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1960

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OSSERVATORIO GEOFISICO - TRIESTE

Viale Romolo Gessi, 4

Seismological Bulletin

January 1960

Nº	Data	Character	Phase		h. m. s.	Remarks
1	1	Iu	eP	Z	05 19 22	Traces
						USCGS off coast of Sumatra 2½ N, 96 E,
						H = 05.06.54
2	3	Iu	eSS	E	11 43 20	Traces
			eM	N	51,0 ca	Sinkiang Province, China 44 N, 84½, E
						H = 11.24.00
3	3	Iv	iIP	Z+	20 21 11	Deep
			e	E	22 00	BCIS: Turhenian Sea deep 39 1/4 N, 15 1/4 E
			iISg	N	22 25	h = 250 - 300 km Felt in Calabria
			iISgSg	N	22 29	USCGS: 39½ N, 15½ E Tyrrhenian Sea
			i	N	22 53	h = 250 km, H = 20.19.30
4	4	Iu	e(M)	N	06 42 33	Traces
5	4	Iv	(e)P_n	Z	12 54 11	1050 km
			i(Sn)	E	56 16	obscured by microseisms
			iSgSgSg	N	57 14	USCGS: Romania 45 N, 27 E, H = 12.51.52
			iQ	N	57 26	
			i	N	57 37	
			M	N	58 08	
6	6	Iv	e	E	13 41 32	Very weak
			e	E	42 30	
			e	N	42 46	
7	6	Iv	iPg	Z	15 17 58,5	125 km
			iiiSg	N	18 15	BCIS: Carnian Alps, 46½ N, 12½ E,
						H = 15.17.36
8	6	Iv	iSg	E	15 21 32	Aftershock
9	6	Iv	iSg	E	15 45 43	Aftershock?
10	6	Iv	iSg	E	18 29 24	Aftershock
11	7	I	e	E	02 34 57	Weak
			e	E	35 32	
12	7	I	e(Sg)	E	06 02 27	Traces

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N°	Data	Character	Phase		h. m. s.	Remarks
13	7	I	e(Sg)	E	08 37 43	Traces
14	7	Iv	(Sg)	N	10 48 37	Traces
15	7	Iv	i(Sg)	N	10 56 26	Traces
16	7	Iu	e	Z	13 47 19	Traces
			eM	N	14 26 48	
17	7	Iv	ePg	Z	14 46 56,5	130 km
			iISg	N	47 14	
18	7	Iv	iSg	N	15 27 41	Traces
19	7	Iv	(e)Pn	E	16 52 35	340 km
			iSb	E	53 21	
			iSg	N	53 26	
			iISgSg	N	53 31	
20	7	I	i	Z	23 38 11	Traces
21	8	I	e	Z	08 04 (00)	Traces
22	8	I(d)	iSg	E	11 09 32	Traces
23	8	Iu	ePP	Z	15 04 28	Traces USCGS: Sandwich Islands 55½ S, 27½ W.- H = 14.45.53
24	8	I	i	Z	21 55 50	Traces
25	9	Iv	(e)	E	04 02 54	Initial phases obscured by microseisms
			e	E	05 55	USCGS: Southwestern Turkey 37 N, 29 E.-
			iSgSgSg	E	06 42	H = 03.58.45
			iM	E	07 48	
26	9	I	ei	Z	07 24 23	Traces
27	9	Ir	i(S)	N	07 37 (47)	h = 150 km
			i(SS)	E	41 13	Some phases lost in chart changing Hindu Kush h = ab 150 km 36 N, 69 E.- H = 07.23.50
28	10	Id	i	N	16 54 09	Traces
29	11	Iv	ePn	N	11 28 24	Traces
			i	N	29 35	
			i(Sg)	E	29 40,5	
30	12	I	i	Z	23 00 13	Traces
31	13	I	i	Z	01 54 04	Traces

N°	Date	Character	Phase		h. m. s.	Remarks
32	13	IIIu	iP	ZE-	15 54 03	10.900 km h = 140 km ca
			ipP	Z	54 33	USCGS: Southern Peru 16 S, 72 W
			iPP	Z	57 56	h = 200 km ca, M = 7½ (Pas)
			ipPP	Z	58 26	7½-7 3/4 (Berk), H = 15.40.34
			iSKS	N	04 18	
			iSKKS	N	04 37	
			iiS	E	05 13	
			ii	N	05 26	
			iSPP	N	07 24	
			iSS	N	12 02	
			eSSS	N	16 (00)	
			LQ	N	21,5 ca	
			LR	N	25,8	
			MQ	N	30,0 ca	
			MR	N	34,6 ca	
33	13	Iv	i	N	18 43 24	
			i	N	44 13	
34	14	I	i	Z	10 36 37	Traces
35	14	Iu	eP	Z	21 35 26	Traces
			ePcP	Z	36 10	USCGS: Atlantic Ocean 11 N, 43 W.- H = 21.25.15
36	15	IVu	iPP	E	09 48 00	Obscured by microseisms Z and N not recording, h = about 150 km
			iSS	E	10 02 42	
			iM	E	23,2 ca	USCGS: Near coast of southern Peru.- 4 injured and minor damage in Ica Provincia Felt in Lima area, h = ab. 150 km.- H = 09.30.24; 15 S, 75 W.- M = 7 (Pas) 6 ½ (Berk)
37	16	Id	(e)Pg	N	19 40 02	Traces
			iPgPg	E	40 11	
			iSg	N	40 19	
38	19	I	iP	Z	02 28 56	Traces
						USCGS: Near southeast coast of Kamchatka 52 N, 158 E.- H = 02.16.52,M = 6 1/4 - 6½ (Pas)
39	19	Ir	ei(Sn)	E	21 32 25	Very weak - obscured by microseisms
			eiM	E	36 08	USCGS: Sothwestern Turkey. H = 21.26.39
40	20	I(v)	i(Sg)	ZNE	12 57 43	Traces

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N°	Data	Character	Phase		h. m. s.	Remarks
41	21	IVu	(e)P'1	Z	11 02 18	Traces
			i	Z	02 40	USCGS: Fiji Islands h = ab 600 km
						16 S, 179½ E , H = 10.43.33
42	22	Id	e(Sg)	N	19 52 26	Traces
43	23	Iu	eP	Z	04 55 31	12.200 km obscured by microseisms
			eP'	Z	59 29	Ceram Island region 4 S, 127½ E.-
			ePP	Z	05 00 04	M = 6½ (Pas) H = 04.40.56
			iS	N	07 44	
			iSS	E	15 39	
			eSSS	E	19 43	
			L	N	35,0 ca	
			M	N	41,4 ca	
44	23	Iu	eP'1	Z	06 43 13	h = ab. 400 km weak and obscured by
			i!P'2	Z-	43 18,5	microseisms
			e	Z	44 34	USCGS: Fiji Islands region 17 S,
			epP'2	Z	44 59	177 W h = ab 400 km
45	23	Iu	eP	Z	07 45 49	12200 km weak and obscured by
			iP'	Z	49 42	microseisms
			eiPP	Z	50 22	USCGS: Ceram Island region M = 6½
			iPPP	ZE	52 48	(Pas) 4 S, 127½ E H = 07.31.14
			eSKS	E	56 26	
			eS	E	57 57	
			eSS	E	08 05 39	
			M	N	31,6 ca	
46	23	I	ePP	Z	18 15 37	Traces
			ePPP	E	18 12	USCGS: Ceram Island region 4 S,
			M	E	19 01,2 ca	127½ E, M = 6½ 6 3/4 (Pas)
						H = 17.56.30
47	24	Iu	eP'1	Z	04 41 29	16500 km obscured by microseisms
			iP2	Z	41 36	USCGS: Fiji Islands 15½ S, 179 W
			ei	Z	42 28	M = 6 1/4 6½ Pas H = 04.21.42
			ei	Z	43 25	
			eSS	E	04 15	
			L	E	24,3 ca	
			M	E	37,3 ca	
48	24	I	e	Z	09 36 05	Traces
49	24	Id	ePg	E	18 14 48	Traces
			eSg	N	15 (00)	
50	25	Iu	eP'1	Z	16 49 14	Traces
			eP'2	Z	49 22	USCGS: Fiji Islands 16 S, 179 W
						M = 6 1/4 (Pas); H = 16.29.26

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Nº	Data	Character	Phase		h. m. s.	Remarks
51	26	I	e	E	03 21 17	Traces
52	26	I	i	Z	03 28 03	Traces
53	26	Ir	eP	Z	09 56 36	2200 km
			eS	N	10 00 16	Obscured by microseisms Turkey
			eM	N	03 24	39½ N, 39½ E H = 09.52.00
54	26	I	e	E	13 12 16	Obscured by microseisms Turkey
			iSgSgSg	N	13 31	38 N, 29 E H = 13.05.40
			iIM	E	15 00	
55	26	IVv	iIP	Z+	20 29 13	970 km
			eiS	N	30 51	Obscured by microseisms
						BCIS: Deep epicenter in Vrancea(Romania) (Romanie) 46 N, 26½ E.- h = 150 km ca H = 20.27.05
56	27	I	i	N	16 01 20	Traces
57	27	I	e	E	21 23 50	Traces
58	28	I	e	N	03 33 52	Traces
59	28	Iv	ePn	N	14 35 34	Traces
			eSn	N	36 37	BCIS: ab. 44° 6 N, 6°5 E H = 14.34.15 Felt in Haute vallée de l'Ubaye
60	31	Iu	i	Z	05 20 57	9350 km
			i	Z	21 30	Obscured by microseisms
			eS	E	31 04	USCGS: Near east coast of Shikoku
			M	E	54,6 ca	Japan 33½ N, 134½ E, H = 05.08.18
61	31	Iu	eP'2	Z	19 27 28	Traces Samoa Islands region 16 S 172½ W H = 19.07.23

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Microseismic measurements

January 1960

Constants of the Stations

Instruments	Components	T_o	V_o	ε	Registrations
Alfani 3 kg	N - S	7.6	3.100	∞	Foto
" 3 "	E - W	7.25	3.810	∞	"
" 3 "	Z	3.9	3.000	∞	"

Date	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	2	0.2	6.0	2	0.3	6.2	0.0		
	6	2	0.2	6.0	2	0.3	6.0	0.0		
	12	2	0.3	6.3	2	0.3	6.0	0.0		
	18	2	0.2	6.0	2	0.3	6.3	0.0		
2	0	2	0.2	5.3	2	0.2	5.5	0.0		
	6	2	0.2	5.5	2	0.2	5.5	0.0		
	12	2	0.2	5.3	2	0.2	5.7	0.0		
	18	2	0.2	5.3	2	0.2	5.5	0.0		
3	0	2	0.2	5.7	2	0.1	5.0	0.0		
	6	2	0.2	5.0	2	0.1	5.0	0.0		
	12	3	0.2	2.3	3	0.2	2.7	3	0.1	2.3
	18	3	0.3	2.8	3	0.3	3.0	3	0.1	2.3
4	0	3	0.2	3.5	3	0.2	3.5	3	0.1	2.3
	6	3	0.2	3.6	3	0.2	3.6	3	0.1	2.3
	12	3	0.5	6.5	3	0.6	7.0	0.0		
	18	3	0.5	6.7	3	0.4	6.3	0.0		
5	0	3	0.4	6.0	3	0.3	6.5	0.0		
	6	3	0.3	6.0	3	0.3	6.5	0.0		
	12	3	0.3	6.0	3	0.2	6.5	0.0		
	18	3	0.2	5.7	3	0.2	5.3	0.0		
6	0	3	0.2	5.0	3	0.2	5.5	0.0		
	6	3	0.2	4.7	3	0.2	5.3	0.0		
	12	3	0.2	5.0	3	0.2	4.8	0.0		
	18	3	0.2	5.0	3	0.2	5.3	0.0		
7	0	3	0.2	5.0	3	0.2	5.0	0.0		
	6	3	0.2	4.5	3	0.2	4.5	0.0		
	12	3	0.2	6.3	3	0.2	6.0	0.0		
	18	3	0.2	5.3	3	0.2	5.3	0.0		

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Date	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
8	0	3	0.2	5.5	3	0.2	5.3	0.0		
	6	3	0.2	5.5	3	0.2	5.5	0.0		
	12	3	0.2	5.5	3	0.2	5.3	0.0		
	18	3	0.2	5.0	3	0.2	5.0	0.0		
9	0	3	0.2	5.0	3	0.2	5.0	0.0		
	6	3	0.2	4.5	3	0.2	4.5	0.0		
	12	3	0.1	4.0	3	0.1	4.0	0.0		
	18	3	0.1	3.0	3	0.1	2.7	0.0		
10	0	3	0.2	3.0	3	0.1	3.0	3	0.2	2.4
	6	3	0.2	2.8	3	0.1	3.0	3	0.3	2.7
	12	3	0.2	2.7	3	0.1	3.0	3	0.2	2.5
	18	3	0.2	2.7	3	0.1	2.7	3	0.2	2.3
11	0	3	0.2	3.0	3	0.1	2.7	3	0.1	2.5
	3	3	0.2	4.5	3	0.2	4.7	0.0		
	6	3	0.2	5.3	3	0.2	5.0	0.0		
	9	...			...			0.0		
	12	1	0.7	7.3	1	0.6	7.0	1	0.3	7.0
	15	1	0.7	7.2	1	0.6	7.2	1	0.3	7.0
	18	1	0.6	7.0	1	0.6	7.0	1	0.3	7.2
	21	1	0.6	6.9	1	0.6	7.3	1	0.3	7.1
					Regular world day					
12	0	1	0.6	6.8	1	0.5	6.8	1	0.2	6.5
	3	1	0.4	6.7	1	0.5	7.2	1	0.1	6.0
	6	3	0.2	3.0	3	0.1	2.5	3	0.2	2.5
	9	3	0.2	3.0	...			3	0.2	2.5
	12	3	0.2	3.0	3	0.2	3.0	3	0.2	2.3
	15	3	0.2	3.0	3	0.2	3.0	3	0.2	2.3
	18	3	0.2	3.0	3	0.2	3.0	3	0.3	2.4
	21	3	0.4	3.3	3	0.3	3.7	3	0.3	2.6
					Regular world day					
13	0	3	0.4	3.7	3	0.3	4.2	3	0.3	2.7
	3	3	0.5	4.5	3	0.4	4.5	3	0.3	2.9
	6	3	0.5	5.0	3	0.4	5.2	3	0.2	2.5
	9	3	0.5	5.5	3	0.4	5.7	3	0.2	2.5
	12	3	0.6	6.0	3	0.5	6.0	3	0.2	2.7
	15	3	0.5	6.0	3	0.4	6.0	3	0.2	2.5
	18	3	0.5	6.4	3	0.3	5.7	3	0.1	2.3
	21	3	0.4	5.9	3	0.2	5.5	3	0.1	2.4

Regular world day

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Date	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
					Regular world day					
14	0	3	0.4	6.0	3	0.3	6.0	3	0.1	2.4
	3	3	0.3	5.5	3	0.2	5.8	0.0		
	6	3	0.3	5.0	3	0.2	4.7	0.0		
	9	3	0.2	4.0	3	0.2	4.3	3	0.1	2.5
	12	3	0.2	4.4	3	0.2	4.7	0.0		
	15	3	0.2	4.8	3	0.2	4.8	0.0		
	18	3	0.2	4.8	3	0.2	4.6	0.0		
	21	3	0.2	4.2	3	0.2	4.3	0.0		
15	0	3	0.2	4.0	3	0.2	4.0	0.0		
	3	3	0.3	2.8	3	0.3	2.7	3	0.3	2.3
	6	3	0.4	3.0	3	0.4	2.7	3	0.3	2.0
	9	3	0.4	3.6	3	0.4	3.0	3	0.3	2.0
	12	3	0.5	3.7	...			3	0.3	2.2
	15	3	0.3	3.5	3	0.2	3.7	...		
	18	3	0.3	3.5	3	0.2	3.7	...		
	21	3	0.3	3.3	3	0.2	3.3	3	0.3	2.3
16	6	3	0.3	3.0	3	0.2	2.7	3	0.3	2.5
	3	3	0.3	3.0	3	0.2	2.7	3	0.3	2.3
	6	3	0.3	3.0	3	0.2	2.7	3	0.3	2.3
	9	3	0.3	3.0	3	0.2	2.7	3	0.3	2.3
	12	3	0.3	3.0	3	0.2	2.7	3	0.3	2.5
	15	3	0.3	3.0	3	0.2	2.7	3	0.3	2.8
	18	3	0.3	3.0	3	0.2	2.8	3	0.3	2.7
	21	3	0.3	3.5	3	0.2	3.0	3	0.2	2.3
17	0	3	0.3	5.0	3	0.2	5.3	3	0.2	2.0
	3	3	0.3	5.0	3	0.2	5.3	3	0.2	2.0
	6	3	0.3	5.0	3	0.2	5.3	3	0.2	2.0
	9	3	0.3	5.3	3	0.2	5.8	3	0.2	2.0
	12	3	0.3	5.5	3	0.3	6.0	0.0		
	15	3	0.3	5.5	3	0.3	5.7	0.0		
	18	3	0.3	6.0	3	0.3	6.0	0.0		
	21	3	0.3	5.7	3	0.3	6.0	0.0		

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Date	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
18	0	3	0.2	2.7	3	0.2	2.7	3	0.1	2.0
	3	3	0.2	3.0	3	0.2	2.5	3	0.2	2.6
	6	3	0.3	3.0	3	0.2	2.8	3	0.3	2.8
	9	3	0.3	3.3	...			3	0.2	2.5
	12	3	0.3	3.2	3	0.2	3.0	3	0.2	2.7
	15	3	0.3	3.5	3	0.2	3.0	3	0.2	2.7
	18	3	0.3	3.5	3	0.2	3.6	3	0.2	2.7
	21	3	0.3	4.5	3	0.2	4.0	3	0.2	3.0
19	0	2	0.3	5.0	2	0.4	5.7	2	0.2	4.7
	3	2	0.4	5.2	2	0.4	5.8	2	0.2	4.7
	6	2	0.4	5.5	2	0.4	5.8	2	0.2	5.0
	9	2	0.4	5.7	2	0.4	6.0	...		
	12	2	0.4	5.5	2	0.3	5.5	2	0.2	5.3
	15	2	0.4	5.3	2	0.3	5.3	2	0.1	5.3
	18	2	0.4	5.3	2	0.3	5.3	0.0		
	21	2	0.4	5.3	2	0.3	5.3	0.0		
20	0	2	0.4	5.3	2	0.3	5.3	0.0		
	3	2	0.4	5.3	2	0.3	5.3	0.0		
	6	2	0.4	5.3	2	0.3	5.3	2	0.1	4.8
	9	2	0.3	5.2	2	0.3	5.3	2	0.1	5.0
	12	2	0.3	5.2	2	0.3	5.2	2	0.1	5.0
	15	2	0.3	5.3	2	0.3	5.2	2	0.1	5.0
	18	2	0.3	5.3	2	0.3	5.0	2	0.1	5.0
	21	2	0.3	5.0	2	0.3	5.3	2	0.1	5.0
21	0	2	0.3	5.3	2	0.3	5.2	2	0.1	4.7
	6	2	0.3	5.3	2	0.3	5.3	2	0.1	4.7
	12	2	0.3	5.3	2	0.3	5.8	2	0.1	5.0
	18	2	0.3	5.4	2	0.3	5.8	2	0.1	4.7
22	0	2	0.4	5.7	2	0.3	5.7	2	0.1	5.0
	6	2	0.4	6.0	2	0.3	6.0	2	0.1	5.3
	12	2	0.3	5.7	2	0.3	6.0	0.0		
	18	2	0.3	5.8	2	0.3	6.0	0.0		
23	0	2	0.3	6.0	2	0.3	6.0	0.0		
	6	2	0.3	6.0	2	0.3	6.0	0.0		
	12	2	0.3	5.3	2	0.2	5.7	0.0		
	18	2	0.2	5.5	2	0.2	5.5	0.0		
24	0	2	0.2	5.3	2	0.2	5.5	0.0		
	6	...			...			...		
	12	2	0.2	5.5	2	0.2	5.3	0.0		
	18	2	0.2	5.3	2	0.2	6.0	0.0		

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Date	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
25	0	2	0.2	5.0	2	0.2	5.7	0.0		
	6	2	0.2	5.0	2	0.2	5.8	0.0		
	12	2	0.1	5.0	2	0.1	5.0	0.0		
	18	2	0.1	5.0	2	0.1	5.0	0.0		
26	0	2	0.2	5.5	2	0.1	5.7	0.0		
	6	2	0.2	5.7	2	0.1	6.0	0.0		
	12	2	0.2	5.6	2	0.1	5.7	0.0		
	18	2	0.2	5.5	2	0.1	5.5	0.0		
27	0	2	0.2	5.7	2	0.1	5.7	0.0		
	6	2	0.2	6.0	2	0.2	6.5	0.0		
	12	2	0.2	6.5	2	0.2	6.7	0.0		
	18	2	0.2	6.5	2	0.2	6.7	0.0		
28	0	2	0.2	6.3	2	0.2	6.7	0.0		
	6	3	0.2	3.3	3	0.1	3.0	0.0		
	12	3	0.2	3.5	3	0.2	3.3	3	0.1	3.0
	18	3	0.2	3.3	3	0.2	3.3	3	0.1	3.2
29	0	3	0.2	3.3	3	0.1	3.3	3	0.1	3.3
	6	3	0.2	4.0	3	0.1	3.7	3	0.1	3.5
	12	2	0.2	4.0	3	0.2	4.0	0.0		
	18	2	0.2	5.3	3	0.3	6.2	0.0		
30	0	2	0.3	5.7	2	0.3	6.0	0.0		
	6	2	0.3	5.7	2	0.3	5.7	0.0		
	12	2	0.4	6.0	2	0.4	5.7	0.0		
	18	2	0.5	6.2	2	0.5	6.3	2	0.1	5.3
31	0	2	0.5	6.0	2	0.5	6.0	2	0.2	5.5
	6	...			...			...		
	12	2	0.3	5.5	2	0.3	5.7	2	0.2	5.5
	18	2	0.3	5.7	2	0.2	5.5	2	0.2	5.5

C. PUPIS

7-11-60
Bmc

OSSERVATORIO GEOFISICO - TRIESTE

Viale Romolo Gessi, 4

Seismological Bulletin

February 1960

N°	Data	Character	Phase		h. m. s.	Remarks
1	1	Iv	e	E	12 04 51	1550 km
			ei	Z	05 27	USCGS: Near west coast of Crete
			eSn	Z	05 32	35 N, 23½ E, H = 11.59.34
			e	E	06 25	
			i	N	06 38	
			iSgSgSg	E	07 21	
			iQ	E	07 37	
			i(M)	E	08 08	
2	3	Iu	eP'1	Z	14 48 32	Traces
						USCGS: Tonga Islands 19 S, 173½ W
						H = Tonga Islands, H = 14.28.39
3	4	Iu	eP'	Z	04 05 45	13950 km
			e	Z	06 05	Covered by microseisms New Ireland
			i	Z	06 18	region 4½ S, 153½ E, H = 03.46.30
			ePP	Z	07 36	
			i	Z	09 16	
			ePPP	Z	10 16	
			e(SS)	N	25 21	
			L	E	44,7 ca	
			M	E	51.0 ca	
4	4	Iu	eiS	E	17 13 22	9300 km Z not recording obscured
			eiSKKS	E	13 40	by microseisms 39 N, 14.3 E off
			M		39,0 ca	east coast of Honshu, Japan
						H = 16.50.30
5	6	I(d)	(Pg)		12 02 (00)	Traces
			iSg		02 08	
6	8	Iu	eM	N	13 51,2 ca	Obscured by large microseisms
						USCGS: Drake Passage 58 S, 67 W.-
						H = 12.45.34
7	10	Iu	M	N	00 52,6 ca	Z not recording covered by large
						microseisms
						USCGS: Ceram 4 S, 128 E
						H = 23.55.49, M = 6½ - 6 3/4 (Pas)

N°	Data	Character	Phase		h. m. s.	Remarks
8	10	i	e	E	16 17 59	Traces
9	10	iu	iP'1	Z	23 39 47	Obscured by microseisms
			eP'2	Z	40 04	USCGS: Samoa Islands region 15½ S, 173 W, H = 23.19.55
10	11	i	e	E	12 53 50	Traces
11	13	iv	e	N	04 35 37	Traces
			e	E	35 56	
			iSg	N	36 14	
12	14	iv	(e)Pg	E	01 13 41,5	(110) km
			iPgPg	N	13 52,5	
			i!Sg	N	13 55	
13	14	iv	ePn	N	08 41 37	(240) km weak
			iSg	N	42 11	
14	15	i(d)	e	N	20 10 49	Slight trace
15	16	i(d)	e	N	05 50 21	Slight trace
16	16	i	ei	Z	13 04 12	Traces
17	17	id	i!Pg	N	15 33 08	34 km
			i!Sg	N	33 12,5	Lubiana, Felt Rijeka IV°
18	19	iv	ePn	Z	02 30 53,3	250 km
			ePg	E	30 56,6	BCIS: 45° 6 N, 10° 5 E
			iPgPg	N	31 01,5	West side of Garda lake, H = 02.30.14
			i!Sg	N	31 27	
19	19	Vu	eiP	Z+	10 44 34	4850 km h = ab. 200 km , 36 N, 70½ E,
			eipP	Z	45 21	Hindu Kush, h = ab 200 km, H = 10.36.46
			i(PP)	Z	46 24	
			i(PPP)	Z	46 58	
			ip(PPP)	Z	47 24	
			i!S	E	50 46	
			isS	N	52 08	
			iSS	E	54 10	
			isSS	N	55 30	
20	20	iv	iPg	ZE	04 41 15	165 km
			i!Sg	N	41 37	Lubiana; felt Perusić V° (44° 38 N, 15° 23' E,
21	20	iv	ePg	E	04 43 06	165 km aftershock
			i!Sg	E	43 28	
22	21	iVu	e(pP'1)	Z	01 07 11	Traces h = 60 km
			eP'2	Z	08 04	USCGS: South Island, New Zealand
			ePPz	Z	11 43	h = ab. 60 km , 42 S, 173 E
						H = 00.46.56

N°	Data	Character	Phase		h. m. s.	Remarks
23	21	Ir	ePn	Z	08 16 (33)	1400 km debole
			e	E	19 23	BCIS: Descructive in Diebel Choukchot
			eSgSg	N	20 28	at Melouza at Beni Ilman , 47 killed
						88 injured, heavy damages, H = 08.13.32
						USCGS: Northern Algeria, 47 killed 88
						injured and many houses destroyed at
						Beni Ilman and Melouza
24	21	I	ei	E	09 34 26	Traces Z not recording
			e	E	35 13	USCGS: Turkey 38 N, 42 E, H = 09.29.15
25	21	Iv	e	E	11 49 48	Traces
			e	N	50 01	
26	22	IVu	ezP'1	Z	01 13 14	Traces, h = ab 600 km
			izP'2		13 36	USCGS: Fiji Islands, h = ab 600 km
						20 S, 178½ W, H = 00.54.30, M = 6-6 1/4
						(Pas)
27	22	Ir	ePn	E	21 06 23	1050 km
			iSn	E	08 09	BCIS: Greece ab 39° N, 20° ½ E data in part
			iSgSg	N	09 18	incompatible, H = 21.04.6
						USCGS: Greece 39° N, 21° E, H = 21.04.09
28	23	Ir	(e)Pn	E	00 33 08	1050 km
			iSn	N	34 54	BCIS: Greece, ab. 39° N, 20°½ E,
			i1SgSg	N	36 (00)	H = 00.31,0 data in part incompatible
			iM	N	36 52	USCGS: Greece 39° N, 20°½ E, H = 00.30.58
29	23	IIr	ezPn	Z	07 36 36	1050 km
			i	Z	38 15	BCIS: Greece ab. 39° N, 20½ E, H = 07.34,5
			iSn	Z	38 25	data in part incompatible
			i1SgSg	N	39 32	USCGS: Greece 39° N, 20° E, H = 07.34.30
			iM	N	40 26	
30	23	IIr	ePn	Z	07 49 44	1050 km
			iSn	N	51 34	BCIS: Greece ab. 39° N, 20°½ E, H = 07.47,8
			iSgSg	N	52 41	data in part incompatible
			iM	N	53 30	USCGS: 39° N, 20°½ E, Greece H = 07.47.51
31	24	Iv	e	E	01 51 05	430 km debole
			ePg	E	51 16	
			ePgPg	E	51 22	
			eSn	E	51 48	
			iSg	E	52 12	
32	24	Iv	e(Pg)	E	03 14 26	220 km weak
			iSg	N	14 54	

N°	Data	Character	Phase		h. m. s.	Remarks
33	24	I	e	E	10 31 31	Traces
34	24	I(d)	e	N	15 03 59	Traces
35	24	I	e	Z	19 00 25	Traces
36	24	Iu	eiiP'	Z+-	21 56 15	Ab 14.500 km
			i	Z	58 28	USCGS: Solomon Islands, felt: Raboul
			iPP	Z	58 40	Buin, Kieta, Numa, M = 6½ - 6 3/4
			iiSKP	NE	59 39	(Pas) 7½ S, 156 E, H = 21.37.04
			e(SSP)	N	22 16 12	
			L	E	42,3 ca	
			M	E	52,3 ca	
37	25	I(d)	e	Z	22 09 13	Traces
38	26	Iu	eP'2	Z	06 52 50	Traces USCGS: Tonga Islands 20 S, 174 W H = 06.32.36
39	26	Iu	iP	Z	23 41 54	Traces obscured by microseisms USCGS: Auletian Islands, 51½ N, 178 W.- H = 23.29.25, M = 6 - 6 1/4 (Pas)
40	26	I	e	N	23 52 17	Traces
41	27	I	eL	N	00 19,5 ca	Obscured by microseisms
			eM	N	25,1 ca	
42	27	I	(e)	N	00 40 10	Traces
43	29	IIr	iP	Z+EN	23 45 28,5	2750 km Az.235° 30° 5 N., 9° 7 W
			iPP	E	46 14	H = 23.40.13 M = 6 (Strasburgo)
			iiS	N	49 50	Focus situated in the vicinity of
			L	N	51,8 ca	the town of Agadir (Morocco) where
			M	E	54 (00)	the intensity may be estimated as XI;
						several thousand killed and injured
						Felt: at Taroudant, Marrakech, Safi,
						III at Casablanca
						CASABLANCA: radius of isoseismal III:
						400 km
						USCGS: Morocco 30 N, 9 W, 10.000 dead,
						25000 wounded, major property damage
						at Agadir, H = 20.40.12

C.PUPIS

International Seismological Centre

OSSERVATORIO GEOFISICO - TRIESTE

Microseismic measurements

February 1960

Constants of the Stations

Instruments	Components	T_o	V_o	ε	Registrations
Alfani 3 kg	N - S	7.6	3.100	∞	Foto
" 3 "	E - W	7.25	3.810	∞	"
" 3 "	Z	3.9	3.000	∞	"

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	2	0.3	5.5	2	0.2	5.3	2	0.1	5.3
	6	2	0.2	5.5	2	0.2	5.5	2	0.1	5.3
	12	...			...			...		
	18	3	0.2	5.3	3	0.2	5.5	3	0.1	2.3
2	0	3	0.2	6.0	3	0.2	6.0	0.0		
	6	3	0.2	5.0	3	0.2	5.0	3	0.1	2.5
	12	3	0.2	5.3	3	0.2	5.6	0.0		
	18	2	0.2	6.0	2	0.3	6.0	0.0		
3	0	2	0.2	5.5	2	0.2	5.7	0.0		
	6	2	0.2	5.7	2	0.3	6.0	0.0		
	12	2	0.2	5.7	2	0.3	6.4	0.0		
	18	2	0.2	5.7	2	0.3	6.2	2	0.1	6.0
4	0	2	0.3	6.1	2	0.3	6.3	2	0.1	6.3
	6	2	0.3	6.3	2	0.3	6.5	2	0.1	6.5
	12	2	0.2	6.0	2	0.2	6.1	...		
	18	...			...			...		
5	0	3	0.1	2.5	3	0.1	2.5	...		
	6	3	0.2	3.0	3	0.2	3.0	...		
	12	3	0.2	2.7	3	0.2	2.5	3	0.1	2.5
	18	3	0.2	2.9	3	0.2	2.8	3	0.2	2.5
6	0	3	0.2	3.0	3	0.2	2.5	3	0.2	2.5
	6	3	0.3	3.5	3	0.3	3.3	3	0.2	2.5
	12	3	0.2	4.1	3	0.2	4.1	3	0.2	2.7
	18	3	0.2	4.3	3	0.2	4.5	3	0.1	2.5

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Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
7	0	3	0.2	4.3	3	0.2	4.7	3	0.1	2.2
	6	3	0.2	3.2	3	0.2	3.0	3	0.1	2.3
	12	3	0.2	3.0	3	0.1	3.0	3	0.1	2.7
	18	3	0.2	3.0	3	0.2	2.8	3	0.1	2.5
8	0	3	0.3	3.0	3	0.3	3.0	3	0.2	2.3
	6	3	0.4	3.1	3	0.3	3.0	3	0.3	2.4
	12	3	0.3	3.9	3	0.2	3.2	3	0.2	2.5
	18	3	0.3	3.5	3	0.3	3.3	3	0.3	2.3
9	0	3	0.4	4.3	3	0.3	3.3	3	0.2	2.5
	6	3	0.3	3.7	3	0.4	4.5	3	0.3	3.2
	12	3	0.3	3.3	3	0.3	3.0	...		
	18	3	0.3	3.0	3	0.3	3.0	...		
10	0	3	0.7	6.3	3	0.9	7.5	...		
	6	3	0.8	6.8	3	0.9	7.5	...		
	12	3	0.7	6.5	3	0.6	6.3	3	0.3	6.4
		1	0.6	6.5	1	0.6	6.1	1	0.2	6.0
11	0	1	0.5	7.2	1	0.4	6.7	1	0.2	6.7
	6	1	0.3	6.7	1	0.3	7.4	1	0.2	7.0
	12	1	0.2	6.2	1	0.3	6.7	1	0.1	6.0
	18	1	0.2	6.2	1	0.3	6.0	0.0		
12	0	3	0.1	3.0	3	0.1	3.0	3	0.1	2.7
	6	3	0.3	3.4	3	0.2	3.5	3	0.1	3.2
	12	3	0.5	4.3	3	0.3	4.0	3	0.2	3.5
	18	3	0.5	4.5	3	0.4	4.3	3	0.2	4.3
13	0	3	0.4	4.5	3	0.4	4.7	3	0.2	4.0
	6	2	0.2	4.2	2	0.2	4.0	2	0.1	3.0
	12	2	0.2	4.5	2	0.2	4.0	2	0.1	2.5
	18	2	0.2	4.7	2	0.2	4.0	2	0.1	2.7
14	0	2	0.1	4.0	2	0.2	4.0	0.0	.	.
	6	2	0.3	5.2	2	0.2	5.0	0.0	.	.
	12	1	0.5	5.3	1	0.3	6.0	1	0.3	6.0
	18	1	0.5	5.3	1	0.5	6.0	1	0.3	6.0
		.	.		.	.	.	.		
		.	.		.	.	.	.		
		.	.		.	.	.	.	.	.
		.	.		.	.	.	.	.	.

International Seismological Centre

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
15	0	1	0.5	6.0	1	0.4	5.7	1	0.2	4.4
	6	1	0.2	4.0	1	0.3	4.5	1	0.2	3.5
	12	1	0.4	5.5	1	0.3	5.0	1	0.2	4.0
	18	3	0.3	5.7	3	0.3	6.0	3	0.1	4.0
				Regular world day						
16	0	3	0.2	4.8	3	0.2	4.3	2	0.1	4.5
	3	3	0.2	4.8	3	0.2	4.3	2	0.1	4.3
	6	3	0.2	3.7	3	0.2	4.5	2	0.1	2.9
	9	3	0.2	3.7	3	0.2	4.5	2	0.1	2.9
	12	3	0.2	4.3	2	0.2	5.5	2	0.1	4.0
	15	2	0.2	4.3	2	0.2	5.3	2	0.1	4.0
	18	2	0.2	4.0	2	0.2	5.3	2	0.1	4.0
	21	2	0.2	4.7	2	0.2	5.6	2	0.1	4.3
				Regular world day						
17	0	2	0.2	4.7	2	0.2	5.5	2	0.1	4.0
	3	2	0.2	5.2	2	0.2	5.9	2	0.1	4.5
	6	2	0.2	4.7	2	0.2	5.7	0.0		
	9	2	0.2	5.3	2	0.2	6.0	0.0		
	12	3	0.2	5.0	3	0.2	5.7	3	0.2	2.0
	15	3	0.2	3.0	3	0.2	3.7	3	0.2	2.0
	18	3	0.2	3.3	3	0.2	3.7	3.3	0.2	2.0
	21	1	0.4	3.0	1	0.2	3.3	1	0.3	2.1
				Regular world day						
18	0	1	0.5	4.2	1	0.3	3.8	1	0.3	2.4
	3	1	0.7	4.3	1	0.3	4.8	1	0.3	2.6
	6	1	0.5	4.7	1	0.3	4.5	1	0.2	2.4
	9	1	0.4	5.0	1	0.3	5.0	...		
	12	1	0.3	4.2	1	0.2	4.7	1	0.1	4.3
	15	1	0.3	5.0	1	0.2	5.0	0.0		
	18	1	0.3	4.7	1	0.2	5.0	0.0		
	21	1	0.3	5.0	1	0.2	5.3	0.0		
19	0	1	0.3	6.0	1	0.2	6.0	0.0		
	6	1	0.3	6.0	1	0.2	6.0	0.0		
	12	2	0.3	5.8	2	0.3	5.7	2	0.1	5.0
	18	2	0.4	6.4	2	0.3	6.1	2	0.1	5.1

International Seismological Centre

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
20	0	2	0.4	6.6	2	0.3	6.3	2	0.2	6.0
	6	2	0.4	6.4	2	0.3	6.7	2	0.2	6.0
	12	2	0.3	6.3	2	0.3	6.0	0.0		
	18	2	0.3	6.0	2	0.3	6.0	0.0		
21	0	2	0.3	6.0	2	0.3	6.0	0.0		
	6	2	0.3	6.0	2	0.3	6.0	0.0		
	12	2	0.2	5.0	2	0.2	5.4	0.0		
	18	2	0.2	5.0	2	0.2	5.6	0.0		
22	6	2	0.2	5.0	2	0.2	5.0	0.0		
	6	...			2	0.2	4.9	0.0		
	12	2	0.2	5.3	2	0.2	5.0	0.0		
	18	3	0.2	3.5	3	0.1	3.0	3	0.1	2.0
23	0	3	0.2	3.3	3	0.2	3.0	3	0.1	2.0
	6	3	0.3	4.0	3	0.2	4.0	3	0.2	2.5
	12	3	0.4	4.5	3	0.3	4.3	0.0		
	18	3	0.2	4.2	3	0.2	4.3	0.0		
24	0	3	0.2	4.0	3	0.2	4.0	0.0		
	6	2	0.2	4.5	2	0.2	4.5	2	0.1	5.0
	12	2	0.3	5.2	2	0.2	4.8	2	0.2	5.0
	18	2	0.3	5.0	2	0.2	4.8	2	0.2	5.0
25	0	2	0.3	5.3	2	0.2	5.0	2	0.2	5.0
	6	2	0.3	5.3	2	0.2	5.3	2	0.2	5.3
	12	2	0.2	5.3	2	0.2	5.6	2	0.1	4.7
	18	2	0.2	5.2	2	0.2	5.3	2	0.1	5.0
26	0	2	0.2	5.5	2	0.3	5.3	2	0.1	5.0
	6	2	0.2	5.3	2	0.3	5.3	2	0.1	5.3
	12	2	0.3	5.3	2	0.3	5.5	2	0.1	5.3
	18	2	0.3	5.3	2	0.3	5.5	2	0.1	5.5
27	0	2	0.3	5.6	2	0.3	5.3	2	0.1	5.5
	6	2	0.3	6.0	2	0.3	6.0	2	0.2	6.0
	12	2	0.3	5.8	2	0.3	5.7	2	0.1	5.7
	18	2	0.2	5.8	2	0.3	5.3	2	0.1	5.5
28	0	2	0.2	5.3	2	0.2	5.2	2	0.1	5.3
	6	2	0.2	5.5	2	0.2	5.6	2	0.1	5.5
	12	2	0.2	5.6	2	0.2	5.7	2	0.1	5.2
	18	2	0.2	5.8	2	0.2	5.2	2	0.1	5.3
29	0	2	0.2	5.6	2	0.2	5.3	2	0.1	5.3
	6	2	0.2	5.7	2	0.2	5.5	2	0.1	5.3
	12	2	0.2	5.7	2	0.3	6.0	2	0.1	5.7
	18	2	0.3	5.6	2	0.4	5.9	2	0.2	5.6

C. PUPIS

9-11-60
Rmc

International Seismological Centre

OSSERVATORIO GEOFISICO - TRIESTE

Viale Romolo Gessi, 4

Seismological Bulletin

March 1960

N°	Data	Character	Phase		h. m. s.	Remarks
1	2	Ir	eP	Z	22 02 32	3250 km
			eM	N	11 49	weak and obscured by microseisms
						USCGS: North Atlantic Ocean: 52 N, 30 W, H = 21.56.25
2	4	Iu	eP	Z	02 28 31	Traces
						USCGS: Andreanoff Islands Auletion Islands 50½ N, 177 W, H = 02.15.56
3	4	IVu	iP	Z+	04 05 28	9300 km h = ab 100 km
			epP	Z	05 58	USCGS: Near south coast of Kyushu,-
			iPP	Z	08 48	Japan, 31N, 129 E, h = ab 100 km
			i!S	EN	15 45	H = 03.53.00, M = 6½ (Pas)
			eiSP	E	16 35	
			eSPP	E	17 27	
4	4	I(d)	(e)	N	07 53 04	Traces
5	5	Iu	eP	Z	11 34 32	Traces
						USCGS: Nepal 29 N, 81 E, H = 11.25.00
6	5	Iu	e(PP)	Z	14 08 09	ab. 11.850 km
			e	Z	08 36	USCGS: Halmaera I, 1 N, 129 E
			eSKS	E	14 19	H = 13.49.16.
			eSKKS	E	14 43	
			e	N	15 13	
			iS	N	15 36	
			i	N	16 18	
			iSS	N	23 17	
			eSSS	N	27 15	
			e	E	33 19	
			L	E	38 52	
			M	E	45 45	
7	6	I	eL	E	04 56,8 ca	Traces
			eM	N	05 04,5 ca	USCGS: Gulf of California 24 N, 108 W
						H = 04.11.54, M = 5 - 5 1/4 (Berk)

JUL 8 1960

N°	Data	Character	Phase		h. m. s.	Remarks
8	6	I	e	E	17 31 10	Traces - obscured by microseisms
9	6	I	e	N	20 42 46	Traces - obscured by microseisms
10	8	I	i	E	06 27 14	Traces
11	8	Vu	i!!!P'	Z-	16 52 47	ab 16 000 km, h = ab 250 km
			i!!PP	Z	56 08	USCGS: New Hebrides Islands 16½ S,
			iSKS	NWSE	56 28	168½ E - H = 16.33.38
			eSS	E	17 14 37	h = ab 250 km, M = 7 7 1/4 (Pas); 7 (Berk)
12	8	(IV)u	e	Z	17 03 49	aftershock ?
13	9	I	e	Z	08 40 38	Traces
			e	Z	40 47	
14	10	I	i	E	13 44 24	Traces
15	10	Iu	iP'1	Z	14 04 12	16500 km
			iP'2	Z	04 28	Large microseisms on the horizontals USCGS: Samoa Islands region 15 S, 174 W H = 13 44 25
16	11	I	i	E	07 29 40	Large microseisms on the horizontals
17	11	I	i	E	07 50 58	Large microseisms on the horizontals
18	12	Iv	i(Pg)	N	00 31 46,5	Weak (2900) km
			e	Z	32 13	
			iSg	N	32 23	
19	12	IIIv	iPn	Z	11 55 37,5	740 km
			i	Z	56 (00)	BCIS: Macedonia 42° 0 N, 21° 0 E
			iSn	NW-SE	56 53	H = 11.54.01
			e	NW-SE	57 09	SKOPJE Felt in Mount Chara region
			iSb	SW-NE	57 19	VIII at Tetovo (42° 01 N, 20° 58 E) and
			i!!SgSg	SW-NE	57 39	Gostivar (41° 40'N, 20° 52'E) VII at Prizren,
			i!SgSgSg	NW-SE	57 48	Kakanik et Skopje. Destroyer at Tetovo
			i!Q	SW-NE	57 51	(1 killed several injured). Forcibly felt
			iM	NW-SE	58 18	at Skopje, Veles, Prilep and till Belgrade USCGS: 42° N, 21° E Southern Yugoslavia 1 killed several injured at Tetovo and Dobi Dol H = 11.54.00
20	12	Iv	(e)Pn	Z	12 04 08	Traces aftershock
			eSn	E	05 22	
			iSg	E	06 02	
21	12	Iv	i	E	14 04 36	Traces aftershock?
22	12	I	e	E	14 27 16	Traces
23	12	I	e	Z	19 02 25	Traces

N°	Data	Character	Phase		h. m. s.	Remarks
24	12	Iu	(e)P'	Z	20 49 19	Traces
			iPPP	N	53 06	USCGS: 6 S, 152 E New Britain,
			eSKS	E	56 17	M = 6½ (Pas), H = 20.30.39
25	14	Iv	e	N	04 46 33	Weak
			iSg	N	46 52	
26	14	I	i(S)	E	07 19 08	Traces
27	14	I(v)	e	E	20 39 31	Traces
28	15	Iu	eP	Z	09 33 29	Traces
			eS	N	43 52	USCGS: Andreanof Islands, Auletian Islands 51 N, 174½ W, H = 09.20.56
29	15	Id	(e)Pg	N	20 59 42	(32)km
			i	Z-E	59 45	
			iiSg	E	59 48	
			i	N	59 53	
30	16	Iv	ePn	Z	01 53 51	330 km
			ePg	Z	53 58	
			e	Z	54 20	
			eSn	E	54 28	
			iSb	Z	54 37	
			iiSg	E	54 40	
31	16	Iv	ePn	E	14 33 32	250 km
			ePg	E	33 34	
			ePgPg	E	33 42	
			e	E	33 56	
			iSn	E	34 00	
			iiSg	E	34 08	
32	16	I	eiP'2	Z	17 59 14	Traces
						USCGS: Samoa Islands region 15½ S, 173½ W, H = 17.39.16
33	17	I	e	Z	18 44 29	Traces
34	20	Vu	iP	Z+	17 19 58	9400 km ca, h = ab 60 km
			ipP	Z	20 22	USCGS: Off northeast coast of
			iPP	E	23 24	Honshu Japan. Felt: Northern Honshu
			i(PPP)	E	25 34	and Southern Kokkaido 5 foot seismic
			iiS	E	30 22	sea wave at Miyako, h = ab 60 km
			iisS	N	30 50	M = 7 (Pas), 7 - 7 1/4 (Berk)
			e(SS)	E	37 03	40 N, 143½ E, H = 17.07.30
			eSSS	E	39 48	
			i	E	40 33	
			L	N	49 37	
			M	Z	56,0 ca	

N°	Data	Character	Phase		h. m. s.	Remarks
35	21	Iu	eP	Z	00 47 19	9350 km ca
			i(SKKS)	E	58 03	USCGS: Near east coast of Honshu,
			eM	E	01 21 16	Japan 39½ N, 143 E, M = 6½ (Pas)
						H = 00.34.50
36	21	Iv	ePg	E	04 39 36	160 km
			ePgPg	E	39 45	
			iSg	E	39 57	
37	21	Iu	eM	E	10 05,0 ca	Traces
						USCGS: Near east coast of Honshu
						Japan 40 N, 143 E, H = 09.18.22
38	21	Iv	ePg	Z	18 02 43	110 km
			i	Z	02 45	BCIS: Yugoslavia, 46° 0 N, 15° 2 E
			iPgPg	E	02 53	H = 18.02.22
			iiSg	E	02 59	
39	23	IIu	eiP	Z←	00 35 54	9350 km ca
			iPPP	Z	41 24	USCGS:
			iiS	E	46 23	Near east coast of Honshu, Japan
			i(SKKS)	N	46 41	39½ N, 143 E, H = 00.23.22
			e(SP)	N	47 32	M = 6 3/4 - 7 (Berk); 6½ - 6 3/4 (Pas)
			e(SPP)	E	48 31	
			e(SSS)	N	56 14	
			eL	E	06 39	
			iM	N	11 04	
40	23	Iu	iP	Z	01 19 47	Traces
						USCGS: Near east coast of Honshu
						Japan 39½ N, 143 E, H = 01.07.15
41	23	Iu	iP	Z	08 59 14	Traces
						USCGS: Near east coast of Honshu
						Japan 40 N, 142½ E, H = 08.46.44
42	23	IVu	eP	Z	10 41 25	Traces h = ab 100 km
			i			USCGS: Near east coast of Honshu
						h = ab. 100 km 39½ N, 143 E
						H = 10.29.01
43	23	Iu	e	Z	12 03 33	Tracee
						USCGS: Near east coast of Honshu
						39½ N, 143 E H = 11.51.00
44	23	Iu	eiP	Z	22 35 10	9350 km
			iS	E	45 31	USCGS: Near east coast of Honshu 39½ N,
			eM	E	09 46	143 E, H = 22.22.36, M = 6 (Pas)

N°	Data	Character	Phase		h. m. s.	Remarks
45	23	IIv	ePn	Z	23 09 52	460 km
			iPb	Z	09 59	BCIS: Alpi Bernesi 46° 20' N, 8° 06' E
			iIPg	E	10 05	Felt: Widely in Switzerland France
			iSn	SWNE	10 38	Strasburg and in Italy, property damage
			iSgSg	SWNE	11 06	at Brieg (46° 19' N, 8° 00 E) and
			eQ	SWNE	11 12	Fiesch, (46° 24' N, 8° 08' E)
			M	SWNE	11 30	H = 23.08.53
						USCGS: Switzerland 46½ N, 8 E Minor
						damage at Brigue and Sierre . Felt
						in France and Italy . H = 23.08.49
46	24	Iu	iP	Z	06 06 43	Traces
						USCGS: Kurile Islands, 47° N, 152½ E
						H = 05.54.28,
47	24	Iu	(e)	Z	15 58 58	Traces
			e	Z	16 03 27	
			e	Z	05 08	
48	24	Id	i	ZN	16 24 46	Weak
			i	E	24 50	
49	25	IVu	e(P'1)	Z	02 48 08	Traces h-ab.400 Km
						USCGS: Fiji Islands h-ab.400 Km
						19 S, 177½ W H = 02.28.56
50	25	Iv	e	E	13 50 48	Weak
			ISg	E	51 (00)	
51	27	Iu	eP'	Z	04 08 05	Weak 15400 km New Hebrides Is.
			ePP	E	11 (00)	M = 6½ (Berk) 13½ S, 166 E, H = 03.48.27
			ISKP	N	11 38	
52	27	I(d)	e	E	07 12 45	Traces
53	27	Iu	eP'	Z	09 17 27	Weak 15400 km New Hebrides Is.
			eiPP	E	20 27	M = 6½ (Berk) 13½ S, 166½ E H = 08.57.53
			eSKP	E	21 12	
54	27	Iu	eP	Z	20 29 06	Traces
			eiPP	Z	32 54	Jalisco Mexico, M = 5 3/4 - 6 (Berk)
						6 - 6/4 (Pas) 20° N, 104½ W, H = 20.15.46
55	27	Iu	eP'2	Z	23 49 09	Traces
			ePP	Z	52 49	USCGS: Off coast of North Island, N .Z
						37½ S, 177 E, H = 23.28.04
56	28	Iu	eiP	Z	00 26 34	Ab. 9900 km 7½ N, 82 W, off South coast
			e	Z	29 44	of Panama, Felt: Balboa Heights and
			i(SKS)	E	37 06	Coiba Island, H = 00.13.38, M = 6 1/4
			iIS	N	37 24	6½ (Berk) 6½ - 6 3/4 (Pas)
			eSS	E	43 36	
			eM	E	01 03 14	

N°	Data	Character	Phase		h. m. s.	Remarks
57	28	I	e	Z	00 37 12	Traces
58	28	Iv	e(Sb)	N	02 54 27	Traces BCIS: Germany , Zollernalb Felt: V-VI in epicentral region, IV - V at Stut- tgart H = 02.52.14, 48° 3 N, 9° 0 E
59	28	IVu	ePP	Z	06 58 26	Traces H = Ab. 300 km USCGS: New Hebrides Is. h = Ab. 300 km 13½ S, 165 E, H = 06.36.27
60	28	Iu	eP'	E	06 59 04	Traces USCGS: New Hebrides Island 13½ S, 166 E, H = 06.39.32,
61	28	Iu	eP'2	Z	12 58 15	Traces USCGS: Tonga Islands region, 23 S, 176 W, H = 12.37.50
62	29	Iu	eiP'	Z	06 50 37	Ab. 15900 km
			eiPP	Z	54 04	USCGS: New Hebrides Is. 17 S, 167 E
			e	N	07 10 17	H = 06.30.54, M = 6 3/4 (Pas) 6 1/4
			e	E	15 27	6½ Berk
63	30	Iu	eP'	Z	11 09 21	Weak
			ePP	Z	12 19	USCGS: New Hebrides Is. 13½ S, 166 E
			ISKP	E	13 00	H = 10.49.27, M = 6(Berk)
64	30	Id	e	E	15 38 46	Traces
			e	E	38 49	
65	30	Iu	iP'	Z	15 39 27	Traces
			eSKP	E	43 16	USCGS: Loyalty Islands region 22½ S, 174 E, H = 15.19.30
66	31	Id	e	E	06 58 (00)	Traces
			i	E	58 13	
67	31	I	i	Z	13 38 07	Traces
68	31	Iu	eL	N	20 36 21	Traces
			eM	N	44 (00)	USCGS: Gulf of California 26 N, 110 W H = 19.56.14 M = 5½ 5 3/4(Berk)

International Seismological Centre

O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Microseismic measurements

March 1960

Constants of the Stations

Instruments	Components	T_o	V_o	ε	Registrations
Alfani 3 kg	N - S	7.6	3.100	∞	Foto
" 3 "	E - W	7.25	3.810	∞	"
" 3 "	Z	3.9	3.000	∞	"

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	...			...			...		
	6	2	0.4	5.8	2	0.5	5.9	2	0.2	5.7
	12	2	0.4	5.9	2	0.5	5.8	2	0.2	6.0
	18	2	0.5	5.9	2	0.6	6.0	2	0.3	6.0
2	0	2.	0.5	5.9	2	0.5	5.9	2	0.2	5.7
	6	2	0.4	6.0	2	0.4	5.9	2	0.2	6.0
	12	2	0.3	5.4	2	0.3	5.8	2	0.1	5.7
	18	2	0.3	5.8	2	0.3	6.0	2	0.1	5.7
3	0	2	0.3	5.8	2	0.3	5.9	2	0.1	5.7
	6	2	0.3	5.8	2	0.3	5.8	2	0.1	6.0
	12	2	0.2	5.5	2	0.3	5.7	2	0.1	5.7
	18	2	0.3	5.6	2	0.3	6.0	2	0.1	5.5
4	0	2	0.2	5.7	2	0.2	6.0	2	0.1	5.3
	6	2	0.2	5.5	2	0.2	5.8	2	0.1	5.3
	12	2	0.1	5.6	2	0.2	6.0	0.0		
	18	2	0.2	5.3	2	0.2	5.7	0.0		
5	0	2	0.2	5.4	2	0.2	5.7	0.0		
	6	2	0.2	5.6	2	0.2	5.5	0.0		
	12	2	0.2	5.7	2	0.2	5.5	0.0		
	18	2	0.2	5.4	2	0.2	5.3	0.0		
6	0	2	0.2	5.1	2	0.2	5.3	0.0		
	6	3	0.1	2.6	3	0.1	2.6	0.0		
	12	3	0.1	2.7	3	0.1	2.5	0.0		
	18	3	0.1	2.5	3	0.1	2.3	0.0		
7	0	3	0.1	2.7	3	0.1	2.3	0.0		
	6	3	0.1	2.7	3	0.1	2.7	0.0		
	12	2	0.2	5.3	2	0.2	4.7	0.0		
	18	2	0.2	5.2	2	0.2	5.0	0.0		

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
8	0	2	0.2	5.2	2	0.2	4.0	0.0		
	6	2	0.2	4.5	2	0.2	4.5	0.0		
	12	2	0.2	4.7	2	0.2	4.3	0.0		
	18	...			...			...		
9	0	2	0.5	5.5	2	0.4	5.7	2	0.1	5.5
	6	2	0.6	5.5	2	0.5	5.8	2	0.2	5.5
	12	2	0.5	6.0	2	0.4	5.3	0.0		
	18	2	0.4	4.5	2	0.3	4.8	2	0.1	4.0
10	0	3	0.3	4.3	3	0.3	4.6	0.0		
	6	3	0.2	2.2	3	0.2	2.7	3	0.2	2.0
	12	3	0.2	2.7	3	0.2	2.7	3	0.2	2.5
	18	3	0.2	2.7	3	0.2	2.5	3	0.2	2.5
11	0	3	0.2	2.7	3	0.2	2.5	3	0.2	2.5
	6	3	0.2	3.0	3	0.2	2.7	3	0.2	2.3
	12	3	0.2	3.3	3	0.2	2.7	3	0.2	2.0
	18	3	0.3	3.3	3	0.3	2.7	3	0.3	2.2
12	0	3	0.3	3.5	3	0.3	3.0	3	0.3	2.3

Microseismic storm from $01^h\ 50^m$ to $20^h\ 30^m$

2	1	0.4	3.3	1	0.4	2.8	1	0.3	2.7
3	1	0.5	3.5	1	0.4	3.0	1	0.3	2.8
4	1	0.6	3.3	1	0.4	3.2	1	0.3	2.8
5	1	0.6	3.3	1	0.5	3.4	1	0.4	3.0
6	1	0.6	3.3	1	0.5	3.4	1	0.4	3.0
7	1	0.6	3.3	1	0.5	3.4	1	0.4	3.2
8	1	0.6	3.5	1	0.5	3.6	1	0.4	3.3
9	1	0.7	3.7	...			1	0.4	3.3
10	1	0.7	3.7	1	0.7	3.4	1	0.4	3.4
11	1	0.6	3.6	1	0.6	3.6	1	0.4	3.3
12	...			...			...		
13	1	0.5	3.6	1	0.5	3.6	...		
14	1	0.5	3.6	1	0.4	3.4	1	0.3	3.3
15	1	0.4	3.7	1	0.3	3.7	1	0.3	3.4
16	1	0.3	4.0	1	0.2	3.3.	1	0.3	3.3
17	1	0.3	3.3	1	0.2	3.3	1	0.2	3.0
18	1	0.2	3.5	1	0.2	3.3	1	0.2	3.0
19	1	0.2	3.5	1	0.2	3.3	1	0.2	3.0
20	1	0.1	3.2	1	0.1	3.0	1	0.1	3.1
13	0	2	0.1	3.7	2	0.1	3.5	0.0		
	6	2	0.1	3.2	0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
14	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	3	0.1	3.3	3	0.1	3.3	0.0		
	18	3	0.1	5.5	3	0.1	5.5	0.0		
	Regular world Interval combined with world Meteorological Interval									
	Regular world day									
15	0	2	0.1	6.0	2	0.1	6.3	0.0		
	3	2	0.2	6.3	2	0.2	6.7	0.0		
	6	2	0.2	6.7	2	0.2	6.8	0.0		
	9	2	0.2	7.3	2	0.2	7.0	0.0		
	12	2	0.2	6.5	2	0.1	6.7	0.0		
	15	3	0.1	2.0	3	0.1	2.0	0.0		
	18	3	0.1	2.4	3	0.1	2.0	0.0		
	21	...			...			...		
	Regular world day									
16	0	2	0.1	3.0	2	0.1	3.0	2	0.1	2.7
	3	2	0.1	3.0	2	0.1	3.0	2	0.1	3.0
	6	2	0.1	3.0	2	0.1	3.0	2	0.1	3.1
	9	2	0.2	3.3	2	0.2	3.0	...		
	12	...			2	0.1	3.5	0.0		
	15	2	0.2	3.7	2	0.1	3.5	0.0		
	18	...			...			...		
	21	2	0.2	4.0	2	0.2	3.7	2	0.1	2.2
17	0	2	0.2	4.0	2	0.2	4.3	2	0.2	2.5
	3	2	0.2	4.7	2	0.2	4.5	2	0.2	2.5
	6	2	0.2	4.7	2	0.2	4.7	0.0		
	9	2	0.2	4.7	2	0.2	4.7	...		
	12	2	0.2	4.8	2	0.1	5.5	0.0		
	15	2	0.2	5.1	2	0.1	4.6	0.0		
	18	2	0.2	4.6	2	0.1	4.3	0.0		
	21	2	0.2	5.0	2	0.1	4.8	0.0		
18	0	2	0.2	5.3	2	0.1	4.5	0.0		
	3	2	0.1	5.3	2	0.1	5.1	0.0		
	6	2	0.1	5.3	2	0.1	5.1	0.0		
	9	2	0.1	4.5	2	0.1	4.5	0.0		
	12	2	0.1	4.5	2	0.1	4.5	0.0		
	12	2	0.1	4.7	2	0.1	4.5	0.0		
	15	2	0.1	4.7	2	0.1	4.5	0.0		
	18	3	0.1	4.7	0.0			0.0		
	21	3	0.1	4.5	0.0			0.0		

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
19	0	3	0.1	4.5	3	0.1	4.5	0.0		
	3	3	0.1	4.3	3	0.1	4.5	0.0		
	6	3	0.1	4.5	3	0.1	4.7	0.0		
	9	3	0.1	4.5	3	0.1	5.0	0.0		
	12	3	0.1	4.3	3	0.1	4.5	0,0		
	15	3	0.1	4.7	3	0.1	4.5	0.0		
	18	3	0.1	4.5	3	0.1	4.5	0.0		
	21	3	0.1	4.5	3	0.1	4.5	0.0		
20	0	3	0.1	4.7	3	0.1	4.5	3	0.1	2.0
	3	3	0.1	4.5	3	0.1	5.0	3	0.1	2.0
	6	3	0.2	4.5	3	0.1	4.5	3	0.1	2.0
	9	3	0.2	4.5	3	0.1	4.3	3	0.1	2.0
	12	3	0.2	5.0	3	0.1	4.7	3	0.1	2.0
	15	3	0.2	4.0	3	0.1	4.5	3.	0.1	3.0
	18	...			...			...		
	21	3	0.1	2.7	3	0.1	3.3	3	0.1	2.0
21	0	3	0.1	2.5	3	0.1	2.5	3	0.1	2.0
	3	3	0.1	4.3	3	0.1	5.0	3	0.1	2.1
	6	3	0.1	4.3	3	0.1	5.0	3	0.1	2.0
	9	3	0.2	5.0	3	0.1	5.3	3	0.1	2.0
	12	3	0.2	5.0	3	0.1	4.7	3	0.1	2.0
	15	3	0.2	5.0	3	0.1	4.5	3	0.1	2.0
	18	3	0.2	4.5	3	0.1	5.0	3	0.1	2.0
	21	3	0.2	4.3	3	0.1	5.6	0.0		
22	0	3	0.2	4.3	3	0.1	4.0	0.0		
	3	3	0.2	5.6	3	0.1	4.7	0.0		
	6	3	0.2	5.0	3	0.1	5.0	0.0		
	9	3	0,2	4,7	3	0,1	4,7	0,0		
	12	3	0,2	4,5	3	0,2	4,5	0.0		
	18	3	0.2	4.5	3	0.2	4.7	0.0		
	21	3	0.2	4.5	3	0.2	5,0	0.0		
23	0	2	0.2	5.5	2	0.2	6.3	0.0		
	3	...			...			...		
	6	2	0.2	5.7	2	0.2	6,0	0.0		
	9	2	0.2	5.7	2	0.2	6.3	0.0		
	12	2	0.2	6.3	2	0.2	6.3	0.0		
	15	2	0.2	5.7	2	0.2	6.3	0.0		
	18	2	0.2	6.0	2	0.2	6.3	0.0		
	21	2	0.2	6.0	2	0.2	5.7	0.0		

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
24	0	2	0.2	6.0	2	0.2	6.0	0.0		
	3	2	0.2	5.6	2	0.2	6.3	0.0		
	6	2	0.2	5.7	2	0.2	6.3	0.0		
	9	2	0.2	5.3	2	0.2	6.0	0.0		
	12	2	0.2	5.6	2	0.2	6.0	0.0		
	15	2	0.2	5.3	2	0.2	5.8	0.0		
	18	2	0.1	4.7	2	0.1	5.0	0.0		
	21	2	0.1	4.5	2	0.1	4.7	0.0		
25	0	2	0.1	5.3	3	0.1	5.3	0.0		
	6	2	0.2	5.7	2	0.2	5.5	0.0		
	12	2	0.2	4.2	2	0.2	4.2	0.0		
	18	2	0.2	3.7	2	0.2	4.0	0.0		
26	0	2	0.2	3.7	2	0.2	3.7	2	0.1	2.7
	6	2	0.2	3.7	2	0.2	4.0	2	0.2	4.0
	12	2	0.3	4.2	2	0.2	4.0	2	0.2	4.0
	18	2	0.3	4.8	2	0.2	4.4	2	0.2	4.2
				Regular world day						
27	0	2	0.3	4.7	2	0.2	5.8	2	0.1	4.0
	3	2	0.2	4.5	2	0.2	4.0	2	0.1	4.0
	6	2	0.2	4.4	2	0.2	4.0	2	0.1	4.0
	9	2	0.1	4.0	2	0.1	4.3	2	0.1	4.0
	12	2	0.1	4.0	2	0.1	4.3	2	0.1	4.0
	15	2	0.1	4.2	2	0.1	4.5	2	0.1	4.0
	18	2	0.1	4.0	2	0.1	4.0	0.0		
	21	2	0.2	4.2	2	0.1	4.3	0.0		
28	0	2	0.1	4.5	2	0.1	4.3	0.0		
	6	2	0.1	4.0	2	0.1	4.5	0.0		
	12	2	0.1	3.3	0.0			2	0.1	2.0
	18	2	0.1	3.3	0.0			2	0.1	2.0
29	0	2	0.1	3.8	2	0.1	4.0	0.0		
	6	2	0.1	4.2	2	0.1	4.0	0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
30	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
31	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

Seismological Bulletin

A p r i l 1960

Nº	Date	Character	Phase		h. m. s.	Remarks
1	1	Iv	e	E	18 52 19	Weak.
			e	Z	52 30	
			i	Z	53 20	
			i	N	54 32	
2	1	IVu	eiP'2	Z	23 21 29	Traces. h = 550 km USCGS: Fiji islands, h = ab. 550 km. 17 1/2 S 180. H = 23 02 31
3	3	Id	e	E	03 48 09	Traces.
			i(Sg)	E	48 18	
4	3	I(d)	i	E	20 14 34	Traces.
5	5	I	i	Z	13 50 12	Traces.
6	5	I	i	Z	19 53 19	Traces.
7	5	I	e	E	23 38 26	Traces.
8	6	I	i	Z	20 52 51	Traces.
9	7	Iu	iP	Z	14 06 28	Traces. h = ab. 500 km. Fiji islands 24 S 179 1/2 W h = ab. 500 km M = 6 (Berk) H = 13 47 28
10	7	Iu	e	E	19 48 27	Traces.
			e	Z	- 50 15	
11	8	I	i	Z	00 15 26	Traces.
			i	Z	15 35	
			i	Z	15 50	
12	9	I	i	Z	07 53 54	Traces.
13	10	Iu	iP	Z	20 38 35	Traces. USCGS: Fox Islands, Aleutian Islands 53 N, 167 1/2 W H = 20 26 12
14	10	Ir	eP	Z	22 08 38	1500 km USCGS: Western Turkey H = 22 05 29
			iIS	N	12 55	
			iQ	N	13 19	
			iM	N	14 06	

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N°	Date	Character	Phase		h. m. s.	Remarks
15	12	Ir	eP	Z	04 25 48	1500 km
			e	N	29 18	USCGS: Western Turkey H = 04 22 35
			iS	E	30 07	
			iM	E	31 18	
16	13	Id	iPg	N	05 57 49	70 km weak
			iSg	N	58(00)	
17	15	Iv	ePg	Z	02 45 54	240 km
			ePgPg	Z	46(00)	
			iISg	E	46 24	
			iSgSg	E	46 34	
18	15	Iu	eP'	Z	03 45 01	Traces
						USCGS: Easter Island region 27 S
						113 W H = 03 25 38 M = 6 1/2 (Pas)
19	15	Iv	i	Z	11 10 05	Weak
			i	E	10 12	
			iSg	E	10 17	
20	15	Iv	iSg	E	18 58 10	Traces
21	15	Iu	eP'	Z	22 24 44	ab.15500 km Weak and covered by
			ei	E	27 38	microseisms
			ePP	Z	27 44	USCGS: New Hebrides Islands 13 1/2 S
			iSKP	E	28 19	166 E H = 22 05 06 M = 6 1/2 (Pas)
			eSS	EN	46 04	
22	17	I(d)	i	Z	13 54 48	Traces
23	20	Id	i(Sg)	N	15 31 08	Traces
24	21	Iv	e	E	07 12 26	Traces
			e	Z	12 42	
			i	E	12 50	
25	21	I	e	Z	11 50 22	Traces
26	21	Iu	eP'1	Z	16 41 54	Traces
						USCGS: Tonga Islands 20 1/2 S, 174 W
						H = 16 21 57
27	21	I	e	E	20 38 22	Traces
			e	E	38 47	
			e	Z	39 39	
28	22	IVu	eP'1	Z	20 45 57	ab. 16700 km
			iIP'2	Z-	46 04	Weak h = ab 200 km
			i	Z	46 12	Tonga Islands 17 1/2 S 174 1/2 W
			ipP2	Z	46 54	ab 200 km H = 20 26 28
			ePP	Z	49 37	

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Nº	Date	Character	Phase		h. m. s.	Remarks
29	23	Iv	e	E	11 00 01	Weak
			eSg	E	00 24	
30	23	Iv	iPn	Z	11 44 44	350 Km
			iSn	E	45 22	BCIS: The Roman Apennines Foligno Region
			iSg	E	45 38	43 0 N 13 0 E
			iM	E	46 04	H = 11 43 55
31	23	Iu	eP	Z	13 18 23	Traces
						USCGS:Outer Mongolia 45 N, 98 E
						H = 13 08 35
32	24	Id	e	N	03 28 31	Traces
33	24	IV u	eP	Z	03 35 15	11.200 Km
			epP	Z	37 27	h = ab. 600 Km Java Sea 6 S 113 1/2 E
			e	Z	39 14	H = 03 22 23
			iPP	Z	39(32)	h = ab. 600 Km
			epPP	Z	41 20	
			iSKS	E	44 57	
			eSKKS	N	45 23	
			i	E	45 35	
			eSP	N	47 32	
			eSPP	N	48 11	
			isSKS	E	48 46	
			eSS	N	53 15	
			esSS	N	56 30	
			eSSS	E	57 16	
34	24	Iv	e	Z	12 05 46	Weak
			e	E	06 14	
			eSg	E	06 34	
35	24	Ir	eiP	Z	12 21 38	4050 Km
			iS	E	27 20	USCGS: Southern Iran 28 N 54 1/2 E
			iPcS	N	27 33	500 dead, many injured and major pro-
			eL	N	31 48	perty damage at Gerash and Lar
			eM	N	36 09	H = 12 14 26
36	25	Iv	e	Z	01 25 39	Weak
			e	E	25 46	
			e(Sg)	E	26 02	
37	25	Iv	e	E	16 33 57	1220 Km
			eSgSg	N	34 37	Initial phases obscured by micro-
			eSgSgSg	Z	34 44	seisms
			iQ	N	35(00)	USCGS: Aegean Sea 38 1/2 N 25 E
			e	E	35 07	H = 16 28 32
			iM	E	35 38	

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N°	Date	Character	Phase		h. m. s.	Remarks
38	26	Iv	e(Sg)	Z	11 02 20	Traces BCIS: Bernesi Alps 46 7 N, 7 5 E H = 10 59 55
39	28	Ir	eM	N	16 43,0ca	Traces. Dodecanese Islands 35 1/2 N 27 E H = 16 33 25
40	28	I	e(M)	N	19 53,4ca	Traces
41	29	Iu	ePP	Z	19 50 21	11300 Km
			ePPP	Z	52 39	USCGS: Celebes 0, 122 E
			iSKS	E	56 38	H = 19 32 12
			eSP	E	59 21	
			L	E	22,2ca	
			M	E	28,4ca	
42	30	Iv	e	E	00 52 52	Weak
			iSg	N	53 17	
43	30	I(v)	e	E	00 56 08	Traces
44	30	Iv	e	N	01 39 44	Traces
			i	N	39 58	
45	30	Iv	e	E	02 02 10	Traces
			e(Sg)	E	02 22	
46	30	Iv	e	E	02 56 38	Traces
47	30	Iu	iSKS	E	04 26 08	Traces USCGS: Celebes 0, 122 E H = 04 01 32
48	30	I	e	E	10 20 10	Traces

C. PUPIS

International Seismological Centre

O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Microseismic measurements

April 1960

Costants of the Stations

Instruments	Components	T_o	V_o	ε	Registrations
Alfani 3 kg	N - S	7.6	3.100	∞	Foto
" 3 "	E - W	7.25	3.810	∞	"
" 3 "	Z	3.9	3.000	∞	"

Data	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	2	0.1	5.0	2	0.1	5.0	0.0		
2	0	2	0.1	5.0	2	0.1	5.0	0.0		
	6	2	0.1	5.0	2	0.2	5.0	0.0		
	12	2	0.2	5.0	2	0.2	4.7	0.0		
	18	2	0.2	5.0	2	0.2	5.0	0.0		
3	0	2	0.2	4.7	2	0.2	5.0	0.0		
	6	2	0.2	5.0	2	0.2	4.8	0.0		
	12	2	0.2	5.0	2	0.2	4.7	0.0		
	18	2	0.2	5.0	2	0.2	5.3	0.0		
4	0	2	0.2	5.0	2	0.2	5.0	0.0		
	6	2	0.2	5.0	2	0.2	5.0	0.0		
	12	2	0.2	4.7	2	0.2	5.0	0.0		
	18	2	0.2	4.7	2	0.2	5.0	0.0		
5	0	2	0.2	5.0	2	0.2	5.0	0.0		
	6	2	0.2	5.0	2	0.2	5.0	0.0		
	12	2	0.2	5.0	2	0.2	5.2	0.0		
	18	2	0.2	5.3	2	0.2	5.5	0.0		
6	0	2	0.2	5.3	2	0.2	5.7	0.0		
	6	2	0.2	5.3	2	0.2	5.7	0.0		
	12	2	0.2	5.2	2	0.2	5.3	0.0		
	18	2	0.2	5.0	2	0.2	5.0	0.0		
7	0	2	0.2	5.3	2	0.2	5.3	0.0		
	6	2	0.2	5.0	2	0.2	5.0	0.0		
	12	2	0.1	5.0	2	0.1	5.0	0.0		
	18	2	0.1	5.0	2	0.1	5.0	0.0		

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
8	0	2	0.1	5.0	2	0.3	5.2	0.0		
	6	2	0.5	5.0	2	0.3	5.3	0.0		
	12	2	0.2	5.3	2	0.3	5.3	0.0		
	18	2	0.2	5.3	2	0.1	5.3	0.0		
9	0	2	0.2	5.9	2	0.2	6.0	0.0		
	6	2	0.2	6.2	2	0.2	5.9	0.0		
	12	2	0.2	6.5	2	0.2	6.5	0.0		
	18	2	0.2	6.4	2	0.2	6.3	0.0		
10	0	2	0.2	6.3	2	0.2	6.5	0.0		
	6	2	0.2	6.5	2	0.2	6.7	0.0		
	12	2	0.3	6.7	2	0.3	7.0	0.0		
	18	2	0.3	6.7	2	0.3	6.5	0.0		
11	0	2	0.3	6.7	2	0.3	7.2	0.0		
	6	...			2	0.3	6.9	0.0		
	12	...			2	0.2	6.7	0.0		
	18	2	0.3	6.8	2	0.3	7.0	0.0		
12	0	2	0.3	6.8	2	0.3	6.9	0.0		
	6	2	0.2	6.9	2	0.2	7.3	0.0		
	12	2	0.2	6.5	2	0.2	6.5	0.0		
	18	2	0.2	6.0	2	0.2	6.0	0.0		
13	0	2	0.2	6.0	2	0.2	6.3	0.0		
	6	2	0.2	6.2	2	0.2	6.3	0.0		
	12	2	0.3	6.7	2	0.3	6.7	0.0		
	18	1	0.6	7.5	1	0.6	7.7	1	0.4	7.3
14	0	1	0.8	8.0	1	0.9	8.0	1	0.5	7.5
	6	1	0.6	8.0	1	0.7	8.2	1	0.4	8.0
	12	1	0.5	7.2	1	0.7	7.5	1	0.4	7.5
	18	1	0.4	7.2	1	0.4	7.2	1	0.3	7.0
15	0	1	0.3	6.8	1	0.3	6.7	1	0.2	7.0
	6	1	0.3	6.6	1	0.3	6.7	1	0.2	7.0
	12	0.0			0.0			3	0.1	2.2
	18	3	0.1	2.2	3	0.1	2.2	3	0.1	2.0
16	0	3	0.1	2.0	3	0.1	2.2	3	0.1	2.0
	6	3	0.1	2.2	3	0.1	2.3	3	0.1	2.0
	12	3	0.1	2.3	3	0.1	2.4	3	0.1	2.0
	18	3	0.1	2.5	3	0.1	2.3	3	0.2	2.1

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
17	0	3	0.1	2.8	3	0.1	2.3	3	0.1	2,0
	6	3	0.1	2.6	3	0.1	2.1	3	0.1	2.0
	12	3	0.1	2.7	3	0.2	2.5	3	0.2	2.3
	18	3	0.1	2.7	3	0.2	2.3	3	0.2	2.0
18	0	3	0.1	2.8	3	0.2	2.3	3	0.2	2.0
	6	3	0.1	2.5	3	0.1	2.5	3	0.1	2.0
	12	3	0.1	2.3	3	0.1	2.5	3	0.1	2.3
	18	0.0			0.0			3	0.1	2.3
Regular world day										
19	0	0.0			0.0			3	0.1	2.0
	3	0.0			3	0.1	2.3	3	0.1	2.0
	6	0.0			0.0			3	0.1	2.0
	9	...			0.0			3	0.1	2.0
	12	3	0.1	2.7	0.0			3	0.1	2.0
	15	3	0.1	3.5	0.0			0.0		
	18	3	0.1	3.6	0.0			0.0		
	21	2	0.1	3.6	2	0.1	4.0	0.0		
Regular world day										
20	0	2	0.1	4.0	2	0.1	4.0	0.0		
	3	2	0.1	4.0	2	0.1	4.0	0.0		
	6	2	0.1	4.0	2	0.1	4.0	0.0		
	9	2	0.1	4.0	0.0			0.0		
	12	0.0			0.0			0.0		
	15	2	0.1	4.0	0.0			0.0		
	18	2	0.1	4.5	0.0			0.0		
	21	2	0.1	4.5	2	0.1	5.0	0.0		
Regular world day										
21	0	2	0.1	5.0	2	0.1	5.0	0.0		
	3	2	0.1	5.0	2	0.1	5.0	0.0		
	6	2	0.1	5.0	2	0.1	5.0	0.0		
	9	2	0.1	5.2	2	0.1	5.3	0.0		
	12	2	0.1	5.0	2	0.1	5.0	0.0		
	15	2	0.1	5.0	2	0.1	5.0	0.0		
	18	2	0.1	5.5	2	0.1	5.5	0.0		
	21	2	0.1	5.2	2	0.1	5.3	0.0		
22	0	2	0.1	5.3	2	0.1	5.3	0.0		
	6	2	0.2	5.7	2	0.2	5.7	0.0		
	12	2	0.2	5.7	2	0.2	6.0	2	0.2	6.0
	18	2	0.3	6.0	2	0.3	6.6	2	0.2	6.0

STN
8/3/60

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TE/sec
23	0	2	0.5	6.5	2	0.4	7.0	2	0.2	7.0
	6	2	0.4	6.7	2	0.3	7.0	2	0.2	7.0
	12	...			...			...		
	18	2	0.2	6.0	2	0.2	6.0	2	0.1	5.3
24	0	2	0.2	5.3	2	0.2	5.5	0.0		
	6	2	0.1	5.2	2	0.1	5.3	0.0		
	12	...			...			...		
	18	2	0.1	5.2	2	0.1	5.0	0.0		
25	0	2	0.1	5.2	2	0.1	5.0	0.0		
	6	2	0.1	5.0	2	0.1	5.0	0.0		
	12	0.0			3	0.1	2.0	3	0.1	2.0
	18	3	0.1	2.5	3	0.1	2.3	3	0.2	2.0
26	0	3	0.1	2.3	3	0.1	2.0	3	0.1	2.0
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
27	0	0.0			0.0			0.0		
	6	3	0.1	2.0	3	0.1	2.0	3	0.1	2.0
	12	3	0.1	2.0	3	0.1	2.0	3	0.2	2.0
	18	3	0.1	2.5	3	0.2	2.2	3	0.2	2.2
28	0	3	0.2	3.0	3	0.2	2.8	3	0.2	2.5
	6	3	0.1	3.3	3	0.2	2.7	3	0.1	2.5
	12	3	0.1	3.3	3	0.1	3.0	3	0.1	2.0
	18	0.0			0.0			0.0		
29	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
30	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	3	0.1	2.0	3	0.1	2.0	3	0.1	2.0
	18	3	0.1	3.1	3	0.1	3.0	3	0.1	2.0

9-13-60
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International Seismological Centre

O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

Seismological Bulletin

M a y 1960

Nº	Date	Character	Phase		h. m. s.	Remarks
1	1	Iv	il(Pg)	E	01 33 17	(235)km
			e	E	33 35	
			iSg	E	33 46	
2	1	I	e	Z	18 11 46	Traces
			e	Z	13 15	
3	2	Iu	e	Z	01 08 49	Traces USCGS: SinKiany Province, China 44 N, 84 1/2 E H = 01 00 00
4	2	I	e	Z	08 42 26	Traces
5	2	I	i	Z	08 51 59	Traces
6	2	Iu	e(P')	Z	12 28 04	Traces
			iSKKS	E	35 07	USCGS: Celebes 0, 121 1/2 E H = 12 10 11
7	2	I(r)	eP	Z	18 41 03,5	Weak
			eS	E	45 06	
8	3	I	e	Z	07 05 23	Traces USCGS: Iran Felt : Lar 29 1/2 N 55 E H = 06 59 04
9	3	Iu	i	Z	08 06 05	Traces USCGS: China 29 N 99 1/2 E H = 07 55 07
10	3	IVu	eiP	Z	22 35 20,5	Traces h = ab 150 km USCGS: South of Honshu Japan h = ab 150 km 32 N 140 E H = 22 22 41
11	4	I(v)	eSg	E	10 47 23	Traces
12	4	Iu	(e)P'2	Z	18 49 34	Traces
			e	Z	51 30	USCGS: Loyalty Islands region 20 S 173 E H = 18 29 40

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N°	Date	Character	Phase		h. m. s.	Remarks
13	5	Iv	e	E	08 21 25	Traces
			e	E	21 53	
14	6	Iu	i	N	23 19 10	Traces
15	7	I	e	Z	11 36(03)	Traces
16	7	I	ei	Z	16 46 21	Traces
17	7	Iv	e	E	19 14 54	Traces
			e	E	15 37	
			e(Sg)	E	16 21	
18	9	Iu	iP	Z	00 23 46	Traces USCGS: Ryukyu Islands 42 N 143 E H = 00 11 10
19	9	Iu	e	Z	16 37 10	Traces USCGS: Atlantic Ocean 33 1/2 W 6 1/2 N H = 16 27 26
20	10	I	i	Z	11 46 43	Traces
21	10	I	e	Z	23 30 15	Traces
22	11	Iv	ePn	Z	13 25 37,5	250 km
			i(PgPg)	Z	25 45	BCIS: Emilia Italy 44 6 N
			iSn	N	26 04	11 2 E H = 13 25 00
			iSg	E	26 13	
			iM	Z	26 32	
23	11	Iu	eL	N	19 31,5 ca	Traces
			eM	N	36,0 ca	
24	11	Iu	ePP	Z	18 55 19	Traces USCGS: Ceram Sea 3 S 131 E H = 18 36 00 M = 6 1/2 (Pas)
25	12	Iu	eiP	Z	22 45 26	Ab 9800 km
			ePP	Z	48 53	USCGS: Panama Felt 7 1/2 N
			eiSKS	E	55 51	81 W H = 22 32 32
			iS	EN	56 12	
			e(SPP)	E	58 11	
			eM	E	23 22,3	
26	12	Iu	eP	Z	23 13 29	Traces USCGS: Near South Coast of Panama 7 1/2 N 80 1/2 W H = 23 00 36
27	12	I	ei	Z	06 30 40	Traces

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N°	Date	Character	Phase		h. m. s.	Remarks
28	13	Iv	eSb	Z	03 58 21	Traces
			eSg	E	58 32	BCIS: Bas-Rhin; Felt widely in Massif du Champ du Feu, at Grendelbruch, Schirmeck, Natzwiller, etc. and as far as Dabo, Strasbourg, Selestat and Ribeauville. H = 03 55 36 48 5 N 7 3 E
29	13	Iu	eiP	Z	16 19 22,5	8800 km
			e^{I}PcP	Z	19 39	USCGS: Alaska Peninsula 55 N 161 1/2 W
			ePP	Z	22 36	H = 16 07 12
			ePPP	Z	24 31	
			eS	N	29 25	
			i	N	29 55	
30	14	Iu	iP	Z	22 31 51	Traces
			ei	Z	32 11	USCGS: Kamchatka 53 1/2 N 159 1/2 E
31	15	Iu	(e)P	Z	13 43 05	Traces
						USCGS: Near east coast of Formosa 24 N 121 1/2 E H = 13 30 20
32	18	IVu	eiP	Z	06 47 44	(9700) km deep
			ePP	Z	51 05	USCGS: Ryukyu Islands h = ab 100 km
			eiSKS	E	58(01)	29 N 130 E H = 06 35 09
			iS	E	58 16	
			eL	N	15,5ca	
			eM	N	21,6ca	
33	18	I(r)	i	N	08 53 48	Traces
			i	N	58 24	
34	19	IVu	iP	Z-	02 14 52	4900 km h = ab 140 km
			eipP	Z	15 27	USCGS: Hindu Kush h = ab 200 km
			iPP	Z	16 36	36 N 71 E H = 02 07 00
			ipPP	Z	17 09	
			ePPP	Z	17 27	
			epPPP	Z	17 48	
			iS	N	21 16	
			eSS	N	24 36	
35	19	Iu	eP	Z	10 24 13	9100 Km
			ePCP	Z	24 22	USCGS: Mascarene Islands region 17 S
			iS	E	34 23	66 E H = 10 11 51
			iSP	E	36 07	
			e	N	47 17	
36	19	Iv	e	N	23 42 25	Traces
			e	E	44 21	
37	20	I(r)	i	N	04 27 05	Traces
			i	N	31 44	

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Nº	Date	Character	Phase		h. m. s.	Remarks
38	20	Iu	eiP'1	Z	11 32 28	16950 km
			iP'2	E	32 48	USCGS: Norfolk Islands 28 S 167 1/2 E
			ei	Z	34 09	H = 11 12 31
			eSKP	E	36 06	M = 6 1/2 - 6 3/4 (Pas)
			iPP	Z	36 21	
			eSKS	E	39 26	
			L	E	30,0ca	
			M	E	44,3ca	
39	21	Iv	(e)Pn	E	06 43 36	1090 km
			e	E	45 06	USCGS: Near west coast of Greece
			eSn	E	45 26	37 1/2 N 21 E H = 06 41 10
			iSgSgSg	E	46 41	
			iM	E	47 29	
40	21	IIIu	eP	Z	10 17 42	D = 12650 km ca
			iP'	Z	21 29	USCGS: Near Coast of Chile. Many ca-
			iPP	Z	22 27	sualties and extensive property dama-
			i	E	22 41	ge at Concepcion and surronding area
			iPPP	Z	25(00)	37 1/2 S 73 1/2 W
			iSKS	N	28 31	H = 10 02 50
			iS	N	30 27	M = 7 1/4 - 7 1/2 (Berk)
			iISP	N	32 20	
			iSPP	N	33 26	
			iSS	N	38 41	
			iSSS	N	42 39	
			L	Z	57,5ca	
			M	Z	11 04,6ca	
41	21	Iu	ePP	Z	13 19 34	Traces
			ePPP	Z	22 04	USCGS: Chile 37 1/2 S 72 1/2 W
						H = 12 59 58
42	21	Iu	ePP	Z	14 51 30	Traces
			ePPP	Z	54 05	USCGS: Chile 37 1/2 S 72 1/2 W
						H = 14 31 55
43	21	Iv	e(Pn)	E	21 08 57	(490)km
			i	Z	09 39	
			iSg	E	10 13	
44	22	Iu	ePP	Z	06 21 21	Traces
						USCGS: Chile 38 S 73 1/2 W
						H = 06 01 36
45	22	Iu	ePP	Z	08 30 30	Traces
						USCGS: Chile 37 1/2 S 73 W
						H = 08 10 53

International Seismological Centre

N°	Date	Character	Phase		h. m. s.	Remarks
46	22	IIu	iPP	E	10 50 17	12700 km obscured by the next shock
			iPPP	Z	52 47	USCGS: Near coast of Chile 38 S
						73 1/2 W H = 10 30 39 M = 6 1/2 (Pas)
						6 1/4 (Berk)
47	22	IIu	iP'	Z	10 51 31	12600 km
			iPP	E	52 23	USCGS: Near coast of Chile 37 1/2 S
			ePPP	Z	54 48	73 W H = 10 32 43 M = 7 1/4 - 7 1/2
			iSKS	E	58 10	(Pas) 7 (Berk)
			iIS	E	11 02 07	
			eSS	E	08 28	
			eSSS	E	12 30	
			L	E	25,8ca	
			M	E	35,0ca	
48	22	Iu	ePP	Z	12 36 22	Traces
						USCGS: Chile 38 S 73 W
						H = 12 16 43
49	22	IIIu	eP	Z	19 10 50	Ab 12700 km
			iPP	E	15 32	USCGS: Near coast of Chile 38 S
			iPPP	E	18(00)	73 1/2 W H = 18 55 57
			iSKS	E	21 24	M = 7 3/4 (Berk)
			eS	E	23 19	
			iSP	E	25 12	
			iISS	N	30 51	
50	22	IIIu	i(P')	Z	19 29 45	Obscured by the preceding shock
			iPP	Z	30 27	USCGS: Near coast of Chile 38 S
						73 1/2 W H = 19 10 47
						M = 7 1/2 - 7 3/4 (Berk)
51	22	IIIu	iP'	Z	19 30 07	Obscured by the preceding shock
			i(PP)	Z	30 52	USCGS: Near coast of Chile 38 S
						73 1/2 W H = 19 11 20
						M = 8 1/4 - 8 1/2 (Pas) 8 1/2 (Berk)
52	23	Iu	iPP	E	00 45 33	12850 km
			iSKS	E	51 18	Near east coast of Chile 38 1/2 S
			eSP	E	55 11	75 W H = 00 25 44
			eSS	E	01 01 36	
			eSSS	E	05 48	
			eM	E	31 21	
53	23	Iu	ePP	E	01 10 42	Ab 12600 km
			ePPP	Z	13 23	USCGS: Chile 37 1/2 S 72 W
			eSKS	E	16 34	H = 00 51 12

International Seismological Centre

N°	Date	Character	Phase		h. m. s.	Remarks
54	23	lu	ezPP	E	03 06 22	12850 km
			ePPP	E	08 55	USCGS: Southern Chile 41 1/2 S
			e	E	16(22)	73 1/2 W H = 02 46 30
			eSSS	E	26(11)	
			M	E	52,1ca	
55	: 23	lu	ePP	Z	05 33 12	12700 km
			iPPP	E	35 54	USCGS: Chile 38 S 73 1/2 W
			eSKS	E	39 22	H = 05 13 35
			eSS	N	49 34	
			eM	N	06 16,3	
56	23	lu	eP'	Z	07 28 23	Traces
			e	Z	29 26	USCGS: Off coast of Chile 48 S
			ePP	Z	29 47	77 W H = 07 09 17
			eM	E	08 22,3ca	
57	23	lu	ePP	Z	10 11 54	Traces
			ePPP	Z	14 22	USCGS: Chile 37 1/2 S 73 W
			iSKS	E	17 45	H = 09 52 20
			eM	N	57,3ca	
58	23	lu	ePP	E	10 58 06	Traces
			eM	E	11 45,1ca	USCGS: Chile 43 1/2 S 73 1/2 W
						H = 10 37 59
59	23	l	i	Z	12 00 36	Traces
60	23	lu	ePP	Z	14 21 45	Traces
						USCGS: Near coast of Chile
						H = 14 01 50
61	24	lv	(e)Pn	E	00 57 40	Weak 280 km
			ePg	E	57 44	
			eSn	E	58 12	
			eSb	E	58 18	
			iSg	E	58 21	
62	24	ld	e	E	08 58 21,5	Traces
			i	E	58 23,5	
63	24	lu	eP'1	Z	15 06(40)	Ab 17900 km
			i	Z	06 45	USCGS: South Island, New Zealand
			iP'2	Z	07 34	Felt. Milford Sound. 44 1/2 S
			iPP	Z	11 18	167 1/2 E H = 14 46 34
			ePPP	Z	14 56	M = 6 3/4 - 7 (Pas) 6 1/4 - 6 1/2
			eSKKS	E	17 27	(Berk)
			eM		16 14,4ca	

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Nº	Date	Character	Phase		h. m. s.	Remarks
64	24	Iu	i	Z	15 09 27	Obscured by the preceding shock.
			i	Z	11 18	
65	25	Iu	eP'	Z	08 53 32	13300 km
			ePP	N	54 45	USCGS: Off coast of Chile 45 S
			ePPP	Z	57 27	76 W H = 08 34 33 M = 6 3/4
			eSKS	E	09 00 24	(Pas) 6 1/4 - 6 1/2 (Berk)
			eS	E	02 32	
			eSP	E	04 38	
			iSKSP	E	05(00)	
			iSS	N	11 12	
			eSSS	N	15 19	
			L	N	29,6ca	
			M	N	38,3ca	
66	26	Iv	i	N	00 51 05	(750) km
			eSn	N	51 14	
			iSgSg	E	51 58	
67	26	Iv	e	N	00 57 55	(800) km
			e(Sn)	N	58 04	
			e	N	58 52	
68	26	IIIv	iPn	Z+	05 11 58	780 km
			iSn	NW-SE	13 19	BCIS: Albania 40 6 N 20 6 E
			iSb	SW-NE	13 51	Farcibly felt in Korce region,
			i!SgSg	SW-NE	14 06	press: 6 killed, a hundred injured
			iM	NW-SE	14 48	and heavy property damage.
						USCGS: Albania, Greece borden
						40 N 20 E H = 05 10 05
						M = 6 1/2 (Pas)
69	26	Iv	e	E	05 39 47	(800) km
			iSn	E	41 04	
			i!Q	E	42 06	
			M	E	42 36	
70	26	I	e	Z	11 43 42	Traces
71	26	I	e	E	18 24 49	Traces
			i	E	26 22	
72	26	I	e	E	18 35 20	Traces
73	26	Iu	iP	Z	20 15 43	Traces
						USCGS: 27 N 93 E Eastern India
						H = 20 05 07
74	26	I	(e)	E	20 37 56	Traces
			e	E	39 51	
			i	E	40 10	

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Nº	Date	Character	Phase		h. m. s.	Remarks
75	27	I	e	E	01 46 52	Traces
			i	E	48 07	
76	27	Iu	e	Z	23 27 15	Traces
						USCGS: Off coast of Chile 45 S
						77 W H = 23 06 55
77	28	I	e	Z	10 56 43	Traces
78	28	I	ei	Z	11 17 39	Traces
79	28	Iu	ePP	Z	11 25 30	Traces
			eM	E	12 09,0ca	USCGS: Chile 38 S 73 W
						H = 11 05 40
80	28	I	(e)	Z	10 56 43	Traces
81	28	Id	iPg	Z	16 18 17	30 km
			iSg	Z	18 21	
82	28	I	e	Z	19 28 47	Traces
83	29	Iv	ePn	Z	02 07 46	700 km
			i(Pg)	Z	08 08	
			iSn	E	09(00)	
			iSgSg	E	09 40	
			iLQ	E	09 51	
84	29	Iu	iPP	Z	07 59 03	Ab 12600 km
			ePPP	Z	08 01 25	USCGS: Chile 38 S 72 1/2 W
			iSKS	E	04 55	H = 07 39 29 M = 6 1/2 (Pas)
			eL	E	31,6ca	6 1/4 (Berk)
			eM	E	42,3ca	
85	29	Iu	(e)PP	Z	08 53 27	Traces
						USCGS: Southern Chile 37 1/2 S
						73 W H = 08 34 20
86	30	Id	ePg	ZE	13 31 54	(30) km
			iSg	Z	31 58,5	
87	30	Iv	ePn	Z	21 26 57	320 km
			ePg	Z	27 03	
			eSn	EN	27 29	
			iSb	EN	27 41	
			iSg	EN	27 44	
88	31	I(r)	eP	Z	00 32 19	Traces
			e	E	38 31	

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N°	Date	Character	Phase		h. m. s.	Remarks
89	31	Iu	ePP	Z	02 59 57	Traces
			eM	E	03 46,2ca	USCGS: Chile 39 1/2 S 75 W
						H = 02.40 00 M = 6(Berk)
90	31	Iu	eP'1	Z	05 12 10	Traces
						USCGS: New Hebrides Islands 18 S
						168 1/2 E H = 04 52 28
91	31	Iv	ePn	Z	09 08 33	(260)km
			iSg	E	09 10	
92	31	Iu	eiP	Z	11 13 15	7400 Km
			eiS	E	22 10	USCGS: Leeward Islands
			ei(ScS)	E	23 12	M = 5 3/4 (Berk) 6 1/2 - 6 3/4 (Berk)
			eSSS	E	29 43	
			eM	E	39,5ca	
93	31	I	eP	Z	11 41 41	Traces

C. PUPIS

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OSSERVATORIO GEOFISICO - TRIESTE

Microseismic measurements

May 1960

Costants of the Stations

Instruments	Components	T_o	V_o	ε	Registrations
Alfani 3 kg	N - S	7.6	3.100	∞	Foto
" 3 "	E - W	7.25	3.810	∞	"
" 3 "	Z	3.9	3.000	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	3	0.1	4.5	3	0.1	4.2	3	0.1	2.0
	6	3	0.1	4.5	3	0.1	4.0	3	0.1	2.0
	12	3	0.1	4.0	3	0.1	4.0	3	0.1	2.0
	18	3	0.2	4.5	3	0.1	5.1	0.0		
2	0	2	0.2	5.2	2	0.2	5.2	0.0		
	6	2	0.2	5.2	2	0.2	5.0	0.0		
	12	2	0.2	5.0	2	0.1	5.0	0.0		
	18	2	0.1	5.0	2	0.1	4.8	0.0		
3	0	2	0.1	5.3	2	0.1	4.8	0.0		
	6	2	0.1	4.8	2	0.1	4.8	0.0		
	12	2	0.1	5.0	2	0.1	5.2	0.0		
	18	2	0.1	4.5	2	0.1	5.0	0.0		
4	0	2	0.1	4.3	2	0.1	5.0	0.0		
	6	2	0.1	5.3	2	0.1	5.7	0.0		
	12	2	0.2	6.0	2	0.2	6.0	0.0		
	18	2	0.2	5.5	2	0.2	6.5	0.0		
5	0	2	0.2	6.0	2	0.2	6.5	0.0		
	6	0.0			0.0			3	0.1	2.0
	12	0.0			0.0			3	0.1	2.0
	18	3	0.1	2.2	3	0.1	2.3	3	0.1	2.0
6	0	3	0.1	2.2	3	0.1	2.4	3	0.1	2.0
	6	3	0.1	2.0	3	0.1	2.2	3	0.1	2.0
	12	3	0.1	2.0	3	0.1	2.0	3	0.1	2.0
	18	3	0.1	2.0	3	0.1	2.0	3	0.1	2.0
7	0	3	0.1	2.1	3	0.1	2.0	3	0.1	2.0
	6	3	0.1	2.0	3	0.1	2.0	3	0.1	2.0
	12	3	0.1	2.3	3	0.1	2.0	3	0.1	2.2
	18	2	0.1	2.5	3	0.1	2.0	3	0.1	2.2

Weak microseisms amplitude less than 0.1 μ from 8th may to 16th may

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
					Regular world day					
17	0	0.0			0.0			0.0		
	3	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	9	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	15	0.0			0.0			0.0		
	18	2	0.1	3.0	2	0.1	3.0	0.0		
	21	2	0.1	3.0	2	0.1	3.0	2	0.1	3.0
					Regular world day					
18	0	2	0.1	3.5	2	0.1	3.2	0.0		
	3	2	0.1	3.3	2	0.1	3.3	2	0.1	2.7
	6	2	0.1	3.3	2	0.1	3.0	2	0.1	3.0
	9	...			...			...		
	12	0.0			0.0			0.0		
	15	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
	21	0.0			0.0			0.0		
19	0	0.0			0.0			0.0		
	3	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	9	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	15	0.0			0.0			0.0		
	18	2	0.1	3.0	2	0.1	3.0	0.0		
	21	2	0.1	3.3	2	0.1	3.3	0.0		
20	0	2	0.1	3.3	2	0.1	3.3	0.0		
	6	2	0.1	3.5	2	0.1	3.0	0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
	Weak microseisms amplitude less than 0.1μ from 21th May to 24th May.									
24	0	2	0.1	4.3	0.0			0.0		
	6	2	0.1	4.5	2	0.1	4.4	0.0		
	12	2	0.1	4.4	2	0.1	4.5	0.0		
	18	2	0.1	4.0	0.0			0.0		
25	0	2	0.1	4.0	2	0.1	4.5	0.0		
	6	2	0.1	4.5	2	0.1	4.5	0.0		
	12	2	0.1	4.7	2	0.1	4.8	0.0		
	18	2	0.1	4.6	2	0.1	4.5	0.0		

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
26	0	0.0			0.0			0.0		
	6	...			...			...		
	12	2	0.1	4.8	2	0.1	4.5	0.0		
	18	2	0.1	4.7	0.0			0.0		
27	0	2	0.1	4.7	0.0			0.0		
	6	2	0.1	4.5	0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
28	Weak microseisms amplitude less than 0.1μ									
29	0	0.0			0.0			0.0		
	6	2	0.1	5.4	2	0.1	6.0	0.0		
	12	2	0.1	5.8	...			0.0		
	18	2	0.1	5.3	2	0.1	5.5	0.0		
30	0	2	0.1	6.0	...			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
31	Weak microseisms less than 0.1μ									

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

Seismological Bulletin

June 1960

Nº	Date	Character	Phase		h. m. s.	Remarks
1	1	Iu	ePP	Z	05 22 32	Traces
			eM	N	06 07,6	USCGS: Chile 38 S, 73 W H = 05.02.56
2	2	I	e	Z	04 02 41	Traces
3	2	I	e	Z	04 30 31	Traces
4	2	Iu	ePP	Z	06 18 15	Traces
			e(M)		07 00,5 ca	USCGS: Southern Chile 46°½ S, 74 W
						H = 05.58.03
5	2	Ir	eP	Z	07 29 45	Traces
						USCGS: Iran 33°½ N, 60 E H = 07.22.30
6	2	Iu	IP	Z	08 06 17	Weak 13900 km
			ePP	Z	08 09	USCGS: New Britain Felt: Rabaul, Karlai,
			ePPP	Z	10 48	Raggarrere Palmalmal 5½ S, 151½ E
			eSKKS	E	14 26	Mw 6½ - 6 3/4 (Pas) H = 07.47.11
			eSPP	E	19 35	
			eSSP	E	25 22	
			eSSS	E	29 36	
			eL	E	45,5	
			eM	N	56,5	
7	2	Ir	eP	Z	12 48 45	Traces
						USCGS: Iran 33½ N, 49 E H = 12.42.38
8	2	IVu	eP'1	Z	19 17 57	Traces
			eiP'2	Z	18 19	h = ab 550 km
			epP'2	Z	20 20	USCGS: Fiji Islands h = ab 550 km
						20°½ S, 178° W H = 18.59.05
9	3	I	e	N	02 36 17	Traces
			e	EN	36 29	
10	3	I	e	Z	13 35 48	Traces
			e	Z	36 09	
11	3	IVu	iP'1	Z	13 42 22	16700 km, weak h = ab 600 km
			i	Z	42 27	USCGS: Fiji Islands h = ab 600 km
			eiP'2	Z	42 36	17°½ S, 179° W M = 6 (Pas)
			epP'2	Z	44 46	H = 13.23.37.
			ePP	Z	46 (00)	
			eSKS	E	48 25	

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N°	Date	Character	Phase		h. m. s.	Remarks
12	3	IV	iP	Z	16 30 19	Traces ab 100 km
			epP	Z	30 43	USCGS: Near south coast of Kokkaido,
						Japan 41½ N, 141½ E h = ab 100 km
						H = 16.18.04
13	4	Iu	i	Z	02 40 26	Traces
			i	Z	40 53	
			i	EN	51 (00)	
14	4	I	e	Z	06 06 38	Traces
15	4	I	e	Z	08 16 28	Traces
16	4	I	e	Z	17 50 35	Traces
17	6	Iu	eP	Z	01 30 31	ab 9500 km
			i	Z	30 35	USCGS: off coast of northern California
			i(PcP)	Z	30 43	Felt: Humboldt and Del Norge Counties
			iPP	Z	33 53	California 41 N, 125 W, H = 01.17.48
			eSKS	N	41 (00)	M = 5½ 5 3/4 (Berk)
			iS	E	41 10	
			eM	N	02 02,7 ca	
18	6	IIIu	eP'	Z	06 14 41	About 12800 km
			ePP	Z	15 41	USCGS: Near coast of Chile 45½ S, 73½ W
			iPPP	Z	18 22	H = 05.55.44, M = 6 3/4 - 7 (Berk)
			eSKS	E	21 31	
			eS	E	23 35	
			eSP	E	25 37	
			iSS	E	32 29	
			iSSS	N	36 16	
			eM	N	07 04,4 ca	
19	6	Iu	e(PP)	Z	06 29 09	Obscured by preceding shock
20	6	I	e	E	15 35 33	Traces
21	7	I	e	Z	01 22 24	Traces
22	7	Iv	eP	Z	06 09 13	300 km
			e	E	09 43	
			iSg	E	09 57	
23	7	I	ei	Z	10 37 50	Traces
24	7	Iu	ei	Z	13 09 09	Traces
						USCGS: Near east coast of Kamchatka 53 N,
						158½ E H = 12.57.35
25	7	Iu	eP	Z	15 43 34	Traces
			e(PP)	Z	45 32	USCGS: Arabian Sea 14 N, 57 E
			e	E	50 55	H = 15.34.50

N°	Date	Character	Phase		h. m. s.	Remarks
26	8	I	(e)	Z	08 34 16	Weak
			i	E	35 36	
			i	E	36 10	
27	8	Iu	e	Z	16 09 19	Traces
			i	E	10 12	
28	8	Ir	iP	Z	16 27 09	4200 km
			ePP	E	28 37	USCGS: North Atlantic Ocean
			ePPP	Z	29 12	35 N, 35 W H = 16.19.48
			eS	E	33 06	
			eM	E	41 11	
29	8	I	i	Z	18 00 25	Traces
30	9	Iu	iP	Z	02 48 46	Traces
			eM	N	56 23	USCGS: Eastern Turkey 39½ N, 39½ E
31	9	IIv	iPn	Z	08 25 46,3	820 km
			iSn	E	27 11	USCGS: Strait of Otranto H = 08.24.00
			iSgSg	E	28 (00)	
			iQ	N	28 13	
			iM	N	28 48	
32	9	Iu	eiP'	Z	11 43 36	About 16200 km
			i	Z	43 52	USCGS: New Hebrides Is.Mag 5 3/4 - 6
			eM	N	42,4	(Berk) 18 S, 169 E H = 11.23.51
33	9	Ir	eP	Z	17 54 03	3400 km
			e	Z	57 22	USCGS: Apres Islands 38 N, 26 W
			eS	E	59 05	H = 17.47.41
			e	M	18 05(00)	
34	10	Iu	iP'1	Z	21 31 57	Traces
			eSSS	E	22 00 16	USCGS: 15½ S, 174 W, Samoa Is. region - Mag 5½ (Berk) H = 21.12.05
35	11	IVu	iiSKKS	E	00 58 09	Traces h = ab 300 km obscured by microseisms
			iS	E	58 34	USCGS: Souther Bolivia h = ab. 300 km 21 S, 64½ W H = 00.34.48
36	11	Iu	iP'	Z	15 33 21	Ab 14400
			iPP	Z	35 31	USCGS: D'Entrecasteaux'Is. Mag 6
			e	E	36 21	152½ E, 9 S H = 15.14.07
			i	N	36 46	
			iSP	E	45 38	
			eL	N	16 16 21	
			eM	E	26 18	

N°	Date	Character	Phase		h. m. s.	Remarks
37	11	Iu	iP'	Z	16 56 58	Ab. 14400 km
			i(PKS)	N	17 00 18	USCGS: D'Entrecasteaux Is. 9½ S,
			eL	N	40 12	152½ E, H = 16.37.40
38	12	Iu	eP'	Z	07 39 05	Traces
			ePPP	Z	44 16	USCGS: South Pacific Ocean M = 6½
			eM	E	08 32,1 ca	(Berk) 36 S, 98 W H = 07.19.43
39	12	Ir	ePn	Z	23 12 37	(1200) km
			eSn	E	14 43	
			iSgSg	N	15 58	
40	13	Iu	ePP	Z	06 07 15	Traces USCGS: off coast of southern Chile 44½ S,76½W. H = 05.47.05
41	13	I	i	Z	17 16 18	Traces
42	14	I	i	Z	14 39 05	Traces
43	15	Iu	iP	Z	15 49 16	About 9200 km
			i	Z	49 29	USCGS: Near north coast off Honshu,
			ePP	Z	52 36	Japan 41 N, 142½ E, H = 15.36.51
			ePPP	Z	54 28	
			eIS	E	59 30	
			e	E	59 55	
			eSP	N	00 19	
			eSPP	E	01 14	
			e(M)	N	24,5	

Z not recording from 16th June at 08h 44m to 18th June at 16h 27m

Horizontal components break in recording on 17th June from 14h 26m to 14h 50m and on 18th June from 6h 19m to 09h 27m

44	17	I	e	EN	16 51 43	Traces Z not recording
45	18	I	e	N	02 11 03	Traces - Z not recording
46	19	I	(e)	Z	02 34 (00)	Traces
			e	E	37 40	
47	19	Iv	eSb	Z	03 37 41	Traces
			eSg	N	37 49	BCIS: 47° 5 N, 7° 3 E H = 03,35,14
						Jura Alsacien: Felt in the epicentral region and in Switzerland as far as Zurich and Fribourg
48	19	I	e	N	08 41 06	Traces
49	19	IVu	eP'2	Z	12 40 49	Traces
						USCGS: Fiji Is. region h = ab. 500 km
						15 S, 178½ W H = 12.21.53

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No	Date	Character	Phase		h. m. s.	Remarks
50	19	I	e	Z	17 30 42	Traces
			e	Z	34 23	
			e	Z	37 42	
51	20	IIIu	eP	Z	02 16 13	12700 km
			e	Z	19 42	USCGS: Near coast of Chile 38 S, 73½ W
			iP'	Z	20 08	H = 02.01.08
			i	Z	20 36	M = 7 (Pas), 7½ (Berk)
			iPP	Z	21 (00)	
			iPPP	Z	23 34	
			iSKS	E	26 50	
			eSKKS	E	27 40	
			iS	N	28 53	
			iSP	E	30 38	
			iSPP	N	31 45	
			eSS	E	36 54	
			iSSS	E	41 05	
			eL	E	52,8	
			eM	N	03 04,0	
52	20	IIIu	eP	Z	13 14 37	12750 km
			eP'	Z	18 24	USCGS: Chile 39½ S, 73W H = 12.59.40
			iPP	Z	19 21	M = 6 3/4 (Pas), 7 (Berk)
			iPPP	E	21 53	
			iSKS	E	25 13	
			iS	E	27 11	
			iSP	E	29 05	
			iSPP	E	30 18	
			iSS	E	35 45	
			eiSSS	E	39 25	
			M	E	14 04,6	
53	21	Iu	(e)PP	Z	21 53 11	Traces
						USCGS: Sandwich Islands region 61 S, 21 W
						H = 21.33.45
54	22	Iu	eiP	ZE	16 21 01	Traces
						USCGS: Arabian Sea 12 N, 57½ E H = 16.12.00
55	24	I	e	Z	15 48 02	Traces
56	25	Iu	iP'1	Z	02 22 40	Traces
			i	Z	23 28	USCGS: Kermadec Islands 30½ S, 177 W
			ePP	Z	27 25	H = 02.02.35
57	25	Iu	e	Z	14 06 06	Traces:
						USCGS: Columbia 72½ W, 6½ N, H = 13.53.37

N°	Date	Character	Phase		h. m. s.	Remarks
58	25	Iu	eP'1	Z	15 02 02	Traces
			ePP	Z	06 43	USCGS: Kermadec Islands
			e(M)	E	16 08,5	M = 6½ - 6¾ (Pas) 30½ S, 177 W
						H = 14.41.42
59	25	Id	i	E	17 16 11	Traces
			i	E	16 13	

Z not recording on 27th June from 07h 02m to 09h 02m

Z not recording on 28th June from 7h 45m to 29 June 7h 08m

Z not recording on 30th June from 02h 09m to 7h 37m

Horizontal components break in recording on 27th June from 08h 02m to 16h 32m, on 28th June from 07h 29m to 10h 03m and on 30th June from 00h 55m to 06h 40m

60	29	I	eM	N	03 02,3	Traces Z not recording
61	29	Ir	iP	Z	10 29 (00)	3100 km coperto da microsismi
			eS	N	33 50	USCGS: Atlantic Ocean 47½ N, 27 W
			iL	E	37,6 ca	H = 10.23.02
			eL	E	40,0 ca	
61	29	I	e	Z	12 41 47	Traces covered by microseisms
62	29	I	e	E	13 45 34	Traces covered by myoroseisms
			i	E	46 44	
63	29	I	i	Z	17 19 21	Traces covered by microseisms

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Microseismic measurements

June 1960

Constants of the Stations

Instruments	Components	T_o	V_o	ε	Registrations
Alfani 3 kg	N - S	7.6	3.100	∞	Foto
" 3 "	E - W	7.25	3.810	∞	"
" 3 "	Z	3.9	3.000	∞	"

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
Weak microseisms less than 0,1μ from 1st June to 10th June										
11	0	1.	0.1	2.3	1	0.1	2.3	1	0.2	2.3
	6	1	0.1	2.2	1	0.2	2.7	1	0.2	2.5
	12	2	0.1	6.2	...			0.0		
	18	...			...			0.0		
12	0	0.0			0.0					
	6	0.0			0.0					
	12	2	0.1	4.5	2	0.1	4.3	0.0		
	18	2	0.1	4.8	2	0.1	4.3	0.0		
13	0	2	0.1	4.7	2	0.1	4.5	0.0		
	6	2	0.1	4.7	2	0.1	4.7	0.0		
	12	2	0.1	4.8	2	0.1	4.7	0.0		
	18	2	0.1	4.7	2	0.1	4.7	0.0		
- Regular world interval combined with world -Meteorological interval -										
- Regular world day -										
14	0	2	0.1	4.6	2	0.1	4.5	0.0		
	3	2	0.1	4.6	2	0.1	4.5	0.0		
	6	2	0.1	4.5	2	0.1	4.7	0.0		
	9	2	0.1	4.5	2	0.1	4.7	0.0		
	12	2	0.1	4.3	2	0.1	4.3	0.0		
	15	2	0.1	4.5	2	0.1	4.5	0.0		
	18	0.0			0.0			0.0		
	21	0.0			0.0			0.0		

Data	Hours	K	AZ/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
				- Regular world day -						
15	0	0.0			0.0			0.0		
	3	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	9	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	15	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
	21	3	0.1	2.3	3	0.1	2.0	3	0.2	1.8
				- Regular world day -						
16	0	3	0.1	2.3	3	0.1	2.0	3	0.2	1.8
	3	3	0.1	2.4	3	0.1	2.3	3	0.2	1.8
	6	3	0.1	2.4	3	0.1	2.3	3	0.2	2.0
	9	3	0.1	2.3	3	0.1	2.3	...		

Evaluation of microseisms has been temporary suspended for works at the Seismological Station

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

July 1960

N°	Date	Character	Phase		h. m. s.	Remarks
Components Z and N not recording from 2nd July at 9h 45m to 4th July at 9h 45m						
1	2	lu	ePP	Z	09 18 23	Traces Z and N not recording USCGS: Southern Chile 45½ S, 73½ W H = 08.58.05
2	2	lu	ePP	Z	12 14 28	Traces USCGS: Sandwich Islands H = 11.55.41 56 S, 27 W Z and N not recording
Alfani not recording from 3rd July at 9h 46m to 4th July at 9h 43m						
Alfani not recording from 4th July at 19h 00m to 5th July at 06h 47m						
3	4	lu	eL	E	13 45 40	Traces
			eM	E	51 37	USCGS: Queen Charlotte Islands M = 6 (Pas) 52 N, 131 W H = 13.10.05
4	5	l	i	Z	21 43 27	Traces
			i	Z	44 07	
5	5	l(d)	e	E	22 13 48	Traces
6	6	l	ii	Z	01 25 30	Traces
			i	Z	26 00	
			e	Z	27 25	
7	6	l	eii	Z	02 53 16	Traces
			i	Z	53 31	
8	6	l	i	Z	03 39 56	Traces
9	6	l	e	Z	04 42 40	Traces
			i	Z	45 29	
			i	Z	47 19	
			e	E	05 11,3	

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N°	Date	Character	Phase		h. m. s.	Remarks
10	6	IVr	iP	Z	05 24 30	4850 km h = ab 200 km
			ipP	Z	25 15	USCGS: Hindu Kush region
			iPP	Z	26 17	h = ab 200 km 36°½ N, 70°½ E
			epPP	Z	27 08	H = 05.16.44
			iS	EN	30 39	
			esS	E	32 07	
			iSS	E	34 01	
			epSS	E	35 18	
11	6	I	i	Z	05 31 22	Traces
			i	Z	31 54	
			e	Z	32 12	
12	6	I	i	Z	06 33 06	Traces
13	6	Ir	eL	E	23 33 59	Traces
						USCGS: Tadzhik S.S.R. 39°½ N,
						71°½ E H = 23.14.19
14	7	I(d)	e	E	23 31 20	Traces
15	8	I(d)	e	E	08 23 29	Traces
16	8	I(d)	i	E	12 52 13	Traces
17	9	Iv	ePη	Z	22 44 36	790 km
			ePgPgPg	E	45 13	USCGS: Southern Jugoslavia
			iSn	N	45 58	41° N, 21° E H = 22.42.50
			i	E	46 01	
			eSgSg	E	46 46	
			iSgSgSg	N	46 56	
			iQ	N	47 00	
			iM	E	47 27	
18	10	Iu	eP	Z	00 18 03	Ab 9600 km
			iSKS	N	28 30	USCGS: Off west coast of
			iiS	N	28 48	Sumatra 0,98 E H = 00.05.18
			eSS	N	34 19	
			eSSS	N	38 (00)	
			L	N	46,3	
			M	N	52,3	
19	10	Id	i	E	08 01 30	Traces
20	10	I	e	Z	20 42 47	Traces
21	11	I	eP'1	Z	07 53 14	Traces
			e	Z	54 53	USCGS: South of Australia
						54° S, 140°½ E H = 07.33.32
22	11	I	e	Z	10 56 31	Traces

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N°	Date	Character	Phase		h. m. s.	Remarks
23	11	Iu	iP¹	Z	12 15 (00)	Traces
			i¦P¹2	Z	15 05	USCGS: Tonga Islands region
			ePP	Z	18 40	16° S, 172° W
						H = 11.55.10 M = 6 (Pas)
						6 1/4 - 6½ (Bark)
24	12	Iv	ePn	Z	14 08 27	335 km
			ePg	Z	08 34	
			ePgPgPg	E	08 50	
			I	E	09 (00)	
			iSn	E	09 03	
			iSg	E	09 17	
			iM	N	09 40	
25	13	I(r)	e(M)	N	08 44,3	Traces
26	13	Iv	ePn	Z	10 22 44,5	920 km
			iSg	N	25 16	USCGS: Greece Felt: Chalci
						dice Peninsula H = 10.20.25
27	13	IIv	ePn	Z	13 03 10	920 km
			iPgPg	Z	03 48	Greece minor damage on Chalci
			iSn	E	04 44	dice Peninsula 41° N, 23°½ E
			i¦Sg	N	05 44	H = 13.01.00
			iM	Z	06 33	
28	13	I	e	N	20 34 46	Traces
29	13	I	e	E	20 49 06	Traces
30	13	I	e	E	21 40 07	Traces
31	14	Id	ePg	Z	04 18 02,6	Ab 100 km
			i¦Sg	E	18 15,3	
32	14	Iu	eP	Z	10 41 00	Weak ab 11.400 km
			iPP	Z	45 20	USCGS: Molucca 5°N, 127°½ E
			eS	N	52 43	H = 10.26.58
			eSP	E	54 09	
			eL	N	11 16,5 ca	
			eM	N	23,8 ca	
33	14	Ir	eP	Z	18 47 47	Traces
						Ethiopia 7° N, 38°½ E
						H = 18.39.34
34	15	Id	ePg	Z	00 37 17	85 km traces
			iSg	Z	37 28	

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N°	Date	Character	Phase		h. m. s.	Remarks
35	15	I	I	Z	05 12 43	Traces
			e	Z	15 08	USCGS: Off north west coast off Madagascar 12° S, 45°½ E H = 05.02.05
36	17	IVu	eP	Z	05 22 39	Traces USCGS: Hindu Kush h = ab. 200 km 36° N, 69° E, H = 05.14.56
37	17	Iu	iP	Z	19 52 51	Traces USCGS: Ascension Island region 10° S, 13° W H = 19.42.38
38	18	I	e	Z	00 06 20	Traces
39	18	I	e	Z	00 44 08	Traces
40	18	Iv	ePn	Z	02 02 18	340 km
			ePg	Z	02 23	
			ePgPgPg	E	02 48	
			iSgSg	Z	03 16	
41	18	IVu	eM	E	02 45,5	Traces USCGS: New Britain region Felt h = ab 200 km H = 01.43.29
42	18	Iv	ePn	Z	04 07 56	340 km
			ePgPg	E	08 07	
			eSn	E	08 33	
			iSgSg	E	08 54	
43	18	I	e	Z	08 06 44	Traces
44	18	I(v)	e	E	08 51 28	Traces
45	18	I	iP	Z-	19 01 02	Traces
			ePP	Z	03 22	USCGS: Amirante Islands 7°S, 51°½ E, H = 18.50.32
46	19	I	e	Z	04 37 22	Traces
47	19	Iv	e	E	23 30 30	Traces
48	20	I	e	N	00 05 10	Traces
			i	N	05 31	
49	20	Iv	e	N	09 21 17	Traces
			i	Z	23 02	
			i	N	24 30	

N°	Date	Character	Phase		h. m. s.	Remarks
50	20	Iu	eiP	Z	09 42 53	Traces
			i	Z	43 12	USCGS: Kurile Islands region
			eS	N	53 03	49° N, 157°½ E H = 09.30.38
51	20	I	e	Z	17 32 22	Traces
			i	E	33 46	
52	20	IVu	eP'1	Z	21 18 51	Weak h = ab 200 km
			iP'2	Z	18 55	USCGS: New Hebrides Is.
			i	Z	19 29	h = ab 200 km 20½ S 169 E
			epP'2	Z	19 52	H = 20.59.25
			eL	E	22 06,4 ca	
53	20	Iu	(e)PP	Z	21 58 02	Traces
			ePPP	Z	22 00 31	USCGS: Southern Chile
						H = 21.38.20
54	20	Iv	ePn	Z	23 10 36	380 km
			iPg	Z	10 44	
			iSn	E	11 16	
			iSg	Z	11 33	
			iSgSgSg	N	11 54	
55	20	Iv	e	E	23 57 03	Traces
56	21	I	e	Z	00 30 30	Traces
57	21	I(v)	e	Z	18 13 49	Traces
			e	N	13 55	
58	21	Id	ePg	Z	18 55 33	95 km
			iSg	Z	55 45	
59	21	I(v)	e	E	19 14 43	Traces
60	21	I(v)	e	E	20 10 07	Traces
61	23	Iv	e	E	20 43 03	Traces
			e	E	43 14	
62	23	Iv	e	E	22 38 31	Traces
63	24	Iu	eS	N	10 10 16	Weak
			eL	N	23,3	USCGS: Near coast of Kamchatka
			e(M)	N	29,6	56° N, 164° E H = 09.48.56
64	24	Iv	e	N	14 18 12	Traces
			i	E	19 03	
65	24	Iv	e	E	14 40 30	Traces
66	24	I	e	E	20 43 03	Traces

Nº	Date	Character	Phase		h. m. s.	Remarks
67	24	Iv	e	E	21 32 38	Traces
68	25	IIu	eiP	Z	03 52 56	8500 km
			eiS	E	04 02 38	USCGS: Near coast of Kamchatka
			eSS	E	07 35	55 N, 163 E, H = 03.41.05
			eSSS	E	11 23	M = 6½ (Pas.) 5 3/4 - 6 (Berk)
			eL	E	17,6 ca	
			eM	E	24 30	
69	25	Vu	iP	Z	11 23 44	Ab. 8500 km Deep
			i	Z	24 22	USCGS: Kamchatka 54 N, 159 E
			i	E	26 16	h = Ab. 100 km M = 6 3/4 (Berk)
			i	E	29 08	7 (Pas) H = 11.12.00
			iiS	E	33 18	
			ii	N	34 24	
			eL	E	48,8	
			eM	N	54,8	
70	25	I	e	Z	11 50 40	Obscured by preceding shoch
			i	Z	51 33	
71	25	I	i	Z	11 54 18	Traces
72	26	I	i	N	04 09 41	Traces
73	26	Iu	iP	E	12 40 30	Z not recording
			eS	N	44 16	USCGS: Turkey 40½ N, 37 E
			e	N	46 36	H = 12.36.20
			iM	E	47 38	
74	27	Iu	ePP	Z	10 25 06	Weak
			e	E	30 26	USCGS: 44.7 S, 75.1 W
			eiSKSP	E	35 11	h = ab. 25 km. Near coast of
			eL	N	11 02,6ca	southern Chile M = 6 1/4 - 6½
			eM	E	08,5ca	(Pas.) 6 (Berk) H = 10.04.53.0
75	27	Iv	i	N	12 34 24	Traces
76	27	I	ez	Z	23 27 13	Traces
77	28	I	e	Z	00 49 18	Traces
78	28	I	e	N	20 30 31	Traces
79	29	Iu	ei(P'2)	N	00 43 55	Z not recording
			eSKP	Z	47 39	Loyalty Islands 19½ S, 170 ½ E
			eL	N	01 30,9	M = 6½ - 6 3/4 (Pas.) 6 1/4 -
						6½ (Berk.) H = 00.24.06
80	29	Iu	i(P)	Z	10 53 17	Traces
						USCGS: 26.9 N, 90.3 E h = ab.11 km
						India H = 10.42.44.6

N°	Data	Character	Phase		h. m. s.	Remarks
81	29	Iu	iP	Z	14 41 49	Traces
						USCGS: 31.7 N, 67.0 E h = Ab. 64 km
						Easter Afganistan Felt : Quetta,
						Pakistan. H= 14.33.46.1
82	29	IVu	iP	Z	17 44 (01)	9200 km h = Ab. 50 km
			epP	E	44 14	USCGS: Honshu, Japan 40.1 N,
			iPP	Z	47 17	142.3 E h = Ab. 50 km M= 6 3/4
			ipPP	Z	47 33	(Pas.) 6 3/4 - 7 (Berk)
			iPPP	Z	49 05	
			epPPP	Z	49 19	
			iS	N	54 15	
			isS	E	54 38	
			iSP	E	55 05	
			(e)SS	E	18 00 22	
			(e)SSS	N	04 18	
			iL	E	13 26	
			iM	E	17,3ca	
83	31	Iu	iP'	Z	03 14 46	13.800 km
			i	Z	14 53	USCGS: New Britain h = 25 km
			ePP	Z	16 33	M = 6 3/4 (Pas.) 6 - 6 1/4 (Berk)
			e	Z	17 07	H = 02.55.46.2
			eSKS	E	21 46	
			i!SKSP	E	26 38	
			e(SS)	E	34 38	
			L	E	51,0	
			M	E	58,7	
84	31	Iu	e	Z	03 27 56	Obscured by preceding shock
85	31	Iu	i	Z	03 32 (00)	Obscured by preceding shock
86	31	Iu	eL	N	08 06,0 ca	Traces
			eM	N	17,8 ca	USCGS: 6.0 S, 150.0 E h = Ab.93 km
						New Britain Island Felt M = 6 (Pas.)
						H = 07.04.37.1
87	31	Iu	ePP	Z	15 15 12	Traces
			ePPP	Z	17 46	USCGS: Near coast of central Chile
						h = Ab. 97 km 43.6 S, 74.3 W
						H = 14.55.03.3
88	31	Iv	e	N	17 39 34	Traces
89	31	IVr	eP	Z	22 34 04	Ab.4100 km h = Ab. 120 km
			ePP	E	35 30	USCGS: 27.9 N, 54.6 E
			eS	N	39 46	Southern Iran h = Ab. 127 km
			eSS	E	42 18	H = 22.27.01.0
			eM	N	48,4ca	

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

- August 1960 -

N°	Date	Character	Phase		h. m. s.	Remarks
1	1	IVr	eiP	Z	02 27 51	4100 km h ab. 100 km
			e	E	29 16	USCGS: 27.9 N, 54.2 E h = ab.110km
			iS	N	33 36	Southern Iran H = 02.20.52,4
			eSS	N	36 23	
			eL	E	38 48	
			eM	N	42 20	
2	2	IVu	iP'1	Z	05 26 59	Traces ab. 100 km
			iPP	Z	30 42	USCGS: 22,2 S 171.5 E h = ab.108 km
			e(SKKS)	N	37 17	Loyalty Islands M = 6½ (Pas) 6 1/4 (Berk) H = 05.07.22.1
3	2	IVu	iP'2	Z	09 51 07	Traces
						USCGS: 28.2 S 176.6 W h = ab. 61 km
						Kermadec Islands H = 09.30.26.5
4	2	I(r)	e	E	18 44 34	Traces
5	2	IVr	(e)P	Z	20 58 33	Traces
						USCGS: 84.2 N, 2.3 E h = ab 40 km
						North Polar region H = 20.51.03.8
6	4	Iu	eiP	Z	07 47 13	9200 km
			ePP	Z	50 36	USCGS: 51.4 N, 179.1 E Rat.Is.
			iS	N	57 34	Aleutian's h = ab. 83 km
			eSS	E	08 03 09	M = 6 - 6 1/4 (Pas)
			eSSS	E	06 42	H = 07.34.53,8
			eL	N	14.6 ca	
			iM	E	20 56	
7	5	Iv	e	E	07 20 29	Traces
			e	E	21 36	
8	5	Iv	(e)	E	18 36 12	Weak
			e(Sg)	E	36 30	
			I	N	36 45	
9	5	Iu	eM	E	23 17,8 ca	Traces
						USCGS: 51.0 N, 178.7 E h = ab 15 km
						Rat Islands Auletian Islands
						H = 22.27.34.2

OCT 5 1960

N°	Date	Character	Phase		h. m. s.	Remarks
10	6	Iv	e	E	14 44 21	Traces
			e	E	44 31	
11	6	Iv	e	E	17 42 15	Traces
			e	E	42 24	
12	7	Iv	(e)	E	02 08 38	Traces
			e	E	08 46	
			i	E	09 04	
13	7	Iv	e	E	05 46 09	Weak
			i	E	46 27	
			ii	N	46 31	
14	8	Iu	eP	Z	12 36 06	Traces
			ePP	Z	37 48	USCGS: 12.0 N, 44.4 E
						h = ab 24 km Gulf of Aden
						H = 12.28.10.2
15	8	Iu	(e)P	Z	16 43 44	Traces
						USCGS: 1.9 S, 11.1 W
						h = ab 60 km
						South Atlantic Ocean
						H = 15.34.26.8
16	8	Ir	ePgPg	E	20 41 12	Weak
			eSn	Z	42 40	USCGS: Dodecanese Islands
			e	Z	43 37	h = ab. 87 km H = 20.36.28.4
						36,0 N 27.3 E
17	9	Iu	e	Z	07 52 46	ab 9800 km
			iS	E	08 03 (00)	USCGS: 40.0 N, 126,6 W
			iSP	E	03 53	h = ab. 25 km off coast of
			eL	N	19,5 ca	Northern California Felt:
			eM	N	26,5 ca	Eureka , California Mag 6
						(Berk) H = 07.39.22.6
18	9	IVu	(e)P'1	Z	17 06 22	Weak
			eP'2	Z	06 51	USCGS: 24.5 S, 177.1 W
			ePP	Z	10 31	h = ab. 186 km Tonga Islands
			ePPP	Z	14 10	region M = 6 - 6 1/4 (Pas)
			eSS	N	30 14	6 1/4 (Berk) H = 16.46.37.7
			eSSS	N	36 27	
			eM	E	18 09,4 ca	
19	10	Iv	e	E	13 04 05	(340) km
			e(Sn)	E	04 31	
			i	E	04 42	
			iSg	E	04 47	

No	Date	Character	Phase		h. m. s.	Remarks
20	13	Iu	iP	Z	07 23 26	Traces - Obscured by strong micro seisms
						USCGS: 40.6 N, 142.0 E h = ab.60 km
						Near east coast of Honshu, Japan
						H = 07.11.05.5
21	13	Iu	e	E	14 34 30	Ab. 12.900 km Obscured by microseisms
			iPP	Z	34 40	USCGS: 39.7.S, 74.8 W h = ab 61 km
			iPPP	ZE	37 17	Near coast of southern Chile
			iSKS	E	40 32	H = 14.14.57.7
			i	L	41 33	
			iSP	E	44 33	
			eSS	E	50 27	
			eSSS	E	54 33	
			e(L)	E	16 05,6	
			eM	E	18 35	
22	14	I(d)	i	E	12 57 11	Weak
			i	E	57 13	
23	14	IVu	eP	Z	22 45 (00)	Slight trace
			ePP	Z	46 46	USCGS: 36° 0 N, 69° 3 E
						h = ab 69 km Hindu Kush
						H = 22.37.11.9
24	15	Iu	eP	Z	07 10 48,5	Traces
						USCGS: 13.4 S, 65.8 E
						h = ab. 15 km Indian Ocean
						H = 06.58 56.4
25	15	Iu	eP	Z	14 45 30	Traces
						USCGS: 13,5 S 67.0 E
						h = ab 25 km Indian Ocean
						H = 14.33.38.4
26	15	Iv	e	E	21 12 43	Traces
			i	E	13 48	
			i	Z	14 53	
27	17	IVu	e	Z	09 44 48	Traces
						USCGS: 20.1 S, 11.4 W
						h = ab. 87 km South Atlantic
						Ocean H = 09.33.49.1
28	17	Iu	iP	Z	11 35 14	Traces
			e	N	43 37	USCGS: 19.8 S, 12.2 W
						h = ab. 25 km South Atlantic
						Ocean H = 11.24.07.2

N°	Date	Character	Phase		h. m. s.	Remarks
29	17	lv	e(Sb)	E	15 31 09	Traces
			eSgSg	E	15 31 25	STRASBOURG: H = 15.28,1 ab. 49°½ N, 7° E
						STUTTGART: Felt in Rhénanie and in Sarre
30	18	lv	ePn	N	23 39 09	(570) km
			ePg	E	39 37	
			ePgPg	N	39 41	
			eSn	E	40 08	
			iSb	EN	40 41	
			eSg	EN	40 51	
31	20	lu	eP	Z	20 21 14	9450 km
			eS	N	31 49	USCGS: 35.6 S, 15.4 W h = ab. 37 km
			eL	N	49 28	Tristan da Cumba region H = 20.08.39.0
32	20	l	e	Z	21 32 49	Traces
33	20	lVu	ePP	Z	22 40 48	Traces
						USCGS: 0.5 N, 122.0 E h = ab 59 km
						Northern Celebes H = 22.22.44.6
34	21	lu	ePP	Z	00 38 21	Traces
						USCGS: 4.3 S, 143.3 E h = ab.39 km
						New Guinea H = 00.18.01.5
35	21	lVu	ePP	Z	13 07 21	Traces
						USCGS: 4.9 N, 125.1 E h = ab. 211 km
						Near south coast of Mindanao P.I
						H = 12.49.37.6
36	21	lu	eP'1	Z	17 40 50	Traces
			eP'2	Z	41 05	15.3 S, 176.0 W h = ab. 24 km
						Fiji Islands region H = 17.20.54.9
37	21	lv	e	E	20 51 32	Traces
			i(Sg)	E	51 50	
38	23	lVr	eiP	Z	09 05 41	Traces
			ePP	Z	07 18	USCGS: 29.0 N, 59.9 E h = ab.116 km
						Southern Iran H = 08.58.12.1
39	23	lu	eiP	Z	14 18 01	Weak 6250 km
			ePP	Z	20 05	USCGS: 0,9 N, 26.0 W h = ab. 25 km
			ePPP	Z	21 23	Atlantic Ocean H = 14.08.14.9
			eSP	E	26 21	
			eM	E	38 32	

N°	Date	Character	Phase		h. m. s.	Remarks
40	23	Iu	(e)P'	Z	23 04 33	Weak ab 16350 km
			i	Z	04 44	USCGS: 14.5 S, 176.4 W
			e(M)	N	59 50	h = ab. 56 km Fiji Islands
						region Mag 6 (Pas) H= 22.44.51.5
41	24	Iu	eP	Z	01 56 05	Weak
			eL	E	20 16	USCGS: 56.9 N 163.8 E h = 25 km
			eM	N	27 20	Near east coast of Kamchatka
						H = 01.44.09.9
42	24	IVu	eP'	Z	06 08 49	Traces 17000 km h = 40 km
			i	Z	09 (00)	USCGS: 19.0 S, 174.1 W
						h = ab 42 km Tonga Islands
						H = 05.49.01.1
43	24	Iv	ei	Z	07 26 48	Traces
			i	Z	27 03	
			e	Z	28 27	
44	24	IVu	eP	Z	19 38 35	Traces
						USCGS: 24.4. N, 95.0 E
						h = ab. 145 km Burma India
						Border H = 19.27 53.2
45	25	Iu	ei	Z	17 54 19	Traces
			eM	E	29 24	USCGS: 52.7 N, 169.6 W
						h = ab. 38 km Fox Isl., Aule-
						tian Isl. H = 17.41.58.8
46	26	I	e(L)	E	00 09,8	Traces
47	26	Id	ePg	Z	13 02 47	Traces
			i(Sg)	E	02 56	
48	26	Iu	iP'	Z	18 46 44	Traces
			iPP	Z	49 41	USCGS: 13.5 S, 165.9 E
			eSKP	E	50 18	h = ab 56 km New Hebrides
						Islands H = 18.27.18.2
49	27	Ir	(e)P	Z	10 20 40	(1630)km
			i	E	24 09	USCGS: 34.4 N, 26.3 E
			i(SgSgSg)	N	25 09	h = ab. 40 km Crete
						H = 10.17.18.1
50	27	Iv	(e)Pg	Z	11 13 58	Traces
			i(Sg)	E	14 22	
51	27	IVu	eP	Z	18 27 57	Traces
						USCGS: 49.9 N, 153.7 E
						h = 220 km Kurile Islands
						H = 18.16.15.7

N°	Date	Character	Phase		h. m. s.	Remarks
52	27	l	i	Z	21 56 (00)	Traces
53	28	lv	eiPg	Z	23 59 37	150 km
			iiSg	EN	59 56	
54	29	l(v)	iSg	E	08 38 54	Traces
55	29	lr	(e)	Z	18 07 40	Traces USCGS: 35.4 N, 27.1 E, h = ab. 14 km Crete H = 18.00.35.2
56	31	lr	e	N	22 21 19	Traces
			e	N	22 07	USCGS: 39.1 N, 36.3 E
			eM	N	23 36	h = ab. 44 km Turchia H = 22.11.53.9

C. PUPIS

International Seismological Centre

O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

- August 1960 -

Constants of the Station (from 3rd august to 12th august 1960)

Instruments	Components	T_o	V_o	ε	Registration
Alfani 3 kg	N - S	8.3	2.500	∞	Foto
" 3 "	E - W	8.1	3.424	∞	"
" 3 "	Z	3.4	1.402	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
3	0	0.0			0.0			2	0.1	3.0
	6	0.0			0.0			2	0.2	4.0
	12	...			0.0			...		
	18	...			0.0			...		
Weak microseisms less than 0.1 μ on 4th and 5th August										
6	0	0.0			0.0			1	0.2	2.0
	6	0.0			0.0			1	0.2	2.0
	12	0.0			0.0			1	0.1	2.0
	18	0.0			0.0			2	0.2	3.3
7	0	0.0			0.0			2	0.1	3.6
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
Weak microseisms less than 0.1 μ on 8th August										
- Regular world day -										
9	0	3	0.2	2.0	3	0.3	2.2	3	0.5	2.5
	3	3	0.2	2.1	3	0.2	2.2	3	0.5	2.5
	6	...			3	0.2	2.5	...		
	9	...			...			...		
	12	0.0			2	0.1	2.5	2	0.3	2.4
	15	0.0			0.0			2	0.2	3.0
	18	...			...			...		
	21	0.0			0.0			2	0.2	3.0
- Regular world day -										
10	0	0.0			0.0			2	0.1	3.1
Weak microseisms less than 0.1 μ from 01h 00m to 23h 00m										
- Regular world day -										
Weak microseisms less than 0.1 μ										
12	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			1	0.3	3.0

International Seismological Centre

Constants of the Station (from 12th august

Instruments	Components	To	Vo	ε	Registration
Alfani 3 kg	N - S	8.3	2.500	∞	Foto
" 3 "	E - W	8.1	3.424	∞	"
" 3 "	Z	3.4	1.819	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
12	Microseismic storm from 12th August - 16h 30m to 13th August 15h 30m									
	17	...			...					
	18	1	0.2	2.5	1	0.2	2.0	...		
	19	1	0.2	2.5	1	0.2	2.0	...		
	20	1	0.2	2.5	1	0.2	2.2	...		
	21	1	0.2	3.3	1	0.2	2.2	...		
	22	1	0.2	3.5	1	0.3	2.3	...		
	23	1	0.3	3.0	1	0.4	2.8	1	1.2	2.4
13	0	1	0.3	3.3	1	0.5	3.1	1	1.4	2.7
	1	1	0.3	3.1	1	0.5	3.0	1	1.7	2.5
	2	1	0.3	3.1	1	0.5	3.2	1	1.7	2.7
	3	1	0.3	3.0	1	0.5	3.0	1	1.7	2.6
	4	1	0.3	3.3	1	0.5	2.8	1	1.7	2.7
	5	1	0.3	3.3	1	0.4	3.0	1	1.4	3.0
	6	1	0.3	3.3	1	0.4	2.7	1	1.4	2.6
	7	1	0.3	3.0	1	0.4	2.8	1	1.4	2.7
	8	1	0.3	3.0	1	0.3	3.0	1	1.1	2.6
	9	1	0.2	3.3	1	0.3	3.0	1	1.0	2.8
	10	1	0.2	3.3	1	0.2	3.2	1	0.8	2.8
	11	1	0.2	3.0	1	0.2	3.2	1	0.8	2.6
	12	1	0.2	3.3	1	0.2	3.3	1	0.7	2.7
	13	1	0.2	3.3	1	0.2	3.3	1	0.7	2.6
	14	1	0.2	3.3	1	0.2	3.0	1	0.7	2.7
	15	...			...			...		
	18	1	0.1	3.0	1	0.1	3.0	1	0.4	2.7

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
14	0	0.0			0.0			1	0.2	3.0
		Microseismic storm from 00^h 30^m to 16^h 50^m								
	1	0.0			1	0.1	1.2	1	0.1	1.8
	2	0.0			1	0.2	1.2	1	0.4	1.8
	3	1	0.1	2.1	1	0.2	1.5	1	0.4	2.0
	4	1	0.2	2.1	1	0.2	1.5	1	0.4	2.0
	5	1	0.2	2.1	1	0.2	1.8	1	0.7	2.0
	6	1	0.2	2.0	1	0.2	2.0	1	0.8	2.0
	7	1	0.1	1.9	1	0.2	2.0	1	0.7	2.0
	8	...			1	0.2	2.0	1	0.7	2.0
	9	...			1	0.2	2.0	1	0.6	2.2
	10	0.0			1	0.1	2.0	1	0.5	2.3
	11	0.0			1	0.1	2.0	1	0.4	2.3
	12	0.0			1	0.1	2.0	1	0.4	2.3
	13	...			...			...		
	14	0.0			0.0			1	0.3	2.3
	15	0.0			0.0			1	0.3	2.3
	16	0.0			0.0			1	0.2	2.3
	18	0.0			0.0			1	0.2	2.5
15	0	0.0			0.0			1	0.1	2.0
	6	0.0			0.0			1	0.1	2.0
	12	0.0			1	0.2	1.2	1	0.1	1.8
	18	0.0			1	0.2	1.2	1	0.1	1.8
16	0	0.0			1	0.2	1.1	0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
		Weak microseismic less than 0.1 μ on 17th august								
18	0	0.0			0.0			2	0.1	3.0
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			1	0.1	2.3

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
19	0	0.0			0.0			1	0.2	3.0
	Microseismic storm from $04^h\ 20^m$ to $23^h\ 10^m$									
	5	0.0			0.0			1	0.4	2.0
	6	1	0.1	2.5	1	0.1	2.0	1	0.6	2.0
	7	1	0.3	2.2	1	0.3	2.2	1	0.9	2.5
	8	1	0.3	2.2	1	0.4	2.3	1	1.2	2.4
	9	1	0.3	3.2	1	0.4	2.7	1	2.1	2.5
	10	1	0.4	3.0	1	0.6	2.7	1	2.4	3.0
	11	1	0.5	3.0	1	0.7	3.2	1	2.4	3.0
	12	1	0.3	2.8	1	0.6	3.2	1	2.4	3.0
	13	1	0.3	2.8	1	0.6	3.2	1	2.4	3.0
	14	1	0.3	2.8	1	0.4	2.8	1	1.7	3.0
	15	1	0.3	3.0	1	0.3	2.7	1	1.7	2.9
	16	1	0.2	3.0	1	0.2	2.7	1	1.0	2.9
	17	1	0.2	3.0	1	0.2	2.7	1	0.8	2.9
	18	1	0.2	3.2	1	0.2	3.0	1	0.7	3.0
	19	1	0.1	2.8	1	0.2	3.0	1	0.5	2.9
	20	1	0.1	2.8	1	0.1	3.0	1	0.5	3.0
	21	1	0.1	3.2	1	0.1	3.0	1	0.3	3.0
	22	1	0.1	3.2	1	0.1	3.0	1	0.3	2.5
	23	1	0.1	3.2	1	0.1	3.0	1	0.2	2.5
20	0	0.0			0.0			1	0.2	3.0
	6	0.0			0.0			1	0.3	2.0
	12	0.0			0.0			1	0.2	2.0
	18	0.0			0.0			0.0		
	Weak microseisms less than 0.1 μ on 21th august									
22	0	0.0			0.0			0.0		
	6	2	0.1	4.7	2	0.1	4.8	2	0.1	4.0
	12	0.0			0.0			0.0		
	18	2	0.1	5.7	2	0.1	6.0	2	0.1	4.7
23	0	2	0.1	5.3	2	0.1	5.3	0.0		
	6	2	0.1	5.3	2	0.1	5.3	0.0		
	12	2	0.1	5.0	2	0.1	5.0	2	0.1	4.0
	18	2	0.1	5.0	2	0.1	5.0	2	0.1	4.0
	Weak microseisms less than 0.1 u from 24th august to 30th august									
30	Microseismic storm from 30th august - $21^h\ 30^m$ to 31st august - $15^h\ 30^m$									
	22	0.0			3	0.1	1.6	1	0.2	1.8
	23	...			3	0.2	1.8	1	0.7	2.0

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
31	0	...			3	0.2	2.0	3	0.6	2.0
	1	...			3	0.2	2.1	3	0.6	2.0
	2	...			3	0.3	2.0	3	0.8	2.2
	3	...			3	0.4	2.0	3	0.9	2.0
	4	...			3	0.6	2.2	3	1.5	2.1
	5	...			3	0.4	2.2	3	1.0	2.1
	6	...			...			3	1.0	2.1
	7	3	0.2	2.3	3	0.3	2.3	3	0.7	2.1
	8	3	0.2	2.3	3	0.3	2.5	3	0.7	2.2
	9	3	0.2	2.4	3	0.2	2.2	3	0.7	2.4
	10	3	0.1	2.3	3	0.2	2.4	3	0.6	2.4
	11	3	0.1	2.3	3	0.2	2.3	3	0.5	2.4
	12	0.0			3	0.1	2.1	3	0.5	2.3
	13	0.0			3	0.1	2.3	3	0.4	2.3
	14	0.0			3	0.1	2.3	3	0.3	2.4
	15	0.0			0.0			3	0.2	2.4
	18	0.0			0.0			1	0.2	2.7

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 Italia

- September 1960 -

N°	Date	Character	Phase		h. m. s.	Remarks
1	1	IVu	eP'	Z	07 54 35	Traces
						USCGS: 27.6 S, 176.9 W
						h = ab. 500 km Tonga Islands
						region H = 07.35.21.9
2	1	IVu	eP'	Z	09 47 49	Weak ab. 15.900 km
			iP'2	Z	47 53	USCGS: 16.8 S, 167.6 E
			eiPP	Z	51 08	h = ab. 63 km New Hebrides
			eSKP	E	51 32	Islands M = 6 (Pas)
						H = 09.28.19.5
3	1	Iu	iP'1	Z	10 54 36	Weak ab. 15.900 km
			e	ZN	57 15	USCGS: 16.5.S, 167.6 E
			eSKKS	E	11 04 05	h = ab. 27 km New Hebrides
						Islands M = 6 (Pas)
						H = 10.35.01.1
4	1	Iu	eP'	Z	11 34 31	Traces
			ePP	Z	37 48	USCGS: 16.6 S, 167.4 E
						h = ab. 35 km New Hebrides
						Islands H = 11.14.59.6
5	1	Iu	eP	ZN	15 49 13	8750 km
			i	Z	49 15	USCGS: 56.1 N, 153,7 W
			e(PP)	Z	52 13	h = ab. 24 km Kodiak
			ePPP	Z	54 04	Island Alaska M = 6-6 1/4(Pas)
			eS	E	59 06	H = 15.37.14.4
			eSS	E	16 04 27	
			eL	E	15 25	
			eM	E	20,0 ca	

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N°	Date	Character	Phase		h. m. s.	Remarks
6	1	IV	eP'1	Z	19 01 (00)	Traces
			iP'2	Z	01 02	USCGS: 15.8.S, 179.2 E h = ab
						33 km Fiji Islands H = 18.41.16.2
7	1	IVu	eP'1	Z	20 21 42	Traces
			iP'2	Z	21 48	USCGS: 16.1 S, 179.6 W h = ab.183 km
						Fiji Islands H = 20.02.12.8
8	2	Iu	eP	Z	13 57 00	Weak 7350 km
			eS	N	05 49	USCGS: 28.7 N, 98.3 E H = ab. 48 km
			eM	N	23 (10)	TIBET H = 13.46.10.0
9	2	I(v)	e	N	15 43 17	Traces (z not recording)
			i(Sg)	N	43 22	
10	2	In	eiP	Z	22 15 11	D = 9150 km
			iS	E	25 23	USCGS: 52.0.N, 171.4 W h = ab. 49 km
			eSP	E	16 19	Fox Islands, Auletian Islands
			eL	N	42.5 ca	M = 5 3/4 - 6 (Pas.) H = 22.02.48.9
			eM	N	51.9 ca	
11	2	I	e	Z	22 41 35	Traces
12	3	I	e	Z	00 05 13	Traces
			e	E	09 25	
13	3	I	(e)P'2	Z	06 01 46	Traces
						USCGS: 20.9 S, 174.4 W h = ab. 61 km
						Tonga Islands H = 05.41.39.9
14	3	IVu	iP'	Z+	12 59 54	Very weak ab. 14.200 km
			epP'	Z	01 46	USCGS: 6.1 S, 154.5 E h = ab. 457 km
			iPP	Z	13 02 05	Solomon Islands Felt at Karrola and
			i	E	03 14	Rabaul M = 6½ - 6 3/4 (Pas)
			e	N	21 03	H = 12.41.34.9
15	3	Iu	iP	Z +	23 58 44	9050 km
			i	Z	59 03	USCGS: 44.6 N, 149.1 E
			iS	N	00 08 55	h = ab. 27 km Kurile Islands
			i(SKS)	E	09 10	M = 6 1/4 (Pas.) H = 23.46.23.9
			eSP	E	09 39	
			eSPP	E	10 27	
			eSSS	E	18 09	
			eL	E	24,5 ca	
			eM	E	30,5 ca	
16	5	I	e	EN	21 36 38	Traces

Nº	Date	Character	Phase		h. m. s.	Remarks
17	5	I	e	N	22 16 10	Traces
18	6	Iu	iP'1	Z	14 22 42	Traces
			iP'2	Z	22 51	USCGS: 20,4 S, 145,1 E h = ab. 38 km Near North coast of New Guinea H = 14.03.01.8
19	8	Iu	(e)PP	Z	11 25 49	Traces
						USCGS: 6,2 N, 126.2 E h = ab. 47 km Near east coast of Mindanao H = 11.07.40.8
20	8	Iu	i	Z	14 43 56	Traces ab. 8700 km
						USCGS: 52.5.N, 158,8 E h = ab. 29 km Kamchatka H = 14.32.00.3
21	9	Iv	ePn	E	05 03 52	Weak (Z not recording) 300 km
			iSn	E	04 25	
			iSg	E	04 35	
22	9	Iv	e	E	21 29 45	Traces
			i	E	30 15	
			i	N	30 19	
23	10	Iv	ePgPgPg	N	00 23 49	1620 km
			eSn	E	25 23	USCGS: 34.4 N, 26.4 E h = ab. 10 km
			e	E	26 29	Crete H = 00.19.08.4
			eSgSgSg	EN	27 11	
			eQ	E	27 36	
			eM	E	28 29	
24	10	IVu	ePP	ZE	11 01 56	Weak ab. 11.100 km h = ab. 500 km
			ISKS	EN	07 19	USCGS: 4,0 N, 122,6 E Celebes Sea
			e	E	11 13	h = ab. 629 km H = 10.44.51.2
			e	E	13 26	
25	10	Iv	ePn	Z	12 44 44	(290) km
			ePg	E	44 48	
			ePgPg	Z	45 53	
			e	N	45 11	
			eSn	E	45 16	
			ISg	E	45 25	
			ISgSg	N	45 35	
			IM	Z	46 05	
26	11	Iv	I	E	01 48 52	Traces
27	11	Iv	I	E	06 06 53	Traces
28	11	Iv	I	N	14 39 44	Traces

Nº	Date	Character	Phase		h. m. s.	Remarks
29	12	Iu	eP	E	11 29 48	Traces
			eS	E	40 26	USCGS: 27.3 N, 128.4 E h = ab.
			eM	E	13 02,4 ca	48 km Ryukyu Islands May 6½ -
						6 3/4 (Pas.) H = 12.17.08.1
30	13	IVu	eP	Z	03 21 37	Traces 10.300 km h = 440 km
						USCGS: 270 N, 140.2 E
						h = ab. 439 km Bonin Islands
31	13	I(v)	i	E	11 29 56	region H = 03.09.09.7
32	13	I	e	E	20 53 40	Traces
33	13	I(d)	i	E	21 14 46	Traces
34	14	Iu	(e)P	Z	00 47 30	Traces
						USCGS: 16.9 N, 122.3 E h = ab. 50 km
						Luzon Philippine Islands
						H = 00.34.25.3
35	14	I(v)	e	E	01 02 39	Very weak
			e	E	03 03	
			i	E	04 21	
36	14	IVu	eP	Z	02 04 (54)	Traces
						USCGS: 19.6 N, 70.3 W
						h = ab. 103 km Dominican Republic
						H = 01.53.32.1
37	14	I	i	E	15 30 32	Traces
			e	E	32 07	
38	14	Iu	eP'1	Z	23 38 30	Traces
			(e)P'2	Z	39 04	USCGS: 20.9 S, 174.1 W
						h = ab. 25 km Tonga Islands
						H = 23.18.35.1
39	15	Iu	eP'	Z	03 50 49	Traces
						USCGS: 16.5 S, 167.3 E
						h = ab. 69 km New Hebrides Islands
						H = 03.31.17.5
40	16	I	I	E	01 17 44	Traces
41	16	I	I	E	01 31 32	Traces

N°	Date	Character	Phase		h. m. s.	Remarks
42	17	Iu	eP	Z	08 04 58	Traces obscured by next shock
			eL	E	08 38 26	USCGS: 49,3 N, 155,4 E
						h = ab. 35 km Kurile Islands
						M = 6 (Pas.) H = 07.52.50.8
43	17	Iu	iP	Z	08 17 38	8800 km
			i	Z	18 05	USCGS: 49,4 N, 155.2 E,
			ePP	Z	20 42	h = ab. 28 km Kurile Islands
			eS	N	27 36	M = 6 (Pas.) H = 08.05.29.5
			e(SP)	E	28 11	
			eM	E	47 07	
44	17	Iu	eP'1	Z	20 16 03	Traces
			eP'2	Z	16 25	USCGS: 20.9 S, 174.5 W
						h = ab. 28 km Tonga Islands
						M = 6 (Pas.) H = 19.56.11.1
45	18	Iu	ePP	E	09 59 50	Traces
						USCGS: 6,8 S, 129.2 E
						h = ab. 83 km Banda Sea
						H = 09.40.28.3
46	19	IVu	e(SKS)	E	04 03 (00)	10050 km weak h = ab. 100 km
			eS	E	03 22	USCGS: 15,6 N, 120.0 E
			eM	E	28 35	h = ab. 97 km
						Luzon Islands, Philippine
						Islands
						H = 03.39.40.9
47	19	Iu	eiP	Z	19 14 06	9600 km
			i(SKS)	E	24 38	USCGS: 6.9 N, 77.5 W
			iS	E	24 55	h = ab. 66 km Colombia -
			eSS	N	30 28	Panama border M = 6 - 6½ (Berk),
			eM	E	51,0 ca	6(Pas.) H = 19.01.25.4
48	22	Iu	eiP	Z	05 47 17	5750 km
			ePP	N	49 13	USCGS: 3,4 S, 29.1 E
			ePPP	N	50 18	h = ab. 29 km Belgian Congo
			eS	N	54 33	Damage at Usumbura, Uvira
			eM	E	06 07,6	H = 05.38.14.4
49	22	IIu	iP	Z	09 14 38	Ab. 5750 km
			iPP	Z	16 40	USCGS: 3.3, 29.3 E
			(e)PPP	N	17 44	H = ab. 28 km Belgian Congo
			eS	E	21 53	M = 6 1/4 - 6½ (Pal.)
			iSP	N	22 11	H = 09.05.36.8
			eSS	E	25 35	
			L	E	30,7	
			M	E	34,6	

N°	Date	Character	Phase		h. m. s.	Remarks
50	22	Iu	IIP	Z-	09 23 58	Ab. 5650 km
			ePP	Z	25 55	
			eS	N	31 20	USCGS: 2.8 S, 29.8 E
			ISS	E	35 05	h = ab. 20 km Congo
			L	E	40 30	
			M	E	44 10	H = 09.14.58.0
51	23	I	eP'1	Z	23 22 17	Traces
			eP'2	Z	22 55	22.2. S, 174.8 W h = ab.
						39 km Tonga Islands
						M = 5 3/4 (Pal.)
						H = 23.02.24.3
52	27	Iv	ePn	Z	12 35 58	340 km
			ISn	E	36 34	
			ISg	E	36 47	
			eM	E	37 11	
53	28	Iv	ePn	Z	17 23 49	310 km
			eSn	Z	24 21	
			ISg	E	24 34	
54	28	Iv	ePn	Z	20 46 39	(280) km
			e	E	46 41	
			i	E	46 47	
			i(Sn)	E	47 10	
55	28	Iv	ePn	Z	22 25 16	Ab 820 km
			e(SgSg)	N	27 30	
			e(Q)	E	27 42	
56	28	Iv	e	E	01 19 20	Traces
			e(Sg)	E	19 42	
57	29	Iu	IPP	Z	11 36 17	11400 km h = ab. 460 km
			eS	E	41 57	USCGS: 18.9 N, 144.7 E
			e	N	44 33	h = ab. 469 km
						Mariana Islands
						M = 6(Berk), 6 1/4 - 6½
						(Pas.) H = 11.18.52.9

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

- September 1960 -

Constants of the Station

Instruments	Components	T_o	V_o	ε	Registration
Alfani 3 kg	N - S	8.3	2.500	∞	Foto
" 3 "	E - W	8.1	3.424	∞	"
" 3 "	Z	3.4	1.819	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	0.0			0.0			1	0.2	2.7
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		

Weak microseisms less than 01 u from 2nd September to 4th September

5	0	0.0			0.0			3	0.1	2.0
	6	3	0.2	2.0	3	0.2	1.5	3	0.4	2.1
	12	0.0			0.0			3	0.2	2.2
	18	0.0			3	0.1	1.7	3	0.3	2.2
6	0	3	0.1	2.1	3	0.1	2.4	3	0.4	2.3
	6	3	0.1	2.1	3	0.2	2.2	3	0.5	2.3
	12	3	0.2	2.5	3	0.2	2.3	3	0.5	2.6
	18	3	0.2	2.3	3	0.2	2.3	3	0.7	2.2
7	0	3	0.2	2.3	3	0.2	2.2	3	0.4	2.2
	6	2	0.1	3.0	2	0.1	3.0	2	0.3	2.7
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
8	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			3	0.2	2.0

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
9	0	3	0.1	2.0	3	0.2	2.0	3	0.2	2.0
	6	3	0.1	2.0	3	0.2	2.0	3	0.4	2.0
	12	3	0.1	2.0	3	0.2	2.0	3	0.4	2.3
	18	0.0			...			3	0.3	2.2
10	0	0.0			3	0.1	2.5	3	0.4	2.4
	6	0.0			3	0.1	2.5	3	0.4	2.4
	12	0.0			0.0			3	0.4	2.0
	18	2	0.1	6.0	0.0			3	0.4	2.0
11	0	2	0.1	6.0	2	0.1	6.0	3	0.3	2.4
					3	0.1	2.0			
	6	2	0.1	6.0	2	0.1	6.0	3	0.3	2.4
					3	0.1	2.0			
	12	2	0.1	6.0	2	0.1	6.5	3	0.4	2.0
					3	0.1	2.0			
	18	2	0.1	6.0	2	0.1	5.8	3	0.3	2.0
					3	0.1	2.0			
12	0	2	0.1	6.0	2	0.1	6.4	3	0.4	2.4
					3	0.1	2.0			
	6	2	0.1	6.0	2	0.1	6.5	3	0.3	2.0
	12	2	0.1	6.3	2	0.1	6.5	3	0.2	2.0
	18	2	0.1	6.3	2	0.1	6.3	3	0.2	1.9

- Regular world interval -

13	0	2	0.1	6.5	2	0.1	6.5	3	0.1	1.8
	3	2	0.2	6.5	2	0.1	6.3	3	0.1	2.0
	6	2	0.2	6.5	2	0.1	6.4	3	0.1	2.0
	9	2	0.2	7.0	2	0.2	7.3	0.0		
	12	2	0.2	7.0	2	0.2	7.3	0.0		
	15	2	0.2	6.9	2	0.2	7.0	0.0		
	18	2	0.2	7.0	2	0.2	7.0	2	0.1	7.0
	21	2	0.2	7.1	2	0.2	6.9	2	0.1	7.0
14	0	2	0.2	6.9	2	0.2	7.0	2	0.1	7.0
	3	2	0.2	6.5	2	0.2	7.0	2	0.1	7.0
	6	2	0.2	6.5	2	0.2	6.9	2	0.1	6.5
	9	2	0.2	6.7	2	0.2	7.0	0.0		
	12	2	0.2	6.7	2	0.2	6.7	0.0		
	15	2	0.2	6.7	2	0.2	6.7	0.0		
	18	2	0.2	6.7	2	0.2	6.7	0.0		
	21	2	0.1	6.0	2	0.2	6.5	0.0		

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Date	Hours	K	AE/u	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
15	0	2	0.1	6.0	2	0.2	6.5	0.0		
	3	2	0.1	6.2	2	0.1	6.5	0.0		
	6	2	0.1	6.2	2	0.1	6.5	0.0		
	9	2	0.1	6.3	2	0.1	6.5	0.0		
	12	2	0.1	6.3	2	0.1	6.3	0.0		
	15	2	0.1	5.7	2	0.1	6.3	0.0		
	18	2	0.1	5.7	2	0.1	6.0	0.0		
	21	2	0.1	5.4	2	0.1	5.7	0.0		
16	0	0.0			0.0			3	0.1	2.7
	3	0.0			0.0			3	0.2	2.5
	6	0.0			0.0			3	0.2	2.5
	9	0.0			0.0			3	0.3	2.6
	12	3	0.1	2.5	3	0.1	2.5	3	0.4	2.7
	15	3	0.1	3.2	3	0.1	2.5	3	0.4	2.7
	18	3	0.2	3.2	3	0.1	3.0	3	0.5	2.7
	21	3	0.2	3.0	3	0.1	3.2	3	0.5	2.7
17	0	3	0.2	3.2	3	0.2	3.2	3	0.5	2.7
	3	3	0.2	3.3	3	0.2	3.3	3	0.5	2.7
	6	3	0.2	3.3	3	0.2	3.5	3	0.5	2.7
	9	...			...			...		
	12	3	0.1	3.3	3	0.1	3.3	3	0.4	2.5
	15	3	0.1	3.3	3	0.1	3.3	3	0.4	2.7
	18	3	0.1	3.2	3	0.1	3.2	3	0.3	2.5
	21	3	0.1	3.2	3	0.1	3.7	3	0.3	2.7
18	0	0.0			0.0			3	0.2	2.3
	3	3	0.1	2.5	3	0.1	2.0	3	0.4	2.2
	6	3	0.1	2.0	3	0.1	2.0	3	0.5	2.0
	9	0.0			0.0			3	0.3	2.1
	12	0.0			0.0			3	0.3	2.1
	15	0.0			0.0			3	0.3	2.5
	18	0.0			0.0			3	0.3	2.5
	21	0.0			0.0			3	0.3	2.5
19	0	0.0			0.0			3	0.3	2.5
	3	0.0			0.0			3	0.3	2.5
	6	0.0			0.0			3	0.3	2.2
	9	0.0			0.0			3	0.3	2.3
	12	0.0			0.0			3	0.3	2.7
	15	0.0			0.0			3	0.3	2.5
	18	0.0			0.0			3	0.3	2.5
	21	0.0			0.0					

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
				Regular world day						
20	0	0.0			0.0			3	0.3	2.3
	3	0.0			0.0			3	0.3	2.3
	6	0.0			0.0			3	0.3	2.7
	9	0.0			3	0.1	2.5	3	0.4	2.5
	12	0.0			3	0.1	2.7	3	0.4	2.5
	15	3	0.1	3.7	3	0.1	3.0	3	0.3	2.5
	18	3	0.1	3.7	3	0.1	3.3	3	0.3	2.5
	21	3	0.1	4.0	3	0.1	3.7	3	0.3	2.5
				- Regular world day -						
21	0	3	0.1	4.3	3	0.1	4.0	3	0.3	2.3
	3	3	0.1	4.0	3	0.1	4.0	3	0.3	2.3
	6	3	0.1	4.0	3	0.1	4.0	3	0.2	2.3
	9	0.0			0.0			3	0.3	2.0
	12	0.0			0.0			3	0.2	2.0
	15	0.0			0.0			3	0.2	2.0
	18	0.0			0.0			3	0.2	2.4
	21	0.0			0.0			3	0.2	2.3
				- Regular wordl day -						
22	0	0.0			3	0.1	2.0	3	0.2	2.3
	3	0.0			3	0.2	2.4	3	0.3	2.3
	6	...			...			...		
	9	3	0.1	2.5	3	0.1	2.4	3	0.4	2.5
	12	0.0			3	0.1	2.5	3	0.4	2.5
	15	0.0			0.0			3	0.3	2.5
	18	0.0			0.0			3	0.3	2.3
	21	0.0			0.0			3	0.3	2.3
23	0	0.0			0.0			3	0.2	2.3
	6	...			...			3	0.2	2.3
	12	0.0			0.0			3	0.1	2.0
	18	0.0			0.0			3	0.2	2.0
24	0	0.0			0.0			3	0.2	2.3
	6	0.0			0.0			...		
	12	3	0.1	5.0	3	0.1	4.7	...		
	18	3	0.1	5.4	3	0.1	5.0	...		

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
25	0	3	0.1	5.5	3	0.2	5.3	...		
	6	3	0.2	5.5	3	0.2	5.3	...		
	12	2	0.2	5.5	2	0.2	5.3	...		
	18	2	0.2	5.5	2	0.2	5.3	...		
26	0	2	0.2	5.3	2	0.2	5.7	...		
	6	2	0.2	5.0	2	0.2	5.7	...		
	12	2	0.1	5.0	2	0.1	5.0	2	0.2	4.5
	18	2	0.1	5.0	2	0.1	5.3	2	0.2	4.0
27	0	2	0.1	5.0	2	0.1	5.2	2	0.3	4.5
	6	2	0.1	5.2	2	0.2	5.0	2	0.2	4.0
	12	2	0.1	4.5	2	0.1	4.3	0.0		
	18	2	0.1	4.5	2	0.1	4.6	0.0		
28	0	3	0.1	2.5	3	0.2	2.8	3	0.4	2.4
	6	3	0.1	3.3	3	0.1	3.8	3	0.4	2.5
	12	3	0.2	3.0	3	0.2	3.3	3	0.4	2.6
	18	3	0.2	3.5	3	0.2	3.3	3	0.3	2.7
29	0	3	0.1	3.5	3	0.1	3.8	3	0.3	3.0
	6	0.0			0.0			3	0.1	3.0
	12	...			...			...		
	18	0.0			0.0			3	0.2	2.7
30	0	3	0.2	3.0	3	0.2	2.7	3	0.5	2.3
	6	3	0.1	3.0	3	0.1	2.5	3	0.3	2.1
	12	2	0.1	4.0	2	0.1	4.5	0.0		
	18	2	0.1	4.0	2	0.1	4.5	0.0		

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Viale Romolo Gessi, 4 Italia

- October 1960 -

Nº	Date	Character	Phase		h m s	Remarks
1	1	ir	(e)Sn	E	05 36 23	Tracing
			i	N	36 26	USCGSi 35.4 N, 23.2 E
			e$_g$S$_g$S$_g$	E	36 27	Crete h = ab. 36 km
						H =05.30.38.1
						RCIS: Eges sea near NE of
						Crete H = 05.30.38
2	1	ie	iP	Z	16 23 21	West sh. 9230 km
			eS	E	33 40	USCGSi 32.2 N, 119.6 W
			eR	E	36.5 ex	h = ab. 41 km
						Fox Islands, Aleutian
						Islands W = G (Berk),
						dd (Pas) ito 16.10.56.4
3	2	ie	(e)PP	E	12 14 51	Traces
			e(L)	E	36.4	USCGSi 36.7 S, 91.3 W
			eR	E	13 02.4	h = ab. 84 km
						Pacific Ocean, SE of
						Easter Island
						H = 11.33.44.1
4	2	ie	eP	Z	18 19.58	Traces
						USCGSi 18.6 N, 14.9 E
						h = ab. 104 km Buree
						H = 18.08.12.4
5	3	ie	eP	Z	08 57 28	Traces
						USCGSi 29.6 N, 66.2 E
						h = ab. 36 km West Pakistan
						H = 08.45.11.8
6	4	iw	e	E	08 03 28	Traces
7	6	ie	(e)IP	E	16 29 08	Traces
			eR	E	36 13	USCGSi 32.2 N, 107.2 E
						h = ab. 46 km
						Lake Baikal region
						H = 16.15.15.4

N°	Date	Character	Phase		h. m. s.	Remarks
8	6	Ir	eP	Z	20 01 50	Ab. 3400 km
			eIS	E	06 51	USCGS: 58.2 N, 31.6 W
			eL	E	10 16	h = ab. 63 km
			eM	E	12 47	North Atlantic Ocean
						H = 19.55.42.2
						BCIS: 57°½ N, 33°½ W
						North Atlantic Ocean
						SW of Island
						H = 19.55.34
9	7	Ir	eP	Z	03 21 46	Ab. 3400 km
			eS	E	26 46	USCGS: 58.1 N, 31.9 W
			eM	E	33 30	North Atlantic Ocean
						M = 4½ 4 3/4 (Pal)
						H = 03.15.34.9
10	7	Iu	I(PP)	E	15 38 10	Ab. 12650 km h = Ab.40 km
			I(SKS)	E	43 54	USCGS: 7.4 S, 130.7 E
			I	E	45 (00)	h = ab. 45 km Banda Sea
			I	E	47 43	M = 6½ - 6 3/4 (Berk)
			eSS	N	54 02	6 3/4 - 7(Pal)
						H = 15.18.30.8
11	8	IIu	iP	Z	06 03 58	8700 km h = ab. 600 km
			ipP	Z	06 11	USCGS: 40.0 N, 129.7 E
			IPP	Z	07 08	h = ab. 608 km Sea of
			ipPP	Z	08 54	Japan
			iIS	E	12 57	M = 6½ - 6 3/4 (Pas)
			iSP	E	13 44	6 1/4 - 6½ (Berk)
			eSPP	E	14 34	H = 05.53.01.1
			I	N	16 55	
			eSS	E	18 24	
			esSS	E	21 44	
			eSSS	E	22 14	
12	8	Iv	ePn	Z	13 55 19	Ab. 570 km
			i(PgPgPg)	Z	55 47	USCGS: 47.7 N, 19.6 E
			i(Sb)	N	56 35	h = ab. 24 km Jugoslavia
			IM	N	57 16	H = 13.54.03.3
13	8	Iu	eP	Z	20 51 55	Weak
			e(M)	E	21 26 21	USCGS: 79 N, 92.9 E
						h = ab. 84 km Nicobar
						Islands H = 20.40.06.6

N°	Date	Character	Phase		h. m. s.	Remarks
14	9	IVu	iP	Z	09.12.50	9100 km ca h = ab. 100 km
			iPPP	Z	17 48	USCGS: 40.8 N, 141.2 E
			iIS	E	22 54	Near coast of Northern
			eSP	E	23 36	Honshu , Japan Felt
			i	N	23 42	M = 6 1/4 (Pas) 6 (Pal)
			eSPP	E	24 22	H = 09.00.42.0
			eSS	E	28 04	
			eSSS	E	31 30	
			eL	E	39 22	
			iM	E	45 42	
15	9	Iu	i	Z	10 10 (59)	Traces
						USCGS: 15.1.S, 174.0 W
						h = ab. 129 km Samoa Islands
						region Felt: Apia
						H = 09.51.19.1
16	13	Iv	iPgPg	E	02 23 34	Traces
			iSgSg	E	25 19	USCGS: 45,2 N, 25.8 E
						h = ab. 63 km Romania
						H = 02.21.12.7
17	13	Iu	iP	ZN	15 04 26	8550 km
			iIS	EN	14 10	USCGS: 54.8 N, 161.2 E
			iSP	E	14 54	h = ab. 35 km Kamchatka
			eL	E	29 21	M = 6 3/4 (Pas), 6 1/4 -
			eM	E	34,7	6½ (Berk) H = 14.52.34.7
18	13	I(d)	ePg	E	23 15 15	Traces
			iSg	E	15 19	
19	14	Iu	eP	N	21 31 42	Ab. 9300 km
			e	N	41 52	USCGS: 51.7 N, 172.1 W
			iS	E	42 03	h = ab. 50 km
			eSS	N	47 40	Fox Islands Auletian Islands
			eSSS	N	51 29	M = 6½(Pas) (Berk) (Pal)
			LQ	E	53,7	H = 21.19.11.4
			LR	E	22 01,3	
			MQ	E	05,2	
			MR	E	12,9	
20	14	Iu	eM	E	23 12,8	Obscured by microseisms
						USCGS: 55.5 N, 35,2 W
						h = ab. 40 km North Atlantic
						Ocean H = 22.55.41.7
21	15	Iu	eM	E	02 11,0	Obscured by microseisms
						USCGS: 55.6.N, 35,6 W
						h = ab. 37 km
						North Atlantic Ocean
						H = 01.54.09.2

N°	Date	Character	Phase		h. m. s.	Remarks
22	16	I	e	N	09 48 29	Components Z and E not recor
			i	N	48 49	ding
			i	N	49 30	
23	17	Iv	iP	Z	15 58 23	Traces
						USCGS: 4,8 N, 78.4 W
						h = ab. 83 km off coast of
						Colombia M = 4 3/4 (Pal)
						H = 15.45.36.9
24	17	Ir	eP	Z	18 13 43	Traces
			e	Z	15 03	USCGS: 30.7 N, 40.4 W
						h = ab 65 km Atlantic Ocean
						H = 18.05.32.7
25	17	Ir	eP	Z	19 10 28	Traces
			e	Z	12 20	USCGS: 31.7 N, 40.7 W
						h = ab. 47 km Atlantic
						Ocean H = 19.02.20.9
26	18	Iv	ePg	Z	11 47 22	410 km
			e(Sn)	E	47 44	
			iSg	ZE	47 48	
27	20	Iu	ePⁱ	Z	11 25 21	Weak ab. 15300 km
			eiSKP	E	28 55	USCGS: 11.0 S, 164.9 E
						h = ab. 40km
						Santa Cruz Islands region
						M = 6 1/4(Pas) 5½ - 6 (Berk)
						H = 11.05.58.3
28	22	IVu	ePᵗ	Z	08 41 13	Weak ab 15000 km
			ePP	Z	43 57	h = ab. 93 km Salomon
			i	Z	44 04	Islands region M = 6 1/4
			iPKS	Z	44 40	6½ (Berk) 6 3/4 - 7 (Pas)
			L	E	09 26,4	6(Pal) H = 08.22.00,9
			M	E	38,0	
29	22	I	e	Z	08 58 04	Traces
30	22	Iv	ePn	Z	19 19 09	580 km
			ePgPg	Z	19 32	BCIS: 46° 1 N, 21° 0 E
			eSn	Z	20 10	Border region Hungarian
			iSb	N	20 31	- Romanie west of Arad
			iSgSg	Z	20 44	H = 19.17.50
						USCGS: 45,4 N, 20.9 E
						h = ab. 60 km
						Hungarian - Romania border
						H = 19.17.47.2

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N°	Date	Character	Phase		h. m. s.	Remarks
31	23	Ir	eP	Z	06 40 33	Traces
						USCGS: 31,2 N, 40,7 W
						h = ab. 61 km Atlantic
						Ocean H = 06.32.24.9
32	24	Iv	e	N	15 48 39	Weak
			i	N	48 53	
33	26	Iv	i	ZEN	12 31 43	Weak
			i	E	31 47	
34	26	I(v)	e(Sn)	E	22 58 55	Weak (880) km
			i(Sg)	E	59 47	USCGS: 40.3 N, 20.8 E
						h = ab. 61 km Greece
						H = 22.55.25.1
35	27	IVu	eP'1	Z	22 47 13	Weak Ab. 16500 km h = 250 km
			iP'2	Z	47 17	USCGS: 15.2 S, 175.0 W
			eipP'1	Z	48 21	h = 253 km Samoa Islands
						region H = 22.27.55.1
36	28	Ir	eiP	Z	04 24 34	Ab.3100 km
			e	E	28 27	BCIS: H = 04.18.50
			eS	E	29 18	BERGEN: 71° N, 6° W
			eM	E	34 25	Artic Ocean East of Jean
						Mayen Island Felt
						USCGS: 71.3 N, 8.6 W
						h = ab. 48 km Jean Mayen
						Island M = 5½ (Pal) 6 3/4 (Pas)
						H = 04.18.41.9
37	28	Iu	iP	N	13 30 05	Ab. 8700 km
			e(PP)	N	32 48	USCGS: 52.0 N, 157,4 E
			ePPP	E	34 36	h = ab 96 km Hamchatka
			iS	EN	39 46	H = 13.18.14.3
			i	N	40 51	
			eSS	E	44 28	
			L	E	54 40	
			M	E	59 26	
38	28	Iu	e	Z	22 42 21	Weak ab. 9600 km
			eS	E	52 34	USCGS: 34,4 N, 141.1 E
			eL	E	23 10,4	h = ab. 96 km Near coast
			eM	E	16,8	nort of Honshu, Japan
						H = 22.29.26.6

N°	Date	Character	Phase		h. m. s.	Remarks
39	29	IIv	iPn	Z	00 09 17	260 km
			i	Z	09 24	BCIS: 44° 0 N, 11° 3 E
			i(PgPgPg)	N	09 37	Press : Felt Mongello province
			i(Sb)	N	09 50	Slight damage at Scarperia
			iSgSg	NW-SE	10 (03)	H = 00.08.39
						USCGS: 44.0 N, 11.5 E
						h = ab. 45 km Italy
						H = 00.08.41.4
40	29	Iv	iPn	Z	00 13 23	Obscured by preceding shock
41	29	Iu	iP'1	Z	09 57 26	Traces
						USCGS: 15.8 S, 172.9 W
						h = ab. 99 km Samoa Islands
						region M = 5½° 5 3/4 (Pal)
						Felt, Apia H = 09.37.41.6
42	30	Iu	eSKS	E	12 39 13	Weak and obscured by micro-
			eS	E	40 20	seisms Ab. 11400 km
			eSP	E	41 49	23.3 S 70.3 W h = ab. 76 km
			eSPP	E	42 42	Near coast of Chile
			eSS	E	47 21	Felt: Antofagasta and
			eM	E	13 09 46	Mejillones M = 6 4/4(Berk)
						6 3/4 (Pas) H = 12.14.36.1
43	30	Iu	eSKS	E	21 57 07	Traces
			eS	E	58 10	USCGS: 22.8 S, 68 W
						h = ab. 60 km
						Chile Bolivia border
						Felt: Antofagasta Mejillones,
						Tocapilla, San Pedro de
						Atacama, Calama M = 6 3/4 (Pas)
						H = 21.32.47,7

C.PUPIS

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E
Viale Romolo Gessi, 4 - Italia

- October 1960 -

Constants of the Station

Instruments	Components	T_o	V_o	ε	Registration
Alfani 3 kg	N - S	8.3	2.500	∞	Foto
" 3 "	E - W	8.1	3.424	∞	"
" 3 "	Z	3.4	1.819	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	0.0			0.0			3	0.3	2.5
	6	0.0			0.0			3	0.3	2.5
	12	3	0.1	2.5	3	0.1	2.3	3	0.3	2.3
	18	0.0			0.0			3	0.3	2.3
2	0	0.0			0.0			3	0.1	2.5
	6	0.0			0.0			0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		

Weak microseisms less than 0,1 u from 3rd October to 4th October

5	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	2	0.1	4.2	2	0.1	4.5	2	0.1	2.7
	18	2	0.1	4.5	2	0.1	4.6	2	0.1	2.7
6	0	0.0			2	0.1	4.7	2	0.1	2.7
	6	0.0			2	0.1	4.7	2	0.1	2.7
	12	0.0			0.0					
	18	0.0			0.0					
7	0	0.0			0.0			3	0.3	2.0
	6	0.0			3	0.1	2.5	3	0.3	2.0
	12	3	0.1	2.7	3	0.2	3.0	3	0.5	2.4
	18	3	0.1	2.5	3	0.2	2.7	3	0.5	2.4
8	0	3	0.1	2.7	3	0.2	2.5	3	0.4	2.5
	6	3	0.1	3.0	3	0.3	2.7	3	0.4	2.7
	12	0.0			3	0.2	3.0	3	0.3	2.7
	18	0.0			3	0.1	3.0	3	0.1	2.5

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
9	0	0.0			0.0			0.0		
	6	...			2	0.1	4.0	2	0.1	3.0
	12	0.0			2	0.1	3.0	2	0.1	2.0
	18	0.0			0.0			3	0.2	2.5
10	0	3	0.1	3.0	3	0.2	2.5	3	0.5	2.8
	6	3	0.1	2.5	3	0.2	2.5	...		
	12	0.0			3	0.2	2.5	...		
	18	3	0.1	3.0	3	0.2	3.3	...		
11	0	3	0.1	3.0	3	0.1	3.3	...		
	6	...			0.0			...		
	12	3	0.2	3.4	3	0.2	3.0	...		
	18	3	0.1	3.2	3	0.1	3.0	...		
12	0	2	0.1	5.1	2	0.2	4.7	3	0.3	2.8
	6	2	0.1	5.0	2	0.2	5.0	3	0.2	2.8
	12	1	0.5	2.0	1	0.4	2.0	1	0.8	2.0
	18	0.0						3	0.2	2.3
13	0	2	0.1	4.0	0.0			3	0.2	2.3
	6	0.0			0.0			...		
	12	3	0.2	2.7	3	0.2	2.5	3	0.6	2.2
	18	2	0.1	3.5	3	0.2	3.0	2	0.3	3.0
14	0	0.0			0.0			2	0.2	2.5
	6	0.0			0.0			0.0		
	12	0.0			0.0			3	0.3	1.8
	18	3	0.1	4.0	3	0.2	4.0	3	0.6	1.8
15	0	3	0.4	4.5	3	0.5	4.0	3	0.8	1.8
	6	3	0.4	4.0	3	0.4	3.7	3	0.8	1.8
	12	3	0.2	2.7	3	0.3	2.5	3	0.9	2.5
	18	3	0.2	3.0	3	0.4	2.7	3	1.0	2.5
16	0	3	0.2	2.5	3	0.5	2.7	3	0.8	2.2
	6	3	0.1	2.3	3	0.2	2.3	3	0.5	2.5
	12	0.0			3	0.1	2.5	3	0.4	2.4
	18	2	0.2	4.5	2	0.2	4.7	3	0.5	2.4
17	0	2	0.2	5.0	2	0.2	4.5	3	0.4	2.4
	6	2	0.2	5.0	2	0.2	5.0	3	0.3	2.3
	12	2	0.1	4.5	2	0.2	3.6	3	0.3	2.0
	18	2	0.2	5.5	2	0.2	5.4	2	0.4	5.0

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
				- Regular world day -						
18	0	2	0.2	5.7	2	0.2	5.2	2	0.3	4.5
	3	2	0.2	5.5	2	0.2	6.0	2	0.2	4.5
	6	2	0.2	5.5	2	0.2	5.4	2	0.2	5.0
	9	2	0.1	5.5	2	0.1	5.5	2	0.1	5.0
	12	2	0.1	5.5	2	0.1	5.3	2	0.1	5.0
	15	2	0.1	5.5	2	0.1	5.5	0.0		
	18	2	0.1	5.7	2	0.1	4.7	0.0		
	21	0.0			2	0.1	4.7	0.0		
				- Regular world day -						
19	0	0.0			2	0.1	4.7	0.0		
	3	0.0			2	0.1	4.5	0.0		
	6	0.0			2	0.1	4.3	0.0		
	9	0.0			2	0.1	4.7	2	0.2	3.7
	12	0.0			2	0.1	4.7	2	0.2	3.7
	15	0.0			0.0			0.0		
	18	0.0			0.0			2	0.2	3.0
	21	0.0			0.0			0.0		
				- Regular world day -						
20	0	0.0			0.0			0.0		
	3	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	9	...			...			...		
	12	0.0			0.0			3	0.3	2.3
	15	0.0			0.0			3	0.4	2.5
	18	3	0.1	2.5	3	0.1	3.0	3	0.5	2.7
	21	3	0.1	3.2	3	0.2	3.0	3	0.6	2.7
21	0	3	0.2	3.8	3	0.3	3.3	3	0.7	2.3
	6	3	0.2	4.0	3	0.2	3.5	3	0.4	2.5
	12	3	0.4	3.8	3	0.3	4.0	3	0.8	2.5
	18	3	0.3	4.7	3	0.3	4.2	3	0.6	2.5
22	0	3	0.3	4.5	3	0.2	4.0	3	0.8	
	6	3	0.1	4.0	3	0.1	4.2	3	0.4	
	12	2	0.1	4.0	2	0.1	4.3	2	0.1	3.5
	18	2	0.1	4.2	2	0.1	4.5	2	0.2	4.0
23	0	3	0.1	4.7	3	0.1	4.5	3	0.1	2.0
	6	3	0.1	4.1	3	0.1	4.5	3	0.2	2.5
	12	0.0			0.0			3	0.3	2.3
	18	3	0.1	3.5	3	0.1	3.5	3	0.5	3.0

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AS/μ	TZ/sec
24	0	3	0.1	3.8	3	0.1	3.7	3	0.3	2.7
	6	0.0			3	0.1	3.5	3	0.3	3.0
	12	0.0			0.0			3	0.3	2.7
	18	0.0			0.0			3	0.3	2.7
25	0	0.0			2	0.1	3.4	2	0.3	3.0
	6	0.0			2			2	0.2	2.5
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
26	0	0.0			3	0.1	2.5	3	0.2	2.5
	6	0.0			3	0.1	3.0	3	0.2	2.5
	12	0.0			3	0.1	3.0	3	0.2	2.3
	18	0.0			3	0.1	2.7	3	0.2	2.5
27	0	0.0			3	0.1	2.4	3	0.4	2.5
	6	...			3	0.1	2.5	3	0.5	2.5
	12	0.0			0.0			3	0.3	2.3
	18	0.0			0.0			3	0.2	3.0
28	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			...		
	18	0.0			3	0.2	1.5	3	0.5	2.0
29	0	0.0			3	0.2	2.0	3	0.4	2.0
	6	3	0.1	4.0	3	0.2	3.5	3	0.3	2.5
	12	3	0.1	3.7	3	0.1	3.3	3		2.5
	18	3	0.2	3.5	3	0.2	3.5	...		
30	0	3	0.1	2.8	3	0.2	2.7	3	0.7	2.5
	6	3	0.1	3.5	3	0.1	2.8	3	0.9	2.6
	12	3	0.1	2.5	3	0.1	2.2	3	0.8	2.4
	18	3	0.1	2.5	3	0.1	2.5	3	0.6	2.5
31	0	3	0.1	2.5	3	0.1	2.5	3	0.4	2.8
	6	0.0			3	0.1	2.7	3	0.3	2.5
	12	0.0				0.0		3	0.2	2.0
	18	0.0				0.0		3	0.2	2.0

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 Italia

- November 1960 -

N°	Date	Character	Phase		h. m. s.	Remarks
1	1	I	eiP	Z	06 25 47	ab. 6850 km very weak
			e(PcP)	Z	26 37	USCGS: 11.1 S, 17.7 W h = ab 35 km
			eS	E	34 15	Ascension Island region M = 5 (Pal)
			eL	E	47,4	H = 06.15.29.4
2	1	Iu	iPP	Z	09 05 (46)	Ab 12700 km
			ePPP	Z	08 19	USCGS: 38,4 S, 74.4 W h = ab. 97 km
			eSKS	E	11 33	Near coast of Chile M = 6 3/4 - 7
			eSP	E	15 27	(Berk) 7 1/4 - 7½ (Pas) 6½ - 6 3/4
			i	E	15 33	(Pal) H = 08.46.01.9
			eSPP	E	16 29	
			iSS	E	21 53	
			e(SSS)	E	25 25	
			iL	E	39,9	
			iM	E	47,5	
3	1	I	i	Z	09 15 32	Traces
4	1	Iv	iPgPg	ZE	16 16 10	Ab. km 790
			iSn	E	17 01	USCGS: 40.9 21.0 E h = ab 33 km
			i	E	17 12	Grece - Jugoslavia border
			iSgSg	EN	17 49	H = 16.13.56.2
			iM	N	18 31	
5	2	Iv	i	Z	10 59 58	Weak
6	2	Iu	iP'	Z	17 34 16	Ab. 15150 km
			iPKS	E	37 48	Obscured by microseisms
						USCGS: 10.9 S, 164.9 E h = 25 km
						H = 17.14.49.3
7	4	I	e	E	02 21 (56)	Traces
8	4	I	e	N	06 47 11	Traces
			e	N	48 21	
9	4	Iv	e	E	12 50 08	Weak
			e	E	50 11	
			eSg	E	51 14	
10	4	I(v)	e	E	13 47 41	Traces
11	4	I	e	N	15 14 56	Traces

N°	Date	Character	Phase		h. m. s.	Remarks
12	5	IIIv	ePn	Z	20 22 51	Ab 900 km
			iSn	N	24 22	BCIS: 39° 3 N, 20°5 E Albania -
			i(Sb)	NW-SE	24 55	Grece border H = 20.20.49 Press
			iSgSgSg	SW-NE	25 23	Felt: Preveza Istanbul: M = 5,4
			iQ	NW-SE	25 31	USCGS: 39.2 N, 20.5 E h = ab. 49 km
			iM	NW-SE	26 11	Near coast of Grece M = 5 (Pal)
						H = 20.20.53.7
13	6	Iv	iP	Z+	04 50 14	Ab 8600 km
			ePcP	Z	50 31	USCGS: 53,0 N, 159.8 E h = ab. 32 km
			eS	N	05 00 01	Near east coast of Kamchatka
			eL	E	15,0	M = 5½ - 5 3/4 (Pal) 6-6 1/4 (Berk)
			eM	E	22,6	6 1/4 (Pas) H = 04.38.16,7
14	6	IVu	e(L)	E	07 45,8	Traces - obscured by microseisms
			eM	E	51,7	USCGS: 31° S, 177° W h = 184 km
						Kermadec Islands region M = 5 3/4-6
						(Berk) 6½ (Pas) H = 06.15.05,7
15	6	Iu	eP	Z	22 22 26	Weak ab 9100 km
			e(S)	N	32 47	USCGS: 52.7 N, 168.0 W h = ab 42 km
			eM	E	59,7	Fox Islands Auletian Islands
						M = 5-5 1/4 (Berk) 5 -½ (Pal)
						H = 22.10.06,4
16	8	Iu	iP	Z	04 37 (03)	Traces
						USCGS: 27.8 N, 44,3 W North Atlantic
						Ocean H = 04.28.11.4 H = 25 km
17	9	Iu	ePP	Z	03 37 08	Ab 12250 km
			eSP	N	46 42	USGS: 60.7 S, 24.8 W h = ab 37 km
			eSPP	N	47 30	Sandwich Islands M = 6 1/4 - 6½ (Pal)
			eSS	N	52 39	H = 03.17.58.5
			e	E	04 03,6	
			eL	E	10,5	
18	9	Iu	eP	Z	10 54 39	Ab. 7450
			eS	E	11 03 36	USCGS: 32,7 N, 103,4 E h = ab 47 km
			e(SS)	E	11 38	Szechwan Provincie, China M = 6 3/4
			eL	E	17 20	(Pas) H = 10.43.43.1
			eM	E	20 57	
19	9	Iu	e(P')	Z	20 24 23	Ab 11400 km
			eSP	E	33 36	USCGS: 23.2 S, 70.6 W h = ab. 52 km
			eSS	E	39 15	Near coast of Chile
			e(M)	E	21 07 47	Felt: Antofagasta M = 5½ - 5 3/4 (Pal)
						H = 20.06.16.2
20	10	Iv	e		10 27 55	Traces
			e(Sg)		28 22	Obscured by microseisms

Nº	Date	Character	Phase		h. m. s.	Remarks
21	10	Iv	e	N	15 32 37	Traces-obscured by microseisms
			iSg	E	32 50	
22	11	IIv	ePn	Z	05 33 31	Ab 900 km
			iSn	E	35 04	USCGS: 39.5 N, 21.1 E h = ab 39 km
			eSgSgSg	NW-SE	36 07	H = 05.31.34.1 Greece - Albania region
			i(Q)	E	36 20	BCIS: 39° 1 N, 20° 7 E NW coast of
			eiM	SW-NE	36 55	Grece H = 05.31.29
23	13	Iu	ePP	Z	06 55 38	USGCS: 1.4 N, 127.2 E h = ab 59 km
			i(SKS)	E	07 01 39	Molucca Passage H = 06.37.05.7
			eiSS	EN	10 26	
			eSSS	EN	14 15	
			eL	E	30,3	
24	13	IIu	iP	Z-	09 33 02.5	Ab. 9300 km
			iiS	N	43 26	USCGS: 51.1 N, 168.8 W h = ab 65 km
			iSP	N	44 24	Fox Islands Auletian Islands
			iSPP	E	45 21	M = 7 (Pas), 7 1/4 (Berk) 6 3/4 (Pal)
			eSS	N	49 (03)	H = 09.20.36.8
			eL	N	10 01.1	
			eM	E	08.4	
25	16	Iu	eP	Z	23 09 21	Traces 6150 km h = ab 20 km
			epP	Z	09 28	USCGS; 38.0 N, 89.5 E h = ab 24 km
			ipPP	Z	11 34	Sinkiang Provincie China
						H = 22.59.47.6
26	17	Iu	eP'1	Z	21 42 40	Traces
						USCGS: 56.2 S, 122.6 W h = ab 38 km
						South Pacific Ocean H = 21.22.45.6
27	18	Ir	ePn	Z	06 07 10	Traces
			e(PgPgPg)	N	08 27	USCGS: 35.0 N, 28.6 E h = ab. 43 km
			eM	E	14 04	East of Crete, Mediterranean Sea
						H = 06.03.37.5
28	18	I	e	Z	22 44 54	Traces
29	19	I(d)	e	Z	12 31 28	Tracce
30	20	Vu	eP	Z	22 15 28	10.950 km h = ab 90 km
			epP	Z	15 53	USCGS: 6,8 S, 80.7 W h = ab. 93 km
			ePP	E	19 38	Near coast of Peru 2 killed and esten-
			epPP	Z	20 02	sive property damage from seismic sea
			epPPP	E	22 05	wave at Pimental. Eten and Santa Rosa
			iSKKS	E	26 16	
			isSKKS	E	27 03	M = 6½ (Berk) 6½ (Pal) 6 3/4 (Pas)
			i(SP)	EN	28 21	H = 22.01.59.9
			iSPP	E	29 12	
			iSS	N	33 31	
			esSS	N	34 12	
			eSSS	N	37 38	
			e	N	39 43	
			eL	N	47,1	
			eM	N	54,8	

N°	Date	Character	Phase		h. m. s.	Remarks
31	22	Iu	e(P'1)	Z	03 52 05	Traces
			eP'2	Z	52 17	USCGS: 19.2 S, 173.1 W h = ab 25 km
						Tonga Islands region H = 03.31.54.3
32	22	I	e(M)	E	05 02,2	Traces
33	22	Iu	eiP	Z	06 34 44	Traces 9800 km 35.9 S, 52.3 E
			eSKS	N	45 10	h = ab 21 km Indian Ocean, north of
						Crozet Islands M = 6 3/4 (Pas)
						H = 06.21.45.0
34	22	I	e	E	13 18 36	Traces
35	22	Iu	e(M)	E	13 32 44	Traces
36	23	Iu	eP'1	Z	14 32 25	Ab 17500 km
			eP'2	Z	33 02	Obscured by microseisms
			eSS	N	56 30	USCGS: 24,2 S, 176.1 W h = ab 28 km
			eSSP	E	57 31	South of Tonga Islands M = 6 3/4 (Pas)
			eSSS	E	15 02 23	(Berk) 6 3/4 - 7 (Pal) H = 14.12.21.1
			e	E	17,1	
			eL	E	28,4	
			eM	E	41,0	
37	23	Iu	(e)P'1	Z	18 16 31	Slight trace
			iP'2	Z	18 17 06	USCGS: 24.0 S, 176.3 W h = ab 51 km
						South of Tonga Islands region
						H = 17.56.38,0
38	23	Iv	e	E	23 26 (59)	Slight trace
39	24	IIu	eiP'1	Z	07 12 38	Ab 17400 km
			iP'2	Z	13 17	Obscured by microseisms
			eSKP	N	16 18	USCGS: 23,2 S, 176,1 W South Tonga
			iPP	Z	16 49	Islands region M = 7 (Pas), 7 1/4 -
			e	EN	23 38	7½ (Berk) 7-7 (Pal) H = 06.52.41.1
			eSSS	N	42 41	h = ab 23 km
			eL	N	08 08,6	
			eM	N	21,0	
40	25	IVu	eP	Z	22 06 31	Traces 9350 km h = ab. 160km
			epP	Z	07 08	USCGS: 38.0 N, 140.5 E h = ab. 157 km
			ePP	Z	09 49	Honshu Japan H = 21.54.13.8
			epPP	Z	10 21	
			i(S)	E	16 44	
			eSP	E	17 29	
41	27	IVu	iP	Z	15 29 23	Sligh trace
						USCGS: 42.8 N, 143.3 E h = ab 122 km
						Near coast of Hokkaido Japan
						H = 15.17.15.2

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N°	Date	Character	Phase		h. m. s.	Remarks
42	27	I	eP	Z	20 46 24	Slight trace
						3,1 S, 29.1 E h = ab 60 km
						Belgian Congo H = 20.37.26.4
43	28	I	i	Z	15 29 23	Slight trace
44	30	I	e	Z	16 25 14	Slight trace

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

- November 1960 -

Constants of the Station

Instruments	Components	To	Vo	ε	Registration
Alfani 3 kg	N - S	8.3	2.500	∞	Foto
" 3 "	E - W	8.1	3.424	∞	"
" 3 "	Z	3.4	1.819	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	2	0.1	3.8	2	0.1	4.7	2	0.2	3.0
	18	2	0.2	5.7	2	0.2	5.4	...		
2	0	2	0.4	6.2	2	0.3	5.9	2	0.8	5.9
	6	...			2	0.4	6.0	3	0.5	1.8
	12	2	0.4	6.0	2	0.4	6.0	3	0.4	2.3
	18	...			...			3	0.4	2.0
3	0	2	0.2	6.0	2	0.2	6.0	3	0.4	2.8
	6	2	0.3	6.6	2	0.2	6.0	3	0.3	2.7
	12	2	0.3	6.3	2	0.3	5.7	3	0.2	2.5
	18	2	0.2	6.7	2	0.2	5.7	3	0.1	2.5
4	0	2	0.2	6.2	2	0.2	5.7	0.0		
	6	2	0.2	6.0	2	0.2	5.5	0.0		
	12	2	0.1	5.3	2	0.2	4.5	0.0		
	18	2	0.1	5.5	2	0.1	4.7	0.0		
5	0	0.0			3	0.1	2.1	3	0.4	2.5
	6	3	0.1	2.7	3	0.2	2.1	3	0.5	2.5
	12	3	0.2	3.0	3	0.2	2.5	3	0.8	2.3
	18	3	0.2	3.6	3	0.2	2.8	3	1.0	2.4
6	0	3	0.2	3.6	3	0.2	3.3	3	0.8	2.5
	6	3	0.2	3.8	3	0.2	3.7	3	0.4	2.8
	12	2	0.2	3.8	2	0.1	2.7	3	0.3	2.3
	18	2	0.1	4.0	2	0.1	4.0	3	0.1	1.8
7	0	0.0			2	0.1	4.0	3	0.1	2.3
	6	0.0			...			3	0.1	2.0
	12	0.0			0.0			3	0.3	2.0
	18	0.0			0.0			3	0.3	2.0

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
8	0	0.0			0.0			3	0.2	2.0
	6	...			...			3	0.2	2.0
	12	0.0			3	0.1	2.0	3	0.3	2.0
	18	0.0			0.0			3	0.1	2.0
9	0	2	0.1	5.0	2	0.1	5.0	0.0		
	6	...			...			0.0		
	12	...			...			...		
	18	2	0.2	6.0	2	0.2	6.0	0.0		
10	0	2	0.3	5.8	2	0.3	5.7	3	0.1	2.7
	6	...			...			3	0.5	2.1
	12	3	0.7 0.4	7.0 4.0	3	0.6 0.2	6.7 2.7	3	0.9	2.5
	18	3	0.9	8.2		0.8	8.3	3	0.9	2.5
			0.4	3.2		0.3	3.0			
11	0	3	0.9	8.2	3	0.8	7.8	3	0.4	3.1
	6	...	0.2	3.7	...	0.3	4.0	...		
	12	...			...			2	0.9	6.8
	18	2	0.5	7.4	...			2	0.5	6.7
12	0	2	0.4	7.2	...			2	0.6	6.3
	6	2	0.4	7.3	...			3	0.4	2.7
	12	2	0.3	7.0	2	0.2	6.3	3	0.3	2.0
	18	2	0.3	6.8	2	0.2	6.3	3	0.3	2.4
13	0	2	0.2	6.7	2	0.2	6.5	3	0.4	2.3
	6	2	0.2	6.7	2	0.2	6.5	3	0.3	2.5
	12	...			...			...		
	18	2	0.1	7.0	2	0.1	6.5	3	0.2	2.5
14	0	3	0.1	2.7	3	0.2	2.7	3	0.7	2.6
	6	3	0.3	3.0	3	0.2	2.5	3	0.6	2.3
	12	3	0.2	4.0	3	0.3	3.0	3	1.1	2.7
	18	3	0.2	4.0	3	0.3	3.5	3	0.4	2.5
				Regular world day						
15	0	2	0.4	7.8	2	0.4	7.7	3	0.4	2.7
	3	2	0.4	8.0	2	0.4	7.7	3	0.3	2.7
	6	2	0.6	8.0	2	0.4	7.7	3	0.2	2.5
	9	2	0.6	7.7	2	0.4	7.3	2	0.6	7.7
	12	2	0.5	7.7	2	0.4	7.8	2	0.5	7.0
	15	2	0.4	7.8	2	0.4	7.8	2	0.5	7.6
	18	2	0.4	7.3	2	0.4	7.6	2	0.5	7.6
	21	2	0.4	7.5	2	0.4	7.5	2	0.6	7.8

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
					Regular world day					
16	0	2	0.3	7.3	2	0.4	7.5	2	0.5	7.5
	3	2	0.3	7.2	2	0.3	7.5	2	0.4	7.3
	6	2	0.3	7.3	2	0.3	7.3	2	0.4	6.7
	9	2	0.3	6.7	2	0.3	6.7	2	0.3	6.7
	12	2	0.3	6.9	2	0.3	6.8	2	0.2	6.7
	15	2	0.2	6.7	2	0.2	6.9	2	0.2	6.5
	18	2	0.2	6.2	2	0.2	6.7	2	0.2	6.2
	21	3	0.2	6.7	2	0.2	6.5	0.0		
					Regular world day					
17	0	3	0.2	6.5	3	0.2	6.3	3	0.2	2.0
	3	3	0.2	6.2	3	0.2	6.3	3	0.6	2.3
	6	3	0.1	6.3	3	0.2	6.5	3	0.4	2.5
	9	3	0.1	6.5	3	0.1	6.5	3	0.2	2.0
	12	3	0.1	6.7	3	0.1	6.5	3	0.1	2.0
	15	3	0.1	6.5	3	0.1	6.3	3	0.1	2.0
	18	2	0.1	6.7	2	0.1	6.5	0.0		
	21	2	0.1	6.5	2	0.1	6.7	0.0		
18	0	2	0.1	6.2	2	0.1	6.0	0.0		
	6	2	0.1	5.3	2	0.1	6.0	0.0		
	12	0.0			0.0			0.0		
	18	0.0			0.0			0.0		
19	0	0.0			0.0			0.0		
	6	0.0			0.0			0.0		
	12	0.0			0.0			3	0.1	2.0
	Microseismic storm from 19th nov at 16h 30m to 20th nov at 22h 10m									
	17	1	0.1	2.0	1	0.2	2.0	1	0.9	2.0
	18	1	0.2	2.1	1	0.4	2.0	1	1.1	2.3
	19	1	0.3	2.0	1	0.4	2.0	1	1.5	2.3
	20	1	0.4	2.5	1	0.4	2.3	1	1.6	2.5
	21	1	0.4	2.7	1	0.5	2.7	1	1.9	2.5
	22	1	0.5	2.7	1	0.7	2.8	1	1.9	2.5
	23	1	0.5	3.1	1	0.7	3.2	1	2.2	2.8

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TS/sec
20	0	1	0.4	3.0	1	0.6	3.3	1	1.8	2.8
	1	1	0.4	3.0	1	0.6	3.3	1	1.6	2.8
	2	1	0.4	3.5	1	0.5	3.3	1	1.4	3.0
	3	1	0.4	3.3	1	0.5	3.3	1	1.0	3.0
	4	1	0.3	3.3	1	0.4	3.3	1	1.0	3.0
	5	1	0.3	3.3	1	0.3	3.3	1	1.0	3.0
	6	1	0.3	3.7	1	0.3	3.5	1	0.7	3.0
	7	1	0.2	3.7	1	0.3	3.7	1	0.5	2.7
	8	1	0.2	3.7	1	0.2	3.7	1	0.5	2.7
	9	1	0.2	3.7	1	0.2	3.7	1	0.4	2.5
	10	1	0.2	3.7	1	0.2	3.7	1	0.4	2.5
	11	1	0.2	4.0	1	0.2	3.7	1	0.4	2.5
	12	1	0.2	3.5	1	0.2	3.3	1	0.4	2.7
	13	1	0.1	3.3	1	0.2	3.5	1	0.4	2.5
	14	1	0.1	3.5	1	0.1	3.3	1	0.4	2.7
	15	1	0.1	3.3	1	0.1	3.3	1	0.4	2.7
	16	0.0			1	0.1	3.3	1	0.3	2.5
	17	0.0			0.0			1	0.3	2.5
	18	0.0			0.0			1	0.3	2.5
	19	0.0			0.0			1	0.2	2.5
	20	0.0			0.0			1	0.2	2.5
	21	0.0			0.0			1	0.2	2.5
	22	0.0			0.0			1	0.2	2.5
21	0	...			...			...		
	6	0.0			0.0			0.0		
	12	2	0.2	7.4	2	0.1	6.7	0.0		
	18	2	0.2	6.7	2	0.1	6.5	0.0		
22	0	2	0.1	6.0	2	0.1	5.7	0.0		
	6	0.0			0.0			3	0.1	2.0
	12	0.0			3	0.1	2.5	3	0.2	2.0
	18	3	0.1	2.7	3	0.2	3.0	3	0.4	2.5
23	0	3	0.2	3.3	3	0.2	3.3	3	0.5	2.5
	6	3	0.2	3.7	3	0.2	3.7	3	0.6	2.7
	12	3	0.3	3.7	3	0.2	3.3	3	0.5	2.2
	18	3	0.2	3.7	3	0.2	3.7	3	0.5	2.0
24	0	3	0.3	8.0	3	0.3	7.7	3	0.7	2.0
						0.2	2.3			
	6	3	0.4	8.3	3	0.4	8.0	3	0.5	2.3
	12	3	0.5	8.0	3	0.5	7.3	3	0.4	2.2
	18	3	0.4	7.0	3	0.3	6.7	3	0.4	2.3

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Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
25	0	3		6.7	3	0.3	6.3	3	0.3	2.0
	6	...			3	0.3	6.3	3	0.2	2.2
	12	2	0.2	5.5	3	0.2	5.5	0.0		
	18	2	0.1	5.5	...			0.0		
26	0	2	0.1	5.5	...			0.0		
	6	2	0.1	5.3	...			0.0		
	12	...			2	0.1	4.7	0.0		
	18	...			2	0.1	4.7	0.0		
27	0	...			2	0.1	4.7	0.0		
	6	2	0.1	4.7	2	0.1	4.7	0.0		
	12	0.0			2	0.2	5.5	0.0		
	18	2	0.1	5.0	2	0.1	5.0	0.0		
28	0	2	0.1	4.7	2	0.1	4.7	0.0		
	6	2	0.1	5.0	2	0.1	5.0	0.0		
	12	2	0.1	5.0	2	0.1	5.0	0.0		
	18	2	0.1	5.5	2	0.1	5.7	3	0.2	2.2
29	0	3	0.2	6.3	3	0.3	6.1	3	0.8	2.0
			0.1	1.7		0.2	1.7			
	6	3	0.5	7.0	3	0.6	6.7	3	1.0	2.0
			0.3	2.0		0.5	2.0			
	12	...			3	0.5	6.7	3	0.9	2.0
						0.4	2.3			
	18	3	0.5	6.3	3	0.4	6.7	3	0.5	2.3
						0.2	2.0			
30	0	3	0.3	6.0	3	0.4	6.5	3	0.5	2.5
	6	3	0.3	6.0	3	0.3	6.7	...		
	12	2	0.2	6.3	2	0.2	6.3	0.0		
	18	2	0.2	6.3	2	0.2	6.0	0.0		

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2-7-61
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International Seismological Centre

OSSERVATORIO GEOFISICO - TRIESTE

Viale Romolo Gessi, 4 Italia

- December 1960 -

N°	Date	Character	Phase		h. m. s.	Remarks
1	1	Ir	e	N	04 10 13	Obscured by microseisms
			e	ZN	10 41	USCGS: 38.1 N, 30.6 E h = ab.
						137 km Western Turkey
						H = 04.02.37
2	1	Iv	e	E	13 27 31	Traces
			e	Z	27 44	
			e	Z	28 35	
			i	Z	28 43	
3	1	Iu	e(P)	Z	21 01 12	Weak
			e	Z	02 16	
			eL	E	25,4	
			eM	N	31,1	
4	2	Iv	e	E	01 57 52	Traces
			e	E	58 29	
			e	N	58 47	
5	2	IIIu	eP	Z	09 24 43	Ab. 11450 km
			eiPP	Z	29 05	USCGS: 24.5 S, 69.9 W
			ePPP	Z	31 09	h = ab. 37 km Near coast of
			e	Z	31 34	Chile Felt: Antofagasta
			eiSKS	E	35 34	M = 7-7 1/4 (Berk) 6 3/4 - 7 (Pal)
			iSKKS	E	35 47	H = 09.10.41.0
			iS	E	36 38	
			i!(SPP)	E	38 27	
			iSS	E	44 13	
			eSSS	E	48 26	
			iL	E	01,7	
			iM	N	06,6	
6	2	Iu	iP	Z	09 51 38	Ab. 11450 km h = ab. 60 km
			e	Z	55 08	Obscured by preceding shock
			iPP	Z	55 49	USCGS: 24,3 S, 69,8 W h = ab.
						64 km Near coast of Chile
						M = 6 3/4 (Pas) H = 09.37.38.6

International Seismological Centre

N°	Date	Character	Phase		h. m. s.	Remarks
7	3	IIIu	iP	Z+	04 34 33	Ab. 6800 km h = ab. 45 km
			ePPP	Z	38 13	USCGS: 42,8 N, 104,5 E
			ipPPP	Z	38 23	h = ab. 45 km Outer Mongolia
			eS	E	42 49	M = 7 (Pas) 7 (Berk) 6 1/2-
			iSSS	N	49 42	6 3/4 (Pal)
			iMQ	N	57 12	H = 04.24.17.5
			iM	N	59,0	
8	3	I(d)	e	Z	12 14 04	Traces
			i	N	14 14	
9	4	Iv	ePn	Z	04 31 14	350 km
			e(Pb)	N	31 18	
			i	N	31 45	
			iSn	Z	31 51	
			iSgSg	N	32 11	
10	4	I(v)	e	N	16 00 26	Traces
			e	E	00 41	
11	5	I(v)	i(Sg)	E	19 13 26	Traces
12	5	Ir	i(P)	E	21 26 14	Traces obscured by microseisms BCIS: 35.6 N, 7.2 W H = 21.21.44 Atlantic Ocean Straits of Gibraltar. Forcibly Felt: V-VII Coast of Morocco between Tanger and Safi. Felt: in Spanish at Cadix, Jaen, Lucena, Huelva and Cacéres. USCGS: 35.7 N, 6.5 W h = ab. 66 km Straits of Gibraltar H = 21.21.51.7
13	6	Iu	eM	N	04 10 12	Slight trace USCGS: 42.9 N, 104.5 E Outer Mongolia h = ab. 55 km H = 03.35.30.6
14	6	Iu	i	E	09 14 06	Weak - Obscured by microseisms
			iPP	Z	14 24	11400 km
			iSKS	E	20 57	USCGS: 21,4 S, 69.0 W
			iSP	E	23 27	h = ab. 25 km Northern Chile
			iSPP	E	24 18	Felt: Antofagasta
			eM	E	50,3	M = 5 1/4 - 5 1/2 (Pal) H = 08.56.07.6
15	7	Iv	ePn	E	20 43 36	Traces 270 km
			ePgPg	N	43 45	
			iSn	E	44 07	
			iSg	N	44 14	

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N°	Date	Character	Phase		h. m. s.	Remarks
16	8	I(v)	e	Z	05 39 21	Traces
			i(Sg)	E	39 25	
17	11	Iv	e	E	07 25 41	Traces
			e	E	25 46	
			i	E	25 52	
18	11	Iu	e(P')	Z	19 12 34	Traces USCGS: 15.7 S, 166.9 E h = ab. 133 km New Hebrides Islands region M = 6 1/4 - 6 1/2 (Pas) H = 18.53.09.2
19	12	Iv	ePn	Z	21 59 53	(230) km
			ePgPg	Z	22 00 03	
			e	E	00 18	
			iSg	ZE	00 26	
20	13	IIu	(e) P_1'	Z	07 56 22	(18000)km Obscured by microseisms
			i(P_2')	Z	57 19	
			e	E	08 14 30	USCGS: 52.1 S, 160.9 E Macquarie Islands M = 7 1/4 (Pas)
			eSSP	E	22 27	
			eSSS	N	27 28	7 (Pal) H = 07.36.13.8
			eM	E	09 11,4	h = ab. 29 km
21	13	Iu	eM	E	10 54,6	Traces USCGS: 27.7 N, 142.4 E h = ab. 28 km Bonin Island region H = 10.05.24.3
22	15	IVu	eP	Z	00 05 24	11500 km h = ab 80 km
			ePP	Z	09 44	USCGS: 2.9 N, 126.5 E
			e	Z	10 09	h = ab. 77 km Molucca Passage
			ePPP	Z	11 53	M = 6 3/4 (Pas), (Berk)
			iSKS	EN	15 55	H = 23.51.28.6
			esSKS	N	16 39	
			iS	EN	17 05	
			isS	E	17 51	
			isSP	E	19 14	
			eSS	EN	24 18	
			eL	E	41,8	
			eM	E	48,6	
23	16	Iu	eM	E	18 40 22	Traces USCGS: 43.8 N, 28.9 W h = ab. 21 km Atlantic Ocean H = 18.21.31.7

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N°	Date	Character	Phase		h. m. s.	Remarks
24	17	IV(u)	e	Z	10 54 13	Traces h = ab. 300 km
			epPP	Z	55 27	USCGS: 6.4 S, 109.3 E h = ab.
			iSKKS	EN	11 00 35	295 km Java Sea H = 10.37.14.1
25	18	Iv	e(Pg)	Z	01 53 37,3	(85) km
			iSg	Z	53 48,6	BCIS: 45 N, 15 E Yugoslavia near Adriatico Sea H = 01.53.16 Ljubljana: Felt II - III
26	18	Iv	e(Sg)	Z	01 58 18,6	Weak BCIS: After shock (weak inscribed only at Trieste and Ljubljana) H = 01.57.44
27	19	Id	ePg	Z	01 58 54,2	(95) km
			i	SW-NE	59 04,8	BCIS: After shock
			iSg	Z	59 06,3	H = 01.58.32
28	18	Iv	e	E	04 52 19	Traces
			iSg	E	52 32	
29	19	Iv	ePn	Z	14 35 17	270 km
			ePgPg	N	35 27	BCIS: 44.5 N, 11.0 E
			iSg	N	35 55	H = 14.34.37 Italy. Etruscan Appennins south of Bologna
30	20	I	e	N	06 46 16	Slight trace
			i	N	46 23	
31	22	Iv	ePg	E	00 23 13	(180) km
			e	Z	23 17	
			i	N	23 34	
			i(Sg)	E	23 36	
32	26	Iu	eM	E	02 30,6	Slight trace
33	27	Iu	eP	Z	10 48 08	Ab. 9450 km Obscured by microseisms
			e	Z	48 17	
			eL	E	11 16,9	USCGS: 41.3 N, 124.9 W h = ab. 30 km Off coast of Northern California M = 5 - 5 1/4 (Berk) 5 3/4 - 6 (Pal) H = 10.35.28.0
			eM	E	23,7	
34	28	Ir	iSn	E	05 44 55	Traces. Obscured by microseisms USCGS: 34.9 N, 22.5 E h = 67 km Near Coast of Grece H = 05.39.43.7
35	29	Iu	(e)PP	Z	10 56 51	13300 km Obscured by microseisms
			ePPP	Z	59 41	USCGS: 44.8 S, 75.6 W h = ab 30
			eSKS	E	11 02 26	km Near coast of southern Chile
			eL	E	34,4	M = 6 1/2 - 6 3/4 (Pas) 5 3/4 - 6
			eM	E	45,8	(Berk) (Pal) H = 10.36.40.0
36	29	Iu	e	E	18 26,7	Obscured by microseisms

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O S S E R V A T O R I O G E O F I S I C O - T R I E S T E

Viale Romolo Gessi, 4 - Italia

- December 1960 -

Constants of the Station

Instruments	Components	T_0	V_0	ε	Registration
Alfani 3 kg	N - S	8.3	2.500	∞	Foto
" 3 "	E - W	8.1	3.424	∞	"
" 3 "	Z	3.4	1.819	∞	"

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
1	0	2	0.2	6.7	2	0.2	6.0	0.0		
	6	2	0.2	6.5	2	0.2	6.0	0.0		
	12	2	0.2	6.0	2	0.2	5.3	2	0.2	5.0
	18	2	0.2	6.0	2	0.2	5.0	0.0		
2	0	2	0.2	6.2	2	0.2	5.7	2	0.3	5.0
	6	2	0.2	6.2	2	0.2	5.3	2	0.4	5.0
	12	2	0.3	5.7	2	0.3	5.0	2	0.5	5.0
	18	2	0.4	5.5	2	0.3	5.4	2	0.4	5.0
3	0	2	0.3	5.7	2	0.3	5.4	2	0.4	5.2
	6	...			...			...		
	12	2	0.4	6.5	2	0.4	6.5	2	0.4	5.7
	18	...			2	0.4	6.7	2	0.4	5.5
4	0	...			2	0.5	7.0	2	0.4	6.0
	6	...			2	0.6	6.7	...		
	12	2	0.5	7.2	2	0.5	6.4	...		
	18	2	0.5	7.0	2	0.4	6.7	2	0.5	6.4
5	0	3	0.4	7.0	3	0.4	6.5	3	0.5	2.5
	6	3	0.3	6.7	3	0.4	6.5	3	0.6	2.5
	12	3	0.4	6.3	3	0.4	6.5	3	0.6	2.3
	18	3	0.4	6.5	3	0.4	6.5	3	0.6	2.3
6	0	3	0.3	6.2	3	0.3	6.0	3	0.6	2.3
	6	3	0.3	6.2	3	0.3	6.0	3	0.6	2.3
	12	3	0.2	6.2	3	0.3	6.0	3	0.8	2.5
	18	3	0.2	6.0	3	0.3	5.3	3	0.8	2.3
7	0	3	0.2	5.2	3	0.3	4.0	3	0.6	2.3
	6	3	0.3	3.7	3	0.3	3.7	3	0.6	2.3
	12	3	0.2	4.0	3	0.3	3.8	3	0.8	2.5
	18	3	0.2	3.6	3	0.3	3.6	3	0.7	2.3

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
8	0	3	0.2	4.4	3	0.2	4.0	3	0.7	2.3
	6	3	0.4	5.4	3	0.3	5.2	3	0.4	2.0
	12	3	0.3	4.5	3	0.3	5.0	3	0.4	2.0
	18	3	0.3	5.3	3	0.3	5.0	3	0.6	2.5
9	0	3	0.2	5.3	3	0.3	4.7	3	0.6	2.3
	6	3	0.2	4.7	3	0.3	4.7	3	0.5	2.5
	12	3	0.2	4.2	3	0.2	4.3	3	0.4	2.5
	18	3	0.2	4.0	3	0.2	4.0	3	0.4	2.3
10	0	3	0.2	3.7	3	0.2	3.7	3	0.4	2.7
	6	3	0.2	4.0	3	0.2	4.0	3	0.3	2.7
Microseismic storm from 10th dec. - 11h 05m to 11th dec. - 08h 10m.										
	12	3	0.1	2.0	3	0.2	2.3	3	0.5	2.0
	13	3	0.1	2.0	3	0.2	2.3	3	0.7	2.0
	14	3	0.1	2.0	3	0.2	2.3	3	0.7	2.0
	15	3	0.1	2.0	3	0.2	2.0	3	0.8	2.2
	16	3	0.2	2.7	3	0.3	2.0	3	1.1	2.0
	17	3	0.2	2.7	3	0.4	2.4	3	1.2	2.3
	18	3	0.3	2.9	3	0.5	2.5	3	1.6	2.1
	19	3	0.4	2.7	3	0.7	2.5	3	2.0	2.4
	20	3	0.4	2.8	3	0.6	2.3	3	1.8	2.5
	21	3	0.3	2.7	3	0.6	2.7	3	1.8	2.5
	22	3	0.3	2.7	3	0.5	2.5	3	1.8	2.5
	23	3	0.3	2.7	3	0.5	2.5	3	1.7	2.5
11	0	3	0.3	2.7	3	0.5	2.7	3	1.4	2.5
	1	3	0.3	2.7	3	0.4	2.7	3	1.2	2.5
	2	3	0.2	2.5	3	0.4	2.5	3	0.8	2.5
	3	3	0.2	2.5	3	0.3	2.2	3	0.8	2.5
	4	3	0.2	2.7	3	0.2	2.0	3	0.7	2.5
	5	3	0.2	2.7	3	0.2	2.0	3	0.6	2.5
	6	3	0.1	2.7	3	0.2	2.0	3	0.5	2.5
	7	3	0.1	3.0	3	0.1	2.0	3	0.5	2.5
	8	3	0.1	3.0	3	0.1	2.0	3	0.4	2.5
	12	2	0.1	4.3	2	0.1	3.5	2	0.2	2.7
	18	2	0.2	4.7	2	0.2	4.5	2	0.2	2.5
12	0	3	0.2	2.0	3	0.2	2.0	3	0.9	2.3
	3	3	0.2	2.0	3	0.3	2.3	3	0.9	2.5
	6	3	0.2	2.3	3	0.3	2.5	3	0.9	2.5
	9	3	0.2	2.5	3	0.3	2.7	3	0.8	2.3
	12	3	0.2	3.0	3	0.4	2.7	3	1.0	2.5
	15	3	0.2	3.0	3	0.3	3.0	3	1.0	2.5
	18	3	0.2	3.0	3	0.3	3.3	3	1.0	2.5
	21	3	0.2	2.5	3	0.3	3.0	3	1.0	2.5

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
				- Regular World Interval -						
				Regular World Day						
13	0	3	0.2	2.5	3	0.3	2.5	3	1.0	2.3
	3	3	0.2	2.5	3	0.3	2.5	...		
	6	3	0.2	2.5	3	0.3	2.5	...		
	9	...	.	.	...			...		
	12	3	0.2	2.5	3	0.2	2.5	3	0.9	2.5
	15	3	0.1	2.5	3	0.2	2.5	3	0.8	2.5
	18	3	0.1	2.5	3	0.2	2.5	3	0.6	2.5
	21	3	0.1	2.5	3	0.1	2.5	3	0.6	2.5
				Regular World Day						
14	0	2	0.4	6.7	2	0.4	6.7	3	0.5	2.3
	3	2	0.3	7.0	2	0.3	6.5	3	0.3	2.5
	6	2	0.3	7.0	2	0.3	7.2	3	0.3	2.5
	9	2	0.3	7.0	2	0.3	7.2	3	0.2	2.5
	12	2	0.3	7.5	2	0.3	7.5	...		
	15	2	0.3	7.2	2	0.3	7.0	...		
	18	2	0.3	7.5	2	0.3	7.3	...		
	21	2	0.3	7.5	2	0.3	7.2	2	0.2	4.3
				Regular World Day						
15	0	...			...					
	3	2	0.3	7.5	2	0.3	6.7	...		
	6	3	0.2	7.3	3	0.3	6.7	...		
						0.1	2.0			
	9	3	0.2	7.3	3	0.3	6.7	...		
						0.1	2.0			
	12	3	0.1	2.5	3	0.1	2.0	...		
	18	3	0.1	2.2	3	0.1	2.0	...		
	21	3	0.1	3.0	3	0.1	3.0	...		
16	0	...			3	0.1	3.0	...		
	3	3	0.1	2.7	3	0.1	2.5	...		
	6	3	0.1	2.7	3	0.1	2.3	...		
	9	3	0.1	2.5	3	0.2	2.3	...		
	12	3	0.2	2.5	3	0.3	2.3	3	1.2	2.5
	15	...			...			...		
	15	3	0.2	2.5	3	0.3	2.4	3	1.1	2.5
	18	3	0.2	2.5	3	0.2	2.5	3	0.8	2.3
	21	3	0.2	2.3	3	0.2	2.5	3	0.8	2.3

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec.	K	AS/μ	TS/sec.	K	AZ/μ	TZ/sec
17	0	2	0.2	5.3	2	0.2	5.0	2	0.4	2.3
	3	2	0.2	5.3	2	0.2	5.0	2	0.3	2.0
	6	2	0.2	5.3	2	0.2	5.3	2	0.3	2.0
	9	2	0.1	5.0	2	0.1	5.0	2	0.2	2.0
	12	2	0.2	5.3	2	0.2	4.7	2	0.3	2.5
	15	2	0.2	5.3	2	0.2	4.7	2	0.3	2.5
	18	3	0.2	5.0	3	0.1	4.7	3	0.6	2.5
	21	3	0.2	5.0	3	0.1	4.7	3	0.8	2.2
			0.2	2.5		0.3	2.0			
18	0	3	0.2	2.5	3	0.3	2.5	...		
	3	3	0.3	3.0	3	0.4	2.5	...		
	6	3	0.3	2.7	3	0.4	2.3	...		
	9	3	0.3	2.5	3	0.3	2.5	...		
	12	3	0.2	2.7	3	0.4	2.0	3	1.0	2.3
	15	3	0.2	2.3	3	0.3	2.0	3	1.0	2.3
	18	3	0.1	3.3	3	0.2	2.5	3	0.7	2.4
	21	3	0.1	4.3	...			3	0.7	2.5
19	0	3	0.1	3.7	3	0.2	3.7	3	0.6	2.5
	3	3	0.2	5.0	3	0.1	3.7	3	0.7	2.5
	6	...			3	0.2	2.5	3	0.8	2.5
	9	...			3	0.2	2.7	3	0.6	2.5
	12	3	0.2	6.0	3	0.2	6.0	3	0.7	2.5
	15	...			3	0.2	6.3	3	0.6	2.5
	18	...			...			3	0.6	2.5
	21	3	0.2	6.7	3	0.2	6.7	3	0.5	2.5
20	0	3	0.2	6.7	3	0.2	6.0	3	0.5	2.5
	3	3	0.2	6.5	3	0.2	6.0	3	0.4	2.5
	6	3	0.1	5.2	3	0.2	5.0	3	0.3	2.3
	9	3	0.1	5.2	3	0.2	5.0	3	0.3	2.3
	12	0.0			0.0			3	0.3	2.2
	15	0.0			0.0			3	0.3	2.3
	18	0.0			3	0.1	2.5	3	0.4	2.3
	21	0.0			3	0.2	2.7	3	0.7	2.5
21	0	0.0			3	0.2	3.0	3	0.8	2.5
	3	3	0.1	3.5	3	0.3	3.3	3	0.6	2.3
	6	3	0.2	3.8	3	0.3	3.3	3	0.6	2.5
	9	3	0.3	3.8	3	0.4	3.7	...		
	12	3	0.4	4.0	3	0.4	3.7	3	1.3	2.3
	15	3	0.3	3.5	3	0.4	3.0	3	1.2	2.2
	18	3	0.2	3.0	3	0.4	3.0	3	1.0	2.7
	21	3	0.2	3.0	3	0.4	3.3	3	0.7	2.5

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TSAZ/sec
22	0	3	0.2	3.0	3	0.2	3.0	3	0.4	2.5
	3	3	0.2	3.0	3	0.2	3.3	3	0.3	2.5
	6	0.0			3	0.2	3.3	3	0.3	2.5
	9	0.0			0.0			3	0.4	2.3
	12	0.0			3	0.1	2.2	3	0.4	2.3
	15	0.0			3	0.1	2.2	3	0.3	2.5
	18	0.0			0.0			3	0.3	2.3
	21	0.0			0.0			3	0.4	2.2
23	0	0.0			3	0.1	2.2	3	0.4	2.5
	6	3	0.2	2.7	3	0.3	2.6	...		
	12	3	0.2	2.7	3	0.2	2.2	3	0.7	2.3
			0.2	5.0		0.2	5.0			
	18	3	0.2	5.0	3	0.3	5.2	3	0.6	2.0
24	0	3	0.2	6.0	3	0.3	5.7	3	0.5	2.3
	6	3	0.2	6.7	3	0.3	6.1	3	0.5	2.3
	12	3	0.2	6.0	3	0.3	5.7	3	0.5	2.3
	18	3	0.2	6.1	3	0.3	5.3	3	0.8	2.5
25	0	3	0.2	5.7	3	0.3	5.5	3	1.0	2.5
		3	0.1	2.5		0.3	2.5			
	6	3	0.2	2.7	3	0.4	2.5	3	1.4	2.5
	12	3	0.2	2.7	3	0.3	2.5	...		
	18		0.2	2.2	3	0.3	2.3	...		
26	0	3	0.3	5.7	3	0.3	5.7	...		
						0.2	2.3			
	6	3	0.3	6.5	3	0.3	6.0	...		
						0.2	2.0			
	12	3	0.5	7.3	3	0.5	6.7	3	0.4	2.2
	18	3	0.5	7.3	3	0.5	7.3	3	0.7	7.0
									0.3	2.7
27	0	2	0.5	7.3	2	0.5	7.3	2	0.7	7.0
	6	2	0.4	7.0	2	0.4	6.7	2	0.7	7.0
	12	2	0.5	7.0	2	0.4	6.3	2	0.7	6.8
	18	3	0.5	6.7	3	0.4	6.7	3	0.5	5.7
									0.2	2.5
28	0	3	0.4	6.5	3	0.3	6.7	3	0.5	6.3
									0.1	2.3
	6	3	0.5	6.7	3	0.3	6.5	3	0.5	6.2
									0.2	2.3
	12	3	0.4	6.7	3	0.5	7.0	3	0.2	2.0
	18	3	0.4	6.7	3	0.6	6.8	3	0.7	2.0
						0.2	2.0			

International Seismological Centre

Date	Hours	K	AE/μ	TE/sec	K	AS/μ	TS/sec	K	AZ/μ	TZ/sec
29	0	3	0.5	6.7	3	0.6	6.5	3	1.2	
			0.3	2.7		0.5	2.3			
	6	3	0.5	7.0	3	0.5	6.7	3	0.7	
						0.2	2.7			
	12	...			...			...		
	18	3	0.3	6.7	3	0.3	6.3	3	0.5	2.5
30	0	3	0.3	6.7	3	0.3	6.5	3	0.9	2.2
			0.1	2.3		0.3	2.3			
	6	3	0.4	6.7	3	0.3	6.7	3	1.2	2.5
			0.2	2.3		0.3	2.3			
	12	3	0.2	2.5	3	0.2	2.5	3	1.3	2.5
	18	3	1.1	9.7	3	0.5	8.0	3	1.2	2.3
			0.2	2.7		0.2	2.5			
31	0	3	1.4	9.5	3	0.9	9.0	3	1.1	2.5
						0.3	2.7			
	6	3	1.1	8.3	3	0.5	9.0	3	0.5	2.3
						0.2	2.6			
	12	3	0.7	8.0	3	0.4	8.7	3	0.5	2.7
	18	3	0.7	8.0	3	0.3	7.5	3	0.2	2.5

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