZ e			29.0		140°2E ; h about 60 Km.
	27	VAM	Z e(P)	03	17	18.7	90°	M=5.2 (USCGS).
39	27	ATH	LPZ eiPP	12	23	35.60	141°5	H=12:01:51.9.- Solomon
			LPZ ei		24	26.20		Islands 9°7 S, 159°7 E;
			LPE ei			30.0		h about 51 Km. M=6.3
	27	VAM	Z eP	12	24	29.0		(USCGS).
40	29	VLS	Z eiP	09	12	25.9	82°	H=09:00:08.3.- Kurile
41	29	ATH	LPZ e(R)	18	07.2			Islands 41°1N, 146°5 E
								h about 153 Km. M=5.3
								(USCGS).

The Director

of the Seismological Institute

Prof. A. Galanopoulos

The Assistants

P. Komninakis

N. Delimbasis

J. Drakopoulos

G. Moumoulidis

ATHENS etc.

Dec. 1965

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE

SEISMOLOGICAL STATIONS NETWORK - GREECE

PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T ₀ sec.	T _g sec.	v:1	V	Drum speed -mm/m
ATHENS (ATH) (Attica)	37°58'20"N 23°43'10"E h=95 m Cretaceous Limestone	Benioff	Z,N,E	107,5	1	0,25		12,500	60
		Sprengnether	Z	11,2	15	100		1,500	30
		"	N,E	10,75	15	100		1,500	30
		Wood-Anderson	S,E			0.8	50	2,800	60
		Hiller	Z,S,E	1	0.82	0.25	10	5,000	60
		Wiechert	Z	1300	1.5		1,6	130	30.5±0.5
		"	S	1000	5,6		6,2	125	30.5±0.5
		"	E	1000	5,7		6,0	128	30.5±0.5
		Mainka	N	135	3,6		2,4	39	30 ± 32
"	E	135	3,5		5,1	63	30 ± 32		
Kritikos	N	40	2,0		5,8	4	38 ± 42		
ST. PARASKEVI (PRK) (Lesbos Island)	39°14'46"N 26°16'18"E h=100 Rhyolite	Sprengnether	Z,N,E	1.14	0.5	0.5		20,000	60
VALSAMATA (VLS) (Cephalonia Island)	38°10'36"N 20°35'24"E h=405 m Cretaceous Limestone	Sprengnether	Z,S,W	1.14	0.5	0.5		20,000	60
VAMOS (VAM) (Crete Island)	35°24'26"N 24°11'59"E h=225 Marly Limestone	Sprengnether	Z	1.14	0.5	0.5		20,000	60
		"	N-S	1.14	0.5	0.5		20,000	60
		"	E-W	1.14	0.5	0.5		20,000	60
RHODES (RHD) (Rhodes Island)	36°26'14"N 28°13'25"E h=45 m Alluvium	Sprengnether	Z	1.14	0.5	0.5		10,000	60
		"	N-S	1.14	0.5	0.5		5,000	60
		"	E-W	1.14	0.5	0.5		5,000	60
PATRAS (PAT) (Northern Peloponnesus)	38°14'11"N 21°44'48"E h=40 m Alluvium	Wiechert	Z	80	2.8		3,1	133	29-31

SHOCKS IN THE AREA OF GREECE

ATHENS

DECEMBER 1965

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N°	Date	Station	Phase	h	m	s	D	Km	Remarks
1	1	VAM	Z eiPg Z eiPn NE i E iSg	08	36	04.2 06.3 17.2 19.6	130		H=08:35:39
2	1	RHD	Z eiPg Z i E iSg	14	16	53.5 54.7 02.5	70		H=14:16:39.8.- 36°9N, 28°5 E.
		PRK	Z eiPn NE eiSn	14	17	30.1 04.4	330		
		VAM	Z ePn N ei N eiSn	14	17	40.7 21.1 23.9	420		
3	1	ATH	SPZ iPg SPE iSg	14	54	04.9C 09.5	35		H=14:53:58.0 .- 38°3 N, 23°6 E. M _L =2.9
		VLS	Z eiPn Z ei Z eiSb	14	54	38.9D 10.1 11.5	265		
		VAM	Z ePn Z e N ei N eiSn N eiSb	14	54	46.8 47.6 20.4 22.3 27.3	325		
4	1	VLS	Z ePn Z eiPy E eiSn E eiSb E eiSy	17	27	11.7 14.9C 41.0 44.3 46.2	260		H=17:26:31
5	2	RHD	Z iPn E iSn	06	46	22.4 42.9	160		H=06:45:54.4.- 37°7 N, 29°0 E.
		PRK	Z eiPn Z iPg N iSg N i	06	46	37.3 43.9 21.0 27.3	280		H=06:45:54.- 37°6 N, 29°4 E (BCIS). H=06:45:55.- 37°7 N, 29°4 E; h=41 Km. M=4.6 (USCGS).
		ATH	SPZ ei SPZ eiSn	06	47	37.0C 51.4	470		
		VAM	Z ePn Z e Z ei E eiSn E ei(Sb) E eiSy	06	47	07.1 11.2 14.1 09.0 14.9 20.2	520		
6	2	VLS	Z ePg Z eiSg	14	54	34.1 50.1	130		Felt in Thesprotia (IV at Philippatae).

Note : Magnitudes determined from Standard Wood-Anderson records are marked by M_L
Magnitudes determined from Macroseismic data are marked by M. M.-

N°	Date	Station	Phase	h	m	s	D	Km	Remarks
7	2	VAM	Z eiPn	23	06	38.0		255	H=23:05:58
			Z eiPb			39.3			
			N eiSn	07	07.2				
			E eiSy			11.5			
			N eiSg			14.9			
8	4	ATH	LPZNE	i1Pg	04	08	43.6	15	<p>H=04:08:39.7.-38°1 N, 23°7 E. The shock was felt in Attica (V at Ano-Liosia, Avlon, IV+ at Neon-Phaliron, Philothei, Taurus, Kallithea, Daphni, Aspropyrgos, Ste-Varvara, Kalamaki, Raphina, Perama, Nea-Makri, IV at Ampe-lakia, Marathon, Peuki, Koukouvaounes, Koropi, Megara, Kiphisia, Palaeon-Phaliron, Athens, Eleusis, Mandra, Amarousion, Vyrion, Stamata, Hymettos, Grammatikon, Nea-Liosia, Nea-Erythraea, Aphidnae, Keratsini, Nea-Palattia, Paeania, III+ at Piraeus, Melissa, Nea-Smyrni, III at Kapandriti), Boeotia (IV at Thebes), and on the Island of Aeghina (III at Aeghina).</p> <p>Not felt at Nea-Perammos, Vilia, St.-Stephanos, Lavteoyiki, Kalamos, Kalyvia-Thorikou, Ste-Paraskevi (of Attica) and Kypseli (of Aeghina Island).</p> <p>Macroseismic Epicenter about 38° 1/4 N, 23° 3/4 E. Area of felt shaking about 5.000 Km². M. M.=3,7*.</p>
			LPE	i1Sg			45.8		
		PRK	Z ePn	04	09	19.3	260		
			Z eiPg			25.5			
			N i(Sn)			48.3			
			N iSb			52.1			
		VLS	Z ei(Py)	04	09	24.7	265		
			N eiSy			57.1			
			E eiSg			59.8			
		VAM	E eiPn	04	09	25.4	300		
			Z ei(Py)			31.3			
			E i			55.1			
			N iSn			56.8			
			E iSb		10	03.7			
			N iSy			06.0			
9	4	VAM	Z eiPn	16	40	34.2	240	<p>H=16:39:56.2.- 34°1 N, 26°1 E. M_L = 4.7. H=16:40:01.- 34°3 N, 26°2 E (BCIS). H=16:39:58.4.- 34°2N, 26°2 E; h=21 Km. M= 4.9 (US CGS).</p>	
			Z iPy			35.3			
			Z iPg			38.8			
			N iSn		41	01.3			
			E i(Sg)			09.6			
		RHD	Z ePn	16	40	46.8	340		
			E i		41	21.2			
			E iSb			29.2			
		ATH	SPZ eiPn	16	41	05.3D	480		
			SPZ eiPy			15.0D			
			SPE ei		42	01.3			
		PRK	Z ePn	16	41	15.5	570		
			Z e			18.6			
		VLS	Z iPn	16	41	30.3	680		
			N iSn		42	38.1			
N i				44.2					

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
10	5	VLS	ZNE i1Pg NE i1Sg	17	52	43.8 46.0	10		Felt on Cephalonia Island (IV at Valsamata)
11	6	ATH	SPZ eiPn	05	34	05.3C	130		H=05:33:41.5.- 39°2 N, 23°8 E. M _L =3.8
			SPZ i1Pg			07.4D			
			SPE i			18.8			
			SPE i			22.5			
			SPN i1Sg			23.7			
		PRK	Z iPn	05	34	16.5D	225		
			Z iPg			21.2C			
			N iSb			45.1			
			N i1Sg			50.5			
		VLS	Z ePn	05	34	28.4	310		
			Z eiPb			30.7D			
			Z iPg			36.3			
Z i				38.3					
N iSn			35	03.0					
VAM	Z ePn	05	34	43.4	420				
	Z eiPb			47.0					
	NE ei		35	28.7					
	E iSg			48.2					
12	6	VLS	Z iPn	07	46	11.9D	130		H=07:45:48.3 .- 37°0 N, 20°9 E. Felt on Messenia (III+ at Kyparissia).
			Z i1Pg			14.3C			
			NE iSg			29.8			
		PAT	Z ePn	07	46	15.0	150		
			Z ei(Sn)			31.4			
			Z e			37.3			
		VAM	Z ePn	07	46	39.5	350		
			Z eiPy			45.6			
			E i		47	23.8			
			E i			29.4			
			N iSg			30.3			
		13	6	RHD	Z eiPn	21	29	57.1	
Z i						58.3			
Z i						59.4			
Z i					30	02.6			
NE iSg						10.6			
VAM	Z ePn			21	30	21.1	280		
	Z eiPy					24.3			
	Z iPg					27.7			
	N eiSb					55.5			
	E iSg				31	01.3			
PRK	Z ePn			21	30	26.7	325		
	Z eiPb					29.5			
	N ei		31	22.4					

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N°	Date	Station	Phase	h	m	s	D	Km	Remarks
14	7	ATH	SPZ eiPg	21	30	40.1D		350	
			SPE eiSg		31	21.9			
			SPE i			25.4			
		RHD	Z ePg	01	01	18.5		120	
			Z ei			20.3			
			Z ei			22.7			
			NE i			32.3			
			E iSg			34.6			
		VAM	Z ePn	01	01	42.6		300	
			Z eiPg			49.6			
			N iSn		02	15.6			
			E i			17.0			
			N iSg			26.3			
		PRK	Z ePn	01	01	48.5		350	
			Z eiPy			55.4D			
Z eiPg				58.9D					
Z ei			02	00.0D					
N iSg				44.1					
N i				47.5					
ATH	SPZ eiPg	01	02	01.6D		360			
	SPE eiPy			41.1					
	SPE i			45.2					
	SPE iSg			47.1					
15	7	RHD	Z eiPn	08	25	23.0		110	H=08:25:03.2.- 35°6 N, 27°5 E. $M_L < 4.6$
			Z ei			24.4			
			N iSn			36.0			
			N i			36.4			
			E iSg			37.0			
		VAM	Z ePn	08	25	46.5		290	
			Z ei(Pg)			52.9			
			E eiSb		26	22.0			
			E ei			29.4			
		N iSg			30.4				
PRK	Z ePn	08	26	03.4		420			
	N eiSn			49.0					
ATH	SPZE eiPn	08	26	06.3DE		430			
	SPE ei			44.0					
	SPN e			45.0					
	SPE ei			45.7					
	SPN ei			48.5					
	SPN eiSn			50.0					
16	7	VAM	Z eiPn	08	45	55.7		105	H=08:45:36.4.- 35°8 N, 25°2 E. $M_L < 3.9$
			E ei		46	07.3			
			N iSg			08.9			
		./.							

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Nº.	Date	Station	Phase	h	m	s	D	Km	Remarks		
20	12	ATH	Z	iPg					30.9		
			SPZ	ePn	06	10				37.7	460
			SPZ	ePy						49.7	
			SPN	e		11				12.9	
			SPE	e						13.9	
			SPE	eiSn						27.4	
			SPE	i						33.4	
			SPN	eiSb						34.9	
		VAM	Z	ePn	06	10				43.1	480
			Z	ePb						48.0	
			E	e		11				28.0	
			N	eSn						30.6	
		VAM	Z	ePn	04	05				11.3	105
			ZN	eiPg						11.8	
Z	i							13.8			
N	iP ₃₃ S							16.7			
E	iISg							24.6			
ATH	SPZ	ePg	04	05				52.8	330		
	SPZ/i							55.6D			
	SPE	ei		06				06.6			
	SPZ	ei						07.3			
	SPN	ei						21.6			
	SPE	i						38.8			
	SPN	ei						42.2			
	SPN	ei						52.8			
VLS	Z	e?(Pn)	04	05				51.0	(405)		
	N	eSn		06				34.2			
PRK	Z	ePn		04	06			06.0	525		
21	13	PRK	ZN	iPn	00	07			43.3	115	
			E	iIS ₂₃ P					47.0		
			E	i ₂₃ P					52.4		
			N	i					54.8		
			N	iSn					57.1		
			E	iISg					58.9		
		ATH	SPZ	eiPn		00	07			51.6C	170
			SPZ	eiIPg						57.0D	
			SPZ	i			08			00.2	
			SPN	iSg						14.5	
SPE	ei						14.9				
SPN	i						21.4				
SPE	ei						23.1				
SPE	i						24.2				
VAM	Z	ePn		00	08			14.9	350		
	E	eiSg			09			05.7			

H=04:04:52.- 35° 1/4 N, 23° E.

H=00:07:22.4 .-38°3 N, 25°7E.
M_L < 3.4

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			N			08.1			
		VLS	Z	ePn	00	08 25.8	445		
22	13	ATH	SPZ SPE	iPg iISg	11	19 55.6D 59.0	25		H=11:19:50.7.-38°0 N, 24°0E. M _L = 2.7 .
		VAM	Z	ePn	11	20 34.3	285		Felt in Attica (IV à Paeania).
			Z	e		41.9			
			Z	e		43.2			
			E	e	21	03.2			
			E	e(Sy)		10.9			
			E	eiSg		15.4			
		VLS	Z	ePn	11	20 36.2	300		
			Z	e		40.0			
23	13	VLS	Z	ePn	13	26 49.0	125		H=13:26:27.- West coast of Peloponnesus.
			Z	eiPg		50.7			
			Z	ei		52.6			
			N	ei	27	05.6			
			E	eiSg		06.2			
			E	ei		07.3			
		VAM	Z	ePn	23	27 14.1	315		
24	13	VLS	Z	eiPn	17	44 44.2D	265		H=17:44:03.4.- 40°4 N, 19°3E. M _L < 4.7 . H=17:44:07.-
			Z	iPy		48.1			
			Z	iPg		50.8			
			Z	i	45	00.3			40°0 N, 19°3 E. (BCIS).
			E	ei		13.2			H=17:44:12.- 40°3 N, 20°0E; h=33 Km. M=4.5 (USCGS).
			N	eiSn		13.9			
			E	ei		15.3			
			E	ei(Sb)		16.3			
			N	eiSy		19.6			
			N	eiSg		23.4			
		PAT	Z	e	17	44 57.0	310		
			Z	e		45 08.0			
			Z	eiSg		35.8			
		ATH	SPZ	ePn	17	45 07.8	450		
			SPZ	e		09.0			
			SPZ	ei		11.2			
			SPZ	i		19.7			
			SPZ	i		22.0			
			SPN	iSn		54.8			
			SPE	i		55.5			
			SPE	iSb	46	03.6			
			SPN	i		16.0			
		PRK	Z	eiPn	17	45 27.7	605		
			Z	ei		32.7			
						./.			

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N°	Date	Station	Phase	h	m	s	D	Km	Remarks			
25	15	VAM	Z	ePn	17	45	36.7	680				
			E	e		46	43.9					
			N	eSn			44.9					
			N	ei			50.7					
		RHD	Z	ePn	04	17	03.3			106	H=04:16:46.4.-35.9 N, 27°2 E.	
			Z	eiS ₃₃ ^P			06.6					
			Z	ei!			10.5					
			E	ei!			11.6					
			NE	eiSn			14.6					
			NE	iSg			16.2					
		VAM	Z	ePn	04	17	28.0	275				
			Z	eiPg			34.5					
			N	eiSg		18	09.2					
			N	ei			18.6					
		PRK	Z	ePn	04	17	42.7			385		
26	15	PRK	Z	i!Pn	04	45	32.9	115	H=04:45:12.3.-			
			NE	i!Sg			47.9					
27	16	VAM	ZNE	i!Pg	12	33	05.8	95	Northwestern of Turkey. H=12:32:47.- 35° N, 23° E. M _L < 4.3 .			
			E	i!			16.8					
			N	i!Sg			18.1					
		ATH	SPZ	ePn	12	33	41.1			360		
			SPZ	ePb			44.1					
			SPN	ei			45.9					
			SPZ	ei			48.7					
			SPE	e		34	10.3					
			SPN	ei			18.8					
			SPN	eiSn			20.0					
	VLS	Z	ePn	12	33	43.1	380					
		N	eSn		34	23.6						
		N	ei			26.2						
28	17	ATH	SPZ	eiPn	00	50	03.7D	130	H=00:49:40.2.- 36°9N, 23°2 E. M _L < 3.2 .			
			SPZ	ei			07.2D					
			SPZ	ei!			12.8D					
			SPNE	ei(S ₃₃ ^S)			19.5					
			SPE	eiSg			21.2					
			SPE	ei			24.0					
			SPN	ei			24.6					
			VAM	Z	ePn	00	50			07.8	165	
				Z	ei					09.6		
				Z	ei					11.9		
		Z	e			14.3						
		E	eiSg			30.9						
		E	ei			35.4						
		N	ei			37.1						
		E	ei			40.2						
		VLS	Z	ePn	00	50	21.2	265				
			Z	ei		./.	35.8					

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N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks	
29	17	PRK	Z ePn	00	50	35.1	375			
		VLS	Z iPg E iSg	04	48	07.6 13.5	50		H=04:47:58.4. -38° 1/2 N, 21° E.	
		PAT	Z ePg Z eiSg	04	48	11.2 26.4	70			
		ATH	SPZ e(Sn)	04	49	05.7	(240)			
30	19	PRK	Z e(Sg)	20	02	28.0			Felt in Chalkidike (IV+ at Arnaea).	
31	20	PRK	ZNE i!Pn	00	08	38.00	150		H=00:08:11.6. 40°1 N, 24°8 E. An=130 μ Tn=2 s.	
		ATH	LPZNE i!Pn	00	08	49.6 ^{GSW}	240		Ae=210 μ Te=2 s. M=5.9	
			LPZ	e!i		09	20.6			H=00:08:11.- 39°9 N, 25°0 E. M= 5 3/4 - 6
			LPE	iSg			23.8			(BCIS). H=00:08:15.2.-
			LPN	e!i			30.4			40.2 N, 24.8 E; h=33Km. M=5.3 (USCGS).
		PAT	Z ePn	00	09	02.0	340			Felt on the Islands
			Z ei			09.6				of Thasos (V at Kastron,
			Z eiSb			43.6				Panaghia, Potamia, IV+ at
		VLS	Z ePn	00	09	12.2	420			Limenaria, Theologos, Tha-
			Z ei!(Pb)			17.9				sos, Prinos), Lemnos (IV+
			Z ei			22.9				at Myrina, Kontopoulion,
			E i			34.5				Moudron, IV at Kontia),
			N ei			37.8				Samothraki (IV+ at Samo-
			N i			41.8				thraki), Lesbos (IV at
	N i		10	06.9				Kalloni, III+ at Kerami-		
	E i			15.4				on, Ippios, Polychnitos,		
	N i(Sg)			19.0				Stypsi, Petra, Kliou,		
RHD	Z ePn	00	09	22.4	500			Philia, III at Antissa,		
	Z e			27.2				Palaeochori), Chios		
	ZN eiPy			33.3				(III at Volissos), St-		
	E ei			36.5				Eustratios (IV at St-		
	Z ei			39.5				Eustratios), Skyros (III		
	E i			50.8				at Skyros), Skopelos (III		
	N ei			54.5				at Skopelos), and Skia-		
	N ei		10	09.2				thos (II+ at Skiathos).		
	N i			18.9				The shock was farther		
	N i(Sg)			42.9				felt in Thrace and Macedo-		
VAM	Z ePn	00	09	23.7	510			nia particularly in the		
	Z ei			26.8				regions of Evros (V+ at		
	Z eiPb			29.0				Avantos ,V at Sykorachi ,		
	Z i			40.7				Petroton, Phylakton, IV+		
	Z i			53.7				at Alexandroupolis, Hel-		
	E i		10	00.0				linochori, IV at Asprone-		
	N i			02.3				ri, Pentalophos, Pherrae;		
	N i			11.4				Mikron-Derion, Mani, Ar-		
	E iSn			16.6				danion, Didymotichon,		
	E i			21.8				Prangion, III+ at Anthia,		
								Soufli, Phylakton, Ormenion,		

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No.	Date	Station	Phase	h	m	s	D	Km	Remarks
			E	1		28.8			<p>Protoklision, Peplon, Loutron, Lavara, Zone, Metaxades, III at Kyprinos, Di-kaea, Tycheron, Paliouri, Thourion, Rizia, Amorion, II+ at Elaphochori), Rhodope (V at Proskynites, Aeghiros, Thrilorion, IV+ at Krovyli, IV at Miranae, Arisvi, Komotini, Lophari, Poly-anthos, Iasmos, Pagairia, Asomatoe, Organi, Ariana, III+ at Maronia, Sappae, Amvrosia, Amaranta, III at Kosmion, Xylagani, II+ at Pandrosos), Xanthi (IV+ at Neochori, Gerakas, Orae-on, Daphnon, Stavroupolis, Mandra, Eras-mion, Diomidia, IV at Genisea, Kotyli, Kimeria, Polysiton, Nea-Kessani, Satrae, Therma, Xanthi, Evialon, Evmoeron, III+ at Exochi, III at Koutson, Tokotae, II+ at Myki), Kavala (V+ at Nea-Karvala, Moustheni, IV+ at Lekani, Chrysoupolis, Perni, Zy-gos, Georghiani, Amisiana, Aghiasma, Nea-Peramos, Mesoropi, IV at Sidirocho-ri, Eleutheroupolis, Kipia, Kechrokam-pos, Kavala, Nikisiani, Philipoe, Chry-sochori, Eleutherae, Podochori, Domatia, III+ at Kryoneri, Zarkadia), Drama (V at Choristi, Kato-Nevrokopi, IV at Kalliphyton, Tholos, Platania, Doxaton, Adriani, Photolivos, Kallithe-a, Nikiphoros, Volax, III+ at Leukoghi-a, Kyria, St.-Athanasios, Kalos-Agros, III at Koudounia, Perithori, Ochyon), Serrae (IV+ at Emmanouel-Papas, Ali-strati, Proti, Angista, Palaeokomi, Draviskos, IV at Terpni, Nea-Zichni, Achladochori, Podolivos, Daphnoudi, Tholos, Provata, III+ at Chryson, Neo-Skopos, Karperi, Nigrita, III at Eu-karpia, Strimonikon, Sidirokastron, St.-Pnevma, Toumpa), Chalkidike (IV+ at Arnaea, St.-Niko-laos, IV at Hierrisos, Vrastama, Kry-mni, Palaeochori, Megali-Panaghia, III+ at Taxiarchis, III at Polyghyros, II+ at Neochori), Salonica (IV+ at Skepaston, Stavros, Kalamoton, IV at Sochos, Vrasna, III+ at Zagliveri, Arethousa, Philadelphia, Vasilika, III at Nea-Madytos, Kato-Scholari, II+ at Kryoneri), Kilkis (IV at Plaghia, III at Megali-Vrysi) and southwards in Magnesia (IV+ at St.-Lavrentios, IV at Seskoulon, Promyri, Volos, III+ at Euxinoupolis, Agria, Zagora, III at Drakia, Kanalia, Ano-Lechonia). Not felt at Agra, Vatousa, Parakoe-la, Eresos, Skopelos, Skoutaros (of</p>
			N	1		29.0			
			N	1		38.2			

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N°	Date	Station	Phase	h	m	s	D	Km	Remarks
									Lesbos), Avlonari, Psachna, Politika, (of Euboea), Eratini, Aratos, Strymai, Sostis, Kechron (of Rhodope), Kavyli, Orestias, Nea-Vyssi, Kastaneae, (of Evros), Pentapolis, Kerkini, Skotousa, Phlavouron, Ammoudia, Rhodopolis (of Serrae), Nea-Kalokratia, Nea-Moudania, Nea-Trigla, Vavdos, (of Chalkidike), Chortiatis, Lagada, Askos, Sindos, Asiros, Epanomi, Nea-Apollonia, Thermi, (of Salonika), Sourpi, Platanos, Almyros, Trikeri, Pteleos, Stephanoviki, Keramidi, Velestinon, (of Magnesia), Aghioneri, Vaphiochori, Axiooupolis, Pedinon, Goumenitsa, Kilkis, Europos, Polykastron, (of Kilkis).
									Area of felt shaking about 140.000 Km ² , M. M. = 5.8*
32	20	PRK	Z	i11Pn	00	31	19.6	150	H=00:30:53.4 . 40°N, 24°9 E. Aftershock of Dec. 20
			N	111			21.5		
			N	111Sg			41.9		H=00:30:55.- Aftershock of Dec. 20 (BCIS). H=00:30:56.- 40°2N, 24°9 E ; h=33 Km. M=4.3 (USCGS).
		ATH	SPZNE	iPn				245	Felt on the Islands Thasos (III+ at Limenaria) and Lemnos (II+ at Myrina), and in the regions of Kavala (III+ at Kavala, III at Lekani) and Drama (III at Platania).
					00	31	32.3	CSW	
			SPZ	i			37.5		
			SPE	iSn	32		02.2		
			SPNE	i			09.2		
			SPN	i			11.2		
		PAT	Z	ePg	00	31	56.5	350	
			Z	eSn	32		24.5		
		VLS	Z	ePn	00	31	54.9	425	
			Z	ei	32		06.6		
			Z	ei			13.2		
			Z	ei			21.7		
			N	ei(Sn)			37.9		
			N	ei			55.4		
			E	ei	33		02.4		
		VAM	Z	ePn	00	32	05.9	515	
			E	ei	33		34.3		
			N	ei			42.5		
		RHD	E	e1Sg	00	33	19.6	490	
33	20	PRK	Z	eiPn	01	05	34.00	150	H=01:05:07.- 40° N, 25° E. Aftershock of Dec. 20
			Z	1Pg			35.4		
			N	iSn			53.4		
			E	11			56.3		
			N	11			56.6		

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No.	Date	Station	Phase	h	m	s	D	Km	Remarks		
34	20	ATH	SPZ	eiPn	01	05	44.7C	235	H=03:30:01.- 40°N, 25°E. Afterschock of Dec. 20.		
			SPZ	ei			51.7D				
			SPE	ei			58.9				
			SPE	ei	06		22.2				
			SPE	i			24.9				
		VLS	Z	ePb	01	06	15.4	440			
			Z	ePy			19.7				
			Z	ePg			25.9				
			N	e			27.4				
			Z	eSn			56.9				
		35	20	PRK	Z	eiPn	03	30		26.4C	155
					Z	i				27.9	
E	ii						48.1				
N	iiiSg						49.4				
ATH	SPZ			ePn	03	30	37.7	235			
	SPZ			eiPb			39.1D				
	SPZ			ei			43.2C				
	SPZ			eiPg			44.2D				
	SPE			i	31		14.5				
	SPN			i			15.4				
	SPE			i			16.4				
	SPN			i			22.0				
	SPE	i			23.5						
SPN	i			24.6							
VLS	Z	eiPg	03	31	19.7	440					
	Z	ei			26.1						
PRK	Z	eiPn	06	09	52.4C	150					
	N	iSg	10		13.7						
ATH	SPZ	eiPn	06	10	04.3C	235					
	SPZ	i			10.5C						
	SPE	i			30.8						
	SPN	eiSb			32.8						
	SPE	i			40.1						
	SPN	i			40.8						
VLS	Z	ePn	06	10	27.7	420					
	Z	e			36.2						
	Z	ei			44.4						
VAM	Z	eiPg	06	10	59.5	515					
PRK	Z	ePn	07	04	35.3	145					
	N	iiSg			56.4						
ATH	SPZ	ePn	07	04	47.6	235					
	SPZ	ePb			49.6						
	SPZ	ei			53.2C						
	SPN	e	05		07.3						

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No.	Date	Station	Phase	h	m	s	D	Km	Remarks
			SPZ eSg			21.0			
			SPNE ei			23.2			
37	20	PRK	Z	ePn	12	38	12.7	150	H=12:37:47.8.- 40° N, 24°9 E. Afterschock of Dec. 20 M _L < 3.8
			NE	iSg			33.8		
		ATH	SPZ	ePg	12	38	29.6	235	
			SPZ	e			30.5		
			SPZ	e			35.3		
			SPZ	e			39.5		
			SPN	eiSn			51.0		
			SPZ	eSy			55.8		
			SPNE	ei	39		02.0		
			SPZ	ei			03.0		
			SPN	i			04.9		
		VLS	Z	ePb	12	38	54.0	425	
			Z	ePy			58.3		
			Z	ePg	39		03.0		
38	20	PRK	Z	eiPn	20	06	47.6	150	H=20:06:22.3.- 40° N, 25° E. Afterschock of Dec. 20 M _L < 3.7
			N	ei			52.8		
			N	iSg	07		09.4		
		ATH	SPZ	ePg	20	07	05.5	240	
			SPZ	ei			36.2		
			SPN	ei			37.2		
			SPZ	ei			38.7		
		VLS	Z	e	20	07	26.6	435	
			Z	ePg			40.3		
39	21	PRK	Z	eiPn	19	36	59.8	150	H=19:36:34.4.- 39°9 N, 24°7 E. M _L < 3.9
			Z	iP ₂₃ P	37		01.9		
			N	iSg			22.1		
		ATH	SPZ	eiPn	19	37	17.4D	280	H=19:36:7.- 40°0 N, 25°0 E (BCIS).
			SPN	iSn			48.7		
			SPNE	iSy			54.6		
		VLS	Z	ePn	19	37	34.0	410	
			Z	ePb			37.9		
		VAN	Z	ePn	19	37	45.5	505	
40	22	RHD	Z	eiPg	08	44	02.1	95	H=08:43:44.5.- 37°1 N, 28°1 E. M _L < 4.5
			E	eiSg			13.6		
		PRK	Z	ePn	08	44	27.9	285	
			Z	eiPy			32.5		
			Z	eiPg			35.5		

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N ^o .	Date	Station	Phase	h	m	s	D	Km	Remarks
		VAM	Z ePn Z ePb	08	44	42.4 47.2	400		
		ATH	SPZ eiPn SPZ eiPg SPZ ei(Sy)	08	44	42.7 55.2 45 36.2	400		
41	24	ATH	SPZ iPg SPZ iSg	01	10	10.2C 20.7	86		H=01:09:54.2.- 38°4 N, 22°8 E.
		VLS	Z eiPn Z eiPy Z iPg N eiSy N eiSg	01	10	26.4 27.5 28.8 52.0 52.7	195		
		PRK	Z ePn Z eiPg N eiSy	01	10	40.5 48.5 11 20.5	305		
		VAM	Z ePn Z ePb Z eiPy E ei(Sn) E ei(Sg)	01	10	41.7 45.9 48.4 11 26.1 34.0	315		
42	24	PRK	Z iPg E eiSg	18	46	53.4 59.9	50		
43	25	PRK	Z i1Pn E 1P ₃₃ ^P N iPg N i1Sg	12	15	55.7 57.3 58.3 16 16.5	145		H=12:15:31.2.- 39°8 N, 24°7 E. M _L = 4.3 H=12:15:28.- 39°8 N, 24°8 E. (BCIS).
	25	ATH	SPZ eiPn SPZ eiPb	12	16	06.9C 08.6	225		
		VLS	Z ePn N eiSy	12	16	30.1 17 26.0	405		
		VAM	Z eiPn	12	16	41.0	495		
44	25	VLS	Z iPn E iPg E iSn E iS ₂₃ ^S	15	10	51.6 53.2 11 06.1 07.0	120		H=15:10:30.0.- 37°2 N, 20°8 E. M _L = 4.1 H=15:10.6.- About 37° 1/2 N, 21° 1/2 E. (BCIS). H=15:10:29.4.- 37°3 N, 21°1 E; h=5 Km. M=4.3 (USCGS).
		ATH	SPZ ePn	15	11	11.6	270		
		VAM	Z ePn	15	11	23.9	365		
		PRK	Z ePn Z eiPg	15	11	40.9 12 03.1	525		

No.	Date	Station	Phase	h	m	s	D	Km	Remarks
45	26	PRK	Z E	iPg iSg	14	58	32.7 43.7	90	
46	26	VLS	Z NE	iPg iSg	16	13	48.5 53.7	40	
47	26	VLS	Z NE	iPg iSg	20	43	41.7 47.3	40	
48	27	VAM	Z N	eiPn eiSn	01	12	17.2 47.6	270	H=01:11:37.- 35°1/4 E, 21°0 E .
		VLS	Z N	ePn eSn	01	12 13	25.2 00.2	320	
		ATH	SPZ SPZ	ePn eiPb	01	12	38.0 44.7	420	
49	27	VAL	Z	e(Pn)	03	23	34.4		
		ATH	SPZ	e(Pn)	03	23	34.8		
50	27	VAM	Z Z	eiPg eiSg	23	37	49.7 57.8	65	
		ATH	SPZ	ePn	23	28	16.7	285	
51	28	PRK	Z	iPg	02	36	28.7		
52	28	ATH	SPZ SPZ SPE SPE	iPn eiPb eiSb iSg	08	47	06.00 08.1 41.2 47.3	275	H=08:46:23.8.- 37° 1/2 N, 26° 3/4 E. M _L < 3.9
		VAM	Z Z Z N E	ePn eiPb eiPy eiSn eiSg	08	47 48	14.3 17.6 19.9 50.8 05.4	340	Felt on Samos Island (IV+ at Spatharia, IV at Vourliotes, Pythago- rion).
		VLS	Z	ePn	08	47	43.3	570	
53	29	VLS	Z Z	ePn eiSg	20	28	15.2 31.9	115	Felt in Akarnania (IV+ at Perdikaki).
54	30	VLS	Z NE	eiPg eiSg	05	30	05.4 10.9	40	
55	30	ATH	SPZ SPE	ePn eiSn	10	04 05	45.3 03.5	140	H=10:04:21.2.- 36°8 N, 23°4 E. M _L < 3.2

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Nº.	Date	Station	Phase	h	m	s	D	Km	Remarks
56	31	VAM	Z	eiPn	10	04	50.1	170	
			E	eiSg		05	12.7		
		VLS	Z	ePn	10	05	05.2	290	
			Z	eiPb			07.2		
			Z	eiPy			09.7		
			Z	eiPg			12.7		
			E	eSg			41.7		
		VLS	Z	eiPg	22	43	39.2	100	
			NE	eiSg			52.8		
		ATH	SPZ	eiPn	22	44	00.00	260	
SPZ	ei(Pg)				05.1				
PRK	Z	ePn	22	44	26.1	465			
VAM	Z	ePn	22	44	32.0	510			

H=22:43:19.8.-
 39°1 N, 20°9 E.
 M_L = 4.1 .

LONG DISTANCE SHOCKS

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No.	Date	Station	Phase	h	m	s	D	Remarks
1	3	ATH	LPZ e(R)	08	06.1			
2	3	PRK	Z eiP	21	24	19.80	34°5	H=21:17:33.6.- Hindu Kush region 36°3 N, 69°5 E; h=19 Km M=5.5 (USCGS).
		ATH	SPZ eiP	21	24	39.20	36°5	
			LPZ e			39.6		
		VAM	Z eiP	21	24	41.10	37°0	
		VLS	Z eP	21	24	57.1	39°0	
3	5	PRK	Z eiP	18	27	19.20	84°0	H=18:14:50.2.- Near Islands Aleutian Islands 52°6 N, 173°2E; h=36 Km. M=5.5 (USCGS).
		ATH	LPZ eP	18	27	27.0	85°5	
			LPZ e		30	15.2		
			LPN eS		38	11.2		
		VLS	Z eP	18	27	30.6	86°0	
		VAM	Z eP	18	27	40.1	88°5	
4	6	ATH	LPZ ei(P)	11	49	29.30	110°	H=11:34:53.7.- Off coast of Jalisco, Mexico 18°9N, 107°1 W; h=37 Km. M=5.9 (USCGS). M = 6 3/4 (Pas.).
			LPZ e		52	20.3		
			LPZ eiPKP		53	34.9		
			LPE eiSKKS	12	01	12.1		
			LPE i		02	53.3		
			LPZ i			56.9		
5	6	ATH	LPZ ePP	19	10	54.7	88°5	H=18:54:25.7.- Andrianof Islands, Aleutian Islands. 51°6N, 178°5 E; h=72 Km. M=4.4 (USCGS).
			LPZ e		16	48.7		
6	7	ATH	LPZ e(R)	11	45.1			
7	7	PRK	Z eiPKP	22	37	48.50	118°0	H=22:19:14.8.- East new Guinea region 6°4 S, 146°3 E; h=109 Km. M=6.4 (US- CGS)
		ATH	LPZ e pPKP	22	39	16.6	119°5	
		VAM	Z e PKP	22	37	54.6	120°5	
		VLS	Z ei PKP	22	37	57.6	122°	
8	8	PRK	Z e	18	25	15.5	161°0	H=18:05:26.1.- Off E. coast of N. Islands, N. Z. 37°1 S, 177°5 E; h = 165 Km. M = 5.8 (USCGS).
			Z ei pPKP			34.70		
		VAM	Z e	18	25	20.6	161°5	
			Z e pPKP			40.4		
		ATH	LPZ eiPKP	18	25	02.00	162°0	
			LPZ ei			42.0		
	SPZ ei			42.3				
	LPZ eiPP		29	23.6				
	VLS	Z e pPKP	18	25	54.7	165°0		

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No.	Date	Station	Phase	h	m	s	D	Remarks
9	9	ATH	LPZ eP SPZ e SPZ e SPZ e LPZ eS	03	05	04.4 04.5 19.7 34.7 16.8	82°0	H=02:52:43.8.- Prince Edward Islands region. 43°5 S, 39°0 E ; h=33 Km. M=5.3 (USCGS).
10	9	ATH	LPZ eiP LPZ iPP	06	21	45.1C 08.1C	103°	H=06:07:48.6.-Guerrero , Mexico 17°3 N, 100°0 W; h=57 Km. M=6.0 (USCGS).
11	9	PRK	Z ePKP	13	31	34.9	149°0	H=13:12:55.5.
		RHD	Z ePKP	13	31	37.8	149°5	Fiji Islands 18°0 S , 178°2W ; h=650 Km . M=5.6 . (USCGS).
		ATH	SPZ eiPKP SPZ ei SPZ ei	13	31	39.9D 45.5C 52.7C	150°5	
		VAM	Z ePKP	13	31	45.8	151°5	
		VLS	Z ePKP Z e	13	31	47.9 02.4	152°0	
12	10	ATH	LPZ e(R)	22	28.2			
13	13	VLS	Z eiP	05	57	52.8C	86°	H=05:45:12.7.- Kurile Islands region 44°1 N, 150°2 E ; h=33 Km . M=5.4 (USCGS).-
		VAM	Z eP	05	57	58.5	87°	
14	13	PRK	Z eiP	11	04	29.7	83°	H=10:52:08.5.- Kurile Islands region
		ATH	LPZ iP SPZ i SPZ i LPZ eiS	11	04	39.5C 39.7D 52.4 05.9	85°	44°7 N, 150°1 E ; h=35 Km. M=5.7 (USCGS).
		PAT	Z eP Z ei	11	04	44.4 56.8	86°	
		VLS	Z eP	11	04	44.8	86°	
		RHD	Z e?(P)	11	04	46.5	86°	
		VAM	Z eP	11	04	49.6	86°5	
15	13	PRK	Z e	14	58	32.0	83°	H=14:46:10.2.- Kurile Islands region
		VLS	Z ei	14	58	48.7D	86°	44°7 N, 150°2 E ; h=33 Km. M=5.4 (USCGS).
		VAM	Z eP Z ei	14	58	51.7 53.9D	87°	
16	13	ATH	LPZ ei LPZ ei	15	19	25.9D 22.1D		
17	13	VLS	Z eiP Z ei	22	50	15.4C 59.5	86°	H=22:37:37.2.- Kurile Islands region 44°7 N,

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N ^o .	Date	Station	Phase	h	m	s	D	Remarks
								150°0 E; h=33 Km. M=5.0 (USCGS).
18	13	PRK	Z eP	23	05	40.4	83°	H=22:53:17.1.- Kurile Islands 44°7 N, 149°9E; h=33 Km M=5.0 (USCGS).
		VLS	Z eP	23	05	55.3	85°	
		VAM	Z eP	23	06	02.2	86°	
		ATH	LPZ eS	23	05	17.5	85°	
19	14	ATH	LPZ e(R)	18	24	23		
20	15	ATH	LPZ e(R)	02	57	18		
21	15	ATH	LPZ eiP	23	18	58.0C	98°	H=23:05:20.7.- South of Panama 7°5 N, 82°2 W; h=15 Km. M=6.0 (USCGS). M=6 3/4 (Pas.).
			LPZ ei	20	43.2			
			LPZ eiPP	22	56.0			
			LPE ei SKS	29	35.6			
			LPN eiSKKS	30	19.8			
22	16	PRK	Z eiPKP ₁	22	36	59.3	145°	H=22:17:19.8.- Loyalty Islands region 23°0 S, 171°8 E; h=24 Km. M=4.6 (USCGS).
		VAM	Z eiPKP ₁	22	37	07.3	150°	
		VLS	Z eiPKP ₁	22	37	10.9	151:5	
23	16	PRK	Z eiPKP	23	25	26.9C	154°	H=23:06:42.4.- Fiji Islands region 17°5 S, 179°1 W; h=573 Km. M=5.5 (USCGS).
			Z ei			33.3		
		VLS	Z eiPKP	23	25	32.9C	154°	
			Z e			27 27.3		
		ATH	SPZ eiPKP	23	25	33.8C	154°	
		VAM	Z ePKP	23	25	37.7	155°	
			Z e			52.2		
24	18	VLS	Z eiP	08	43	24.1D	85°	H=08:30:45.8.-Kurile Islands 44°7N, 149°9E; h=33 Km. M=5.5 (USCGS).
		VAM	Z eP	08	43	27.6	86°	
25	18	VLS	Z eiP	13	33	02.3D	85°	H=13:20:23.4.-Kurile Islands region 44°3 N, 150°2 E; h=36 Km. M=5.1 (USCGS).
		VAM	Z eP	13	33	05.5	86°	
		ATH	LPZ eS	13	43	23.0	85°	
26	19	VLS	Z iPn	09	15	25.6D	4°	H=09:14:18.6 39° 1/2 N, 15° 3/4 E.
			N eiSn	16	11.1			
			E e		13.1			
			E ei		14.1			
		VAM	Z ePn	09	16	12.7	7:5	
		PRK	Z ePn	09	16	16.6	7:5	

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N°.	Date	Station	Phase	h	m	s	D	Remarks
27	19	VAM	Z eP	22	19	05.7	85°	H=22:06:32.7 Mid-Indian Rise 32°2 N, 78°8 E; h=33 Km. M=5.8 (USCGS).
		PRK	Z eP	22	19	11.9	86°	
			Z e			15.7		
		VLS	Z eP	22	19	23.6	87°	
		ATH	LPZ ei	22	19	35.2D	86°	
			LPE eiS		29	50.2		
28	20	VLS	Z eiP	07	25	00.7C	83°	H=07:12:33.7.-Kurile Islands 50°4 N, 156°6 E; h=33 Km. M=5.1 (USCGS).
		VAM	Z ei(P)	07	25	08.5	85°	
29	21	PRK	Z eP	00	44	01.6	78°5	H=00:32:00.7.- Near east coast of Kam- chatka. 52°6 N, 158°8 E; h=67 Km. M=5.0 (USCGS).
		VLS	Z iP	00	44	12.7C	80°5	
		VAM	Z eP	00	44	23.8	82°	
30	22	PRK	Z eP	00	41	00.5	80°5	H=00:28:46.2.- Off east coast of Kam- chatka. 52°4 N, 160°5 E; h=5 Km. M=5.1 (USCGS).
		ATH	LPZ eP	00	41	09.2D	83°	
			LPE eiSS		57	34.2		
		VLS	Z eP	00	41	15.1	84°5	
		VAM	Z eP	00	41	21.8	85°0	
31	22	VLS	Z eP	07	39	44.8	83°5	H=07:27:20.8.- Off east coast of Kam- chatka. 52°5 N, 160°2 E; h=33 Km. M=5.1 (USCGS).
		VAM	Z eP	07	39	50.9	85°	
32	22	ATH	LPZ e(R)	08	14	28		
33	22	PRK	Z eP	19	53	42.7	82°	H=19:41:23.0 Kodiak Island region 58°4 N, 153°0 W; h=50 Km. M=6.5 (USCGS).
		VLS	Z eiP	19	53	48.3C	83°	
		ATH	LPZ iP	19	53	48.5C	83°	
			LPE eiS	20	04	05.5		
			LPE ei!SKS			08.5		
		VAM	Z eP	19	54	02.0	85°5	
			E eiS	20	04	20.4		
34	23	VLS	Z iP	15	30	25.8C	5°	H=15:29:07.- Tyrrhenian Sea 40°5 N, 14°9 E; h=320 Km. (BCIS).
			N eiS		31	26.8		
		ATH	SPZ iP	15	30	53.8C	7°5	
			SPNE i!S		32	19.5		
		PRK	Z eP	15	31	12.5	9°	
35	23	PRK	Z eiP	20	59	45.2	80°	H=20:47:37.5.- Southeastern Alaska, 60°5 N, 141°0 W; h=33 Km. M=5.4 (USCGS).
		VLS	Z eiP	20	59	48.5C	80°5	

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Nº.	Date	Station	Phase	h	m	s	D	Remarks
		ATH	LPZ e1P	20	59	50.70	81°	
			LPE e1ScS	21	10	17.7		
			LPN e1PPS	11	01.9			
		VAM	Z eP	21	00	04.4	84°	
36	23	ATH	LPZ e(R)	22	58	14.2		
37	25	PRK	Z e1PKP	03	16	39.0	148°	H=02:57:57.9.- Fiji Islands region. 18°0 S, 179°2 W; h=625 Km. M=5.5 (USCGS). M=6 (Pas).
			Z eipPKP	19	07.3			
		RHD	Z e1PKP	03	16	40.7	148°5	
		ATH	SPZ e1PKP	03	16	43.3	149°	
		VAM	Z e1PKP	03	16	47.3	150°	
			Z eipPKP	19	14.4			
		VLS	Z e1PKP	03	16	48.8	150°5	
38	25	ATH	LPZ e1(P)	10	22	16.1	D	
39	26	PRK	Z epPKP	04	12	29.0	123°	H=03:53:16.6.- New Britain region, 5°5 S, 151°4 E; h=133 Km. M=6.0 (USCGS)
			VAM	Z ePKP	04	13		
		ATH	LPZ e1PP	04	13	39.6	124°	
		VLS	Z ePKP	04	12	04.7	125°	
40	27	ATH	SPZ e(P)	18	10	35.1		
41	28	ATH	LPZ e1P	20	45	31.90	91°	H=20:32:31.-
			LPZ e1PP	49	18.3			
		VAM	Z eP	20	45	40.1	93°	
		VLS	Z e1P	20	45	41.2	93°5	
42	30	VLS	Z eP	02	19	19.8	100°	H=02:05:39
		ATH	LPZ e1P	02	19	21.20	100°5	
			LPN eSKS	30	04.8			

The Director
of the Seismological Institute
Prof. A. Galanopoulos
The Assistants
P. Komninakis
N. Liapis
J. Drakopoulos
G. Moumoulidis.