International Seismological Centre From the ISC collection scanned by SISMOS

ATHENS etc (Network)
Sept. 1965.

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE

SEISMOLOGICAL STATIONS NETWORK - GREECE

PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T_s sec.	T_g sec.	V:1	V	Drumm speed mm/min.
ATHENS	37°58'20"N	Benioff	Z	107.5	1	0.25		12,500	60
(ATH)	23°43'0E	"	N-S	107.5	1	0.25		12,500	60
(Attica)	h=95m	"	E-W	107.5	1	0.25		12,500	60
	Cretaceous	Sprengnether	Z	11.2	15	100		1,500	30
	Limestone	"	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	38°14'11"N	Wiechert	Z	80	2.8		2.9	130	29 - 31
(PAT)	21°44'48"E								
(North Peloponnesus)	h=40m								
	Alluvium								
ST.PARASKEVI	39°14'46"N	Spengnether	Z	1.14	0.5	0.5		20,000	60
(STP)	26°16'18"E	"	N-S	1.14	0.5	0.5		20,000	60
(Lesbos Island)	h=100m	"	E-W	1.14	0.5	0.5		20,000	60
	Rhyolite								
VALSAMATA	38°10'36"N		Z	1.14	0.5	0.5		20,000	60
(VAL)	20°35'24"E	"	N-S	1.14	0.5	0.5		20,000	60
(Cephalonia Island)	h=405m	"	E-W	1.14	0.5	0.5		20,000	60
	Cretaceous Limestone								

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SHOCKS IN THE AREA OF GREECE

ATHENS — SEPTEMBER 1965 —

N°	Date	Station	Phase		h	m	s	D Km	Remarks
1	Sept. 2	STP	ZNE	eiPg	05	29	49.9	85	
			E	iSg		30	04.4		
		ATH	Z	ePn	05	30	18.5	345	H=05:29:27.5.- 39°7N, 27.1E.- Ms <4.2 .
			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	H=11:54:50.5.- 37°5N, 24°6E.- Ms <3.0 .
			NE	eiSg			28.7		
		STP	Z	e?Pn	11	55	25.8	230	
			Z	ePg			30.3		
			Z	e			34.5		
			N	eSy			56.5		
			E	e(Sg)			58.3		
		VAL	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	H=21:19:48.5.- 39°1/4N, 27° 1/2 E.-
			NE	eiSg			30.7		
4	5	STP	Z	ePn	15	03	46.8	370	H=15:02:52.- 37°1/2N, 29° 1/2 E.-
			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	35	23.6	325	H=16:34:35.- 35°1/4N, 25° 1/4E. Ms <4.1 . Felt on Crete Island especially in the region of Rethymnon (V at Melampae) and Heraklion (IV at Galia). Area of felt shaking about 10,000 Km². M. M. = 4.2* .
			Z	e			30.1		
			N	e			42.1		
			E	e			46.0		
			N	e			57.1		
			E	eSb		36	04.2		
			N	e			05.9		
			E	e(Sy)			08.3		
		STP	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	H=20:26:08.- 38° 1/2 N, 24° 1/2 E.- Ms=3.2 .
			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.-

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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 27.9E
			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. Ms<3.6 .
			Z eSg			29.5			
			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(4.0
			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			

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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			56.9		
			N ei!			57.4		
			N i!Sg		27	12.4		
		ATH	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 about 5.000 Km². 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		

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No.	Date	Station	Phase	h	m	s	Δ Km	Remarks
	15		Z ei			47.8		(IV at Zante) and in the region of Ellis (III at Strephi). Area of felt shaking about 12.000 Km².
			Z eil			50.0		
			Z il			57.0		
		ATH	Z eiPn	08	15	45.70	260	H=08:15:04.-37.5°N, 19.5°E. h assumed 33 KM. M=4.2 (USCGS) ?
			Z il(Py)			49.50		
			Z il Pg			51.7		
			Z i			54.2		
			Z i			57.3		
			T ei(Sn)	13		14.2		
			E iSY			21.0		
			E iSZ			23.5		
		STP	Z ePb	08	16	22.9	505	
			Z ePg			23.1		
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 i			30.6		
		STP	Z ePn	19	52	22.3	185	
			N e			23.4		
			ZE ePg			24.6		
			N e			26.1		
			E ei			28.8		
			E ei			40.8		
			E eiSg			47.3		
			Z e			48.0		
			E ei			49.0		
			E ei			50.8		
19	16	STP	Z ePg	10	32	14.8	150	H=10:32:15.-Epicenter Northwestern Turkey.
			NE e			16.0		
			E eiSg		33	01.4		
			N ei			03.4		
20	16	STP	ZNE ePg	16	22	26.5	135	H=16:22:01.-Epicenter Northwestern Turkey.
			NE ei!Sg			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			34.8		
			N ei			35.8		
22	17	VAL	Z ePn	22	16	37.9		
		ATH	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 Achaïa (II+ at Patras).
			Z ei			51.8		
			Z e			53.3		
			Z e!			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		

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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	ZN i(Pg)	21	58	56.9			Felt in Cephalonia
		ATH	N ei(Sg)	21	59	18.7			Island (III at Argo-
									stoli) .
26	19	STP	ZE iPg	14	03	56.7	155		H=14:03:27.2.-38°8N,
			N ei			57.2			27°9E. Ms <4.3 .
		ATH	Z ePg	14	04	37.9	365		H=14:03:34.- 38°8N,
			Z ei			46.1			28°0E. (BCIS).
			Z ei			52.0			H=14:03:34.6.-38°9N,
			N e(Sn)		05	06.5			27°9E; h about 33 Km.
			E e(Sy)			17.0			M=4.5(USCGS).
			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
			E ei			43.7			of Sept. 19.
			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
			NE eiSg		11	17.2			of Sept. 19.
			Z ei			17.6			H=14:10:39.- Aftershock
			Z ei			19.7			of Sept. 19. (BCIS).-
29	19	STP	Z ePg	14	15	20.2	140		H=14:14:53.- Aftershock
			NE eiSg			37.8			of Sept. 19.
30	19	STP	ZNE ePg	17	56	18.6	140		H=17:55:52. Aftershock
			N eiSg			35.7			of Sept. 19.
			E i			36.6			H=17:55:58.- Aftershock
									of Sept. 19. (BCIS).-
31	19	STP	ZE ePg	21	40	55.0	140		H=21:40:28.- Aftershock
			N e			55.5			of Sept. 19.
			N iSg		41	11.2			H=21:40:34. Aftershock
			E i			12.4			of Sept. 19. (BCIS).
32	20	STP	Z ePg	00	57	05.5	140		H=00:56:39.- Aftershock
			NE iSg			23.2			of Sept. 19.
33	20	ATH	Z ePn	02	46	26.4	395		H=02:45:29.- 35°4 N ,
			Z ei(Pb)			30.2			26°5 E. Ms <4.4 .
			Z ei(Py)			34.0			Felt on Crete Island ;
			Z ei			35.5			especially in the region
			N ei		47	04.4			of Lasithi (IV at Zakros).
			E ei			05.7			Area of felt shaking about
			E e			12.2			5.000 Km^2 . M. M. =3.7*.
			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			
			./.						

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N°.	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	ZN 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
			Z e			45.0			at Kopanaki, IV at Zev-
		ATH	Z eiPg	01	59	37.7D	180		golatio, Kalamae, III+
			E iSy			59.4			at Dorion, II+ at Ari-
		VAL	ZN ePn	01	59	38.2	190		os) and Laconie (IV
			ZN eiPg			40.9			at Longanikos).
			Z ei			43.9			Area of felt shaking
			N ei			44.4			about 5.000 Km².
			Z ei			44.9			M. M. = 3.8* .
			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 Achaïa (IV
		VAL	ZN eiPg	14	56	53.2	95		at Patras
			N iISg		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	Z eiPn	10	09	19.0C			
		VAL	ZN e(Sg)	10	09	37.0			
	25	ATH	Z eiPg	22	34	57.9D	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			

International Seismological Centre From the ISC collection scanned by SISMOS

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

International Seismological Centre From the ISC collection scanned by SISMOS

LONG DISTANCE SHOCKS

ATHENS SEPTEMBER 1965

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		
			NEeiSKKS			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			53.6D		
			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		

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N°.	Date	Station	Phase	h	m	s	D	Remarks
			./.					
		VAL	Z e	07	11	59.5		
9	12	STP	Z ePKP	08	59	02.8		
		ATH	Z eiPKP	08	59	06.4D	122°	
			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	23.6		
10	12	STP	Z eiP	22	12	48.4		
		ATH	Z eiP	22	12	53.6D	65°	
			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	08.8		
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		
		VAL	Z eP	13	20	09.7		
		ATH	Z eP	13	20	11.1	85°	
			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		
		ATH	Z eP	11	27	20.8	99°	
			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		
		ATH	Z i!P	16	33	57.6C	85°	
			Z ei			57.0		
			Z i!PP		37	20.1C		
			Z iPPP		39	25.7D		
			NE eiS		44	16.5		
			./.					

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D	Remarks
		VAL	Z eP	16	34	06.5	85°.5	
			Z eiPP		37	43.0		
17	18	ATH	Z eiP	20	59	07.2D		
			E e	21	09	19.8		
			N e			20.6		
18	18	ATH	Z eP	22	18	10.2		
			Z e		27	09.0		
19	19	ATH	Z eP	01	46	41.2		
			Z ei		50	55.2D		
20	19	ATH	Z e(P)	02	42	30.0		
21	21	STP	Z eP	01	50	21.2		
			Z ei		51	11.2		
		ATH	Z i!P	01	50	33.3D	57°	
			E ei			34.1E		
			N ei			34.7N		
			Z iPP		53	48.7		
			NE eiS		58	06.7		
			E i	02	00	33.3		
			N ei		01	05.7		
			E ei			38.3		
			N ei			56.7		
			N i		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	04	47	29.2		
			E ei		49	10.6W		
25	22	ATH	Z eP	20	22	18.7		
26	22	STP	Z eP	22	20	27.8		
			Z e			41.2		
		ATH	Z iP	22	20	38.1D	87°.5	
			Z i!PP		24	02.1D		
			NE eiSKS		30	58.1		
			E eiSS		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		

International Seismological Centre From the ISC collection scanned by SISMOS

		Station	Phase	h	m	s	D	Remarks
		ATH	Z eP	14	49	42.1	84°	
			Z e		52	05.9		
			Z e		54	00.1		
			NE eSKS	15	00	09.9		
			E e		05	28.3		
		VAL	Z eP	14	49	55.2		
		BUD	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	30.50		
			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	D 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.

International Seismological Centre From the ISC collection scanned by SISMOS

ATHENS
& Associated Stns. } Oct 65.

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE

SEISMOLOGICAL STATIONS NETWORK - GREECE

PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T_o sec.	Tg sec.	r:1	V	Drumm speed mm/min.
ATHENS	37°58'20"N	Benioff	Z	107.5	1	0.25		12,500	60
(ATH)	23°43'0E	"	N-S	107.5	1	0.25		12,500	60
(Attica)	h=95m	"	E-W	107.5	1	0.25		12,500	60
	Cretaceous	Sprengnether	Z	11.2	15	100		1,500	30
	Limestone	"	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	38°14'11"N	Wiechert	Z	80	2.8		2.9	129	29 - 31
(PAT)	21°44'48"E								
(Northern Peloponnesus)	h=40m								
	Alluvium								
ST. PARASKEVI	39°14'46"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(STP)	26°16'18"E	"	N-S	1.14	0.5	0.5		20,000	60
(Lesbos	h=100 m	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Rhyolite								
VALSAMATA	38°10'36"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(VAL)	20°35'24"E	"	N-S	1.14	0.5	0.5		20,000	60
(Cephalonia	h=405m	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Cretaceous								
	Limestone								
VAMOS	35°24'26"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(VAM)	24°11'59"E	"	N-S	1.14	0.5	0.5		20,000	60
(Crete	h=225 m	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Marly								
	Limestone								

International Seismological Centre From the ISC collection scanned by SISMOS

SHOCKS IN THE AREA OF GREECE

ATHENS — OCTOBER 1965

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

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

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			./.						
			E ei		06	07.5			
			N eSn			10.7			
			E eiSb			11.1			
			N ei			12.5			
			E eiSg			12.9			
			N ei			15.6			
6	6	ATH	Z ePn	23	27	06.1	290		H=22:26:25.-38°N,20°1/2E. M_L < 4.0 . Felt on Cephalonia Island (IV+ at Lixouri, IV at Valsamata).
			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			
		VAM	Z ePn	23	27	27.4	435		
			E eSn		28	13.1			
			E e			14.9			
			E e			42.7			
7	7	ATH	Z ePg	05	01	05.9	140		H=05:00:39.-37°9 N, 22°1E. M_L = 3.3 . Felt in Achaïa (IV+ at Kalavryta).
			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			
		VAM	Z ePg	05	01	38.1	330		
			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			
8	9	STP	Z eiPg	22	46	53.9	145		H=22:46:26.- Probably 38° 3/4 N, 27° 3/4 E.
			E eiSg		47	12.0			
9	10	VAM	ZNE ePn	14	49	53.1	120		H=14:49:31.5.- 34°9 N, 22°9 E. M_L < 4.3 .
			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			
			N eiSy			15.3			
			N ei			19.1			
			N ei			30.5			
10	10	VAM	ZNE e	19	17	53.5	125		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).
			ZNE eiPg			53.9			
			Z i		18	08.9			
			N iSg			09.2			
			Z i!			12.0			

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
		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			
11	12	VAM	ZN ePn	18	34	20.5	280		H=18:33:37.5.-34° 1/4 N, 27° E. M_L < 4.8.
			E e			21.0			
			ZN eiPb			22.3			H=18:33:44.- 34° N,26°.0E. (BCIS).
			N ei			23.4			
			E eiPy			24.0			H=18:33:45.-34°.4 N,26°.3E; h about 33 Km.
			ZNE ei			25.0			
			Z iPg			27.6			M=4.3 (USCGS).
			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		H=17:37:23.- Probably 36° 3/4 N, 25° 3/4 E.
			N e			31.3			
			E eiSg			37.5			
			N ei			38.4			
			E ei			42.0			
			N ei			42.4			

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N°.	Date	Station	Phase	h	m	s	D Km	Remarks
			E ei			43.9		
			N ei			44.4		
			E ei			45.9		
		STP	Z ePn	17	38	12.2	290	
			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		
13	14	VAM	ZN ePn	00	39	55.6	240	H=00:39:17.5.- Probably 36° 1/2 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		
14	16	VAM	ZNE iPg	10	45	58.1	80	H=10:45:42.5.- 34.7 N, 24.4 E.
		ATH	Z ePn	10	46	37.0	370	
			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	Z ePn	10	46	54.7	510	
			E e		47	41.8		
			ZE ei			43.7		
			Z eiSn			46.2		
		STP	ZNE ePn	10	47	57.4	530	

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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			
			Z ei			25.9			
		STP	Z ePn	09	53	35.6	345		
			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_L=4.6.
		ATH	Z ePn	14	33	48.3C	360		H=14:32:45.- 39°.0 N, 28°.0 E. (BCIS).
			ZNE ei			52.6DW			
			Z ei			55.0C			H=14:32:45.- 38°.8 N, 27°.7 E; h about 33 Km. M = 4.6 (USCGS).
			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			

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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	50.0C	120		H=17:08:29.5.-38°8 N, 22°7 E. M_L = 3.3. Felt in Boeotia (IV+ à Davlia)
			ZNE eiPg			51.0CSE			
			ZN i!			51.9D			
			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
			N e			10.4			
			E e			13.9			
20	19	VAL	ZE iPg	18	53	49.7	10		H=18:53:47.5.- About 38° N, 20° 1/2 E. $M_L < 4.0$. Felt on Cephalonia Island (IV at Lixouri, Valsamata).
		ATH	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			
			E 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		H=22:03:46.3.-39°7 N, 19°1 E M<4.6.
			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 ei!Sg			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			

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N°.	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	14.6C	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 Boeotia (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	12.0C	255	
			E eiPy			13.3W		
			Z i(Pg)			14.9C		
			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 Vasilika). 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		

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N°.	Date	Station	Phase	h	m	s	D Km	Remarks
		VAL	Z ePn	19	33	29.3	325	
			Z e			30.6		
			E e			33.8		
			Z eiPy			35.1		
			Z ei		34	07.7		
			ZE eiSb			09.3		
27	24	VAL	Z ePg	05	54	54.2	40	H=05:54:46.5.- 37°8 N, 20°9 E.
			ZE i			54.9		
			E i!		55	00.2		
		ATH	ZNE eiPn	05	55	26.5D	250	
			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	H=16:41:10.-37°6 N, 20°9 E. M=4.2.
			E i!Sg			25.7		
		ATH	ZE ei!Pn	16	41	50.2C	260	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).
			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	06.9	385	
			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
			N ei			38.2		
			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		
29	24	VAL	Z ePn	22	21	42.0	215	H=22:21:07.5.-39°9N, 19°7E. M_L<4.5.
			Z eiPb			43.5		
			Z ei(Pg)			44.2		
			E eiSb		22	08.5		H=22:21:18.- 40° 1/4 N, 21° 1/4 E. (BCIS) .
			ZE iSg			12.0		
			E ei			19.0		
		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		
		VAM	N eSn	22	23	37.0	620	
			Z e			40.5		
30	26	VAL	Z ePg	00	51	23.6	100	H=00:51:04.- 38°6 N, 21°0 E.
			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		
			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		
		VAM	Z ePn	00	52	05.8	440	
31	28	ATH	Z eiPn	04	27	32.2D	135	H=04:27:10.5.-38°4 N, 22°5 E. M_L = 4.1. Felt in Corinthia (V at Derveni, IV+ at Nemea), Fokis (V at Itea, IV+ at St.-Euthymia, IV at Kastellia), Boeotia (IV+ at Davlia), Aetolia (IV at Palaeochoraki). Area of felt shaking about 15,000 Km^2. M.M.=4.4*.
			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		
		VAM	ZE eiPn	04	27	01.3	340	
			N e			01.8		

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			Z ei			02.2			H=04:27:13.- 38°3 N,
			NE ei			02.7			22°4 E. (BCIS).
			E ei			05.0			H=04:27:10.6.-38°4 N,
			N ei			05.7			22°3 E; h about 15 Km.
			E ei(Pb)			06.2			M=4.5 (USCGS).
			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,
			E e			24.5			20°0 E. M_L <4.6.
			Z eiPb			26.5			H=14:39:30.- 41°8 N,
			E ei			29.9			19°6 E.(BCIS).
			Z ei		41	05.1			H=14:39:25.- 41°7 N,
			E eiSg			08.4			19°2 E; h about 14 Km.
			Z ei			08.9			M = 4.5 (USCGS).
		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			

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
		STP	ZNE ePn	14	40	56.4	560		
		VAM	Z ePn	14	41	15.2	710		
			NE e			17.6			
			Z e			19.3			
			Z e			20.4			
			N e			22.3			
			E ePb			24.7			
			N e			32.3			
			E ei			32.7			
			E e(Sn)		42	37.2			
			N e			40.9			
			E eSb			42.5			
			E ei			46.7			
			N e			47.2			
			E ei			48.7			
33	30	ATH	Z e	03	46	40.2C	110		H=03:46:20.- 39°N. 23°5 E. M_L 3.1.
			ZN i!Pg			40.7CS			
			E e			41.1			
			N i			41.6S			
			ZE ei			42.5			
			Z i			42.9			
			E ei!Sg			54.0			
			N ei			54.6			
			N i			55.3			
			N i			55.9			
			E i!			57.0			
		STP	Z ePn	03	46	56.7	230		
		VAM	Z e(Pn)	03	47	18.9	400		
34	30	ATH	Z eiPn	04	47	34.5D	145		H=04:47:10.-39°1 N, 23°0 E. M_L 3.3.
			ZN ei			35.6D			
			E e			36.1			
			Z ei			36.7			
			N eiPg			37.6			
			E ei			39.6			
			E ei			40.7			
			N ei			44.7			
			N eiSn			51.2			
			E i			53.6			
			NE iSg			54.8			
			N ei			56.8			
			E i			59.0			
			N ei!		48	00.8			
			N ei!			02.8			
			N i			05.6			
		STP	E eSg	04	48	33.8	275		
			N ei			345			
		VAM	Z ePn	04	48	11.6	425		
35	31	ATH	Z ePn	06	27	42.8			
		VAM	Z ePn	06	27	51.1			
36	31	ATH	ZNE iPn	09	58	01.1DNW	145		H=09:57:37.- 38°2 N, 22°2 E.
			E i			01.7			
			Z i			02.5C			
			Z iPg			04.0			

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N°.	Date	Station	Phase	h	m	s	Km	D		Remarks
			./.							
			Z i			35.5				
			Z i			05.0				
			NE iSn			17.[illegible]				
			NE i!			20.6				
			E iSg			21.5				
		VAM	Z ePn	09	58	27.5	335			
		STP	Z ePn	09	58	30.2	360			

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LONG DISTANCE SHOCKS

ATHENS — OCTOBER 1965 —

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	14	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 Islsnds 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		

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	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 Islands 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	43.0		
			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

International Seismological Centre From the ISC collection scanned by SISMOS

ATHENS Nov. 65

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

Station	Location	Type of instruments		Mass Kgr	T_o sec.	Tg sec.	γ:1	V	Drumm speed mm/h
ATHENS	37°58'20"N	Benioff	Z	107.5	1	0.25		12,500	60
(ATH)	23°43'0 E	"	N-S	107.5	1	0.25		12,500	60
(Attica)	h=95 m	"	E-W	107.5	1	0.25		12,500	60
	Cretaceous	Sprengnether	Z	11.2	15	100		1,500	30
	Limestone	"	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	39°14'46"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(PRK)	26°16'18"E	"	N-S	1.14	0.5	0.5		20,000	60
(Lesbos	h=100 m	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Rhyolite								
VALSAMATA	38°10'36"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(VLS)	20°35'24"E	"	N-S	1.14	0.5	0.5		20,000	60
(Cephalonia	h=405 m	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Cretaceous Limestone								
VAMOS	35°24'26"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(VAM)	24°11'59"E	"	N-S	1.14	0.5	0.5		20,000	60
(Crete	h=225 m	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Marly Limestone								
RHODES	36°26'14"N	Sprengnether	Z	1.14	0.5	0.5		10,000	60
(RHD)	28°13'25"E	"	N-S	1.14	0.5	0.5		5,000	60
(Rhodes	h=45 m	"	E-W	1.14	0.5	0.5		5,000	60
Island)	Alluvium								
PATRAS	38°14'11"N	Wiechert	Z	80.	2.8		3.1	133	29-31
(PAT)	21°44'48"E								
(Northern Pe-	h=40 m.								
loponnesus)	Allubium								

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SHOCKS IN THE AREA OF GREECE

ATHENS — NOVEMBER 1965 —

N°.	Date	Station	Phase	h	m	s	D Km	Remarks
1	2	PRK	ZNEi!Pg	03	27	24.8	85	H=03:27:08.5.- 39°25 N,25°30E. M_L=5.2
		ATH	SPZi!Pn	03	27	40.3C	195	H=03:27:12.- 39°3N,25°5E (B.C.I.S.).
			HZ i!			42.9		
			HZ i!Pg			44.2		H=03:27:07.2.- 39°6 N, 25°2 E; h=11 Km M=4.6 (USCGS).
			HZ i!!			53.9		
			HNEi!		28	11.6		Felt on the Islands of St. Eustratios (IV+ at St. Eustratios), Lesbos (IV at Methymna, Skalochori, Kalloni, Stypsi, and Kapi), Lemnos (IV at Myrina) Skyros (IV at Skyros) and in the region of Attica (III+ at Cholargos). Area of felt shaking about 120,000 Km². M. M. = 5.7
		PAT	Z ePn	03	27	56.8	325	
			Z ePy		28	02.5		
			Z eSg			46.4		
		VLS	ZE eiPn	03	28	09.6	420	
			Z eiPb			14.9		
			Z eiPg			24.0		
			Z eiSn			59.5		
		VAM	Z ePn	03	28	11,7	440	
			ZE e			13.3		
			Z ei			15.5		
			Z ei			26.0		
			N ei			26.5		
			ZN ei			29.3		
			E ei			37.4		
			E ei		29	05.0		
			N ei!Sb			07.5		
			E i			16.4		
			E iSg			20.5		
2	2	PRK	Z ePn	13	10	32.1	395	H=13:09:35.- 40°5 N, 30°6 E (BCIS).
			NE eiSg		11	32.4		
3	4	VLS	ZE iPg	10	29	51.2	30	H=10:29:45,0 37°8 N, 20°5 E. M_L= 4.0
			ZE iSg			55.0		
		ATH	SPZ ePn	10	30	28.6	290	
			SPE i		31	05.9		
			SPNE i!!Sy			07.6		
			SPN iSg			11.0		
			SPE i			15.1		
			SPE i!			18.6		
		VAM	Z e	10	30	56.5	420	
			N eSn		31	30.		
			E eiSg			51.5		
		PRK	Z e?Pb	10	31	01.7	540	
			E eSn			57.8		
4	4	VLS	ZeP22P	10	40	25.1	115	H=10:40:0? , 37° 1/4 N, 19° 3/4 E.
			ZeiPg			25.9		
			EeiSg			39.4		
		ATH	ZePn	10	40	55.0	350	
		VAM	ZePn	10	41	04.5	420	

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

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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 ZE eiSb	23	01 02	52.2 53.7 56.0 27.0	275	
		VAM	Z eiPn Z eiPy N eiSy E ei	23	01 02 	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 14.1 16.9	(320)	
8	5	VAM	Z eiPn Z iPg Z ei! E ei E eiSn	23	14 15 	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	SPZeiPn 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 26	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 Anatoli, IV at Kato-Chorion).
		ATH	SPZ ePn SPE eiSn SPE eiSb SPN eiSy SPE ei SPN ei	05	26 27 	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 14 	23.6 29.2 31.6 07.6 14.2	300	H=19:12:37.- 36° N, 27°E. M_L < 4 .

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N°.	Date	Station	Phase	h	m	s	D Km	Remarks
		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		
	8	ATH	SPZE eiPg	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		
			SPN i!			20.6		
			SPE i			21.7		
			SPN i!Sg			22.4		
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		
			SPE i!			46.8		
		VLS	Z ePn	23	29	37.3	290	
			Z e			41.4		
			N eiSn		30	08.9		
		PRK	Z ePn	23	29	54.2	405	
			N eSn		30	36.3		
13	10	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 ePn	20	25	49.3	260	
			Z e(Ig)			53.2		
			N ei		26	25.5		
			E eiSg			26.4		
		VAM	E eSg	20	26	47.7	330	
14	11	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		

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N°.	Date	Station	Phase	h	m	s	D Km	Remarks
			./.					
			E eiSg			45.8		
			N ei			47.1		
	11	PRK	Z ePn	18	58	15.4	480	
			N eSn		59	19.3		
15	11	VAM	Z ePn	21	49	50.7	315	Southern coast of Turkey.
			Z eiPb			52.7		
			Z iPg			55.1		
			N i		50	15.5		
			N i!			19.1		
	11	PRK	E eSg	21	51	23.4	470	
16	16	VAM	Z ePn	18	45	54.0	135	H=18:45:31 34° 3/4 N, 25° 1/2 E.
			Z iPg			56.2		
			NE i!Sg		46	12.3		
			N i			16.3		
		ATH	SPZ e?(Pn)	18	46	32.4	425	
		PRK	Z ePn	18	46	35.7	445	
			N e		47	13.4		
			N eSn			21.1		
		VLS	Z ePn	18	46	54.2	600	
17	17	VAM	Z e?(Pn)	19	49	44.8	200	H=19:49:12 Probably in the south of Crete Island.
			Z eiPy			45.9		
			Z eiPg			47.9		
			N eiSn		50	08.9		
			E eiSg			11.9		
		ATH	SPZ e?(Pn)	19	50	11.0	405	
18	20	VAM	Z ePn	03	40	41.9	130	H=03:40:20 Probably in the south of Crete Island.
			Z ei(Pg)			43.7		
			Z ei			47.5		
			N iSg		41	00.3		
			E i			02.8		
		PRK	Z ePn	03	41	28.0	475	
19	20	VAM	Z ePn	05	15	21.3	130	Felt on Rhodes Island (IV+ at Malon)
			E eiSg			39.5		
			N ei			40.3		
20	20	PAT	Z ePn	19	58	33.2	180	H=19:58:03.0.- 39°80 N, 22°25 E. M_L < 4.0 . Felt in Larisa (V at Amouri), Grevena (IV+ at Deskati). Area of felt shaking about 5,000 Km².
			Z eiSg			58.0		
		VLS	Z ePn	19	58	39.7	230	
			Z i			41.2D		
			E iSg		59	12.7		
		ATH	SPZ iPn	19	58	40.7D	240	M. M = 3.8 *
			SPZ i			48.6		
			SPZ i			52.7		
			SPE i		59	18.8		
			SPN i			19.6		
			SPE i			21.6		
			SPN i!			25.1		
		PRK	Z ePn	19	58	55.0	350	
			Z i			56.6		

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N°.	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.- 37°2 N, 27°0 E. (BCIS).
			Z i			14.3			
			Z eiPy			15.8			H=05:23:41.- 37°4 N, 27°1 E; h = 33 Km. (USCGS).
			Z i			17.9			
			Z iSy			42.8			
			NE i!Sg			45.2			Felt on Kalymnos Island (IV+ at Kalymnos).
		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 CSW	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).
			HZ eiPg			14.0			H=09:03:56,-38°8N, 24°6 E.
			LPZ i			17.0			h=33 Km, M=3.8 (USCGS).
			LPNE iSg			27.4			Felt on Skyros Island (IV at Skyros).
			LPE i!			31.0			

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N°.	Date	Station	Phase	h	m	s	D Km	Remarks
				./.				
		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		
25	26	VAM	Z	eiPn 13	13	54.5	200	H=13:13:21.8.- 35°.4 N, 22°.1 E.
			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		

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N°	Date	Station	Phase	h	m	s	D Km	Remarks
30	27	ATH	SPZ eiPn	08	06	31.7C	145	H=08:06:06.0.- 39°2 N, 24°0 E. M_L = 3.7 .
			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		
			NE ei!Sg			06.5		
		VAM	Z eiPn	08	07	06.5	420	
			Z ei(Pg)			22.6		
			E eiSy		08	02.9		
31	27	RHD	ZNE eiPg	11	03	11.3	120	H=11:02:47.8.- 35°9 N, 29°4 E. M_L < 4.8
			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 iPg		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		
32	27	VLS	Z ePn	13	53	57.0	550	H=13:52:40.- about 43° 1/2 N, 18° 3/4 E. (BCIS).
			N e		54	56.5		
			Z ei			57.0		H=13:52:38.8.- 43°3 N, 18°5 E ; h 29 Km.
		VAM	Z ePn	13	54	45.5	930	M=3.7 (USCGS).
			N e		56	25.0		
			NE ei			37.2		
33	28	RHD	ZNE iP	05	26	21.5	55	H=05:26:02.0.-35°9 N,27°9 E. M_L = 5.4 .
		PRK	ZNE ;!!P	05	26	56.6	395	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). ./.
		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		

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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* .-
			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	H=16:18:10.1
			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.
			Z ei			49.4			
			NE eiSg		58	18.7			
35	29	VIS	Z ePn	02	15	13.6		240	H=02:14:36. M_L < 3.4 .
			Z eiPb			15.4D			
			Z ei			21.6			
			E eiSn			41.4			
			N eiSy			45.8			
		ATH	SPZ iPn	02	15	18.4		280	
			SPE ei			39.1			
36	29	VIS	Z eiPn	14	34	37.5		190	H=14:34:07.9.- 39°.4 N, 22°.0E. Felt on Karditsa (IV at Anavra, II+ at Kedros)
			Z ei			39.3			
			N eiSg		35	03.3			
		ATH	SPZ ePn	14	34	41.3		205	
			SPZ ei			46.2			
			SPE ei		35	03.7			
			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			
38	30	PAT	Z ePg	10	54	48.0		60	H=10:54:36.5.- 37°.7 N, 22°.0E. M_L < 3.8 .
			Z e			55.7			
			Z eSg			57.3			
	30	VIS	Z eiPn	10	54	59.2		130	
			Z ei		55	01.0			
			N eiSg			14.3			
			E ei			15.0			
			N ei			17.6			
		ATH	SPZ eiPn	10	55	02.0		150	
			SPE eiSn			17.5			

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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 i!Sn			55.8		
		PRK	Z e(Pn)	20	51	08.4	390	

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LONG DISTANCE SHOCKS

ATHENS NOVEMBER 1965

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 region 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 iSKS	02	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 Atlandic 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).
	8	VAM	Z eP	02	03	22.0	29°0	
	8	ATH	Z eSS	02	09	08.2	30°0	
	8	VLS	Z eiP	02	03	47.5	31°5	
10	9	ATH	LPZ e(R)	12	32.2			
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			

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N°.	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
			Z ei			15.2		Honshu, Japan 30°5 N,
								140°2 E ; h about 40 Km.
	12	ATH	LPZ iP	18	05	21.6C	88°5	M=6.6 (USCGS).
			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
			Z i			48.0		Sinkiang Prov.,China
								43°8 N, 87°8 E; h
	13	ATH	SPZNE iP	04	42	25.2CSW	46°5	about 53 Km. M=6.3
			LPZE i!!			26.1CW		(USCGS).
			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
	14	ATH	LPZ e(R)	06	55	34.2		coast of Honshu , Japan
								36°8 N, 140°8 E; h about
								67 Km. M=5.9 (USCGS).
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-Atlandic Ridge 0.3°S,
	15	VAM	Z eP	11	28	10.4	53°	18°7 W; h about 24 Km.
								M=5.6 (USCGS).
	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
								Atlandic Ridge 31°0 N,
	16	ATH	SPZ eP	15	34	03.1	53°	41°5 W ; h about 17 Km.
			LPZ ei			03.2D		M = 6 (USCGS).
			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	

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N°.	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.-Fji Islands region 18°.8 S, 179°.9 W ; h about 421 Km. M=5.6 (US-CGS).
			Z i!			35.0D		
	18	RHD	Z ei	20	19	25.4C		
	18	ATH	SPZ iPKP	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 eipPKP		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			

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D	Remarks
33	22	ATH	LPZ e(R)	14	51.3			
34	22	ATH	LPZ eiP	20	38	21.3C	86°.5	H=20:25:30.4.- Andreanof Islands, Aleutian Islands 51°.3 N, 179°.4 W; h about 40 Km. M=5.9 (USCGS).
			LPZ eiPP		41	48.1		
			LPN eS		46	52.1		
			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, 36°.6 E. (BCIS).
	25	VAM	Z eP	02	08	46.9	9°.5	
	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 Honsu Japan 30°.6 N, 140°.2E ; h about 60 Km. M=5.2 (USCGS).
	27	ATH	LPZ e(P)	03	17	11.0	88°.5	
			LPZ e			29.0		
	27	VAM	Z e(P)	03	17	18.7	90°	
39	27	ATH	LPZ eiPP	12	23	35.6C	141°.5	H=12:01:51.9.- Solomon Islands 9°.7 S, 159°.7 E; h about 51 Km. M=6.3 (USCGS).
			LPZ ei		24	26.2C		
			LPE ei			30.0		
	27	VAM	Z eP	12	24	29.0		
40	29	VLS	Z eiP	09	12	25.9	82°	H=09:00:08.3.- Kurile Islands 41°.1N, 146°.5 E h about 153 Km. M=5.3 (USCGS).
41	29	ATH	LPZ e(R)	18	07.2			

The Director

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ATHENS etc.
Dec. 1965

NATIONAL OBSERVATORY - SEISMOLOGICAL INSTITUTE

SEISMOLOGICAL STATIONS NETWORK - GREECE

PRELIMINARY BULLETIN

Station	Location	Type of instruments		Mass Kgr	T_o sec.	Tg sec.	ν:1	V	Drumm speed mm/m
ATHENS	37°58'20"N	Benioff	Z,N,E	107,5	1	0,25		12,500	60
(ATH)	23°43'0 E	Sprengnether	Z	11,2	15	100		1,500	30
(Attica)	h=95 m	"	N,E	10,75	15	100		1,500	30
	Cretaceous	Wood-Anderson	S,E		0.8		50	2,800	60
	Limestone	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	39°14'46"N	Sprengnether	Z,N,E	1.14	0.5	0.5		20,000	60
(PRK)	26°16'18"E								
(Lesbos	h=100								
Island)	Rhyolite								
VALSAMATA	38°10'36"N	Sprengnether	Z,S,W	1.14	0.5	0.5		20,000	60
(VLS)	20°35'24"E								
(Cephalonia	h=405 m								
Island)	Cretaceous								
	Limestone								
VAMOS	35°24'26"N	Sprengnether	Z	1.14	0.5	0.5		20,000	60
(VAM)	24°11'59"E	"	N-S	1.14	0.5	0.5		20,000	60
(Crete	h=225	"	E-W	1.14	0.5	0.5		20,000	60
Island)	Marly								
	Limestone								
RHODES	36°26'14"N	Sprengnether	Z	1.14	0.5	0.5		10,000	60
(RHD)	28°13'25"E	"	N-S	1.14	0.5	0.5		5,000	60
(Rhodes	h=45 m	"	E-W	1.14	0.5	0.5		5,000	60
Island)	Alluvium								
PATRAS	38°14'11"N	Wiechert	Z	80	2.8		3,1	133	29-31
(PAT)	21°44'48"E								
(Northern Pe-	h=40 m								
loponnesus)	Alluvium								

International Seismological Centre From the ISC collection scanned by SISMOS

SHOCKS IN THE AREA OF GREECE

ATHENS — DECEMBER 1965 —

N°	Date	Station	Phase	h	m	s	D Km	Remarks
1	1	VAM	Z eiPg	08	36	04.2	130	H=08:35:39
			Z eiPn			06.3		
			NE i			17.2		
			E iiSg			19.6		
2	1	RHD	Z eiPg	14	16	53.5	70	H=14:16:39.8.- 36°9N, 28°5 E.
			Z i			54.7		
			E iSg		17	02.5		
		PRK	Z eiPn	14	17	30.1	330	
			NE eiSn		18	04.4		
		VAM	Z ePn	14	17	40.7	420	
			N ei		18	21.1		
			N eiSn			23.9		
3	1	ATH	SPZ iiPg	14	54	04.9C	35	H=14:53:58.0 .- 38°3 N, 23°6 E. M_L=2.9
			SPE iiSg			09.5		
		VLS	Z eiPn	14	54	38.9D	265	
			Z ei		55	10.1		
			Z eiSb			11.5		
		VAM	Z ePn	14	54	46.8	325	
			Z e			47.6		
			N ei		55	20.4		
			N eiSn			22.3		
			N eiSb			27.3		
4	1	VLS	Z ePn	17	27	11.7	260	H=17:26:31
			Z eiPy			14.9C		
			E eiSn			41.0		
			E eiSb			44.3		
			E eiSy			46.2		
5	2	RHD	Z iPn	06	46	22.4	160	H=06:45:54.4.- 37°7 N, 29°0 E.
			E iiSn			42.9		
		PRK	Z eiPn	06	46	37.3	280	H=06:45:54.- 37°6 N, 29°4 E (BCIS).H=06:45:55.- 37°7 N, 29°4E; h=41 Km. M=4.6 (USCGS).
			Z iPg			43.9		
			N iSg		47	21.0		
			N i			27.3		
		ATH	SPZ ei	06	47	37.0C	470	
			SPZ eiSn			51.4		
		VAM	Z ePn	06	47	07.1	520	
			Z e			11.2		
			Z ei			14.1		
			E eiSn		48	09.0		
			E ei(Sb)			14.9		
			E eiSy			20.2		
6	2	VLS	Z ePg	14	54	34.1	130	Felt in Thesprotia (IV at Philiatae).
			Z eiSg			50.1		

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

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	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			
							CSE		
8	4	ATH	LPZNE i!Pg	04	08	43.6		15	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 Ampelakia, Marathon, Peuki, Koukouvaounes, Koropi, Megara, Kiphisia, Palaeon-Phaliron, Athens, Eleusis, Mandra, Amarousion, Vyron, Stamata, Hymettos, Grammatikon, Nea-Liosia, Nea-Erythraea, Aphidnae, Keratsini, Nea-Palatia, Paeania, III+ at Piraeus, Melissia, Nea-Smyrni, III at Kapandriti), Boeotia (IV at Thebes), and on the Island of Aeghina (III at Aeghina). Not felt at Nea-Peramos, Vilia, St.-Stephanos, Lavteoyiki, Kalamos, Kalyvia-Thorikou, Ste-Paraskevi (of Attica) and Kypseli (of Aeghina Island). Macroseismic Epicenter about 38° 1/4 N, 23° 3/4 E. Area of felt shaking about 5.000 Km². M. M.=3,7*.
			LPE i!Sg			45.8			
		PRK	Z ePn	04	09	19.3		260	
			Z eiPg			25.5			
			N i(Sn)			48.3			
			N iSb			52.1			
			N i			58.6			
		VLS	Z ei(Py)	04	09	24.0		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	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)
			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	05.3	D	480	
			SPZ eiPy			15.0	D		
			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 i!Pg	17	52	43.8	10		Felt on Cephalonia Island (IV at Valsamata)
			NE i!Sg			46.0			
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 i!Pg			07.4D			
			SPE i			18.8			
			SPE i			22.5			
			SPN i!Sg			23.7			
		PRK	Z iPn	05	34	16.5D	225		
			Z iPg			21.2C			
			N iSb			45.1			
			N i!Sg			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 i!Pg			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	105		H=21:29:37.8.- 36°4 N, 27°0 E. M_L < 4.3
			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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International Seismological Centre From the ISC collection scanned by SISMOS

N°	Date	Station	Phase	h	m	s	D	Km	Remarks
			./.						
		ATH	SPZeiPg	21	30	40.1D		350	
			SPE eiSg		31	21.9			
			SPE i			25.4			
14	7	RHD	Z ePg	01	01	18.5		120	H=01:00:57.- 36° 1/4 N, 27° E. M_L < 4.3 .
			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			
		./.							

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D Km	Remarks
		./.						
		ATH	SPZ ePg	08	46	23.8	270	
			SPZ ei			31.6D		
			SPN eiSn			58.8		
			SPN ei		47	05.5		
			SPE e			07.7		
			SPE ei			10.8		
			SPE ei			12.2		
		VLS	Z eiPn	08	46	46.2	490	
			Z ei			49.5C		
			Z i			51.0		
			E ei		47	31.6		
			N i			35.7		
			N iSn			36.5		
17	7	ATH	SPZ eiPn	15	04	40.2D	155	H=15:04:14.5.- M_L <3.3
			SPZ ei			43.2		
			SPE iSn			58.4		
		VLS	Z ePn	15	04	59.1	295	
			Z e		05	02.5		
			N eSn			33.1		
			N ei			34.4		
18	8	RHD	Z eiPg	11	22	23.6	100	H=11:22:05.0.- 37°3 N, 28°5 E. M_L <4.5
			N iiSg			35.6		
			N ii			38.8		
		PRK	Z eiPn	11	22	51.5D	300	
			Z iiPg		23	00.4D		
			N i			59.4		
			E i		24	00.8		
		ATH	SPZ eiPn	11	23	05.2D	420	
			SPZ ei			08.2D		
			SPZ ei			17.3		
			SPN ei			36.0		
			SPNE ei			43.1		
			SPE eiSn			51.0		
			SPE iSy		24	03.4		
		VAM	Z ePn	11	23	07.3	440	
			Z eiPb			12.6		
			Z eiPy			16.2		
			E ei			39.8		
			NE ei			48.9		
			N ei		24	08.9		
19	10	RHD	Z eiPn	06	09	54.6	120	H=06:09:33.3.- 37°2 N, 29°0 E.
			Z i			55.4		
			Z iPg			56.3		
			N iSg		10	10.5		
		PRK	Z eiPn	06	10	21.9	320	
			Z eiPb			24.0		
					./.			

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			./.						
			Z iPg			30.9			
		ATH	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			
			N eSb			40.3			
20	12	VAM	Z ePn	04	05	11.3	105		N=04:04:52.- 35° 1/4 N, 23° E.
			ZN eiPg			11.8			
			Z i			13.8			
			N $iP_{33}S$			16.7			
			E i!Sg			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 i!!Pn	00	07	43.3	115		H=00:07:22.4 .-38°3 N, 25°7E. M_L (3.4
			E $i!S_{23}P$			47.0			
			E i!			52.4			
			N i			54.8			
			N iSn			57.1			
			E i!Sg			58.9			
		ATH	SPZ eiPn	00	07	51.6C	170		
			SPZ ei!Pg			57.0D			
			SPZ i		08	00.2			
			SPN iSg			145			
			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			
			./.						

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase		h	m	s	D	Km	Remarks
				./.						
			N	ei			08.1			
		VLS	Z	ePn	00	08	25.8	445		
22	13	ATH	SPZ	iPg	11	19	55.6D	25		H=11:19:50.7.-38°0 N, 24°0E. M_L = 2.7 .
			SPE	iISg			59.0			
		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.- 40°0 N, 19°3 E. (BCIS). H=17:44:12.- 40°3 N, 20°0E; h=33 Km. M=4.5 (USCGS).
			Z	iPy			48.1			
			Z	iPg			50.8			
			Z	i		45	00.3			
			E	ei			13.2			
			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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Nº	Date	Station	Phase		h	m	s	D	Km	Remarks
		VAM	Z	ePn	17	45	36.7	680		
			E	e		46	43.9			
			N	eSn			44.9			
			N	ei			50.7			
25	15	RHD	Z	ePn	04	17	03.3	105		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°.	Date	Station	Phase	h	m	s	D	Km	Remarks
		./.							
		PRK	Z ePn	00	50	35.1	375		
29	17	VLS	Z iPg	04	48	07.6	50		H=04:47:58.4.-38° 1/2 N, 21° E.
			E iSg			13.5			
		PAT	Z ePg	04	48	11.2	70		
			Z eiSg			26.4			
		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	38.0C	150		H=00:08:11.6. 40°1 N , 24°8 E.
		ATH	LPZNE i!Pn	00	08	49.6CSW	240		An=130 μ Tn=2 s. M=5.9
			LPZ ei!		09	20.6			Ae=210 μ Te=2 s.
			LPE iSg			23.8			H=00:08:11.- 39°9 N , 25°0 E. M= 5 3/4 - 6 (BCIS). H=00:08:15.2.- 40.2 N, 24.8 E; h=33Km. M=5.3 (USCGS).
			LPN ei!			30.4			
		PAT	Z ePn	00	09	02.0	340		
			Z ei			09.6			
			Z eiSb			43.6			
		VLS	Z ePn	00	09	12.2	420		Felt on the Islands of Thasos (V at Kastron, Panaghia, Potamia, IV+ at Limenaria, Theologos, Thasos, Prinos), Lemnos (IV+ at Myrina, Kontopoulion, Moudron, IV at Kontia), Samothraki (IV+ at Samothraki), Lesbos (IV at Kalloni, III+ at Keramion, Ippios, Polychnitos, Stypsi, Petra, Kliou, Philia, III at Antissa, Palaeochori), Chios (III at Volissos), St-Eustratios (IV at St-Eustratios), Skyros (III at Skyros), Skopelos (III at Skopelos), and Skiathos (II+ at Skiathos). The shock was farther felt in Thrace and Macedonia particularly in the regions of Evros (V+ at Avantos ,V at Sykorachi , Petroton, Phylakton, IV+ at Alexandroupolis, Hellinochori, IV at Asproneri, Pentalophos, Pherrae, Mikron-Derion, Mani, Ardanion, Didymotichon, Prangion,III+ at Anthia, Soufli, Phylakion, Ormenion,
			Z eiPb			29.0			
			Z i			40.7			
			Z i			53.7			
			E i		10	00.0			
			N i			02.3			
			N i			11.4			
			E iSn			16.6			
			E i			21.8			
									./.
		RHD	Z ePn	00	09	22.4	500		
			Z e			27.2			
			ZN eiPy			33.3			
			E ei			36.5			
			Z ei			39.5			
			E i			50.8			
			N ei			54.5			
			N ei		10	09.2			
			N i			18.9			
			N i(Sg)			42.9			
		VAM	Z ePn	00	09	23.7	510		
			Z ei			26.8			
			Z i			53.7			
			E i		10	00.0			
			N i			02.3			
			N i			11.4			
			E iSn			16.6			
			E i			21.8			
									./.

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			E	i		28.8			Protoklision, Peplon, Loutron, Lavara, Zone, Metaxades, III at Kyprinos, Dikaea, Tycheron, Paliouri, Thourion, Rizia, Amorion, II+ at Elaphochori) , Rhodope (V at Proskynites, Aeghiros, Thrilorion, IV+ at Krovyli, IV at Miranae, Arisvi, Komotini, Lophari, Polyanthos, Iasmos, Pagairia, Asomatoe, Organi, Ariana, III+ at Maronia, Sappae, Amvrosia, Amaranta, III at Kosmion, Xylagani, II+ at Pandrosos), Xanthi (IV+ at Neochori, Gerakas, Oraeon, Daphnon, Stavroupolis, Mandra, Erasmion, Diomidia, IV at Genisea, Kotyli, Kimeria, Polysiton, Nea-Kessani, Satrae, Therma, Xanthi, Evlalon, Evmoeron, III+ at Exochi, III at Koutson, Toxotae, II+ at Myki), Kavala (V+ at Nea-Karvala, Moustheni, IV+ at Lekani, Chrysoupolis, Perni, Zygos, Georghiani, Amisiana, Aghiasma, Nea-Peramos, Mesoropi, IV at Sidirochori, Eleutheroupolis, Kipia, Kechrokampos, Kavala, Nikisiani, Philipoe, Chrysochori, Eleutherae, Podochori, Domatia, III+ at Kryoneri, Zarkadia), Drama (V at Choristi, Kato-Nevrokopi, IV at Kalliphyton, Tholos, Platania, Doxaton, Adriani, Photolivos, Kallithea, Nikiphoros, Volax, III+ at Leukoghia, Kyria, St.-Athanasios, Kalos-Agros, III at Koudounia, Perithori, Ochyron), Serrae (IV+ at Emmanouel-Papas, Alistrati, Proti, Angista, Palaeokomi , Draviskos, IV at Terpni, Nea-Zichni , Achladochori, Podolivos, Daphnoudi, Tholos, Provata, III+ at Chryson, Neos-Skopos, Karperi, Nigrita, III at Eukarpia, Strimonikon, Sidirokastron, St.-Pnevma, Toumpa), Chalkidike (IV+ at Arnaea, St.-Nikolaos, IV at Hierrisos, Vrastama, Krymni, 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, Parakoela, Eresos, Skopelos, Skoutaros (of

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N°	Date	Station	Phase	h m s	D Km	Remarks
						./. Lesbos), Avlonari, Psachna, Politika, (of Euboea), Eratini, Aratos, Strymni, Sostis, Kechron (of Rhodope), Kavyli, Orestias, Nea-Vyssi, Kastaneae, (of Evros), Pentapolis, Kerkini, Skotousa, Phlabouron, Ammoudia, Rhodopolis (of Serrae), Nea-Kalikratia, 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, Axioupolis, Pedinon, Goumenitsa, Kilkis, Europos, Polykastron, (of Kilkis). Area of felt shaking about 140.000 Km^2. M. M. = 5.8*
32	20	PRK	Z i!!Pn 00 31 19.6		150	H=00:30:53.4 . 40°N, 24°9 E. Aftershock of Dec. 20
			N i!! 21.5			
			N i!!Sg 41.9			H=00:30:55.- Aftershock of Dec. 20 (BCIS).
		ATH	SPZNE iPn 00 31 32.3	0SW	245	H=00:30:56.- 40°2N, 24°9 E ; h=33 Km. M=4.3 (USCGS). 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).
			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 eiSg 00 33 19.6		490	
33	20	PRK	Z eiPn 01 05 34.0		150	H=01:05:07.- 40° N, 25° E. Aftershock of Dec. 20
			Z iPg 35.4			
			N iSn 53.4			
			E i! 56.3			
			N i! 56.6			
			./.			

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N°.	Date	Station	Phase	h	m	s	D	Km	Remarks
			./.						
		ATH	SPZ eiPn	01	05	44.7C		235	
			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			
			Z e		07	07.4			
34	20	PRK	Z eiPn	03	30	26.4C		155	H=03:30:01.- 40°N , 25°E. Afterschock of Dec. 20.
			Z i			27.9			
			E i!			48.1			
			N i!!Sg			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			
35	20	PRK	Z eiPn	06	09	52.4C		150	H=06:09 :27.5.-40:0 N, 24:8 E. Afterschock of Dec. 20. Felt in Xanthi (III+ at Xanthi).
			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	
36	20	PRK	Z ePn	07	04	35.3		145	H=07:04:11.- 40° N, 24° 3/4 E. Aftershock of Dec. 20.
			N i!Sg			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
			SPE	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			35.5			
			SPZ	e			39.5			
			SPN	eiSn			51.0			
			SPE	eSy			55.8			
			SPNE	ei		39	02.0			
			SPE	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	17.4	D	280	H=19:36:7 .- 40°0 N, 25°0 E (BCIS).
			SPN	iSn			48.7			
			SPNE	iiSy			54.6			
		VLS	Z	ePn	19	37	34.0		410	
			Z	ePb			37.9			
		VAM	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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International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase	h	m	s	D Km	Remarks
		VAM	Z ePn	08	44	42.4	400	
			Z ePb			47.2		
		ATH	SPZ eiPn	08	44	42.7	400	
			SPZ eiPg			55.2		
			SPE ei(Sy)		45	36.2		
41	24	ATH	SPZ iPg	01	10	10.20	86	H=01:09:54.2.- 38°.4 N, 22°.8 E.
			SPE iSg			20.7		
		VLS	Z eiPn	01	10	26.4	195	
			Z eiPy			27.5		
			Z iPg			28.8		
			N eiSy			52.0		
			N eiSg			52.7		
		PRK	Z ePn	01	10	40.5	305	
			Z eiPg			48.5		
			N eiSy		11	20.5		
		VAM	Z ePn	01	10	41.7	315	
			Z ePb			45.9		
			Z eiPy			48.4		
			E ei(Sn)		11	26.1		
			E ei(Sg)			34.0		
42	24	PRK	Z iPg	18	46	53.4	50	
			E eiSg			59.9		
43	25	PRK	Z iiPn	12	15	55.7	145	H=12:15:31.2.- 39°.8 N, 24°.7 E. M_L = 4.3
			E $iP_{33}P$			57.3		
			N iPg			58.3		
			N iiSg		16	16.5		H=12:15:28.- 39°.8 N, 24°.8 E. (BCIS).
	25	ATH	SPZ eiPn	12	16	06.90	225	
			SPZ eiPb			08.6		
		VLS	Z ePn	12	16	30.1	405	
			N eiSy		17	26.0		
		VAM	Z eiPn	12	16	41.0	495	
44	25	VLS	Z iPn	15	10	51.6	120	H=15:10:30.0.- 37°.2 N, 20°.8 E. M_L = 4.1
			E iPg			53.2		
			E iSn		11	06.1		
			E $iS_{23}S$			07.0		
		ATH	SPZ ePn	15	11	11.6	270	H=15:10.6.- About 37° 1/2 N, 21° 1/2 E. (BCIS).
		VAM	Z ePn	15	11	23.9	365	H=15:10:29.4.- 37°.3 N, 21°.1 E; h=5 Km. M= 4.3 (USCGS).
		PRK	Z ePn	15	11	40.9	525	
			Z eiPg		12	03.1		

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N°.	Date	Station	Phase		h	m	s	D	Km	Remarks
45	26	PRK	Z	iPg	14	58	32.7	90		
			E	iSg			43.7			
46	26	VLS	Z	iPg	16	13	48.5	40		
			NE	iSg			53.7			
47	26	VLS	Z	iPg	20	43	41.7	40		
			NE	iSg			47.3			
48	27	VAM	Z	eiPn	01	12	17.2	270		H=01:11:37.- 35°1/4 E, 21°0 E .
			N	eiSn			47.6			
		VLS	Z	ePn	01	12	25.2	320		
			N	eSn		13	00.2			
		ATH	SPZ	ePn	01	12	38.0	420		
			SPZ	eiPb			44.7			
49	27	VAL	Z	e(Pn)	03	23	34.4			
		ATH	SPZ	e(Pn)	03	23	34.8			
50	27	VAM	Z	eiPg	23	37	49.7	65		
			Z	eiSg			57.8			
		ATH	SPZ	ePn	23	28	16.7	285		
51	28	PRK	Z	iPg	02	36	28.7			
52	28	ATH	SPZ	iPn	08	47	06.0C	275		H=08:46:23.8.- 37° 1/2 N, 26° 3/4 E. M_L < 3.9 Felt on Samos Island (IV+ at Spatharia, IV at Vourliotes, Pythagorion).
			SPZ	eiPb			08.1			
			SPE	eiSb			41.2			
			SPE	iSg			47.3			
		VAM	Z	ePn	08	47	14.3	340		
			Z	eiPb			17.6			
			Z	eiPy			19.9			
			N	eiSn			50.8			
			E	eiSg		48	05.4			
		VLS	Z	ePn	08	47	43.3	570		
53	29	VLS	Z	ePn	20	28	15.2	115		Felt in Akarnania (IV+ at Perdikaki).
			Z	eiSg			31.9			
54	30	VLS	Z	eiPg	05	30	05.4	40		
			NE	eiSg			10.9			
55	30	ATH	SPZ	ePn	10	04	45.3	140		H=10:04:21.2.- 36°8 N, 23°4 E. M_L < 3.2
			SPE	eiSn		05	03.5			

International Seismological Centre From the ISC collection scanned by SISMOS

N°.	Date	Station	Phase		h	m	s	D	Km	Remarks
		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			
56	31	VLS	Z	eiPg	22	43	39.2	100		H=22:43:19.8.- 39°1 N, 20°9 E. M_L= 4.1 .
			NE	eiSg			52.8			
		ATH	SPZ	eiPn	22	44	00.0C	260		
			SPZ	ei(Pg)			05.1			
		PRK	Z	ePn	22	44	26.1	465		
		VAM	Z	ePn	22	44	32.0	510		

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LONG DISTANCE SHOCKS

ATHENS

DECEMBER 1965

N°.	Date	Station	Phase	h	m	s	D	Remarks
1	3	ATH	LPZ e(R)	08	06.1			
2	3	PRK	Z eiP	21	24	19.8C	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	39.2C	36°5	
			LPZ e			39.6		
		VAM	Z eiP	21	24	41.1C	37°0	
		VLS	Z eP	21	24	57.1	39°0	
3	5	PRK	Z eiP	18	27	19.2D	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	29.3C	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	48.5C	118°0	H=22:19:14.8.- East new Guinea region 6°4 S, 146°3 E ; h=109 Km. M = 6,4 (USCGS)
		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			34.7D		
		VAM	Z e	18	25	20.6	161°5	
			Z e pPKP			40.4		
		ATH	LPZ eiPKP	18	25	02.0C	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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N°.	Date	Station	Phase		h	m	s	D	Remarks
9	9	ATH	LPZ	eP	03	05	04.4	82°0	H=02:52:43.8.- Prince Edward Islands region. 43°5 S, 39°0 E ; h=33 Km. M=5.3 (USCGS).
			SPZ	e			04.5		
			SPZ	e			19.7		
			SPZ	e			34.7		
			LPZ	eS		15	16.8		
10	9	ATH	LPZ	eiP	06	21	45.1C	103°	H=06:07:48.6.-Guerrero , Mexico 17°3 N, 100°0 W; h=57 Km. M=6.0 (USCGS).
			LPZ	iPP		26	08.1C		
11	9	PRK	Z	ePKP	13	31	34.9	149°0	H=13:12:55.5. Fiji Islands 18°0 S , 178°2W ; h=650 Km . M=5.6 . (USCGS).
		RHD	Z	ePKP	13	31	37.8	149°5	
		ATH	SPZ	eiPKP	13	31	39.9D	150°5	
			SPZ	ei			45.5C		
			SPZ	ei			52.7C		
		VAM	Z	ePKP	13	31	45.8	151°5	
		VLS	Z	ePKP	13	31	47.9	152°0	
			Z	e		32	02.4		
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 44°7 N, 150°1 E ; h=35 Km. M=5.7 (USCGS).
		ATH	LPZ	iP	11	04	39.5C	85°	
			SPZ	i			39.7D		
			SPZ	i			52.4		
			LPZ	eiS		15	05.9		
		PAT	Z	eP	11	04	44.4	86°	
			Z	ei			56.8		
		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 44°7 N, 150°2 E ; h=33 Km. M=5.4 (USCGS).
		VLS	Z	ei	14	58	48.7D	86°	
		VAM	Z	eP	14	58	51.7	87°	
			Z	ei			53.9 D		
16	13	ATH	LPZ	ei	15	19	25.9D		
			LPZ	ei		33	22.1 D		
17	13	VLS	Z	eiP	22	50	15.4C	86°	H=22:37:37.2.- Kurile Islands region 44°7 N,
			Z	ei		58	59.5		

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N°.	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	06	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 ei!PP		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 i!Pn	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 Z e	22	19	11.9 15.7	86°	
		VLS	Z eP	22	19	23.6	87°	
		ATH	LPZ ei LPE eiS	22	19 29	35.2D 50.2	86°	
28	20	VLS	Z eiP	07	25	00.7C	83°	H=07:12:33.7.-Kurile Islands 50°4 N,156°6E; h=33 Km. M=5.1 (USCGS).
		VAM	Z e!(P)	07	25	08.5	85°	
29	21	PRK VLS	Z eP Z iP	00 00	44 44	01.6 12.7C	78°5 80°5	H=00:32:00.7.- Near east coast of Kamchatka . 52°6 N,158°8 E; h=67 Km. M=5.0 (USCGS).
		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 Kamchatka. 52°4 N, 160°5E; h=5 Km. M=5.1 (USCGS).
		ATH	LPZ eP LPE eiSS	00	41 57	09.2D 34.2	83°	
		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 Kamchatka. 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
	22	VLS	Z eiP	19	53	48.3C	83°	58°4N, 153°0 W; h=50 Km. M=6.5 (USCGS).
		ATH	LPZ iP LPE eiS LPE ei!SKS	19 20	53 04	48.5C 05.5 08.5	83°	
		VAM	Z eP E eiS	19 20	54 04	02.0 20.4	85°5	
34	23	VLS	Z iP N eiS	15	30 31	25.8C 26.8	5°	H=15:29:07.- Tyrrhenian Sea 40°5 N, 14°9 E ; h=320 Km. (BCIS).
		ATH	SPZ iP SPNE i!S	15	30 32	53.8C 19.5	7°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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N°.	Date	Station	Phase	h	m	s	D	Remarks
	./.	ATH	LPZ eiP	20	59	50.7C	81°	
			LPE eiScS	21	10	17.7		
			LPN eiPPS		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 eiPKP	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 eiPKP	03	16	40.7	148°5	
		ATH	SPZ eiPKP	03	16	43.3D	149°	
		VAM	Z eiPKP	03	16	47.3	150°	
			Z eipPKP		19	14.4		
		VLS	Z eiPKP	03	16	48.8D	150°5	
38	25	ATH	LPZ ei(P)	10	22	16.1D		
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	01.4	123°5	
		ATH	LPZ eiPP	04	13	39.6D	124°	
		VLS	Z ePKP	04	12	04.7	125°	
40	27	ATH	SPZ e(P)	18	10	35.1		
41	28	ATH	LPZ eiP	20	45	31.9C	91°	H=20:32:31.-
			LPZ eiPP		49	18.3		
		VAM	Z eP	20	45	40.1	93°	
		VLS	Z eiP	20	45	41.2	93°5	
42	30	VLS	Z eP	02	19	19.8	100°	H=02:05:39
		ATH	LPZ eiP	02	19	21.2C	100°5	
			LPN eSKS		30	04.8		

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